Submission ID	05-01001			Ref ID CS-1001		
Title	Primary Ankle Joint Arthrodesis via Minimally Invasive Retrograde Intramedullary Nail Fixation for Acute Ankle Fractures in Immunocompromised Populations					
Submit Date	08/30/2023					
Correspondent	Last Name: Sohail					
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	Practice/Company/Residen	cy Program:	University H	lospitals		
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	Author 3: Parmvir De	o, BS	Author 4:	Mark Mendeszoon, DPM		
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	Ankle fractures in immunocompromised populations pose a distinct and challenging problem due to factors, including compromised bone quality and reduced wound healing capabilities. Conventional open reduction and internal fixation (ORIF) for ankle fractures in individuals with significant comorbidities such as diabetes mellitus, peripheral neuropathy, and peripheral vascular disease have yielded unfavorable results. This case series highlights the efficacy of utilizing primary ankle arthrodesis through retrograde Tibiotalocalcaneal nailing as the primary fixation approach for ankle fractures in immunocompromised populations.					
Methodology						
Procedures	5 patients undergoing minimally invasive primary ankle arthrodesis through retrograde Tibiotalocalcaneal intramedullary nailing for ankle fractures were included in this case series. Primary success outcomes were determined by bony union via radiographic analysis, ambulatory status, and infection rates.					
Results	fracture via retrograde tibio able to return to pre-surgica	All 5 immunocompromised patients undergoing minimally invasive primary ankle joint arthrodesis after acute ankle fracture via retrograde tibiotalocalcaneal arthrodesis were able to achieve bony union via radiographic analysis and were able to return to pre-surgical ambulatory status 12 months post-operatively. There were 0 cases of either superficial or deep infection and all hardware was retained 12 months postoperatively.				
Discussions	approach of open reduction and potential future major a stable and less invasive alte	Managing ankle fractures in immunocompromised patients presents a multifaceted set of difficulties. The conventional approach of open reduction, ORIF for these patients can result in unexpected complications, raising the risk of morbidity and potential future major amputation. This innovative technique of primary ankle arthrodesis through the hindfoot offers a stable and less invasive alternative to traditional ORIF, enabling earlier weight-bearing and reducing the likelihood of hardware failure and the need for major amputation later in life.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial E	Disclosures					
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Submission ID	05-01003			Ref ID CS-1003		
Title		Utilization of Constrained External Fixation for Gradual Correction of Post- Traumatic Fixed Equinus Contracture: A Case Study				
Submit Date	08/27/2023					
Correspondent	Last Name: Brown					
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Purpose	ankle surgeons. Constrained device to rotate around the ar	Post-traumatic fixed equinus contracture deformities can be debilitating for patients and present a challenge to foot and ankle surgeons. Constrained external fixation constructs can be utilized to assist in gradual correction by manipulating the device to rotate around the ankle joint axis. Scant literature is currently available on this topic. We present a case and describe the technique for utilizing a constrained external fixator to correct post-traumatic equinus.				
Methodology						
Procedures	motor vehicle accident. She subsequently underwent a pe year postoperatively to our fa degree plantarflexory contract	A 30-year-old female sustained an open calcaneal fracture, talar neck fracture, and medial malleolus fracture following a motor vehicle accident. She underwent urgent open reduction internal fixation, as well as tarsal tunnel release. She subsequently underwent a peroneal artery perforator flap for soft tissue coverage to the lateral calcaneus. She presented 1 year postoperatively to our facility with a severe residual equinus contracture. At the time of presentation, she had a 20-degree plantarflexory contracture at the ankle joint. She underwent gradual equinus correction with a constrained external fixator frame. Postoperative radiographs and clinical photographs reveal resolution of the equinus deformity with a neutral ankle.				
Results	Patient obtained a plantigrad	le foot with adequate ankle joint	range of moti	on.		
Discussions	loss of a plantigrade foot and	Fixed post-traumatic lower extremity deformities present a challenge to clinicians. Severe equinus deformities result in the loss of a plantigrade foot and difficulty with ambulation. Consideration should be taken for utilization of a hinged constrained external fixator device in patients with fixed post-traumatic equinus deformities, with congruent ankle joints and a uniplanar deformity.				
Format	Case Study					
Case Rpt Followup	15					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-01005			Ref ID CS-1005		
Title	Total Talonavicular Necrosis	Replacement with Sub	otalar Artho	odesis for Idiopathic Talar		
Submit Date	08/29/2023					
Correspondent	Last Name: Lowe Full Name: Daniel Low Practice/Company/Residenc	,	Email: St. Mary's Liv	Daniel.lowe@dmu.edu vonia		
Authors	Author 1: Daniel, D, L Author 3: Author 5: Author 7:	Lowe, DPM	Author 2: Author 4: Author 6: Author 8:	Joshua, S, Faley , DPM, FACFAS		
Purpose		to present the 1-year outcomes is, due to the limited amount of pu		vicular replacement with subtalar arthrodesis a on the topic.		
Methodology						
Procedures	maintain motion through the talar neck. Results were pro anchored to the talar head, t talus. In this report, we desc	Harnrrongroj and Vanadurognwan first reported talar implants using first generation implants for talar AVN. Goal was to maintain motion through the tibiotalar joint and restore ankle height. Design was a talar body prosthesis with a peg in the talar neck. Results were promising, but issues with loosening arose. Second-generation implants lacked the peg and weren't anchored to the talar head, these demonstrated talar head collapse. Currently third-generation implants replace the entire talus. In this report, we describe the one-year outcome of a custom-made talonavicular implant with subtalar arthrodesis. The implant was designed for a 36-year-old female with idiopathic talar necrosis.				
Results	with dorsiflexion 12 degrees of 64.6 mm and post-operat	Patient's results: Follow-up of 12 months. Pre-operative AOFAS score of 42, post-operative 65, post-operative ankle ROM with dorsiflexion 12 degrees and plantarflexion 40 degrees. Radiograph's demonstrated pre-operative talocalcaneal height of 64.6 mm and post-operative 63.8 mm, and a pre-operative talar declination of 23.66 degrees versus post-operative 15.9 degrees. VAS scores improved from 8 to 3 following surgery.				
Discussions	dorsiflexion at the terminal	stance. Our patient demonstrates	adequate motio	ding response phase and 12 degrees of on for walking. From the results of this case rodesis is a viable option for talar AVN.		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconst	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01006 Ref ID				Ref ID CS-1006		
Title	Pancreatitis Foot Pain	Pancreatitis, Panniculitis, and Polyarthritis in Podiatry: An Unusual presentation of Foot Pain					
Submit Date	08/28/2023						
Correspondent	Last Name: M	liggantz					
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Authors		• •	figgantz DPM aeiman DPM	Author 2: Author 4: Author 6: Author 8:	Shane Jones		
Purpose	Our purpose is to and a broader dia			esolving with traditio	nal treatments ma	y require an extensive workup	
Methodology							
Procedures	recurrent acute pa swelling, redness Colchicine did no crystals, MRI wa cultures and biop	This case depicts that systemic disease can have Podiatric manifestations. The patient in this case was admitted for recurrent acute pancreatitis with elevated WBC, now endorsing polyarthralgia of an unclear origin with symptoms such swelling, redness, and severe pain of multiple joints in his lesser pedal digits. Podiatry was consulted for evaluation. When Colchicine did not improve his painful erythematous dactylitis and synovial fluid aspiration came back negative for gouty crystals, MRI was indicated to rule out underlying infection. Possible abscess was shown on MRI, thus an I&D with cultures and biopsies was executed. Wound culture and bone biopsy returned negative for any bacterial infection. The pathology report is what led to a final diagnosis.					
Results		made after				reatic manifestation of with surgical biopsies positive	
Discussions	If routine treatme workup is indicat comprehensive c	When a patient presents with painful erythematous dactylitis, Podiatrists formulate a list of common differential diagnoses. If routine treatments for these suspected diagnoses do not improve symptoms, advanced imaging and further laboratory workup is indicated. If advanced imaging indicates potential infection, surgical intervention is warranted with comprehensive cultures and biopsies obtained. If samples are negative for infectious process, podiatrists must be suspicious of other etiologies.					
Format	Case Study						
<b>Case Rpt Followup</b>	13						
Student Club	Not a Student Cl	ub Poster					
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-01007			Ref ID CS-1007		
Title	A case report:	A case report: Bilateral Hypertrophied Peroneal Tubercle in a Pediatric Patient				
Submit Date	08/30/2023					
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Authors		ri K Patel, DPM cti Moradia, DPM	Author 2: Author 4: Author 6: Author 8:	Denis N Agbor, DPM April Nelson, DPM		
Purpose	•	• •		th work up of bilateral lateral heel pain in the onsidered in the differential diagnosis.		
Methodology						
Procedures	and diagnostic sinus demonstrated hypert conservative treatme extremity at a time.	A 16 year old male presented with bilateral lateral ankle pain. Patient endorsed minimal to no relief with custom inserts and diagnostic sinus tarsi block, therefore advanced imaging, including CT scan and MRI, were obtained. Imaging demonstrated hypertrophied peroneal tubercle with impingement of peroneal tendons. After failing 6-7 months of conservative treatment, surgical resection of the peroneal tubercle and synovectomy of peroneal tendons of one lower extremity at a time. Significant pain relief after his first surgery and underwent contralateral limb with similar operative and post operative treatment.				
Results	Complete resolution	of his lateral heel pain.				
Discussions	pathology, enlarged literature that show of Dutton et al. showed of pain in conjunction	Lateral heel pain in the pediatric population can be due to multiple etiologies such as flatfoot deformity, peroneal tendon pathology, enlarged peroneal tubercle, and or trauma to the heel. There have been a handful of case reports presented in literature that show enlarged peroneal tubercles can contribute to tenosynovitis of peroneal tendons. A study done by Dutton et al. showed that peroneal tubercle is present in 57 % of patients & th; J or years old and can be an infrequent source of pain in conjunction with pes planus and or tarsal coalition. Operative management of painful peroneal tubercle showed good results in resolution of pain and return to activity in the past. This case study demonstrated a similar outcome.				
Format	Case Study					
<b>Case Rpt Followup</b>	24					
Student Club	Not a Student Club I	Poster				
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
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Submission ID	05-01008 Ref ID CS-10				Ref ID CS-1008		
Title	Radiogra	Radiographic and Clinical Outcomes Following Tibiocalcaneal Arthrodesis					
Submit Date	08/28/2023						
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Purpose	traumatic arth to the calcane	Tibiocalcaneal (TC) arthrodesis is performed for patients with severe hindfoot disease and deformity, including post- traumatic arthritis, Charcot, and avascular necrosis. The surgical procedure involves removing the talus and fusing the tibia to the calcaneus, in effort to preserve or restore a plantigrade foot. Our study assesses the clinical and radiographic outcomes of patients undergoing tibiocalcaneal arthrodesis.					
Methodology							
Procedures	Indications for each fixation calcaneal incl	Five patients who underwent tibiocalcaneal arthrodesis as a single or staged procedure were included in this case series. Indications for surgery were post-traumatic arthritis and Charcot deformity. Retrograde intramedullary nail was used for each fixation construct. Two authors (L.L. and B.R.) used weight bearing radiographs to measure pre and post-operative calcaneal inclination angle. Plantarflexion and dorsiflexion radiographs were used to measure Chopart's joint excursion. Time to weightbearing and post-operative complications were also recorded.					
Results	foot wound b inclination ar	Three patients experienced post-operative complications: pseudomonas bacteremia, post-operative hypotension, and dorsal foot wound breakdown. There were no re-operations or proximal limb amputation after 12 months follow up. Calcaneal inclination angle and Chopart's joint excursion were recorded in Table 3. All five patients who underwent tibiocalcaneal arthodesis were able to weightbear with a double upright brace over a range of 3.7 to 5.2 months.					
Discussions	following TC	arthrodesis. A		n a talectomy un	graphic alignment or Chopart's range of motion less absolutely necessary, it does have the th weightbearing.		
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Studen	t Club Poster					
Classification		Ankle Recons	truction				
Level of Evidence	Level IV						
Authors/Financial Di	isclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01009 Ref ID CS-100				1009	
Title	A Rare Case Study of	A Rare Case Study of Pleomorphic Rhabdomyosarcoma of the Foot				
Submit Date	08/28/2023					
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Authors		apally, DPM, MA n, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Tiffany K Hoh, DPM, FACFAS Albert J Aboulafía, MD, MBA, FACS		
Purpose	This case study highlights a ra which was initially thought to		cer identified ir	the foot as pleomorphic rhabdomyosarcon	ma,	
Methodology						
Procedures	subcutaneous layer plantar to fluid collection. After surgical rhabdomyosarcoma with lymp underwent partial resections o cells. A PET scan was perform	72-year-old female presented with a painful left plantar foot mass. An MRI revealed a septate cystic lesion in the subcutaneous layer plantar to the fourth and fifth metatarsals. Possible differentials included ganglion cyst versus infected fluid collection. After surgical soft tissue excision, pathology identified the mass as a grade 3 pleomorphic rhabdomyosarcoma with lymphovascular invasion. The patient was immediately referred to orthopedic oncology. She underwent partial resections of metatarsals 3-5 with the application of a wound vac and margins were negative for tumor cells. A PET scan was performed due to the highly metastatic nature of this cancer, which was negative. The patient was placed on a surveillance protocol which included chest x-rays and CTs every 3 months per orthopedic oncology.				
Results	The patient continued with NI with the orthopedic oncology			chieve secondary closure. She continues ca oring.	ire	
Discussions	commonly the pleomorphic va	ariant, which has a poor progn	osis. This case	ts. However, when identified in adults, it is study highlights a patient with this rare for h the orthopedic oncology team.		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01013				Ref ID CS-1013	
Title	Description and concordance of intra-operative sesamoid axial fluoroscopic imaging: a case report and proof of concept investigation.					
Submit Date	08/28/2023					
Correspondent	Last Name: Meyr					
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Authors	Author 1:Salvatore FaziAuthor 3:Andrew J. MegAuthor 5:Author 7:	·	Author 2: Author 4: Author 6: Author 8:	Austin Solom	on, DPM	
Purpose	There has been contemporary emphasis on frontal plane evaluation and correction of the hallux valgus deformity. This might be evaluated pre- and post-operatively directly with the sesamoid axial radiographic projection, but intra-operatively only indirectly with reduction of the tibial sesamoid position in the transverse plane. The objective of this investigation was to describe a reproducible technique to generate intra-operative sesamoid axial fluoroscopic imaging.					
Methodology						
Procedures	Intra-operative technique: First, center and position the C-arm by obtaining an AP view of the ankle. The operative foot should be in the center of the tubehead (if utilizing a mini-C-arm) or in the center of the image (if utilizing a large C-arm). Next manipulate the subtalar joint into neutral position and translate the tube head inferiorly until the metatarsal heads are at the center of the image (specifically centered on the second metatarsal head). Finally dorsiflex the digits to clearly visualize the sesamoids and crista of the first metatarsal head.					
Results	A case is presented of a patient undergoing hallux valgus surgery. Pre- and post-operative sesamoid axial radiographic projections were obtained. Intra-operative sesamoid axial images were obtained utilizing the described technique prior to and following performance of a metatarsal osteotomy. Good concordance of the tibial sesamoid grade was observed between perioperative and intra-operative imaging both before and after the surgical procedure.					
Discussions		monstrate the feasibility of per tions will confirm the reliability			perative imaging with	
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level V					
Authors/Financial D	visclosures					
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		Member of a medical publica board	ation or editoria	l governing	JFAS	

Submission ID	05-01018			Ref ID CS-1018			
Title		A Case Report: Mid-Term Results in Total Ankle Replacement in a Patient With Tibio- talar Osteomyelitis Secondary to Periprosthetic Total Knee Arthroplasty Infection					
Submit Date	08/29/2023						
Correspondent	Last Name: Sheckler						
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	Practice/Company/Residence	cy Program:	Associates in	Medicine and Surgery			
Authors	Author 1: Robert Shee	ckler, DPM	Author 2:	Jonathan Furmanek, DPM, AACFAS			
	Author 3: Eugene Bate	elli, DPM, FACFAS	Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	The purpose of this case stu prosthetic	The purpose of this case study is to report early positive results in treating septic arthritis of the ankle joint with a total joint prosthetic					
Methodology							
Procedures	64 year old female, with history of triple arthrodesis left foot, presented to the emergency room with bacteremia following a left total knee arthroplasty (TKA) with concomitant left septic knee joint in October, 2013. She was started on daptomycin and underwent surgical removal of left knee implant with implantation of antibiotic impregnated cement. Eventually she had a revision in April, 2014. She continued the daptomycin through June, 2014. 7 weeks after finishing the daptomycin, the patient presented with symptoms consistent with a septic joint of the left ankle joint and concerns for osteomyelitis of distal tibia and talus based on in-office x-rays. She underwent incision and drainage of the left ankle in August, 2014, with eventual total ankle arthroplasty with implant in November, 2014. Patient was then seen in office per the surgeons total ankle arthroplasty protocol for 44 months post-operatively.						
Results		Patient with septic left ankle joint and osteomyelitis of distal tibia and talus who underwent left total ankle arthroplasty. At the last appointment (44 months post-op), patient was ambulating without pain and had no evidence of wearing or loosening of the hardware.					
Discussions	spreading to other area. Thi	Infection of a total knee arthroplasty is a rare complication seen in 1%-2% patients with few incidence of infection spreading to other area. This case provided several unique scenarios that may provide insight into expanded use of total ankle arthroplasty and treatment protocol for infected total ankle arthroplasty.					
Format	Case Study						
<b>Case Rpt Followup</b>	44						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Dise	eases					
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-01029			Ref ID CS-1029		
Title		A Rare Case of Hemosiderotic Synovial Inflammation Formation Following Repetitive Traumaitc ankle injury				
Submit Date	08/28/2023					
Correspondent	Last Name: Tian Full Name: Weiyuan, Practice/Company/Reside	Tian, DPM ency Program:	Email: Main Line F	TianW@mlhs.org lealth Podiatric Medicine and Surgery		
Authors		Tian, DPM puzzi, DPM AACFAS	Author 2: Author 4: Author 6: Author 8:	Justin Garvin, DPM		
Purpose	osteoarthritis. This case re	Repetitive hemarthrosis can lead to the rare occurrence of hemosiderotic synovial inflammation and early-onset osteoarthritis. This case report reviews a rare nonhemophilic hemosideric synovial inflammation with manifestation in a large anterior ankle joint soft tissue mass.				
Methodology						
Procedures	revealed a large joint effu Attending surgeon elected compressible, oval-shape blade was used to transec	A 23-year-old female presents with history of right ankle impingement pain secondary to active sports playing. MRI revealed a large joint effusion present, large joint body noted in the anterior part of the ankle joint measuring 14 mm. Attending surgeon elected an anterior ankle approach. After anatomically dissection, an approximately 3.5 cm x 3 cm compressible, oval-shaped mass is noted encapsulated through adipose tissue with a peduncle at the anterior ankle joint. 15 blade was used to transect the pedicle, synovial fluid is noted immediately. After removal of the mass, we also noted there is a hard mass within the soft tissue mass.				
Results	displayed by this mass be tissue with ulceration, her	Reading radiologist, expressed that they had never encountered such a finding on the MRI with anatomy and layers displayed by this mass before.Operative pathology specimen #1 Soft tissue mass right ankle; was read as Granulation tissue with ulceration, hemosiderin deposition, focal infarction, and hemorrhage, fibropurulent debris, chronically inflamed synovium, and benign fibroadipose tissue. "				
Discussions	anterior ankle soft tissue	This case report reviews and documents a rare nonhemophilic hemosideric synovial inflammation with a 14mm large anterior ankle soft tissue mass. Remains unclear when the hemorrhagic joint initiates the degenerative process and at what point it becomes irreversible. Further research is needed, and need for surgical intervention depends on the extent of joint damage.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poste	r				
Classification	Soft Tissue/Tumor	Soft Tissue/Tumor				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01033 Ref ID CS-						
Title	Cerebrotendinous <b>X</b>	Cerebrotendinous Xanthomatosis in the Achilles Tendon: A Case Study					
Submit Date	08/30/2023						
Correspondent	Last Name: Marcoux Full Name: John T. Mar Practice/Company/Residenc	coux, DPM, FACFAS zy Program:	Email: jmarcou2@ Beth Israel Deaconess Med	bidmc.harvard.edu ical Center			
Authors	Author 1: Rahul Mishi Author 3: Author 5: Author 7:	ra, DPM	Author 2: John T Mar Author 4: Author 6: Author 8:	coux, DPM, FACFAS			
Purpose		The purpose of the case report is to describe and document the clinical presentation, diagnostic workup, and management of Cerebrotendinous xanthomatosis (CTX).					
Methodology							
Procedures	mutations in the CYP27A1 cholestanol, a toxic choleste eyes. Common symptoms in which can cause vision imp swelling and pain at the ank revealed concerns for xanth history of hypercholesterole	Literature Review: Cerebrotendinous xanthomatosis (CTX) is a rare autosomal recessive disorder that is caused by mutations in the CYP27A1 gene. CTX results from a deficiency in this enzyme, which leads to the accumulation of cholestanol, a toxic cholesterol derivative, in various tissues of the body, particularly in the brain, tendons, and lenses of the eyes. Common symptoms include tendon xanthomas, which are yellowish nodules that form on the tendons, and cataracts, which can cause vision impairment. Case Study: A 31-year-old male on the autism spectrum was noted to have tendon swelling and pain at the ankles. He was subsequently diagnosed with bilateral achilles tendinopathy. However, MRI revealed concerns for xanthogranulomatous achilles tendinopathy. Furthermore, it was revealed that there is a familial history of hypercholesterolemia in both the father and patient's brother; CTX is often associated with elevated levels of cholesterol and cholestanol. He was then referred to a neurogenetics specialisit for further workup and treatment.					
Results	MRI, genetic testing, and la (CDCA).	b-work confirmed the diagnosis	of CTX, and the patient was	started on chenodeoxycholic acid			
Discussions		diagnosed disease. Early diagno ment with CDCA has been show					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-01035			Ref ID CS-1035		
Title	A Rare Cause of Progressive Hallux Valgus Attributed to Supernumerary Metatarsal					
Submit Date	08/28/2023					
Correspondent	Last Name: Kaur Full Name: Kirin Ka Practice/Company/Resid		Email: Henry Ford I	kkaur3@hfhs.org Macomb		
Authors	Author 1: Kirin Ka Author 3: Author 5: Author 7:	ur	Author 2: Author 4: Author 6: Author 8:	Brian Loder		
Purpose	The os intermetatarseum is a rare accessory bone seen in approximately 4% of the population. It is typically located between the bases of the 1st and 2nd metatarsals. Although uncommon when present, the os intermetatarseum can present with painful forefoot pathology that often necessitates surgical removal. Even more rare is when these accessory bones are large enough to be named a supernumerary metatarsal. The aim of this study is to highlight the rare occurrence of two supernumerary metatarsals large enough to cause a progressive hallux valgus deformity in two young adults. The authors present two distinct cases where a supernumerary metatarsal was the cause of a painful rigid hallux valgus deformity.					
Methodology						
Procedures	metatarsal of the first int	Two patients presented with complaints of painful bunion deformities. Each patient's radiographs revealed a rudimentary metatarsal of the first intermetatarsal space, which abutted the first metatarsal and increased the 1st intermetatarsal angle. Given each patient's clinical and radiographic presentations, surgical intervention was planned.				
Results		Case 1: Excision of supernumerary metatarsal, Lapidus bunionectomy, Reverdin osteotomy, and Akin osteotomy. Case 2: Excision of supernumerary metatarsal, Austin bunionectomy, first metatarsal to second metatarsal stabilization.				
Discussions	symptomatic presentation intermetatarsal space and	Os intermetatarseum is typically presented as an asymptomatic ossicle, however some cases in literature have reported a symptomatic presentation. In both patients the accessory metatarsal arose from the second metatarsal, occupying the first intermetatarsal space and resulting in a non-reducible increased 1st intermetatarsal angle. This necessitated surgical intervention, which is recommended in cases of symptomatic supernumerary metatarsal				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poste	er				
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01037			Ref ID CS-1037		
Title	Management of fun ankle ORIF	igal osteomyelitis in set	ting of deep	o hardware infection status post		
Submit Date	08/28/2023					
Correspondent	Last Name: Diora					
	Full Name: Isha Practice/Company/Residen	cy Program:	Email: Englewood H	ishadiora21@gmail.com lealth and Medical Center		
Authors	Author 1: Eduardo Gl	ass, DPM	Author 2:	Isha Diora, DPM		
	Author 3: Jonathan Ri	ichards, DPM	Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	The presence of fungal osteomyelitis is uncommon and underreported in literature. This case report documents the incidence and overall treatment of candida infection in the setting of wound dehiscence and deep hardware infection status post open reduction internal fixation of a trimalleolar ankle fracture.					
Methodology						
Procedures	A 67 year old otherwise healthy woman, non-diabetic and non-immuno compromised presented with wound dehiscence and deep hardware infection status post right ankle ORIF done in a foreign country. A 14 month follow up of treatment of sequelae with discussion is included in this study. Serial clinical images, cultures and radiographs were done to confirm progress and healing of injuries. Patient underwent serial removal of hardware, application of external fixator, angiogram with angioplasty, serial wound debridements, removal of external fixator, and subsequently ankle fusion.					
Results		Full epithelialization of the dehiscence occurred following the culture of candida parapsilosis with treatments and vascular optimization; with ankle fusion occurring at the 12 month follow up.				
Discussions	Bone fungal infection is very rare, occurring in the immuno-compromised patient population. Candida infection develops as a manifestation of systemic candidemia in most cases. Direct implantation of Candida is a very rare cause. The most common pathogen in the setting of fungal infection is candida albicans, in this incidence, candida parapsilosis was cultured. A focused multi-disciplinary approach was necessary for an excellent outcome in this patient's sequelae. Although rare, a fungal panel should be a component in culturing deep hardware infections.					
Format	Case Study					
Case Rpt Followup	14					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Diseases					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01038				Ref ID CS-1038		
Title	<b>Revision Total Talus</b>	Revision Total Talus Arthroplasty with a Constrained Implant: A Case Series					
Submit Date	08/28/2023						
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Purpose	an alternative to tibiotalocal	Severe talar osteonecrosis is a challenging entity to treat. Total talus replacement (TTR) represents newer technology and an alternative to tibiotalocalcaneal arthrodesis. As TTR becomes more widely utilized, revision options will be needed. The authors present their experience of failed TTR which were revised to a second total talus implant. Surgical technique is described.					
Methodology							
Procedures	Three patients who underwei month follow up from revision	nt revision TTR after complicat on procedure.	ions following	index TTR. All	patients obtained at least a 12		
Results	custom cobalt chrome constr required polyethylene spacer from pre-operative function 18 months postoperatively. N	Failure of 3 primary TTR was secondary to chronic pain, implant subsidence, and tibial plafond wear, respectively. Three custom cobalt chrome constrained total talar implants were used in combination with a fixed bearing tibial prosthesis. One required polyethylene spacer exchange. One patient had a previous tibial tray which was not exchanged. Improvement from pre-operative function and post-operative maintenance of radiographic alignment occurred in all 3 patients at average 18 months postoperatively. No subsidence or major complications were noted. Ankle joint ROM improved from an average of 12.5 degrees preoperatively to 26.5 degrees at latest post-operative visit.					
Discussions	TTR will be needed. Three p talus revision with a constrai	The popularity of total talus implants for treatment of talar bone loss or osteonecrosis is increasing. Techniques for revising TTR will be needed. Three patients in the present cohort had improvement in clinical and radiographic outcomes after total talus revision with a constrained implant. Further studies are warranted to compare revision total talus replacement to tibiotalocalcaneal arthrodesis.					
Format	Case Study						
Case Rpt Followup	18						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstr	ruction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):		
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Submission ID	05-01040				Ref ID CS-1040	
Title	A Veterai	n's Limb Sa	alvage Outcome Follov	ving a Cho	part's Amputation	
Submit Date	08/28/2023					
Correspondent	Last Name:	JAPPAR				
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	Author 3:	Hiba, Mohiu	uddin, DPM	Author 4:	Hummira, H, Abawi, DPM, FACFAS, DABPM	
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	limb length.		f the residual limb length is imp		multidisciplinary approach to preserve greater vel of amputation has functional and quality-of-	
Methodology						
Procedures	amputation w Surgical dehi	74-year-old Vietnam War Veteran presented with a chronic diabetic ulcer following a midfoot amputation. Midfoot amputation was converted to a Chopart's amputation with tibiotalocalcaneal arthrodesis and tendo-achilles lengthening. Surgical dehiscence was successfully treated in the setting of internal fixation by utilizing secondary wound closure techniques, antibiotics, and offloading.				
Results	At one year f	At one year follow up, patient is fully weight bearing with length preservation and free of ulcerations.				
Discussions	hindfoot fusio can still occu	Studies show reduced complication rates with modifications to Chopart's amputation such as tendon balancing and hindfoot fusion, consequently the need to raise the amputation level. However, stump breakdown after modified techniques can still occur and pose a risk for limb loss. Our multidisciplinary approach involves obtaining alignment through surgical reconstruction, protection of soft tissue envelope from sheer forces with long term custom AFO and forefoot fillers.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Diabetic Foo	t				
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
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Submission ID	05-01041					Ref ID CS-1041	
Title		Hemi-Talus Metallic Implant for Severe Recalcitrant Osteochondral Defects of the Talus in the Young Patient					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com		schoff, DPM AACFAS ncy Program:	Email: Balance Foor	bischoff91@, and Ankle	gmail.com	
Authors	Author 1: Author 3: Author 5: Author 7:		schoff, DPM AACFAS , Sharpe, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Joseph, Saxo	n, DPM AACFAS	
Purpose	arthroplasty, t suitable for al	Arthroscopic and open approaches to osteochondral lesions of the talus are well studied. When severe, total ankle arthroplasty, total talus implants, or ankle arthrodesis are frequently performed. However, these procedures may not be suitable for all patients. The purpose of this study is to review two patients who underwent hemi-talar implants for severe, recalcitrant talar lesions.					
Methodology							
Procedures	Both underwe demands, and	ent conservati possible mor medial malle	ent two young patients, ages 17 a ve measures followed by repeat rbidity associated with each proc colus takedown were not pursued implant.	ed surgical atten edure a total and	pts to heal these the second structure of the second s	e lesions. Due to age, functional ankle arthrodesis, and bulk	
Results	complication post-operative	Postoperatively, one patient did require an additional operation for tibial exostectomy but neither patient has had complication with or need for revisional surgery of the implant. Each of these patients are now 24 months and 17 months post-operative at the time of this conference. They have each reported overall satisfaction and improvement of pain with the procedure.					
Discussions	There is even	less available	of literature regarding treatment e on the topic of hemi-talar impl ni-talus metallic implant to educ	ants. We present	this case series	of two young patients who	
Format	Case Study						
<b>Case Rpt Followup</b>	16						
Student Club	Not a Student	Club Poster					
Classification	Rearfoot and	Ankle Recons	struction				
Level of Evidence	Level V						
Authors/Financial Di	isclosures						
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Submission ID	05-01043			Ref ID CS-1043			
Title		TRANSVERSE BONE TRANSPORT FOR THE TREATMENT OF DYSVASCULAR COMPLEX WOUNDS OF THE FOOT: A CASE SERIES					
Submit Date	08/28/2023						
Correspondent	Last Name: Hronek						
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	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Surgical treatment of dysvascular foot wounds are the ire of Foot and Ankle Surgeons. Recent publications have correlated transverse distraction of the tibial cortex with improved clinical outcomes theoretically due to neovascularization. The purpose of this series is to catalog a small cohort of patients, in a multi-center and multi - surgeon retrospective series, who have undergone transverse bone transport for the treatment of ischemic foot wounds. We aim to identify if 1.) Transverse osteogenesis improves wound healing 2.) If neovascularization or circulation is improved following surgery and 3.) To evaluate advantages / disadvantages of bone transport in the setting of limb preservation.						
Methodology							
Procedures	included in this study. Retrospe studies, duration of pre-operation	6 patients who underwent transverse bone transport (TBT) for the treatment of recalcitrant dysvascular wounds were included in this study. Retrospective data was collected from patients' charts to include pre and post-operative vascular studies, duration of pre-operative wounds, markers of clinical improvement, previous vascular interventions, length of previous interventions, and post-operative complications related to the TBT procedure.					
Results	Primary endpoints included ski	Primary endpoints included skin closure and limb preservation.					
Discussions	osteosynthesis described by Iliz healing and improvement in per further highlights potential use	Tibial bone transport is an innovative method for the treatment of ischemic foot ulcers based on transosseous osteosynthesis described by Ilizarov. Short term outcomes following transverse bone transports demonstrate both wound healing and improvement in peripheral circulation. Wound healing was found to be independent of inline blood flow which further highlights potential use of this procedure in even the most compromised patients. Transverse bone transport appears to be a safe and effective treatment for complex wounds, despite its limited use in the United States.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Disease	es					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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FACFAS, CWSP	anonexupringginaneom	Member of a medical publi board	cation or editorial governing	Editor - Wound Management and Prevention			

Submission ID	05-01046					Ref ID CS-1046
Title	Limb Sal Osteomye	0	Antibiotic Bone Vo	oid Filler to Bo	ne Secondar	y to Chronic
Submit Date	08/29/2023					
Correspondent	Last Name:	Dube				
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	Practice/Com	pany/Residend	cy Program:	Emory Univ	ersity School of	Medicine
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	Author 5:	Neil Upadh	yay, DPM	Author 6:	Joshua Mann	, DPM, FACFAS
	Author 7:			Author 8:		
Purpose	interventions	. Limb salvage		tric care in patients w	ith diabetic foot	rom wound care to surgical infections. Here, we provide a bone void filler.
Methodology						
Procedures	Two individuals with chronic diabetic foot ulcers as well as chronic osteomyelitis were included. One individual had chronic osteomyelitis of the hallux and 1st metatarsal, while the other had chronic osteomyelitis to the tibia with previous intramedullary nail with TaloTibial-Calaenael Fusion performed within the last year. The decision was made to surgically amputate the hallux and treat the metatarsal head with an antibiotic impregnated bone void filler in the forefoot patient. The rearfoot patient had the Intramedullary nail removed and the Tibia was back filled with antibiotic impregnated bone void filler.					
Results	One year follow up with evaluation of both patients' outcome, assessing wound progression, and future possible amputation. To assess an alternative method of treatment of chronic osteomyelitis					n, and future possible
Discussions	Diabetic foot wounds with chronic osteomyclitis have been treated with several treatment modalities, with long term care and IV antibiotics being the most common. These cases often lead to amputations. Limb salvage with the utilization of antibiotic impregnated bone void filler has been indicated as a viable path with promising success rates. This case study will evaluate outcomes such as post operative pain, future amputations, further complications and overall healing and progression.					
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Wound Care/	Infectious Dise	eases			
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
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Submission ID	05-01048			Ref ID CS-1048				
Title	Immediate Weight	Immediate Weight Bearing after AITFL Reconstruction in Ankle Fractures						
Submit Date	08/28/2023							
Correspondent	Last Name: Baum							
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	Practice/Company/Residen	cy Program:	Adventist He	alth White Memorial				
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	Author 5:		Author 6:					
	Author 7:		Author 8:					
Purpose	To report immediate weight old noncompliant patient.	bearing in a trimalleolar-equivale	ent Weber C fra	acture with AITFL repair in an obese, 18 year				
Methodology								
Procedures	tape. Preoperative physiother restored and augmented to p		capable of NW ility to protect					
Results		tong posterior splint without DMI nosis or medial gutter diastasis at		minimal pain . Radiographs revealed no , and at 3 years.				
Discussions	stability. Directly restoring weightbearing in high risk p predictable, and a circular f	The AITFL resists external rotation and posterolateral translation of the fibula and is under-appreciated distal syndesmosis stability. Directly restoring the AITFL in ankle fractures with grossly unstable syndesmosis may allow immediate weightbearing in high risk patients. In our case, postoperative SNF placement and compliance was not felt to be predictable, and a circular frame was not practical given the patient was without health insurance. This case is pivotal in managing ankle fractures in noncompliant patients.						
Format	Case Study							
Case Rpt Followup	36							
Student Club	Not a Student Club Poster							
Classification	Trauma							
Level of Evidence	Level IV							
Authors/Financial D	visclosures							
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Submission ID	05-01049				Ref ID CS-1049		
Title			ing Rates of Foot Ulce dified Gilman's equat		ating metatarsal osteotomies		
Submit Date	08/30/2023						
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	Practice/Com	pany/Residency	y Program:		fexico Veterans Affairs Health Care System & dation Hospital		
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	Author 3:	Rachel Beckı	man, DPM, PGY I	Author 4:	Atish Anit Kumar, OMS II		
	Author 5:	Gabor Szalai,	, MS, PhD	Author 6:	Sarah Mele, DPM		
	Author 7:	Haywan Chiu	u, DPM, FACFAS	Author 8:			
Purpose	difficult to ob the maximum which all clim we attempt to osteotomies (	Wound healing is typically measured by surface area divided by time elapsed between visits, but these variables are difficult to obtain in clinical practice. There are studies by Dr. Gilman that quantify wound healing at a linear rate utilizing the maximum diameter of a wound and divided by time. This is an easier measurement to obtain as it only requires a ruler which all clinics have access to. Linear wound healing rates (LWHR) vary based on patient demographics. In this paper, we attempt to define the LWHR in a small and specific subset of patients who have undergone floating metatarsal head osteotomies (FMHO) for plantar metatarsal head lucerations (PMHU) recalcitrant to conservative wound care. This could serve as a reference used to predict recovery time after FMHO surgeries.					
Methodology							
Procedures	PMHU, treate	ed with FMHO.		newly epithelia	year. Inclusion criteria were subjects with alized skin over ulceration sites. Exclusion		
Results		12 patients with PMHU underwent FMHO with an average LWHR of 0.2 cm/week, standard deviation of 0.14 cm/week and median of 0.15 cm/week.					
Discussions	proximal amp	PMHU make up 22% of all foot ulcers. With higher HbA1Cs, patients with diabetes become infected, septic and need proximal amputations. This case series offers a reference for LWHR after FMHO for PMHU in patients with diabetic neuropathy. This result highlights the ability for FMHO to heal PMHU at a rate of 0.2 cm/week.					
Format	Case Study						
Case Rpt Followup	20						
Student Club	Not a Studen	t Club Poster					
Classification	Diabetic Foo	t					
Level of Evidence	Level IV						
Authors/Financial Di	isclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01053			Ref ID CS-1053			
Title	Ratio of soft tissue to bo ankle arthroplasty	Ratio of soft tissue to bone on lateral radiographs may predict complications in total ankle arthroplasty					
Submit Date	08/31/2023						
Correspondent	Last Name: Humrick Full Name: Hans C Humrick, Practice/Company/Residency Pro	,		umrick@outlook.com ot and Ankle Specialists			
Authors	Author 1:     Hans C Humrick,       Author 3:     Paul Klutts, DPM,       Author 5:     Author 7:	<i>.</i>		nmed, DPM, AACFAS da Denzik, DPM, FACFAS			
Purpose	reliable constructs and better patie	Total ankle arthroplasty (TAA) has gained popularity in recent years in treating end-stage arthritis partly due to more reliable constructs and better patient selection. A case series is presented to evaluate a preoperative radiographic method in assessing risk of complications postoperatively.					
Methodology							
Procedures	8 patients underwent 9 primary TAA in the study. Preoperative weight bearing lateral radiographs were used to measure tibia versus soft tissue width. Patients included 3 diabetics, 4 former smokers, and 2 healthy patients with no past medical history, BMI ranged from 28-42 kg/m <sup>2</sup> .						
Results	Tibial bone versus soft tissue widths were measured on lateral radiographs. Ratios and demographics were compared. Soft tissue width averaged 10.7cm (9.2 - 12.2cm), tibia averaged 4.7cm (3.8 - 5.6cm), ratios ranged from 2.0-2.6. 2/8 patients had delayed healing and superficial infections, one a former smoker with multiple procedures in addition to TAA, the other obese but healthy (ratios 2.5 and 2, p=.67). Other complication ratios (subtalar joint pain, tibial component revision, syndesmosis attenuation) were compared but not significant (p=.28).						
Discussions	risk for healing and complications preoperative lateral radiograph me uncover significant relationships i	The use of TAA for end stage arthritis has inherent risks. Current literature suggests diabetes, PVD, and smoking are higher risk for healing and complications in TAA. Although the current data set has not identified specific correlations between preoperative lateral radiograph measurements and postoperative complications, results suggest a larger data set may uncover significant relationships in regard to both ratio sizes and associated demographics. A multi-year study is currently being performed to assess these possibilities. This data set may be useful in optimizing patient selection and reducing complication risks in TAA.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email: Disc	losure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01054			Ref ID (	CS-1054	
Title	Surgical Management of an Open, Comminuted, Intra-articular Crush Injury to the First Metatarsal Head: A Unique Case Study					
Submit Date	08/30/2023					
Correspondent	Last Name: Grama Full Name: Nikita Grama Practice/Company/Residency	, DPM, AACFAS Program:	Email: Illinois Bone	nikitagrama@gmail.com and Joint Institute		
Authors		, DPM, AACFAS ss, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Amber Kavanagh, DPM, AACFAS		
Purpose				of an open, intra-articular crush inju rted case reports of this in the literatu		
Methodology						
Procedures	after dropping a 50 lb dumbb outside provider. We then per	ell on his foot while working o formed a second procedure con	ut. He underwe nsisting of hema	arsal head with severe intra-articular ti initial wound debridement and clos toma evacuation, open reduction of t with multiple percutaneous k wires f	sure by an he first	
Results	The patient remained non weight bearing and the external fixator was removed 9 weeks postoperatively. Serial radiographs were performed and he went on to complete bony union of the fracture 27 weeks after the reconstructive surgery The patient went on to complete physical therapy and was able to return to full activity. At the most recent follow up, the patient had returned to play baseball with minimal subjective complaints.					
Discussions		irst metatarsophalangeal joint		metatarsal head. Since the patient wa propriate management option. The s		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	Disclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisa	tion(s):	
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Submission ID	05-01057			Ref ID CS-1057				
Title	A Case S	A Case Series: Unconventional Flaps for Challenging Lower Extremity Defects						
Submit Date	08/29/2023							
Correspondent	Last Name: Full Name: Practice/Con	Peter Matthew 1pany/Residency Program:	Email: Cambridge l	maapeter@challiance.org Health Alliance				
Authors	Author 1: Author 3: Author 5: Author 7:	Matthew Andrew Peter Dylan Hemstead	Author 2: Author 4: Author 6: Author 8:	Shane Sato Michael H. Theodoulou				
Purpose	This case series aims to showcase the efficacy and outcomes of three distinct lower extremity flap techniques—reverse sural fasciocutaneous, medial hemisoleus muscle, and peroneus brevis muscle flaps—in addressing complex lower extremity defects that remained refractory to conventional treatments. The study underscores the utility and potential of these innovative flap options.							
Methodology								
Procedures	Detailed surg	ee cases are presented, each involving a uniqu gical procedures for each flap type were perfor ttient. Emphasis is placed on flap viability, wo	med, tailored to	the specific anatomical requirements of the				
Results		s demonstrate successful wound closure and t ollow-up revealed sustained benefits, highlight		n all cases, with improved patient quality of life. ty of these unconventional options.				
Discussions	options, show	delves into the advantages and limitations of t vcasing their unique attributes in managing lov tional flap choices as a last resort in treating ch	wer extremity d	efects. This case series illuminates the potential				
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Student Club Poster							
Classification	Wound Care/Infectious Diseases							
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):				

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Michael H. Theodoulou	mtheodoulou@challiance.org	Consultant/Advisor/Speaker (List all affiliations)	Arthrex, Avitus Orthopedics

Submission ID	05-01058			Ref ID CS-1058	
Title	Arthrodesis to Ma Novel Considerati		y of the Ver	tical Contour Calcanectomy: A	
Submit Date	08/29/2023				
Correspondent	Last Name: Liu				
-	Full Name: Tiffanie L Practice/Company/Reside	,	Email: Medstar Geo	tiffanie.liu@medstar.net rgetown University Hospital	
Authors	•	·	Author 2: Author 4: Author 6:	Craig Verdin, DPM, AACFAS Ali Fadel, DPM	
	Author 7:		Author 8:		
Purpose	Heel ulcerations with bony exposure may require surgical treatment such as partial calcanectomy. At our institution, we perform a vertical contour calcanectomy (VCC) which is a modification to the partial calcanectomy, allowing for soft tissue preservation and primary closure, but the achilles tendon is resected at its insertion. For an ambulatory patient, losing part of the calcaneus and the work of the achilles results in instability of the rearfoot, causing gait abnormalities. To maintain a stable, functional limb, tibiotalocalcaneal (TTC) arthrodesis was performed after VCC. The primary aim of this study is to consider TTC fusion after partial calcanectomy to maintain stability for ambulation. The secondary aim is to compare gait parameters.				
Methodology					
Procedures	54M with calcaneal gait after achilles lengthening. He underwent VCC for calcaneal osteomyelitis secondary to recalcitrant heel wound. The incision healed but instability of ankle/subtalar joints and decreased plantarflexory muscle strength made ambulation difficult. We performed a TTC arthrodesis using plate/screws. Gait evaluated using gait sensors.				
Results	12 months - fusion achieved radiographically and clinically. Patient ambulates unassisted. Gait parameters compared with normative values show decreased cadence/speed but no significant difference in stride length/sway.				
Discussions	5-year mortality rate after lower extremity amputation is increased in non-ambulatory patients. Patients requiring partial calcanectomy may never walk again. For ambulatory patients, this is not a satisfactory outcome. Procedures for stability should be considered. Our patient returned to activity 6 months after TTC and VCC; he continues to ambulate unassisted. Gait evaluation shows decreased walking speed but no difference in other parameters.				
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01059			Ref ID CS-1059
Title	Total Ankle Arthroj Skin Graft: A Case		nce Revisio	n with Fragmented Acellular Fish
Submit Date	08/29/2023			
Correspondent	Last Name: Corley Full Name: Corley, Kris Practice/Company/Residend		Email: Weil Foot &	kristina.corley@weil4feet.com Ankle Institute
Authors	Author 1: Kristina Con Author 3: Author 5: Author 7:	rley, DPM	Author 2: Author 4: Author 6: Author 8:	Jonathan Hook, DPM, MHA, FACFAS
Purpose	Review the use of a fragmented acellular fish skin graft (FAFSG) in its ability to rapidly progress a surgical dehiscence to closure.			
Methodology				
Procedures	operatively. Patient underwo		acement of poly	e ankle arthritis developed wound post- ethylene spacer with Achilles tendon ular fish skin graft.
Results	Full wound closure at 6 weeks without removal of hardware			
Discussions	Acellular fish skin grafts contain omega-3 polyunsaturated fatty acids which enable wounds to transition from chronic into acute stages of healing. The fragmented form of this graft can mold into wound beds which demonstrate efficacy when applied to complex wounds. Patient achieved full wound closure at 6 weeks after debridement with application of fragmented acellular fish skin graft			
Format	Case Study			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Student Club Poster			
Classification	Wound Care/Infectious Dise	eases		
Level of Evidence	Level IV			
Authors/Financial Di	isclosures			
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):
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Submission ID	05-01060				Ref ID CS-1060
Title	Traumati Grafts	ic Open Fi	bular Fracture Tre	eatment with F	ragmented Acellular Fish Skin
Submit Date	08/29/2023				
Correspondent	Last Name:	Corley			
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Authors	Author 1:	Kristina Co	rley, DPM	Author 2:	Jonathan Hook, DPM, MHA, FACFAS
	Author 3:			Author 4:	
	Author 5:			Author 6:	
	Author 7:			Author 8:	
Purpose	Determine th	e use of a frag	mented acellular fish skin	graft in a traumatic o	open fibular fracture.
Methodology					
Procedures	intervention.	A washout wit		n was performed with	n immediate IV antibiotics followed by operative n a combination of 3cc of demineralized bone
Results	Patients was	fully healed w	ithout complications.		
Discussions	promotes three	ee-dimensional	l cellular ingrowth in com	parison to human am	e product itself acts as a bacterial barrier and nion grafts. Wound fish skin graft allow for one and tendon which is beneficial in open
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Studen	t Club Poster			
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial Di	isclosures				
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):
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Submission ID	05-01061			Ref ID CS-1061		
Title	Wound Managem associated Osteom	0 0	Dehiscence	of 1st MPJ Arthrodesis with		
Submit Date	08/29/2023					
Correspondent	Last Name: Corley Full Name: Kristina C Practice/Company/Reside	Corley, DPM ency Program:	Email: Weil Foot &	kristina.corley@weil4feet.com Ankle Institute		
Authors	Author 1: Kristina C Author 3: Author 5: Author 7:	Corley, DPM	Author 2: Author 4: Author 6: Author 8:	Jonathan L. Hook, DPMH MHA		
Purpose	Show an alternative way to manage complications after a first metatarsal phalangeal joint arthrodesis with associated osteomyelitis.					
Methodology						
Procedures	HAART, hepatitis C virus phalangeal joint arthrodes	s, chronic hepatitis B virus, and ar sis and panmetatarsal head resecti BC 7.7, neutrophils 80.3, CRP 19	nd chronic wour on of the left fo	tension, human immunodeficiency virus on dds of left foot who underwent 1st metatarsal ot. Patient presented to the emergency 1c 7.3. Patient had wound dehiscense with		
Results	Following long term IV a	Following long term IV antibiotics and acellular skin graft coverage, wound underwent full closure.				
Discussions	acute stages of healing. T applied to chronic/comple	he fragmented form of this graft of	an mold into w al comorbidities	ch enable wounds to transition from chronic into ound beds which demonstrate efficacy when and exposed hardware Wound fish skin graft cluding bone and tendon.		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster	r				
Classification	Wound Care/Infectious D	iseases				
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01065				Ref ID CS-1065
Title	Case Stud	ly – Diffus	se Large B-Cell Lymp	homa of the	Calcaneus
Submit Date	08/29/2023				
Correspondent	Last Name: Full Name: Practice/Com	-	oc, Huynh, DPM cy Program:	Email: main line he	huynhv@mlhs.org alth
Authors	Author 1: Author 3: Author 5: Author 7:		oc, Huynh, DPM errero, DPM	Author 2: Author 4: Author 6: Author 8:	Ifeoma, Nwaedozie, DPM David, Tachna, DPM
Purpose	This case stud	ly presents dif	ffuse large B-cell lymphoma of	the left calcanet	IS
Methodology					
Procedures	lymphoma. A intervention a scan reveals in opted to be fo improvement PET scan sho	94-year-old n nd a bone bio ncreased signa llowed expect in symptoms. ws increased	nale developed a pathologic fra psy. Based on pathology result al uptake at the left thumb and tantly. He developed heel pain In September 2021, he underv	acture of his left s, he was diagno a parotid gland l in 2021 and rece vent an MRI whi chest wall, right	and is seen in 16-20% of patients with humb in 2019. He underwent surgical sed with diffuse large B-cell lymphoma. A PET ymph node. Due to the pandemic, the patient ived injections into the heel with minimal ch reveals a 4.5x3cm lesion at the calcaneus. A external iliac node, and left calcaneus. No bone tts his history of lymphoma.
Results	scan with dec	Patient subsequently underwent many rounds of chemotherapy and monoclonal therapy. In May 2022, he underwent a PET scan with decreased uptake in his lymph nodes and resolution of the foci in the left calcaneal region. He endorses resolution of pain to the left calcaneus.			
Discussions	rate is 41.9%	Lymphoma of the bone is a clinically uncommon disease with devastating consequences. With an overall 5-year survival rate is 41.9% and progression-free 5-year survival rate is 22%, it is imperative that clinicians identify this condition in a timely manner and provide appropriate workup and referrals.			
Format	Case Study				
Case Rpt Followup	26				
Student Club	Not a Student	Club Poster			
Classification	Soft Tissue/Tu	umor			
Level of Evidence	Level V				
Authors/Financial Di	isclosures				
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Title       Revisional Tibial Osteotomy to Correct Tibiotalocalcaneal Arthrodesis Equinovarus: A Case Study         Submit Date       08/29/2023         Correspondent       Last Name:       Kerns         Full Name:       Makenzie L Kerns, DPM       Email:       kernsmakenzie94@gmail.com         Practice/Company/Residency Program:       Denver Health Podiatric Medicine and Surgery Residency         Authors       Author 1:       Makenzie Kerns       Author 2:       Matthew Gorski, DPM         Author 5:       Author 5:       Author 4:       Morgan Jerabek, DPM         Author 7:       Under Single Company in the second se
Correspondent       Last Name:       Kerns         Full Name:       Makenzie L Kerns, DPM       Email:       kernsmakenzie94@gmail.com         Practice/Company/Residency Program:       Denver Health Podiatric Medicine and Surgery Residency         Authors       Author 1:       Makenzie Kerns       Author 2:       Matthew Gorski, DPM         Author 3:       Kristine Hoffman, DPM, FACFAS       Author 4:       Morgan Jerabek, DPM         Author 7:       Author 7:       Author 8:
Full Name:     Makenzie L Kerns, DPM     Email:     kernsmakenzie94@gmail.com       Practice/Company/Residency Program:     Denver Health Podiatric Medicine and Surgery Residency       Author 1:     Makenzie Kerns     Author 2:     Matthew Gorski, DPM       Author 3:     Kristine Hoffman, DPM, FACFAS     Author 4:     Morgan Jerabek, DPM       Author 5:     Author 6:     Author 7:     Author 8:
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Author 3:Kristine Hoffman, DPM, FACFASAuthor 4:Morgan Jerabek, DPMAuthor 5:Author 6:Author 7:Author 8:
<b>D</b> A well because complication of cubic orthonologic is transfer using the to melalism out. Turically, concernative case is the
Purpose A well known complication of ankle arthrodesis is transfer pain due to malalignment. Typically, conservative care is the initial treatment of choice however surgical intervention may be necessary for long term pain control. In non-union, the original arthrodesis site may be utilized in revision. In well fused patients, an osteotomy must be performed addressing the appropriate planes of deformity. The case presented is one in which a bi-planar correctional osteotomy was performed to address equinovarus deformity.
Methodology
Procedures This is a 56 year old female patient with history of polio disease who underwent multiple surgeries including ankle fusion in Mexico approximately 20 years prior. The patient was intentionally placed in a plantarflexed position to allow for high heel use, though presents with radiographic evidence of equinovarus deformity. She now presents with worsening forefoot pain and feels as though she is "tip-toeing". We performed a tibial osteotomy with 3 screw configuration in tripod configuration.
Results The patient underwent bi-planar tibial osteotomy to correct her deformity with 3 screw fixation. She is now able to ambulate in regular shoe gear with improved pain control. Radiographic evidence of improved alignment.
Discussions It is appropriate to consider a single revisional tibial osteotomy for patients who present with malaligned tibiotalocalcaneal arthrodesis, including those with multiple planar deformities.
Format Case Study
Case Rpt Followup 12
Student Club Not a Student Club Poster
Classification Rearfoot and Ankle Reconstruction
Level of Evidence Level IV
Authors/Financial Disclosures
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Submission ID	05-01071				Ref ID CS-1071
Title	0	Surgical Treatment of Pediatric Subungual Osteochondroma with Complete Excision and Secondary Closure; A 1 Year Follow-Up			
Submit Date	08/30/2023				
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	Author 3:	Steven Hogan,	DPM	Author 4:	Gifferd Ko, DPM
	Author 5:	Neil Upadhyay,	, DPM	Author 6:	Anthony Cutsuries DPM, FACFAS
	Author 7:			Author 8:	
Purpose	phalanx. The Current stand to follow-up	Bone tumors are rare in the foot and ankle with subungual osteochondromas being benign bone tumors of the distal phalanx. These infrequent tumors are prominent within the pediatric population, commonly at the level of the nail bed. Current standard treatment consists of excision with primary closure of the incision site. The purpose of this case study is to follow-up with a pediatric patient over 1 year after excision of a subungual osteochondroma with planned secondary closure of the incision site with the goal of preserving the nail bed and emphasizing nail regrowth.			
Methodology					
Procedures	phalanx. The excision of the	16 year old pediatric male with no significant PMH presents with a subungual osteochondroma to the distal left 2nd phalanx. The tumor violated the nail bed; however, the matrix remained viable. Surgical intervention included complete excision of the tumor with preservation of the nail matrix and secondary closure of incision site to promote nail regrowth. Follow up focused on secondary healing of incision site and course of nail regrowth.			
Results	1 year follow	1 year follow-up with evaluation of the patient outcome and nail regrowth.			
Discussions	pain and dam discussion su violate the na	Subungual osteochondromas are benign bone tumors frequently located to digital distal phalanges. These commonly cause pain and damage the nail bed. Studies suggest that complete excision lead to very low recurrence rates; however, discussion surrounding closure techniques is limited. Primary closure over a nail bed may affect nail regrowth. Tumors that violate the nail bed should be completely excised to preserve the native anatomical architecture of the foot and secondary closure may promote regrowth of the nail.			
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Studen	Not a Student Club Poster			
Classification	Biomechanics and Anatomy				
Level of Evidence	Level IV				
Authors/Financial D	Disclosures				
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Submission ID	05-01076			Ref ID CS-1076		
Title	0	Traumatic Degloving Injury in a Pediatric Patient, the Use of Amniotic Tissue to Help with Healing: A Case Report				
Submit Date	08/29/2023					
Correspondent	Last Name: Korrapati Full Name: Akhil, Kor	rrapati	Email: akhil.korra	pati@hmhn.org		
	Practice/Company/Reside		Jersey Shore University M			
Authors	Author 1: James, P, S	Sullivan, DPM, Residency Directo	or Author 2:			
	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	To present a case report on a 3-year-old male that sustained a traumatic degloving injury with subsequent necrotic, dry gangrenous changes in the right third toe.					
Methodology						
Procedures	presenting to the ED. Rep to the distal toe. To salvag debridement, application	ale who sustained a traumatic deg air at another hospital was attemp e the toe, he underwent an I&D o of amniotic graft in parachute fash nfirming vascularity to the site.	ted. Suture sites became necro f the traumatic subungual hen	otic with dry gangrenous changes natoma, full thickness		
Results	Patient was seen in the office two weeks later with graft incorporating well. At three-month follow-up, traumatic wound site healed with healthy epithelialized skin with no postoperative complications.					
Discussions	Decision was made to rem distal toe. We performed a subcutaneous tissue follow SpyCam showed patent va	diatric degloving injury to the rig nove previous sutures and utilize s an t&D of the traumatic subungua ved by applying amniotic graft in secularity to the toe. On follow-up hnique can be used in pediatric de	SpyCam to assess vascularity I hematoma followed by full- a parachute fashion to the dis b, toe had epithelization with r	showing no blood flow to the thickness debridement down to tal end of the toe. Afterward, to cosmetic abnormalities and		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01077		Ref ID CS-1077			
Title	Osteochondral Defect o Assisted and Open OCI		luation Following Arthroscopic			
Submit Date	08/29/2023					
Correspondent	Last Name: Onyenma Full Name: David C Onyenm Practice/Company/Residency Pro		david.onyenma@rochesterregional.org General Hospital			
Authors	Author 1: David C Onyenm Author 3: Paul A Stasko, DI Author 5: Author 7:	a, DPM Author 2:	Brady M Webb, DPM Peter M Stasko, DPM, AACFAS			
Purpose	and are commonly found in the fe	Osteochondral defect (OCD) describes the morphological changes associated with a localized gap in the articular cartilage and are commonly found in the femoral condyle, humeral head and talus. Medial OCD of the talus commonly occurs due to an inversion and plantarflexion injury. Lateral OCD of the talus commonly occurs due to an inversion and dorsiflexion injury.				
Methodology						
Procedures	standard x-rays revealed lateral or subchondral bone or cartilage. Os 11 cases of arthroscopic assisted (	r medial focal areas of talar dome artic teochondral defect was visually confir	alus are included in this study. Preoperative ular damage with variable involvement of the med intraoperatively. This case series documents converted into an open procedure, with the goal of			
Results	(VAS) scores of 3.8 (n=11) and m	Patients who underwent arthroscopic assisted procedure had a mean preoperative Visual Analog and Numeric Rating (VAS) scores of 3.8 (n=11) and mean one year postoperative VAS score of 0.91 (n=11). Patients whose procedures were converted into an open procedure had mean preoperative VAS scores of 4.7 (n=3) and mean one year postoperative VAS scores of 0.				
Discussions	majority of cohorts were found to	Arthroscopic treatment of OCDs has previously been associated with positive outcomes. Our study confirms this as the majority of cohorts were found to have improved VAS scores post operatively. Patients who were intraoperatively converted to open OCD repair, showed the greatest improvement in symptoms.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Arthroscopy					
Level of Evidence	Level IV					
Authors/Financial l	Disclosures					
Full Name:	Email:	Disclosure(s) selected:	Disclosed Organisation(s):			
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Submission ID	05-01079		Ref ID CS-1079			
Title	Tendon Rupture in the	Allograft Replacement for Tr e Setting of Chronic Tendinos re Selection Criteria and Surg				
Submit Date	08/29/2023					
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Purpose	delay in diagnosis or treatment more so, patients presenting wil concomitant Haglund's deformi there is a paucity in the medical	greater than 6 weeks are considered chror th chronic insertional ruptures with or wit ity or retrocalcaneal exostosis can expone literature of surgical treatment options for patient selection criteria and surgical techn	te its inherent strength. Achilles ruptures with a nic and can be difficult to surgically address. Even hout calcaneal tendon insertion site bone loss and ntially complicate surgical treatment. Currently or chronic insertional Achilles tendon ruptures and nique pearls for Achilles bone-tendon allograft			
Methodology						
Procedures	deformity and avulsion fracture	of the posterior calcaneus. Reconstructiv	chilles tendon rupture with concomitant Haglund's re surgery consisted of distal Achilles tendon hallucis longus transfer and remodeling of the			
Results	lower extremity brace, statistica	At the time of each patient's final 12-month follow-up, they were ambulatory in normal footwear without the need for a lower extremity brace, statistically significant improvement in VAS scores, and were able to return to pre-injury activities. Neither had any postoperative complications and achieved full osseous incorporation radiographically of the bone allograft.				
Discussions	This report will focus on patien postoperative care.	This report will focus on patient selection criteria including expanded indications and surgical pearls, as well as postoperative care.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstruc	tion				
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
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Submission ID	05-01081	05-01081 Ref ID CS-1081				
Title		Managing Post-Fasciotomy Drop Foot Through Bridle Procedure Following Non- raumatic compartment syndrome secondary to deep vein thrombosis				
Submit Date	08/31/2023					
Correspondent	Last Name:	TAKROOR	I			
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	Author 7:			Author 8:		
Purpose	deep vein thr incidence of fasciotomy p a DVT in a h	There have been rare incidents reported in the medical literature of non-traumatic compartment syndrome secondary to deep vein thrombosis. In addition, recent literature showed that the COVID-19 pandemic has been associated with a high incidence of venous thrombosis in hospitalized patients. The treatment of the compartment syndrome is through a fasciotomy procedure in the leg. In this case study, we report a case of a drop foot following a fasciotomy procedure due to a DVT in a hospitalized patient being treated for COVID-19. We utilized the Bridle procedure as a pathway in a integrated approach to restore foot mobility after peroneal nerve injury				
Methodology						
Procedures		One (1) patient with drop due to peroneal nerve injury after a fasciotomy underwent peroneal nerve decompression, Bridle procedure, and aggressive physical therapy and rehabilitation to restore ankle dorsiflexion during the gait cycle.				
Results	Increased act	Increased active foot dorsiflexion. Normal gait without an AFO				
Discussions	involved an i The peroneal Bridle procee	There have been rare cases of drop foot following treatment of deep venous thrombosis through fasciotomy. Our case involved an instance of non-traumatic peroneal nerve damage subsequent to a fasciotomy performed for DVT treatment. The peroneal nerve decompression resulted in a modest to moderate recovery of active dorsiflexion. On the other hand, the Bridle procedure notably enhanced dorsiflexion throughout the patient's gait cycle and restored their gait to a normal state without the use of ankle foot orthosis.				
Format	Case Study	Case Study				
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Neurological	Neurological/Peripheral Nerve Disorders				
Level of Evidence	Level IV	-				
Authors/Financial Di	isclosures					
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Submission ID	05-01083			Ref ID CS-1083		
Title	Long Term Outcomes of Choparts Amputations: A Case Series					
Submit Date	08/29/2023					
Correspondent	Last Name: Bier Full Name: Kelly Practice/Company/Residen	cy Program:	Email: Hennepin He	bier.kelly2@gmail.com salthcare Residency		
Authors	Author 1: Kelly Bier Author 3: Author 5: Author 7:		Author 2: Author 4: Author 6: Author 8:	Kimberly Bobbitt		
Purpose	A Chopart amputation is removal of the mid- and fore-foot leaving only the hindfoot, performed usually for non-healing wounds and infection. There is no current research that reports long-term outcomes, except a few individual case studies. The medium-term outcomes show at an average of 2.8 years follow up, nearly 40% of patients required further amputation and 45% died. This case series aims to provide more insight into long-term outcomes of Choparts amputations including comorbidities, healing time, re-ulcerations rates, and proximal amputation rates.					
Methodology						
Procedures	Patient charts were retrospectively reviewed who underwent a Choparts amputation from January 2007-June 2018 and data recorded included comorbidities, date of amputation, healing time, rates of re-ulceration and proximal amputation, and death.					
Results	11 patients were included, average time to heal was 206 days. All patients were diabetic, 7 had peripheral vascular disease, 4 with end stage renal disease. At final follow up, 1 survived with amputation, 4 died with their amputation (unrelated causes, average 49 months), 6 had more proximal amputations (average 14.8 months).					
Discussions	Choparts amputations are performed as limb preservation procedures to allow for transfers, bracing, and ambulation, particularly in patients with a contralateral limb proximal amputation. However, these amputations have a high rate of re- ulceration, never healing, more proximal amputation, and high rate of morbidity. The high rate of proximal amputation, long healing times, and re-ulcerations rates within this cohort can help provide guidance and information as clinicians discuss this amputation with patients going forward.					
Format	Case Study					
<b>Case Rpt Followup</b>	60					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level IV					
Authors/Financial Disclosures						
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Submission ID	05-01084			Ref ID CS-1084			
Title	Lactobacillus Necrotizing Soft Tissue Infection in the Lower Extremity						
Submit Date	08/29/2023						
Correspondent	Last Name: Yamat Full Name: Bryce Yan	nat, DPM	Email:	yamatbryce@gmail.com			
	Practice/Company/Reside	ncy Program:	University of	f Cincinnati			
Authors		). Liette DPM /amat DPM	Author 2: Author 4: Author 6: Author 8:	Christopher M. Goddard CNP Adena A. Mahadai DPM			
Purpose	To present a rare case of Lactobacillus-induced necrotizing fasciitis, previously unreported in the lower extremity.						
Methodology							
Procedures	A 52-year-old male with uncontrolled type II diabetes mellitus (A1C 16.6 presenting with sepsis and high suspicion of necrotizing soft tissue infection (LRINEC 10) after minor trauma to the extremity.						
Results	Necrotizing soft tissue infection with cultures of heavy growth of Lactobacillus species and Candida Glabrata in dirty cultures. Successful salvage of the foot.						
Discussions	Necrotizing fasciitis/soft tissue infections are rapidly progressive infections characterized by extensive necrosis of fascial and subcutaneous tissues. Traditionally, this severe condition has been predominantly associated with well-established pathogens and only rare case reports of lactobacillus as the pathogen have been identified in severely immunocompromised patients. Diagnosis of opportunistic infections like Lactobacillus can be challenging due to the rarity of this organism as a pathogen. Many Lactobacillu sape, "Any Lactobacillus case reports lack comprehensive identification methods, leading to common conclusion at the genus level "Lactobacillus spp." The management typically involves antimicrobial therapy and, in the present case, sequential debridements. Regardless of causative organism, early identification and wide debridement is critical for successful outcomes.						
Format	Case Study						
Case Rpt Followup	13						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Diseases						
Level of Evidence	Level V						
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Submission ID	05-01085 Ref ID 0			Ref ID CS-1085	
Title		Distraction STJ Arthrodesis with Delta Configuration Fixation to Reduce Compression Across Graft: A Case Series			
Submit Date	08/29/2023				
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Purpose	Subtalar distraction arthrodesis (SDA) has been well documented as an acceptable procedure for deformity correction with rearfoot arthritis. There has been minimal published on different techniques for fixation of SDA and the benefits to the different configurations. There has been adequate literature on the different fixation constructs for a primary subtalar arthrodesis and there is literature to support the "delta" configuration as a biomechanically sound construct for arthrodesis. The purpose of this case series is to show results of taking the biomechanical principles of the "delta" configuration and extrapolating them to usage in SDA.				
Methodology					
Procedures	"delta" configuration. This co	This is a case series of 5 patients who underwent a STJ distraction arthrodesis with allograft bone wedge and fixation in the "delta" configuration. This configuration allowed for a fully threaded positional screw across the graft to minimize compression across the graft and then a compression and anti-rotation screw across the anterior STJ.			
Results	All 5 patients were noted to have union of the arthrodesis sites without any graft incorporation complications or hardware complications.				
Discussions	The literature on SDA focuses on the type of graft used and complications/outcomes but there is minimal on different fixation options. In the most recent systematic review, the most common complication of SDA is hardware prominence requiring removal and nonunions. In this small case series neither of these complications were seen. This case series shows the use of the "delta" configuration as a good construct option for SDA.				
Format	Case Study				
<b>Case Rpt Followup</b>	15				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstr	ruction			
Level of Evidence	Level IV				
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Submission ID	05-01086				Ref ID CS-1086
Title			eonavicular and Taloca Case Report	alcaneal Co	palition Resection with Flatfoot
Submit Date	08/29/2023				
Correspondent	Last Name: Full Name: Practice/Com	Wachuku Chinenye D pany/Residend	Wachuku, DPM cy Program:	Email: Hoboken Un	chichiwachuku@gmail.com iversity Medical Center
Authors	Author 1: Author 3: Author 5: Author 7:	Amanda Bo Vrunda Dala Disha Shah, Jini Philip, I	DPM	Author 2: Author 4: Author 6: Author 8:	Nader Ghobrial, DPM Jason Hymowitz, MS DPM Chinenye Wachuku, DPM MBA MEng Shital Sharma DPM, FACFAS
Purpose	between two deformity wh pes planus de	Tarsal coalitions are rare pedal conditions that contribute to anatomic and biomechanical changes. Controversy exists between two main surgical treatment options, but recent literature encourages correction of the accompanying flatfoot deformity whilst addressing the coalition. This case study presents a patient diagnosed tarsal coalitions accompanied by a pes planus deformity. Included is a detailed surgical technique with 12-month follow up that addresses the coalitions and pes planus deformity simultaneously with favorable clinical and radiographic outcomes.			
Methodology					
Procedures	coalition acco	mpanied by a		coalitions wer	navicular and subtalar joint middle facet e addressed with resection of the rodesis.
Results			v-up, complete osseous consolida e Flexor Hallucis Longus tendon		gical site was noted with pain 6 out of 10 on the
Discussions	often have co physical along report discuss coalition in hi	Tarsal coalition restricts motion in joints between the tarsal bone causing with ambulation and passive motion. Patients often have concomitant conditions including rigidity, arthrosis, and Peroneal muscle spasms. A thorough history and physical along with advanced imaging is necessary to create a surgical plan that parallels the needs of the patient. This case report discusses a 42 year old patient who presents with a mild case of pes planus and exhibited symptoms of a tarsal coalition in his early forties. We believe treatment via a triple arthrodesis will have better overall results, increased function, and reduced pain.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student	Club Poster			
Classification	Rearfoot and	Ankle Recons	truction		
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
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Submission ID	05-01088			Ref ID CS-1088	
Title		n of the Talus and Inc intervention: A Case S		Concomitant Malalignment	
Submit Date	08/29/2023				
Correspondent	Last Name: Breitenbach Full Name: Tori L Breiter Practice/Company/Residency	nbach, DPM, AACFAS / Program:	Email: Certified Foo	tori.breitenbach@outlook.com ot And Ankle Specialists	
Authors	Author 1: Tori L. Breite Author 3: Author 5: Author 7:	enbach, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Ashley L. Bowles, DPM, FACFAS	
Purpose	Osteochondral lesions of the talus (OLT) are a common pathology with many surgical treatment options. Recurrence of OLTs are typically due to malalignment typically in the rearfoot. This is malalignment typically due to flatfoot deformity especially with medial talar lesions. There is minimal literature published on the incidence and effects of malalignment on OLT surgical correction and minimal literature on the outcomes with concomitant correction of malalignment at time of OLT repair. Therefore the purpose of this series is to show outcomes when realignment occurs at the time of OLT repair.				
Methodology					
Procedures		ients that all underwent OLT re and improve overall outcomes		omitant procedures to address malalignment to	
Results	the treatment of the OLT the	Patients underwent concomitant procedures ranging from gastrocnemius recession to complete flatfoot reconstruction. For the treatment of the OLT the procedures ranged from microfracture, microfracture with biocartilage, and OATS procedure. Of these patients at a year follow-up there was no recurrence and reported improvement in pain and return to activity.			
Discussions	Malalignment has been show initial OLT repair evaluation	Reviewing this case series helps demonstrate the incidence of concomitant deformities seen with osteochondral lesions. Malalignment has been shown to be the most common cause of recurrence or failure of OLT repairs. Therefore, in the initial OLT repair evaluation of deforming forces on the lesion should occur and plan to correct the deforming cause at time of OLT repair. This case series shows good outcomes following OLT repair with addressing concomitant deformities.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstr	uction			
Level of Evidence	Level IV				
Authors/Financial D	visclosures				
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Submission ID	05-01090			Ref ID CS-1090	
Title	Testosterone Suppl	Testosterone Supplementation to Potentiate Healing in the Diabetic Foot: A Case Study			
Submit Date	08/29/2023				
Correspondent	Last Name: Breitenbach Full Name: Tori L Breit Practice/Company/Residen	tenbach, DPM, AACFAS	Email: Certified Fo	tori.breitenbach@outlook.com ot and Ankle Specialists	
Authors		itenbach, DPM, AACFAS Bowles, DPM, FACFAS, CWSP	Author 2: Author 4: Author 6: Author 8:	Laura B. Adler, DPM, AACFAS	
Purpose	Testosterone levels and wound healing have been shown to have a correlation in recent animal studies due to it being an anabolic steroid. Studies have shown that men with diabetes have lower serum testosterone and supplementation aids in reversal of aspects of metabolic syndrome. The purpose of this case study is to present two patients with Charcot and associated diabetic foot ulcers found to have low testosterone who after supplementation healed their chronic wounds and reconstructions.				
Methodology					
Procedures	Two diabetic males with multiple comorbidities, were suffering from chronic, non-healing lower extremity wounds. Patients received local wound care with no resolution. Testosterone levels were checked and found to be low. Both patients received supplementation of testosterone to reach normal testosterone levels with the help of their endocrinologist. Testosterone levels were re-evaluated every 3 months for maintenance.				
Results	After testosterone supplementation, there was noted improvement in wound size and appearance. Both patients were able to heal their chronic lower extremity wounds and noted improvement in bony union of Charcot reconstructions.				
Discussions	Wound healing is a complex process that requires multiple factors and phases to achieve 100% healing. Testosterone may improve wound healing through a variety of physiologic pathways as decreased levels can impede healing. 30-50% of men with diabetes have been recognized as testosterone deficient. Testosterone is an anabolic hormone and has been shown to have positive effects on vascular function, wound healing, inflammation through improved protein synthesis. This case study demonstrates the use of obtaining testosterone levels in the diabetic foot patient to optimize healing potential.				
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Diabetic Foot				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-01094 Ref ID CS			Ref ID CS-1094	
Title		An analysis of long-term post-operative outcomes following flexor to extensor tendon transfer for curly toe deformity in a pediatric population			
Submit Date	08/29/2023				
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	Author 5:			Author 6:	
	Author 7:			Author 8:	
Purpose	rotation, and u for moderate t correction for	Curly-toe deformity is a common congenital condition seen within the pediatric population characterized by flexion, varus rotation, and underlapping of the lesser toes due to deforming forces of the flexor tendons. Surgical treatment is considered for moderate to severe deformities following the age of six. Currently, there is not a large volume of literature on surgical correction for this condition and therefore the purpose of our research was to evaluate the long-term outcomes of this procedure on a pediatric population.			
Methodology					
Procedures	for curly toe d months of foll	This was a retrospective investigation of pediatric patients who had undergone elective flexor to extensor tendon transfers for curly toe deformities by a single surgeon at a single facility that were identified a 15-year period with a minimum of 4 months of follow-up. Baseline demographics and clinical findings were examined as well as postoperative objective findings and complications.			
Results	least four mor	There were 35 patients total identified. A significant majority of patients were pain-free through course of follow-up of at least four months. There was one patient who underwent wound dehiscence, two patients requiring additional corrective procedures, six patients with concern of post-operative stiffness.			
Discussions	the pediatric p	Our study demonstrates favorable results in the correction of curly toe deformity via flexor to extensor tendon transfer in the pediatric population with good long-term outcomes and minimal complications. Flexor to extensor tendon transfer should be considered a good surgical option for correction of the moderate to severe forms of this congenital deformity.			
Format	Case Study				
<b>Case Rpt Followup</b>	54				
Student Club	Not a Student	Club Poster			
Classification	Forefoot Reco	onstruction			
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-01095			Ref ID CS-1095	
Title		Saddle Pulmonary Embolism and Deep Vein Thrombosis Following Foot and Ankle Surgery While On Prophylactic Lovenox, A Case Report			
Submit Date	08/29/2023				
Correspondent	Last Name: Judickas				
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	Practice/Company/Residency	y Program:	OhioHealth	Grant Medical Center	
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	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	Venothromboembolic (VTE) events are considered rare in foot and ankle surgery. The purpose of this case report is to highlight the importance of VTE prophylaxis postoperatively in certain patient populations, specifically those on hormone modulating medications. Additionally, this report emphasizes the importance of promptly working up a VTE, even if the patient is currently on prophylactic anticoagulation.				
Methodology					
Procedures	A 40-year-old male on testosterone replacement therapy underwent open reduction internal fixation (ORIF) of Lisfranc ligament disruption. He subsequently developed an acute deep vein thrombosis (DVT) and pulmonary embolism (PE) one month postoperatively despite having early ROM at 1 week postoperatively, lack of DVT symptoms, antiembolic stockings, and still on prophylactic Lovenox. Duplex venous ultrasound revealed multiple venous thrombit the left lower extremity. CT imaging revealed large saddle PE. Emergent thrombectomy was performed. Clinical photographs demonstrate large gross saddle pulmonary thrombus specimen.				
Results	Patient remains full weight b	earing with no recurrence of	DVT or PE.		
Discussions	Patients undergoing foot and ankle surgery are at lower risk for development of VTE. However, patients should be screened for independent risk factors, such as the use of hormone replacement therapy, when determining appropriate VTE prophylaxis. Clinicians should have a low threshold to work up patients if there is suspicion for VTE. Chemical prophylaxis does not preclude VTE, as it is physiologically possible to develop VTE while on concurrent anticoagulation.				
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstr	uction			
Level of Evidence	Level IV				
Authors/Financial D	oisclosures				
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Submission ID	05-01096			Ref ID CS-1096	
Title		pplication of graft leadi		treated surgically with tendon eral pain secondary to graft size	
Submit Date	08/29/2023				
Correspondent	Last Name: Srinivas Full Name: Sindhu Practice/Company/Resid	ency Program:	Email: Atlanta VA M	sind.srinivas@gmail.com Aedical Center	
Authors		rinivas, DPM, MS 9, Wessinger, DPM	Author 2: Author 4: Author 6: Author 8:	Kristin ,Rizzo, DPM. FACFAS	
Purpose	Achilles ruptures remain controversial regarding treatment modalities. This report details a unique presentation of postoperative pain following bilateral Achilles tears receiving debridement, lengthening and graft application. A smaller graft was placed in segmental fashion to the right Achilles tendon which may have prompted continual postoperative discomfort. Current literature does not cite incidence of increased pain following dissimilar graft size and application technique.				
Methodology					
Procedures	A 64 year old male patient presented with worsening discomfort to the bilateral posterior ankles. Following confirmation on advanced imaging, the patient opted for debridement, repair, lengthening and application of graft to the Achilles tendon with the left to be performed first.				
Results	Magnetic resonance imaging (MRI) revealed a partial tear to the left Achilles approximately 5 cm from the insertion. The right Achilles tendon incurred a partial tear 4 cm from its insertion. Bilateral intraoperative examination yielded bulging with no appreciable tears. Bilateral tendons were lengthened utilizing the Hoke procedure. To the left, 6x6 cm graft was placed to enhance gliding and mitigate adhesions. To the right, a 1.6 cm disc of graft was placed in segments. The patient continues to have discomfort to the right Achilles postoperatively and cannot tolerate transition to regular shoe gear.				
Discussions	segmental placement to t	In the current report, the patient received similar bilateral intervention and post-operative course despite graft size and segmental placement to the right Achilles tendon. Use of smaller graft applied in a segmental fashion may have perpetuated new adhesions and tendon fibrosis. The patient may require physical therapy or repeat debridement to assuage this continual discomfort.			
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poste	er			
Classification	Rearfoot and Ankle Reco	onstruction			
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-01097			Ref ID CS-1097	
Title	Surgical Treatmen Deformity	t and Navigation of C	omplications with	Progressive Collapsing Foot	
Submit Date	08/29/2023				
Correspondent	Last Name: Isac				
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	Practice/Company/Resider	ncy Program:	Ascension St. Mary		
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	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose		ative outcomes of a double art de the advantages and disadva		e arthrodesis in PCFD.	
Methodology					
Procedures	largest contribution. As the describe a 64 year old fem limited ROM at the subtale talonavicular and calcaneo correction, she developed	e foot becomes more rigid, the ale with PCFD with arthropatl ar joint (STJ). Radiographs sho cuboid joint arthrodesis was p	main treatment to date is by of the midfoot and hind owed diffuse arthropathy over formed with success. Ap	th the posterior tibial tendon offering the arthrodesis. In this case report, we lfoot. Clinically, the patient has pain with of the transverse tarsal joints. Initially, oproximately eight months post-surgical int. Subsequent MRI revealed STJ	
Results		Patient developed STJ arthritis and OCD lesion following initial double midfoot arthrodesis, warranting a triple arthrodesis and OCD repair. Patient remains pain free with no hardware complications at one year follow-up.			
Discussions	Arthrodesis is the only effective treatment for PCFD once the deformity has become rigid. This case study presents the effects of double vs. triple arthrodesis. In a study by Harper and Tisdal, only 30% of the STJ motion was retained following a simulated double arthrodesis. This deformity is a challenging condition that requires thorough surgical planning and preparation for potential complications that may arise.				
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Recon	struction			
Level of Evidence	Level IV				
Authors/Financial I	Disclosures				
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Michael Maghrabi, DPM,

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Submission ID	05-01099			Ref ID CS-1099	
Title	Use of Gait Training and Planovalgus Surgery	l Computerized Ga	ait Analysis	s in Reconstructive Pes	
Submit Date	08/29/2023				
Correspondent	Last Name: Kimmel Full Name: Megan F Kimmel Practice/Company/Residency Prog		Email: UPMC Harris	kimmelm4@upmc.edu sburg Podiatry Residency	
Authors	Author 1:Megan F Kimmel,Author 3:Keri Tkatch, DPTAuthor 5:Author 7:	DPM	Author 2: Author 4: Author 6: Author 8:	Sushila L Kabadi, DPM Daniel Yarmel, DPM, FACFAS	
Purpose	are managed conservatively or sur tools to accompany reconstructive	Pes planovalgus deformities with associated apropulsive gait patterns are often encountered in the pediatric population and are managed conservatively or surgically. We hypothesized that computerized gait analysis and gait training are useful tools to accompany reconstructive flat foot surgery. They can assist patients in developing a functional gait pattern as well as educate them on post operative outcomes.			
Methodology					
Procedures	deformity. The patient underwent a gait training, computerized gait an	This case study follows a healthy 13-year-old male who was first evaluated in 2015 due to a painful right flatfoot deformity. The patient underwent a flatfoot reconstruction in 2021. Post-operatively he underwent physical therapy, with gait training, computerized gait analysis and pressure mapping. Limited research has been published on this topic, but computerized gait analysis is able to provide objective data when evaluating pes planovalgus foot types.			
Results		Post-operatively and following gait training with physical therapy, a heel to toe gait pattern was noted, as well as an improved symmetrical distribution of forces. Gait analysis was able to quantify the functional impact of the reconstructive surgery for the patient.			
Discussions	flatfeet, their role in patient educat gait training, computerized gait an surgical intervention. It provides th	While some studies have shown the use of gait training and computerized gait analysis as objective metrics in evaluation of flatfeet, their role in patient education and post operative outcomes is not well documented. This case demonstrates how gait training, computerized gait analysis, and comanagement with physical therapy can be used as adjunctive tools to surgical intervention. It provides the surgeon with quantitative measurements, aids in post operative recovery, and is a tool to educate patients on their post operative progression and outcomes.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstruction	n			
Level of Evidence	Level IV				
Authors/Financial					
Full Name:	Email:	Disclosure(s) selected:	alaaa	Disclosed Organisation(s):	
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Submission ID	05-01100			Ref ID CS-1100	
Title	A Rare Case of an	A Rare Case of an Angioleiomyoma in a 50-Year-Old Male			
Submit Date	08/30/2023				
Correspondent	Last Name: Kimmel				
•	Full Name: Megan F K	Cimmel DPM	Email:	kimmelm4@upmc.edu	
	Practice/Company/Residen	ncy Program:	UPMC Harri	sburg Podiatry Residency	
Authors	Author 1: Megan F K	Limmel, DPM	Author 2:	Allan Grossman, DPM, FACFAS	
	Author 3:		Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose				nly found in the lower extremities of middle- vessels, and are typically slow growing.	
Methodology					
Procedures	right ankle, that had been p increased pressure to the at x 4.4 x 3.5 cm heterogeneo mass was surgically excise	This case study follows a 50-year-old male with a painful, hard, encapsulated, soft tissue mass to the medial aspect of the right ankle, that had been present around 10 years. Due to the size of the mass, it caused irritation in shoes, as well as increased pressure to the area. Previous aspiration of the mass was unsuccessful. On MRI it was noted that there was a $5.4 \times 4.4 \times 3.5$ cm heterogeneous enhancing mass along the medial ankle without destruction of the underlying structures. The mass was ungically excised. Limited research has been published on these tumors, however it is noted that it is rare for it to occur in this patient population.			
Results		The mass was surgically resected and pathologic analysis confirmed the mass was an angioleiomyoma. Post-operatively the patient did not develop any paresthesia, hematoma, or loss of function.			
Discussions	in women, and account for	In current literature, the presence of an angioleiomyoma on the ankle of a middle-aged male is rare. They are mostly found in women, and account for approximately 0.2% of benign soft tissue tumors in the feet. This patient underwent surgical resection, and tolerated the procedure well.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Soft Tissue/Tumor				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01103				Ref ID CS-1103
Title	Treatment of Calcar	Treatment of Calcaneal Osteomyelitis via Silo Technique: A Case Series			
Submit Date	08/30/2023				
Correspondent	Last Name: Warciak Full Name: David Warcia Practice/Company/Residency	,	Email: Ascension S	sjhdavid.warciak aint Joseph Chicago	
Authors	Author 1:David WarciaAuthor 3:Ersta FerryarAuthor 5:Author 7:	·	Author 2: Author 4: Author 6: Author 8:	Remmy Owor, E Alexander Mcka	DPM inna, DPM, APWH
Purpose		ng intraosseous antibiotic deliv nyelitis while allowing for redu			
Methodology					
Procedures	We retrospectively evaluated 2020 - August 1, 2022. We re follow up times. 5 patients u All patients had heel ulcerati	nectomy with antibiotic cement l charts of all patients that under ecorded antibiotic used, success nderwent 6 partial calcanectom ons which were recalcitrant to o d via radiographic evaluation an	went calcanect with primary of ies with Silo te conservative m	tomies with Silo Te closure, comorbiditi chnique for treatme anagement with uno	chnique between January 1, ies, complications, and int of calcaneal osteomyelitis.
Results	routine wound care for event	All 5 patients, and 6 heel ulcers, healed successfully. 5 out of 6 wounds were successfully primarily closed, 1 required routine wound care for eventual closure. 1 wound recurrence was noted 15 months status post index procedure due to pathologic fracture eventually leading to a proximal amputation. There were no other complications noted at final follow-up time.			
Discussions	Calcaneal osteomyelitis is a highly morbid condition with limb loss risk. Balancing good functional outcomes and effective infection control is challenging. The silo technique is an effective method of local antibiotic delivery that may reduce the risk of amputation. Through intraosseous delivery, the antibiotic penetrates and is able to locally diffuse for at least 30 days.				
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Diabetic Foot				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-01104			Ref ID CS-1104	
Title	Minimal invasive fo valgus deformity af		ollowing re	current pediatric hallux abducto	
Submit Date	08/31/2023				
Correspondent	Last Name: Cerda Full Name: Tiffany E. C Practice/Company/Residen	Cerda DPM, MS cy Program:	Email: HCA Florida	Tiffanycerda93@gmail.com Mercy Hospital and Barry University	
Authors	Author 1: Tiffany Cer Author 3: Author 5: Author 7:	da DPM, MS	Author 2: Author 4: Author 6: Author 8:	Luis Rodriguez Anaya, DPM	
Purpose	To inform physicians on the effects of recurrent pediatric hallux abducto valgus deformity. Hallux valgus is a common condition and has been reported to affect up to 36% of the pediatric population. Pediatric bunion deformity may recurr at a rate as high as 91%. Utilizing Minimally incisional surgery techniques patients are able to return to activity at a faster rate.				
Methodology					
Procedures	This case represents a 15 year old athletic female who presented to clinic with serve hallux abducto valgus deformity. Initial presentation demonstrated pain on palpation to medial bump, hypermobility of first ray and intermetatarsal angle greater then 20 degrees. After careful consideration of patients radiographic findings it was agreed that a Lapidus procedure would address the triplanar serve deformity which healed initially with out incident. Within six months the bunion deformity recurred. After reoccurrence of the deformity, MIS surgery to address the distal metatarsal and hallux was decide adjunct to first metatarsal cuneiform arthrodesis.				
Results	full weight-bearing capabili	This minimally invasive protocol improved the patient's condition substantially. MIS allowed the patient to rapidly regain full weight-bearing capability and achieved appropriate range of motion and muscle strength. Ultimately, the patient attained functional recovery with a painless satisfactory gait.			
Discussions	Pediatric deformity correction can prove to be difficult, having a multifactorial approach to deformity correction insures that the patient will have the best outcome. This patient bunion deformity did not maintain correction with powerful first metatarsal cuneiform arthrodesis but instead required adjunct of first metatarsal distal osteotomy and proximal phalanx osteotomy.				
Format	Case Study				
<b>Case Rpt Followup</b>	16				
Student Club	Not a Student Club Poster				
Classification	Forefoot Reconstruction				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01105				Ref ID CS-1105		
Title	Novel App	oach to	Talar En Bloc R	econstruction; Is	There a Size Limit?		
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Compa	Vyas Riya ny/Residen	cy Program:	Email: Mercy St. V	riya.vyas15@gmail.com /incent Medical Center		
Authors	Author 1: Author 3: Author 5: Author 7:	Riya Vyas, Jian Zeng, I		Author 2: Author 4: Author 6: Author 8:	Junaid Khazi, DPM Kyle McKray Smith, DPM		
Purpose	Talar en bloc reconstruction is a reliable option for severe osteochondral defects, but is often limited by size restrictions. In our study we used a large allograft to cover a talar OCD about ½ of the size of talus in a young patient.						
Methodology							
Procedures	Traditional talar en bloc involves harvesting a matching-sized talus from a cadaveric donor to replace the damaged talus. Usually, talar allograft transplant is done on smaller lesions, due to technical challenges and increased complications in larger grafts. This study discusses the option for allograft en bloc reconstruction involving the entire medial talar shoulder with complex nantomic contouring. Patient is a 47 year old male who underwent multiple ankle surgeries from outside surgeons. MRI of the ankle showed severe arthritis and large OCD involving nearly the entire medial talus. The donor allograft was mapped to match the recipient size and anatomy and fixated with hardware.						
Results		Anatomic alignment of tibiotalar joint restored, allograft was incorporated well into talus with resolution of pain and return to normal activity.					
Discussions	In patients with post-traumatic arthritis and OCDs of the ankle, often treatment is arthrodesis of the joint, resulting in stiffness and lack of motion. A larger lesion however can be treated with allograft en bloc reconstruction and is a viable limb salvage option, especially in younger patients. The use of large allograft provided us a solution for a significant osteochondral defect, surpassing the size limitations of en blocs and showcasing the potential of this technique in addressing severe talar injuries.						
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student C	lub Poster					
Classification	Rearfoot and A	nkle Recons	struction				
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01109				Ref ID CS-1109		
Title		Case Report from the lure for Second Metata					
Submit Date	08/30/2023						
Correspondent	Last Name: Gunter Full Name: Tobee, P, G Practice/Company/Residen		Email: Intermountair	tobee.gunter@ 1 Health	@gmail.com		
Authors	Author 1:Tobee GuntAuthor 3:Author 5:Author 7:	er, DPM PGY-2	Author 2: Author 4: Author 6: Author 8:	Ryan Rigby, l	DPM FACFAS		
Purpose	The osteochondral autologous transplantation (OATs) surgery is gaining popularity for the treatment of Stage III-IV Freiberg's disease. The aim of this study is to detail the one-year efficacy of the OATs treatment for Stage III & IV Freiberg's disease with graft harvested from ipsilateral non-articulating talus. This case study is unique as it is authored by the patient who is a current podiatric medical resident.						
Methodology							
Procedures	Freiberg's infraction. Stagir performed by a fellowship- assistance of a splint, CAM	Author's personal account 1.5 years s/p OATs procedure augmented by bone marrow aspirate concentrate for painful Freiberg's infraction. Staging of 2nd metatarsal head demonstrated by many imaging modalities. Surgical intervention performed by a fellowship-trained Doctor of Podiatric Medicine. Graft incorporation verified by serial radiographs. The assistance of a splint, CAM boot offloading, bone stimulation, plantarflexory night splint, and carbon fiber plate footwear was used in the postoperative period. Beyond 6 months patient was running up to 7 miles a day.					
Results		Successful procedure and bony consolidation. Nearly complete improvement in VAS pain and FAOS scores at the 16- month mark with the patient able to return to normal activities.					
Discussions	integrity. The patient had a function scores, adequate m minimal donor site pain. W	The OATs procedure utilizing autologous talar graft can be a reliable procedure for maintenance of lifestyle and joint integrity. The patient had a favorable outcome 16 months post-operatively with graft incorporation, improved pain and function scores, adequate motion, and restoration of 2nd metatarsal joint space. Minor complications of stiffness and minimal donor site pain. While larger long-term studies are recommended, clinicians should consider more joint-preserving treatment in smaller degenerative joints.					
Format	Case Study						
<b>Case Rpt Followup</b>	16						
Student Club	Not a Student Club Poster						
Classification	Forefoot Reconstruction						
Level of Evidence	Level V						
<b>Authors/Financial D</b>	isclosures						
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Submission ID	05-01112			Ref ID CS-1112		
Title	Poorly- Differentia an Atypical Presen		Cell Carci	noma in the Foot: A Case Study of		
Submit Date	08/30/2023					
Correspondent	Last Name: Patel Full Name: Roshni B Practice/Company/Resider	ncy Program:	Email: HCA Florida	patelroshni95@gmail.com Westside Hospital		
Authors	Author 1: Roshni B. 1 Author 3: Author 5: Author 7:	Patel, DPM	Author 2: Author 4: Author 6: Author 8:	Omar Rashid, MD, JD, FACS, FSSO, DABS		
Purpose	Osteomyelitis, infections, chronic wounds, and cellulitis are at the forefront of what podiatrists see and treat. The purpose of this report is to identify the risk factors and presentations of squamous cell carcinoma (SCC) that can easily be masked under chronic wounds or a sequela of trauma or infection. The goal is to establish the high index of suspicion of malignancy physicians should carry when dealing with chronic, non healing wounds.					
Methodology						
Procedures	damage and PMH of skin of tasks. The patient underwe	cancer. Onset of the wound was p ent radical resection of SCC of the	progressive with e right dorsal se	Right second toe with history of extensive skin associated pain when ambulating and daily cond toe with ovine rumen tissue mesh g from the ipsilateral thigh took place.		
Results	Fully healed, functional se	cond toe following invasive poor	ly differentiated	d squamous cell carcinoma with no metastasis.		
Discussions	chronic wounds, burn scars carcinoma; however, if left nodes, distant tissues and c	s, and following radionecrosis. So t untreated, these poorly different organs and can result in mortality.	everal treatmen iated tumors ha . As this case re	ry to sun exposure and in previous areas of t options exist to eradicate squamous cell we a 3-9% rate of metastasis to local lymph port demonstrates, a high index of suspicion and ase patient safety and reduce mortality.		
Format	Case Study					
Case Rpt Followup	14					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-01117			Ref ID CS-1117			
Title	Revisional Tibiotal the Subtalar Joint	Revisional Tibiotalocalcaneal Arthrodesis with Cage Following Atrophic Nonunion of the Subtalar Joint					
Submit Date	08/30/2023						
Correspondent	Last Name: Nolan Full Name: Kimberly N Practice/Company/Residen	Iolan, DPM Emai	il: knolan11@ke hwest Illinois Foot and A				
Authors	× •	iolan, DPM Auth Auth Auth	nor 2: Doug Pacacci nor 4: nor 6: nor 8:				
Purpose	The purpose of the case study is to evaluate the effectiveness of tibiotalocalcaneal arthrodesis with bone cage due to a painful nonunion of the subtalar joint with a critical size defect.						
Methodology							
Procedures	A patient with atrophic nonunion of the subtalar joint following a TTC arthrodesis with an intramedullary nail underwent a revisional TTC arthrodesis with bone cage. This was a staged procedure which initially included debridement of affected bone with application of external fixator and a supramalleolar osteotomy to correct the residual deformity. Followed by removal of the external fixator 3 months later. The final procedure consisted of a bone cage and STJ arthrodesis with a nail.						
Results	A functional limb with min	A functional limb with minimal limb length discrepancy that went onto a union of the subtalar joint.					
Discussions	a deformity such as femora structure resisting collapse	There are limited studies looking at the efficacy of using a cage with TTC arthrodesis vs other methods to regain length in a deformity such as femoral head allograft. Ramhamadany 2021 suggests "The implant provides a strong mechanical structure resisting collapse and subsidence during the arthrodesis process". Historically femoral head allograft has been used to regain the length, but there is concern about reabsorption and subsidence over time with the graft.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Recons	struction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01118					Ref ID CS-1118
Title			le Articulating 3rd Met ing Following Avascula			
Submit Date	08/30/2023					
Correspondent	Last Name:	Brandt				
	Full Name:	Mary R. Bra	andt, DPM	Email:	Mary.Brandt	@ahn.org
	Practice/Com	npany/Residend	cy Program:	The Western Ankle Surge	•	Iospital, Division of Foot and
Authors	Author 1:	Mary R. Bra	andt, DPM	Author 2:	Scott D. Sch	leunes, DPM
	Author 3:	Ryan L. Mc	Millen, DPM, FACFAS	Author 4:		
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	can often be	sparse. This ca	ortening on forefoot loading has se report documents the success rtening in the setting of avascula	ful use of a cus		ne available treatment options metatarsal head implant for the
Methodology						
Procedures	A 39-year-old male presented with chronic left foot metatarsalgia pain. The patient underwent multiple neuroma resections in his early twenties. This was eventually complicated by third metatarsal head avascular necrosis. He subsequently underwent a third metatarsophalangeal joint arthroplasty followed by metatarsal head resections by outside providers. He developed pain sub first and fifth metatarsal heads with severe shortening of the third ray. The patient presented to us for another opinion and we developed a custom implant. We performed an excision of the remaining avascular bone with implantation of a custom articulating metatarsal head associated tendon lengthening.					
Results	acute fracture	e dislocation. A	ntinued restoration of metatarsal At the latest follow-up the patien ell as restored length to his third	t reports no fur		
Discussions	the metatarsa	l parabola. Cu		rom adjacent n	netatarsal shorter	g and concomitant disruption of ning to callus distraction. To our arsal length.
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Forefoot Rec	onstruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):
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Submission ID	05-01119				Ref ID CS-1119		
Title	Hexapod External	Hexapod External Fixator for Correction of Midfoot Charcot Arthropathy					
Submit Date	08/30/2023						
Correspondent	Last Name: Nolan Full Name: Kimberly I Practice/Company/Resider	Nolan, DPM ncy Program:	Email: Northwest Ill	knolan11@ke inois Foot and A	ent.edu Ankle Fellowship		
Authors	Author 1: Kimberly 1 Author 3: Author 5: Author 7:	Nolan, DPM	Author 2: Author 4: Author 6: Author 8:	Douglas Paca	ccio, DPM, FACFAS		
Purpose	ulcerations. Achieving ade This case series documents	A severe deformity of the midfoot in patient's with Charcot arthropathy can lead to debilitating dysfunction and chronic ulcerations. Achieving adequate reduction in this deformity can be challenging especially when factoring in comorbidities. This case series documents serveral cases of a midfoot Charcot undergoing a hexapod external fixator to obtain correction while evaluating the pre and postoperative angles.					
Methodology							
Procedures		Patient's underwent a hexapod external fixator for midfoot Charcot arthropathy for deformity correction. Preoperative standard x-rays revealed significant deformity with Meary's angle, calcaneal inclination angle, and the hindfoot abduction angle.					
Results		Patient's underwent a hexapod external fixator for correction of midfoot Charcot. There was significant improvement in the deformity following the removal of the external fixator, with most values within normal range following the procedure.					
Discussions	complications. Achieving a angle, calcaneal inclination	Charcot arthropathy can be a debilitating deformity that can lead to functional difficulties along with limb threating complications. Achieving and maintaining adequate reduction can prove difficult. In our case series, we compare Meary's angle, calcaneal inclination angle, and the hindfoot abduction angle before and after the hexapod external fixator. We found that most angles were within normal range following the procedure and up to at least one year following the final more dure.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):		
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		Member of a medical publication	on or editorial	governing board	I IPMA Board of Directors		

Submission ID	05-01120 Ref ID CS-1120							
Title	A Novel (	A Novel Case Study of an Eccrine Porocarcinoma of the Toe						
Submit Date	08/30/2023							
Correspondent	Last Name: Full Name: Practice/Con	Mahadai Adena Mahadai, DPM ıpany/Residency Program:	Email: University o	adena9170@yahoo.com f Cincinnati Medical Center				
Authors	Author 1: Author 3: Author 5: Author 7:	Adena Mahadai, DPM Sameer Patel, MD Michael Liette, DPM	Author 2: Author 4: Author 6: Author 8:	Bryce Yamat, DPM Suhail Masadeh, DPM FACFAS				
Purpose	To identify and bring recognition to a rare malignant soft tissue tumor that to our knowledge has never been reported as a primary, isolated tumor within soft tissues of the toe.							
Methodology								
Procedures	Fifty-seven-year-old female undergoing soft tissue mass removal after appropriate laboratory workup, radiographs, and biopsy.							
Results	Primary eccr	Primary eccrine porocarcinoma of the foot/ankle without evidence of metastases. No recurrence at this time.						
Discussions	neoplasms. V elderly patien pathologies, papule, plaqu analysis. Wic	When present they are aggressive tumors nts (> 60) on the head and neck or lower leading to misdiagnosis. They often press te, or nodule that is slow growing and ma	which are often high extremity. In the foot ent as a solitary firm, ay ulcerate. Diagnosi atment. There is appr	It represents 0.005% of cutaneous epithelial ly invasive. The tumor most often found in the lesion can often mimic other common erythematous, violaceous, or skin colored s is often made using histologic and dermoscopic oximately a 20% chance of recurrence, 20%				
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Studen	t Club Poster						
Classification	Soft Tissue/T	`umor						
Level of Evidence	Level V							
Authors/Financial Di	isclosures							
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):				

Full Name:	Email:	Disclosure(s) selected:	Disclosed Organisation(s):
Adena Mahadai, DPM	mahadaaa@ucmail.uc.edu	I/We have nothing to disclose	
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Michael Liette, DPM	lietteml@ucmail.uc.edu	I/We have nothing to disclose	

Title       Direct Delotid Repair Versus Syndesmotic Repair Outcomes in Ankle Fractures With Delotid Instability         Submit Date       08/30/2023         Correspondent       Last Name: Bruo         Handmann       Enail: richbruno@gmail.com         Practice/Company/Residency Program:       Eastern Virginia Medical School         Author S:       Author 4:         Author S:       Author 4:         Author S:       Author 4:         Author S:       Author 5:         Author S:       Author 6:         Author S:       Author 7:         Author S:       Author 6:         Author S:       Author 7:         Author S:       Author 6:         Author S:       Author 7:         Author S:       Seventere preversite of this study was to investigate the outcomes or syndesmotic versus deloid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving dirth eater marking syndesmotic repair was not indicated dirth functional and subjective outcomes in their patients receiving dirth eater author syndesmotic repair was not indicated dirth instability and patient restarket.         Results       Seventeen patients were included in the st	Submission ID	05-01122					Ref ID CS-1122		
Correspondent       Lest Name:       Runo         Full Name:       Richard       Email:       richbrono@gmail.com         Practice/Company/Residency Program:       Eastern Virginia Medical School         Authors       Author 1:       Richard R. Bruno, DPM, FACFAS       Author 2:       Jessica Lee, DPM         Authors       Author 7:       Author 6:       Author 7:       Author 7:         Author 7:       Author 7:       Author 7:       Author 7:         Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture rauma with deltoid instability at time of injury.         Methodology       Forceedures       Literature reveals conflicting information on syndesmotic versus deltoid repair whithck revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a relation 10 al 07 218 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with adeltoid instability with tata riti with informalito mality procedure. All four patients underven direct deloid repair were not indicated definitively in ankle fracture deloid repair with six months of their repair procedure. All four patients underven direct deloid repair were not indicated definitively with tata riti with informal limits. Toro of the six patients vereurent pain or instability. Patients uudeoging dir	Title								
Full Name:       Richard       Email:       richrbruno@gmail.com         Practice/Company/Residency Program:       Eastern Virginia Medical School         Author S:       Author 1:       Richard R. Bruno, DPM, FACFAS       Author 2:       Jesica Lee, DPM         Author S:       Author 7:       Author 6:       Author 7:       Author 7:         Author 7:       Author 8:       Author 7:       Author 8:         Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture retrauma with deltoid instability at time of injury.         Methodology       Forecedures       Literature reveals conflicting information on syndesmotic versus deltoid repair with induct definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid instability onfirmed with strones syndesmotic repair was not indicated definitively in ankle fracture with deltoid instability onfirmed syndesmotic repair main inprovement in stubility with all patients having an ankle fracture with deltoid instability onfirmed with strass examination radiographs and increased talar tilt. Eleven patients merice od elotiod repair with esting an ankle fracture with deltoid instability and pain medially within strones in our study with all patients having an ankle fracture with deltoid instability on pain medially within strones in our study with all 11 patients having an ankle fracture with adeltoid instability and pain medially within strones in our study with all 11 patients scoring higher patients receiving th	Submit Date	08/30/2023							
Practice/Company/Residency Program:       Eastern Virginia Medical School         Author S:       Author 3:       Marisa Mosier, DPM       Author 4:         Author 3:       Marisa Mosier, DPM       Author 4:         Author 7:       Author 6:	Correspondent	Last Name:	Bruno						
Author S       Author 1:       Richard R. Bruno, DPM, FACEAS       Author 2:       Jessica Lee, DPM         Author 3:       Marisa Mosier, DPM       Author 4:       Author 5:       Author 7:       Author 6:         Author 7:       Author 7:       Author 8:       Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture trauma with deltoid insability at time of injury.         Methodology       Procedures       Literature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by DbBash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid instability onfirmed with stras examination radiographs and increased that fitt. Even patients underwent direct deltoid repair while six, patients with a six contus of their repair procedure. All for patients went on to have deltoid instability and pain medially within algreater ADFA subjective Source. All for patients went on to have deltoid instability and pain medially within algreater ADFA subjective Source.         Discussions       Deltoid instability is better treated with direct deltoid repair. Syndesmotic repair alone was not sufficient in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.         Format		Full Name:	Richard		Email:	richrbruno@	gmail.com		
Author 3:       Marisa Mosier, DPM       Author 4:         Author 5:       Author 6:         Author 7:       Author 8:         Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture trauma with deltoid instability at time of injury.         Methodology       Iterature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with each definitively in ankle fracture treatments.         Missions       Seventeen patients were included in the study with all patients were not not have definitively in ankle fracture treatments.         Results       Seventeen patients receiving the direct deltoid repair with stress eximination radiographs and increased tata rift. Eleven patients metersion surgery to undergo deltoid repair with stress eximinator andicid repair with stress exoring higher post-operatively than the syndesmotic ceptair with ave feature full or factor factor factor their repair procedure. All four patients were including the direct deltoid repair is spadesmotic repair alone was not sufficient in reproducing syndesmotic cohort with improvement from pre-operative scores.         Discussions       Deltoid instability is better treated with direct deltoid repair. Syndesmotic repair alone		Practice/Con	npany/Residenc	ey Program:	Eastern Virg	inia Medical Sc	hool		
Author 5:       Author 7:       Author 8:         Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture trauma with deltoid instability at time of injury.         Methodology       Iterature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Discussions       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid instability and pain medially within issis months of their repair procedure. All four patients were not to revision surgery to undergo deltoid repair was not indicated definitively in ankle fracture with deltoid instability and pain medially within issis months of their repair procedure. All four patients were not no to revision surgery to undergo deltoid repair and medially with in seventer fraain romatiolity. Patients with sputients scoring higher post-operatively than the syndesmotic cohort with improvement from pre-operative scores.         Discussions       Deltoid instability is better treated with direct deltoid repair. Syndesmotic repair and ne teal relevel with all patients scores with all 11 patients scoring higher post-operatively function instability. Patients with spute scores.         Class Rept Followup       12         Student Club       Deltoid instability is better reated with direct deltoid repair. Syndesmotic	Authors	Author 1:	Richard R. I	Bruno, DPM, FACFAS	Author 2:	Jessica Lee,	DPM		
Autor 7:Autor 8:PurposeThe purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture trauma with deltoid instability at time of injury.MethodologyIterature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated finitively in ankle fracture trait deltoid repair with stress examination radiographs and increased talar tilt. Eleven patients used to confirm improvement in stability confirmed with stress examination radiographs and increased talar tilt. Eleven patients used to confirm improvement in stability and patients receiving the direct deltoid repair du not have recurrent pain or instability. Patients usere reviewed with the determination subjective scores.DiscussionsDeltoid instability is better treated with direct deltoid repair. Syndesmotic repair on to revision surgery to undergo deltoid repair du not have recurrent pain or instability. Patient in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.FormatCase StudyCase Rapt Followup12Case Rapt Followup <th< th=""><th></th><th>Author 3:</th><th>Marisa Mos</th><th>ier, DPM</th><th>Author 4:</th><th></th><th></th></th<>		Author 3:	Marisa Mos	ier, DPM	Author 4:				
Purpose       The purpose of this study was to investigate the outcomes of syndesmotic versus deltoid repair in patients with ankle fracture trauma with deltoid instability at time of injury.         Methodology       Iterature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabah, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture reatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid instability confirmed with stress examination radiographs and increased talar tilt. Eleven patients underwent direct deltoid repair while six patients receiving the direct deltoid repair while or to revision surgery to undergo deltoid repair while six patients freceived syndesmotic repair or yunder of their spatients were patients sever procedure. All four patients sever provement in stability. Patients undergoing direct deltoid repair did not have recurrent pain or instability. Patients undergoing direct deltoid repair delto have recurrent pain or instability. Patients undergoing direct deltoid repair delto deltoid repair source overs.         Discussions       Deltoid instability is better treated with direct deltoid repair. Syndesmotic repair alone was not sufficient in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.         Format       Case Study       Ease Study       Ease Study       Ease Study       Ease Study       Ease Study       Easemise Study       Student Club Poster<		Author 5:			Author 6:				
Methodology       Fracture trauma with deltoid instability at time of injury.         Methodology         Procedures       Literature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid repair while six patients receiving dither or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.         Results       Seventeen patients were included in the study with all patients having an ankle fracture with deltoid instability confirmed with stress examination radiographs and increased talar titl. Eleven patients underwent direct deltoid repair while six patients is months of their repair only. Intra-operative fluoroscopy was used to confirm improvement in stability with talar till within normal limits. Four of the six patients with syndesmotic repair on to have deltoid repair. All eleven patients receiving the direct deltoid repair did not have recurrent pain or instability. Patients undergoing direct deltoid repair to the six patients were orner pain or instability. Patients undergoing direct deltoid repair to nor study with these patients often requiring revision and repair of the deltoid ligament.         Format       Case Study       Case Study       Seventeen Student Club Poster       Sevent IV </th <th></th> <th>Author 7:</th> <th></th> <th></th> <th>Author 8:</th> <th></th> <th></th>		Author 7:			Author 8:				
ProceduresLiterature reveals conflicting information on syndesmotic versus deltoid repair. Whitlock revealed similar functional and subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.ResultsSeventeen patients were included in the study with all patients having an ankle fracture deltoid repair while six patients received syndesmotic repair only. Intra-operative fluoroscopy was used to confirm improvement in stability with intari tilt within normal limits. Four of the six patients with syndesmotic repair went on to nevision surgery to undergo deltoid repair. All eleven patients receiving the direct deltoid repair. All four patients went on to revision surgery to undergo deltoid repair. All eleven patients receiving the direct deltoid repair. Syndesmotic repair and no instability. Patients undergoing direct deltoid instability is better treated with direct deltoid repair. Syndesmotic repair alone was not sufficient in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.FormatCase StudyCase StudyImage: Level of EvidenceClassificationTraumaLevel of EvidenceLevel IVFull Name:Email: Image: Student R. Bruno, DPM, FACFASDiscloser(s) selected: Consultant/Advisor/Speaker (List all affiliations)KerecisGuessione.Email: Discloser(s) selected:Disclosed Organisation(s):ResultsKerecis	Purpose								
subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture treatments.ResultsSeventeen patients were included in the study with all patients having an ankle fracture with deltoid instability confirmed with stress examination radiographs and increased talar tilt. Eleven patients underwent direct deltoid repair while six patients received syndesmotic repair only. Intra-operative fluoroscopy was used to confirm improvement in stability with talar tilt within normal limits. Four of the six patients with syndesmotic repair wont on to have deltoid instability and pain medially within six months of their repair procedure. All four patients secoring higher post-operatively than the syndesmotic cohort with improvement from pre-operative fluoroscopy was used to confirm inprovement in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.FormatCase StudyCase StudyImprovementCase StudyImprovementStudent Club DosterImp	Methodology								
with stress examination radiographs and increased talar tilt. Eleven patients underwent direct deltoid repair while six patients received syndesmotic repair only. Intra-operative fluoroscopy was used to confirm improvement in stability with talar tilt within normal limits. Four of the six patients with syndesmotic repair on to have deltoid instability and pain medially within six months of their repair procedure. All four patients went on to have deltoid instability. Patients undergoing direct deltoid repair had greater AOFAS subjective scoring with all 11 patients scoring higher post-operatively than the syndesmotic cohort with improvement from pre-operative scores.DiscussionsDeltoid instability is better treated with direct deltoid repair. Syndesmotic repair alone was not sufficient in reproducing successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.FormatCase StudyCase Rpt Followup12Student ClubNot a Student Club PosterClussificationTraumaLevel of EvidenceLevel IVAuthors/Financial DiscussesDisclosure(s) selected:Full Name:Email:Disclosure(s) selected:Full Name:Email:Disclosure(s) selected:Issica Lee, DPMrich/bruno@gmail.comI/We have nothing to disclose	Procedures	subjective outcomes in their patients receiving either or as a treatment option. In a study by Dabash, five studies with a total of 281 patients were reviewed with the determination a deltoid repair was not indicated definitively in ankle fracture							
Successful patient outcomes in our study with these patients often requiring revision and repair of the deltoid ligament.         Format       Case Study         Case Rpt Followup       12         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Student S, Financial Discostres       Disclosure(s) selected:       Disclosed Organisation(s):         Richard R. Bruno, DPM, FACFAS       richrbruno@gmail.com       Consultant/Advisor/Speaker (List all affiliations)       Kerecis         Jessica Lee, DPM       richrbruno@gmail.com       I/We have nothing to disclose       I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/	Results	with stress examination radiographs and increased talar tilt. Eleven patients underwent direct deltoid repair while six patients received syndesmotic repair only. Intra-operative fluoroscopy was used to confirm improvement in stability with talar tilt within normal limits. Four of the six patients with syndesmotic repair worl to no have deltoid instability and pain medially within six months of their repair procedure. All four patients went on to revision surgery to undergo deltoid repair. All eleven patients receiving the direct deltoid repair did not have recurrent pain or instability. Patients undergoing direct deltoid repair had greater AOFAS subjective scoring with all 11 patients scoring higher post-operatively than the							
Case Rpt Followup       12         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Discosures       Email:         Full Name:       Email:       Disclosure(s) selected:         Richard R. Bruno, DPM, FACFAS       richrbruno@gmail.com       Consultant/Advisor/Speaker (List all affiliations)         Jessica Lee, DPM       richrbruno@gmail.com       I/We have nothing to disclose	Discussions								
Case: Rpt Followup       A         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Disclosures       Email:       Disclosure(s) selected:       Disclosed Organisation(s):         Richard R. Bruno, DPM, FACFAS       richrbruno@gmail.com       Consultant/Advisor/Speaker (List all affiliations)       Kerecis         Jessica Lee, DPM       richrbruno@gmail.com       I/We have nothing to disclose       Level Disclosed Disclose	Format	Case Study							
Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Disclosures       Disclosure(s) selected:       Disclosed Organisation(s):         Full Name:       Email:       Disclosure(s) selected:       Disclosed Organisation(s):         Richard R. Bruno, DPM, FACFAS       richrbruno@gmail.com       Consultant/Advisor/Speaker (List all affiliations)       Kerecis         Jessica Lee, DPM       richrbruno@gmail.com       I/We have nothing to disclose       I/Image: Image: Imag	Case Rpt Followup	12							
Level of Evidence     Level IV       Authors/Financial Disclosures     Disclosure(s) selected:     Disclosed Organisation(s):       Full Name:     Email:     Disclosure(s) selected:     Disclosed Organisation(s):       Richard R. Bruno, DPM, FACFAS     richrbruno@gmail.com     Consultant/Advisor/Speaker (List all affiliations)     Kerecis       Jessica Lee, DPM     richrbruno@gmail.com     I/We have nothing to disclose     Level IV	Student Club	Not a Studen	t Club Poster						
Authors/Financial Disclosures       Full Name:     Email:     Disclosure(s) selected:     Disclosed Organisation(s):       Richard R. Bruno, DPM, FACFAS     richrbruno@gmail.com     Consultant/Advisor/Speaker (List all affiliations)     Kerecis       Jessica Lee, DPM     richrbruno@gmail.com     I/We have nothing to disclose     Lessica Lee, DPM	Classification	Trauma							
Full Name:     Email:     Disclosure(s) selected:     Disclosed Organisation(s):       Richard R. Bruno, DPM, FACFAS     richrbruno@gmail.com     Consultant/Advisor/Speaker (List all affiliations)     Kerecis       Jessica Lee, DPM     richrbruno@gmail.com     I/We have nothing to disclose     List all affiliations)     Kerecis	Level of Evidence	Level IV							
Richard R. Bruno, DPM, FACFAS     richrbruno@gmail.com     Consultant/Advisor/Speaker (List all affiliations)     Kerecis       Jessica Lee, DPM     richrbruno@gmail.com     I/We have nothing to disclose     I/We have nothing to disclose	Authors/Financial D	isclosures							
FACFAS     richrbruno@gmail.com     Consultant/Advisor/Speaker (List all affiliations)     Kerecis       Jessica Lee, DPM     richrbruno@gmail.com     I/We have nothing to disclose     I/We have nothing to disclose	Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):		
		richrbruno@gn	nail.com	Consultant/Advisor/Speaker	CList all affiliati	ons)	Kerecis		
Marisa Mosier, DPM richrbruno@gmail.com I/We have nothing to disclose	Jessica Lee, DPM	richrbruno@gn	nail.com	I/We have nothing to disclose	se				
	Marisa Mosier, DPM	richrbruno@gn	nail.com	I/We have nothing to disclose	se				

Submission ID	05-01126				Ref ID CS-1126			
Title	Rare pres	sentation o	of a Spitzoid Nevus in a	n 11-year-	old female: A Case Report			
Submit Date	08/31/2023							
Correspondent	Last Name: Full Name:	Brandt Mary R. Bra	andt, DPM	Email:	Mary.Brandt@ahn.org			
	Practice/Com	npany/Resident	cy Program:	The Westerr Ankle Surge	n Pennsylvania Hospital, Division of Foot and ery			
Authors	Author 1: Author 3: Author 5:	Mary R. Bra Nicki L. Niț	andt, DPM gro, DPM, FACFAS	Author 2: Author 4: Author 6:	Jonathan D. Nigro, DPM			
	Author 7:			Author 8:				
Purpose		A Spitz nevus is a melanocytic neoplasm that typically appears in childhood with features that make them difficult to distinguish from melanomas. We present a rare presentation of a digital lesion on an 11-year-old female.						
Methodology								
Procedures	toe measurin underwent a	An 11-year-old female presented to our office with an unknown red, papular lesion to the dorsal aspect of her right second toe measuring $1.0 \times 1.0 \times 0.5$ cm. Treatments of both oral and topical steroids and antibiotics were unsuccessful. She underwent a shave biopsy which demonstrated a compound melanocytic neoplasm with spitzoid and atypical features. FISH results were negative. Full re-excision of the lesion was recommended.						
Results	negative mar close in prox time. The pat	Pathology results following re-excision of the lesion were consistent with a spitzoid nevus with atypical features and negative margins. A full thickness skin graft was performed for closure. Due to the difficult location, margins remained close in proximity and the patient remains at risk for local reoccurrence. Lymph node biopsy was not recommended at the time. The patient is now three years out from re-excision of the lesion. The graft site remains well healed with no signs of reoccurrence. The patient follows up with pediatric dermatology on a yearly basis for TBSE.						
Discussions	and patholog	ic behaviors si	milar to melanoma. Diagnosis i	s challenging a	hese lesions act benign but demonstrate clinical nd dermoscopy alone is not sufficient in al of similar unknown lesions in adolescents.			
Format	Case Study							
Case Rpt Followup	44							
Student Club	Not a Studen	t Club Poster						
Classification	Soft Tissue/T	umor						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):			
Mary R. Brandt, DPM	Mary.Brandt@	ahn.org	I/We have nothing to disclose	•				
Jonathan D. Nigro, DPM	Jonathan.Nigro	@ahn.org	I/We have nothing to disclose	•				
Nicki L. Nigro, DPM, FACFAS	nigro@mac.co	m	I/We have nothing to disclose	•				

Submission ID	05-01129				Ref ID CS-1129			
Title	One Year Reconstru		o of a One Stage Free l	Fibular Fla	p for First Metatarsal			
Submit Date	08/30/2023							
Correspondent	Last Name:	Naveed						
·	Full Name: Practice/Com	Anooshay N pany/Residend	laveed, DPM cy Program:	Email: Detroit Medi	a.naveed1504@gmail.com ical Center			
Authors	Author 1:	Anooshay N	laveed, DPM	Author 2:	Yara Karam, DPM			
	Author 3:	Brian G. Ki	ssel, DPM, MBA, FACFAS	Author 4:				
	Author 5:			Author 6:				
	Author 7:			Author 8:				
Purpose	biomechanics fibular free fl	Although amputation is an option for severely comminuted metatarsal fractures, first-ray defects can lead to altered biomechanics and metatarsalgia. There are a variety of interventions to treat bony defects of the foot, with vascularized fibular free flap being a viable option for the reconstruction of large bony defects. In this study, we present one-year postoperative outcomes of fibular osteocutaneous flap used for first metatarsal reconstruction.						
Methodology								
Procedures	Studies have shown that one-stage reconstruction, with simultaneous bone reconstruction and soft tissue coverage, leads to decreased postoperative complications and accelerated osseous union. This case study presents a 51-year-old male with medical history of May-Thurner Syndrome, venous stenting, tobacco use, and previously sustained gunshot wound resulting in significant injury to his right foot. He subsequently developed a nonunion and avascular bone to the 1st metatarsal. Pre-operatively patient had pain with ambulation. Bilateral 3D CT scans were obtained for pre-operative planning. The patient underwent first metatarsal reconstruction using fibular osteocutaneous flap harvest from the contralateral side and 1st metatarsophalangeal and tarsometatarsal join fusion.							
Results			cross 1st metatarsophalangeal a in-free ambulation within 1 yea		sal joint fusion with viable flap. Patient returned			
Discussions	collapse, less	er metatarsal o	verload, and arthrosis. In instan	ices where the f	cle. First ray insufficiency may result in midfoot irst metatarsal is severely injured, fibular ruction, resulting in restoration of function.			
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Student	Club Poster						
Classification	Forefoot Rec	onstruction						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):			
Anooshay Naveed, DPM	a.naveed1504@	gmail.com	I/We have nothing to disclose	2	,			
Yara Karam, DPM	ykaram@kent.e	du	I/We have nothing to disclose	;				
Brian G. Kissel, DPM, MBA, FACFAS	kisselbg@gmai	l.com	I/We have nothing to disclose	•				

Submission ID	05-01130			Ref ID CS-1130			
Title	Angioleiomyoma literature	in the ankle mimicking a	schwanno	ma: a case report and review of			
Submit Date	08/30/2023						
Correspondent	Last Name: Akbar						
	Full Name: Junaid		Email:	Jakbar@northwell.edu			
	Practice/Company/Resid	lency Program:	Lenox Hill H	Iospital Podiatric Residency			
Authors	Author 1: Stuart K	atchis MD	Author 2:	Junaid Akbar, DPM			
	Author 3: Jonathar	Gabor, MD	Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Angioleiomyomas are rare benign tumors of the tunica media of smooth muscle layer of blood vessels. Though often asymptomatic, they may cause neuropathic compression syndrome due to space occupying mass effect. There is a wide differential diagnosis, with ganglion cysts and peripheral nerve sheath tumors (e.g. schwannoma) being most common. We present a case study of a patient that presented with a solitary painful mass of the ankle, which was surgically excised and confirmed to be angioleiomyoma. By adding to the body of literature on angioleiomyomas of the foot and ankle, this report may aid in the diagnosis of this condition in the future.						
Methodology							
Procedures	A single case report of worsening ankle mass with associated neuropathic pain. Benign radiographs but MRI final read as schwannoma. Upon surgical excision and histopathological analysis, the mass confirmed to be an angioleiomyoma. Case of clinical significance due to non-specific presentation and MRI read as schwannoma.						
Results	Histopathological analy	Histopathological analysis confirming presence of angioleiomyoma.					
Discussions	single imaging modality differential diagnosis. T angioleiomyomas. Surgi	that can be used to diagnose an ang 2 MRI findings consistent with bran cal excision provides relief of symp	gioleiomyoma b thing hyperinte toms and histor	ultiple nonspecific clinical findings. There is no out can be used to aid in narrowing the potential ensities can be considered characteristic of pathology analysis is the gold standard for uue masses of the lower extremities that present			
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Post	er					
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01131 Ref ID CS-1					Ref ID CS-1131	
Title	The Mase	quelet tech	inique as a method for	limb salva	ge in talar a	vascular necrosis	
Submit Date	08/30/2023						
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Authors	Author 1: Author 3: Author 5: Author 7:	Kiera M. B	enge-Shea, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Jesse R. Wolf	fe, DPM, FACFAS	
Purpose	It is the utilization membrane to	The Masquelet technique has been utilized as a method for limb salvage and reconstruction following segmental bone loss. It is the utilization of a PMMA spacer with frame stabilization to facilitate the formation of a protective vascularized membrane to optimize subsequent bone block arthrodesis. This case study documents the utilization of the Masquelet technique in a patient with a history of chronic osteomyelitis, talar avascular necrosis (AVN), and varus instability.					
Methodology							
Procedures	68 year old fe	emale underwe	ent staged reconstruction of sign	ificant hindfoot	deformity with	Masquelet techniques.	
Results	*	Technique allowed for successful hindfoot reconstruction allowing for restoration of functionality in a limb that was otherwise being considered for proximal amputation.					
Discussions	fusion sites w persistence of This patient, in the resection a limb that wa	The Masquelet technique is reliant upon an induced vascular membrane to promote angiogenesis and osteogenesis to fusion sites which prevents graft resorption and loss of height. The greatest risk to the success of this procedure is the persistence of infection which can compromise the induced membrane and lead to subsequent failure of the bone graft. This patient, with a history of chronic osteomyelitis, there was concern of possible contamination which was accounted for in the resection and biopsy of all bones in the hindfoot. This staged reconstruction allowed for the return of functionality of a limb that was otherwise being considered for proximal amputation due to the degree of deformity. We advise that the Masquelet technique is a viable option for reconstruction in patients with loss of bone due to AVN.					
Format	Case Study						
Case Rpt Followup	13						
Student Club	Not a Student	t Club Poster					
Classification	Rearfoot and	Ankle Recons	truction				
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-01137			Ref ID CS-1137		
Title		Decompression of the Tarsal Canal with Distal Tarsal Tunnel Release with and without a Plantar Fasciotomy: A Case Series				
Submit Date	08/30/2023					
Correspondent	Last Name: Webb					
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Authors		sstillo, DPM 18ko, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Brady, M, Webb, DPM Peter, M, Stasko, DPM, AACFAS		
Purpose	the flexor retinaculum on t	Tarsal tunnel syndrome (TTS) involves the entrapment of the posterior tibial nerve or its branches within its tunnel beneath the flexor retinaculum on the medial side of the ankle. Our aim is to assess the outcomes of surgical interventions for TTS with a tarsal tunnel release alone and a tarsal tunnel release plus an adjunctive procedure involving the plantar fascia.				
Methodology						
Procedures	ranging from a fasciotomy	Five patients and six feet undergoing a tarsal tunnel release with or without a second procedure involving the plantar fascia, ranging from a fasciotomy to fasciectomy. All patients had at least one year of follow up. Preoperative and postoperative VAS scores were analyzed along with the persistence of paresthesia and numbness postoperatively at one year of follow up were recorded.				
Results	preoperatively and 0.67 (n= Whereas, the three patients	The three patients that had a tarsal tunnel release plus a plantar fascia procedure had an average VAS score of 5 (n=3) preoperatively and 0.67 (n=3) post operatively (87% reduction) with one patient with persistent numbness after one year. Whereas, the three patients that received only a tarsal tunnel release had a preoperative VAS score of 4 (n=3) and 0.67 (n=3) postoperatively (83% reduction) with one patient with persistence of paresthesia after one year.				
Discussions	paresthesia or numbness. C	No statistically significant difference was appreciated between either group in evaluation of VAS score and presence of paresthesia or numbness. Our data does not support that the secondary procedures such as a plantar fasciotomies do not improve overall patient outcomes.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Neurological/Peripheral Neurological Neurolo	erve Disorders				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01139	Ref ID CS-1139				
Title		Kirschner Wire Fixation for First Metatarsophalangeal Joint Arthrodesis in Patients with Poor Bone Quality				
Submit Date	08/30/2023					
Correspondent	Last Name: Mah					
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	undergoing this procedure		which can make	rformed procedures in the foot. Many patients fixation more challenging. In this case series, lation.		
Methodology						
Procedures	metatarsophalangeal joint of soft/cystic bone along kidney disease, thyroid di	A retrospective review was performed of 15 consecutive cases in 14 patients at a single institution who underwent 1st metatarsophalangeal joint arthrodesis and possessed poor bone quality. This was determined by the intraoperative finding of soft/cystic bone along with one of the following conditions: osteoporosis/osteopenia, vitamin D deficiency, chronic kidney disease, thyroid disease, or long-term oral steroid therapy use. Union rate, complications, hardware removal rate, and operative time were evaluated.				
Results	minor complications (3/1) patients underwent future including crossing wires v	Thirteen patients demonstrated radiographic union at the 6-week follow-up (14/15 feet, 93%). Three patients experienced minor complications (3/15 feet, 20%), one of which required early removal of the intramedullary pin (1/15 feet, 7%). Five patients underwent future reoperation for hardware removal ( $6/15$ feet, 40%). Two separate constructs were utilized, including crossing wires with a single intramedullary wire (n=13) or crossing wires with two intramedullary wires (n=2). When isolated fusions were performed (n=7), the mean procedure time was 51 minutes.				
Discussions	tendency to include more However, our case series	Many different fixation constructs are employed when fusing the first metatarsophalangeal joint. Traditionally, there is a tendency to include more hardware to stabilize the arthrodesis site, when poor bone quality is encountered or expected. However, our case series demonstrates that a simple fixation construct exists for these patients that serves as both a reliable, quick, and cost-effective alternative.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01140 Ref ID CS-1140					
Title	1	Traumatic Open Achilles Tendon Rupture in Pediatric Hockey Player: Case Study and Early Return to Sport				
Submit Date	08/30/2023					
Correspondent	Last Name: Garvin Full Name: Justin Ki Practice/Company/Resid	m Garvin DPM ency Program:	Email: MainLine H	garvinj@mlhs.org ealth		
Authors		GARVIN, DPM shner DPM	Author 2: Author 4: Author 6: Author 8:	Mark Capuzzi DPM, AACFAS Tyler Minetola DPM		
Purpose	protocols when choosing		management. A	ithin the literature offering surgeons several Acute pediatric Achilles ruptures, however, are ative treatment.		
Methodology						
Procedures	open repair performed w weight bearing. Week 2 p slept in walker. Week 5 v over 4 weeks until ankle Week 13 stiff soled supp	15 year old hockey player with complete tendon rupture secondary to laceration. MRI revealed a 3.41 cm rupture. Direct open repair performed with Krakow and Kessler techniques using 0-FiberWire. Patient splinted in equinus and is non-weight bearing. Week 2 patient placed in tall CAM walker with 3 heel lifts while remaining non-weight bearing. Patient slept in walker. Week 5 weight bearing as tolerated in CAM walker with 3 heel lifts. Patient removed one heel lift a week over 4 weeks until ankle in neutral position. Physical therapy initiated in week 7. Week 9 normal shoe with one wedge. Week 13 stiff soled support shoe, cleared for non-contact light skating activity. Week 17 patient had 95% extremity strength. Returned to hockey, no restrictions.				
Results	Return to sport in 17 wee	eks from Date of Initial Surgery				
Discussions	Immediate identification and repair of a pediatric acute Achilles rupture is vital to insure a quick return to sport. Open and Direct repair should be considered with pediatric patients. Aggressive and relatively early Physical therapy should be considered. The patient's plantarflexion should gradually be transitioned to the neutral position over several weeks. With this operative protocol our patient had a full return to sport in just under 4 months from date of initial injury.					
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poste	r				
Classification	Trauma					
Level of Evidence	Level IV					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-01143 Ref ID CS-114.					
Title	Rare Case of Bone I	Marrow Edema Syndro	ome in Bila	teral Hindfoot and Midfoot		
Submit Date	08/30/2023					
Correspondent	Last Name: Adam					
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Purpose	Bone marrow edema syndrome (BMES) is a rare, self-limiting, debilitating condition of unclear etiology with no well- established treatment. Diagnosis can be established based on exclusion, with differential diagnoses including Chronic Regional Pain Syndrome (CRPS) and avascular necrosis (AVN). MRI imaging is unspecific however can illustrate marrow edema and osteonecrosis consistent with BMES. Presented is a rare case of bilateral BMES in the hindfoot and midfoot.					
Methodology						
Procedures	underwent right ankle MRI joint, and talus. Patient was foot symptoms, with new le notable for moderate marrow decreasing marrow edema w	A 61-year-old female with history of psoriatic arthritis presented with right lower extremity pain in May 2022. Patient underwent right ankle MRI in June demonstrating active osteonecrosis with moderate marrow edema in anterior subtalar joint, and talus. Patient was placed in a CAM walker with bone stimulation. In August, patient reported resolution of right foot symptoms, with new left foot pain. She was immobilized and started on Medrol dose pack therapy. An MRI was notable for moderate marrow edema within the cuboid. Pain continued to persist in November, with repeat MRI showing decreasing marrow edema within cuboid, and acute marrow edema in cuneiforms, distal calcaneus, and 5th metatarsal. Evaluation by PM&R ruled out CRPS.				
Results	Successful treatment with of	ffloading, bone stimulation, ster	oid therapy, and	d PM&R consultation		
Discussions	introduce bisphosphonates a	While first introduced by Hofmann et al in 2004, BMES continues to be challenging to diagnose and treat. Newer studies introduce bisphosphonates and lloprost as possible treatment options for BMES. A high index of suspicion should be utilized alongside a multidisciplinary approach with advanced imaging to evaluate and manage BMES.				
Format	Case Study					
Case Rpt Followup	15					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dise	eases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01148 Ref ID CS-1148				
Title		Wide Resection of Recurrent Dermatofibrosarcoma Protuberans of the Right Hallux: A Case Study			
Submit Date	08/30/2023				
Correspondent	Full Name: Du	oyer stin J. Moyer, DPM /Residency Program:	Email: Rochester G	dustin.moyer@rochesterregional.org eneral Hospital	
Authors	Author 3: An	stin J. Moyer, DPM jni P. Patel, DPM uglas A. Ring, DPM	Author 2: Author 4: Author 6: Author 8:	Brady M. Webb, DPM Kate A. Cryderman, DPM	
Purpose	locally aggressive	soft tissue sarcoma that arises	from the dermal and subc	e Right Foot. DFSP is exceptionally rare and a sutaneous layers of the skin. Misdiagnosis as a crucial for treatment and surgical planning.	
Methodology					
Procedures	We present a case amputation with a		ed with DFSP of the right	hallux that was treated with right hallux	
Results	The DFSP returned Patient was follow	Patient was initially seen for excision of lesion in 2020, where patient opted for excision of lesion rather than amputation. The DFSP returned and was re-evaluated in April of 2022. In July of 2023, a right hallux amputation was performed. Patient was followed at the 3 day, 17 day, 10 weeks, and 1 year post operatively. There continues to be no residual DFSP tissue identified at the surgical site.			
Discussions	due to incomplete performed with ha obtained. Prioritizi	Due to the infiltrative behavior of DFSP, a common complication is local recurrence. Erdem et al propose that recurrence is due to incomplete removal of DFSP in regions of high recurrence. In this case, a wide excision of 2 cm margin was performed with hallux amputation and clean margin from 1st metatarsal head. Microscopic negative margins were obtained. Prioritizing at least 2 cm of wide excision with microscopic evidence of clean margin ensures the patient to have overall better prognosis for the future.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club	Poster			
Classification	Soft Tissue/Tumor				
Level of Evidence	Level IV				
Authors/Financial	Disclosures				
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Submission ID	05-01149 Ref ID CS-1149						
Title	Complex Surgical	Complex Surgical Treatment in the setting of Charcot Neuroarthropathy					
Submit Date	08/31/2023						
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	Practice/Company/Residen	cy Program:	Inova Fairfa	x Medical Center			
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Purpose	overall treatment to stabiliz soft tissue and osseous pro	Charcot neuroarthropathy and its progressive changes to the foot can be challenging and highly complicated to treat. The overall treatment to stabilize the foot can be a lengthy process. Studies report use of a wide range of approaches including soft tissue and osseous procedures, despite these attempts a large percentage may result in an amputation. This case study demonstrates the challenges in surgery regarding Charcot reconstruction and successful limb salvage.					
Methodology							
Procedures	chronic kidney disease stag ankle pain and deformity. I surgical procedures in an a	52 y/o obese female with past medical history consistent with diabetes mellitus type II, hyperlipidemia, hypertension, gout, chronic kidney disease stage 4 and chronic pain issues presented to an outpatient office in early 2020 with concerns of right ankle pain and deformity. Patient was found to have severe Charcot changes to the hindfoot. She underwent several surgical procedures in an attempt to create a plantigrade foot. Unfortunately, this failed causing bone loss, requiring the final successful TTC fusion with cage implant arthrodesis.					
Results	•	52 y/o obese female whom underwent custom cage implant as a limb salvage technique that led to a weight bearing limb with improved pain and function.					
Discussions	frequencies have been report power literature support. O recreate the plantigrade foo	Charcot Neuroarthropathy progression and deformity is a challenging pathology to treat surgically. Five year amputation frequencies have been reported up to 74%. Surgical algorithms for the treatment of Charcot are variable and rely on lower power literature support. Our case study represents a viable approach and construct for patients with this condition to recreate the plantigrade foot. Recent literature reports successful use of patient specific 3D implant for complex boney defects, deformities and arthrodesis procedures.					
Format	Case Study						
Case Rpt Followup	42						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Recon	Rearfoot and Ankle Reconstruction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01150 Ref ID CS-11						
Title	3D Impla	3D Implant for the Reconstruction of the Midtarsal Joint following Septic Arthritis					
Submit Date	08/30/2023						
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	Practice/Comp	pany/Residen	cy Program:	Medstar			
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	Author 7:			Author 8:			
Purpose	This presents	Septic arthritis is often an emergent surgical procedure including message arriving infected tissues in large bony resections. This presents a unique challenge to restore both functional and anatomical alignment. This case study documents one case of septic arthritis resection with 3D implant reconstruction and free flap.					
Methodology							
Procedures	region after re presence of se	A 61-year-old female with pmh of diabetes presented with acute inflammation, erythema and swelling over the midfoot region after received corticosteroid injection to the shoulder. Imaging studies and clinical presentation confirmed the presence of septic arthritis with extensive joint and bony destruction of the midtarsal region. Procedures: midfoot surgical debridement, 3D printed implant with screw fixation of the midtarsal joint, gracilis muscle flap, split thickness skin graft.					
Results	12 month follo	ow up reveale	ed well resolved free flap	ite without surgical c	lehiscence		
Discussions	large bony res patient specifi	Septic arthritis of the midfoot presents a unique challenge in restoring anatomic and biomechanical function. Patients with large bony resection in the presence of septic arthritis will likely require significant reconstruction. In our case study, patient specific 3D implants allowed for precise restoration respective to bone structures with additional free flap assisted in covering large soft tissue deficits.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student	Club Poster					
Classification	Forefoot Reco	onstruction					
Level of Evidence	Level IV						
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Submission ID	05-01154 Ref ID CS-1154						
Title	The Maisonneuve Fra	The Maisonneuve Fracture associated with a Weber B Fracture					
Submit Date	08/30/2023						
Correspondent	Last Name: Eljaua Full Name: Sahjar A. Eljaua Practice/Company/Residency P	a Velez, PGY-2, DPM Program:	Email: Corewell (Be	sahjar.eljaua@beaumont.org aumont) Hospital- Wayne			
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Purpose	Maisonneuve fracture with a W different mechanisms of injury.	The Maisonneuve fracture can be easily overlooked when evaluating an ankle fracture. It is rare to encounter a Maisonneuve fracture with a Weber B fracture. According to the Lauge- Hansen classification system, both fractures have different mechanisms of injury. In this study we report a rare case of a Maisonneuve fracture and Weber B fracture that occurred simultaneously and discuss its mechanism of injury.					
Methodology							
Procedures	minimally displaced oblique fra diastasis consistent with a synd	A 62-year-old female was evaluated for her left ankle injury. Preoperative standard x-rays of the ankle and leg revealed a minimally displaced oblique fracture through the lateral malleolus consistent with a Weber B fracture, tibio-fibular diastasis consistent with a syndesmotic injury and a minimally displaced oblique fracture noted at the upper one third of the fibula consistent with a Maisonneuve fracture.					
Results	Patient underwent open reducti	on and internal fixation of the	e lateral malleo	lus with syndesmotic reduction of the ankle.			
Discussions	fracture has the characteristics of likely her foot shifted from pro-	In our patient we can see the fracture line of the Maisonneuve fracture has the characteristics of PER while the Weber B fracture has the characteristics of SER. We cannot definitely say our patient's mechanism of injury. We believe it is more likely her foot shifted from pronation to supination during her fall. Nevertheless, the proximal aspect of the fibula should always be examined as part of the physical exam in all ankle fractures to obtain an accurate diagnosis and to provide an appropriate treatment.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
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Submission ID	05-01155 Ref ID CS-1155						
Title	Fibular groove de case study	Fibular groove deepening for treatment of lateral ankle ulcer in spastic paraplegia, a case study					
Submit Date	08/30/2023						
Correspondent	Last Name: Parkman Full Name: Liliya Pa Practice/Company/Resid	kman, DPM ency Program:	Email: MedStar	liliya.parkman@medstar.net			
Authors	Author 3: Alex Dan	Parkman, DPM g, DPM . Hoh, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Haoning Hu, DPM Linsey Andrews, DPM David Z Martin, MD			
Purpose	While the relationship be		eral ankle insuff	ne peroneal tendon behind the lateral malleolus. ăciency has been acknowledged, further s is warranted.			
Methodology							
Procedures	27 year old male with history of T7 paraplegia and spasticity after MVA presented with right lateral ankle ulcer. Conservative treatment included wound care with collagen and alginate dressings, weekly debridements, customized offloading padding, and botox injections for spasticity were attempted for 6 months. There was no improvement, and ultimately peroneal tendons and fibular periosteum were exposed. Procedures: The patient was admitted to the hospital and started on IV antibiotics. He underwent surgical debridements with NPWT until negative cultures were obtained. Fibular groove deepening was performed to prevent subluxation of the peroneals in the wound base. The wound was covered with bilayer skin substitute and NPWT.						
Results		aft was removed revealing health ete resolution of the lateral ankle		sue. He underwent skin grafting with splint nd has remained closed.			
Discussions	base. Several studies hav however, there is not any	Discussion: Lateral ankle wounds are challenging to heal with subluxing peroneal tendons causing motion at the wound base. Several studies have explored the effectiveness of fibular groove deepening in preventing peroneal tendon pathology, however, there is not any recent literature addressing the correlation between tendon subluxation and ulcerations. This case report describes applying a known surgical procedure to treat a non-healing ankle wound.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poste	r					
Classification	Wound Care/Infectious E	iseases					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01156 Ref ID CS-11:				Ref ID CS-1156	
Title		Application of a Custom Three-Dimensional Navicular Implant with Talonavicular Fusion for Osteonecrosis of the Navicular				
Submit Date	08/30/2023					
Correspondent	Last Name:	Eljaua				
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	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	centrally. Thi naviculocune custom metal	The navicular bone is at significant risk of osteonecrosis following a high energy type injury due to poor vascularization centrally. This can eventually result in navicular collapse, a shortened medial column, and talonavicular and/or naviculocuneiform arthritis. We present a case study where three-dimensional printing has allowed for the development of custom metallic implant for the navicular that provide mechanical stability while also conforming specifically to the patient's anatomy.				
Methodology						
Procedures	ago which leo hardware was	A 46-year-old male was evaluated for chronic progressive right foot pain. He suffered a motor vehicle accident 30 years ago which led to a navicular fracture for which he underwent open reduction and internal fixation. In the last 7 years, the hardware was removed. Preoperative standard x-rays revealed osteonecrosis of the navicular, arthritic changes noted to the talonavicular joint as well as subchondral cyst changes. CT scans revealed a non-union fracture of the navicular.				
Results	demonstrates	Patient underwent application of a navicular custom three-dimensional implant with talonavicular arthrodesis. This case demonstrates that custom three-dimensional implant for the replacement of the navicular bone with osteonecrosis can be a successful functional surgical treatment option to preserve the anatomic foot structure.				
Discussions	dimensional j	printing allows for	a flexible design and per	nits production o	of surgery. The technology behind custom three- f personalized implants that conforms to the geons a new innovative way to compensate for	
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student	t Club Poster				
Classification	Rearfoot and	Ankle Reconstruct	tion			
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01157 Ref ID CS-1						
Title	Utility of Femoral Antegrade Nails in Tibiotalocalcaneal Arthrodesis						
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Com	Mosier Marisa, Mo pany/Residend		Email: Eastern Virg	mosierm@evms.edu jnia Medical School		
Authors	Author 1: Author 3: Author 5: Author 7:	Marisa Mos Bradley, Le	ier vitt, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Jonathan, Westerveld, DPM		
Purpose	Tibiotalocalcaneal arthrodesis are frequently utilized in the setting of limb salvage when addressing charcot neuroarthropathy, osteoarthritis, trauma, avascular necrosis of the talus or failed total ankle arthroplasty. Nearly ½ of patients will face complications following TTC arthrodesis including hardware failure, infection or amputation. This case series documents utilization of femoral antegrade nails for TTC fusions including indications and advantages over traditional nailing systems.						
Methodology							
Procedures	3 patients undergoing TTC arthrodesis via femoral antegrade nail are included. Indications include previously failed traditional TTC arthrodesis with poor bone stock, chronic unstable ankle fracture in the setting of a large BMI and primary Charcot reconstruction						
Results	3 hindfoot deformities corrected via femoral antegrade intramedullary nails						
Discussions	Tibiotalocalcaneal arthrodesis are limb salvage procedures accompanied by several complications. There are several advantages to femoral antegrade nails. Internal screws lock within the intramedullary rod decreasing risk of screw pullout and hardware failure especially in osteoporotic bone or revision cases. Lack of a posterior-anterior screw allows one to avoid violating decubitus ulcers and/or chronic calcaneal osteomyelitis without sacrificing stability. Femoral nailing systems also come in more diverse sizes ranging from 160-480 mm in length to 9-15 mm in diameter. Drawbacks include lack of internal compression if dynamization is desired.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV	Level IV					
Authors/Financial Disclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01159	Ref ID CS-1159					
Title	Open Management Of Talar Body Fracture Utilizing Medial Malleolus Take Down Approach						
Submit Date	08/30/2023						
Correspondent	Last Name: Nafal Full Name: Yousef Nafal, DPM Practice/Company/Residency Program:	Email: yousef.nafal@corewellhealth.org Beaumont Wayne					
Authors	Author 1: Yousef Nafal, DPM Author 3: Author 5: Author 7:	Author 2:     Lawrence Fallat, DPM       Author 4:     Author 6:       Author 8:     Author 8:					
Purpose	Fractures of the talar body are serious and rare injuries accounting for less than 1 % of all fractures. Most talar body fractures are seen in polytrauma patients with concomitant fractures. This fracture is typically seen in high-velocity traumas and are often associated with extensive soft tissue envelop damage. The talus plays an essential role in the biomechanics of the ankle, subtalar and midtarsal joints. As such, anatomic reduction of talar body fractures is crucial to maintain and preserve appropriate physiological function.						
Methodology							
Procedures	We present a case of a 42-year-old female who presented to the emergency department with a chief complaint of a subtalar joint dislocation after sustaining a fall off a ladder. Post-reduction CT revealed a comminuted, intra-articular fracture of the posterior talar body.						
Results	The patient underwent open reduction internal fixation of the talar body fracture utilizing a medial malleolus take down approach. At her 12-month follow up visit, the patient did not endorse any pain and has returned to her activities of daily living. Radiographs revealed consolidation across the fracture sites of the talar body and medial malleolus osteotomy site.						
Discussions	Talar body fractures are rare and usually involve high velocity energy trauma. For complex talar body fractures that are irreducible, a medial malleolar take down is indicated to help visualize the medial aspect of the body of the talus. By performing this take down, we were able to reduce the fracture and restore appropriate anatomic congruency across the talar joints.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial Disclosures							
Full Name:	Email: Disclosure(s) selected:	Disclosed Organisation(s):					
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Submission ID	05-01163				Ref ID CS-1163		
Title	Rare Occurrence of Ca	Rare Occurrence of Calcified Chondroid Mesenchymal Neoplasm of the Foot					
Submit Date	08/30/2023						
Correspondent	Last Name: Schuler Full Name: Christine Practice/Company/Residency Pr	rogram:	Email: Bethesda Ea	Christine.Schu st Residency Prog	ler@baptisthealth.net ram		
Authors	Author 1:Christine SchuleAuthor 3:Adam Katz DPMAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Kaina Louis-C Dillon Moss, E			
Purpose	Calcified Chondroid Mesenchyr for about 1.5% of benign soft tis						
Methodology							
Procedures	41-year-old female presented w foreign body years before. MRI Once removed pathological ana	confirmed a soft tissue mass	s approximatel	y 2.2 x 2.0 x 1.9c			
Results	Soft tissue mass removal was per mesenchymal neoplasm.	Soft tissue mass removal was performed and pathologic analysis confirmed a rare occurrence of calcified chondroid mesenchymal neoplasm.					
Discussions	these neoplasms has been comp supports this theory suggesting alteration of chromosomes and	Soft tissue chondromas have a rare occurrence. The etiology of these neoplasms is currently unknown. The morphology of these neoplasms has been compared to the equine digital cushion suggesting a reactive/reparative etiology. Our case study supports this theory suggesting a correlation with a foreign body. Other proposed etiologies include non-random clonal alteration of chromosomes and metaplasia from tendon sheaths. The limited literature reports MRI to be the best diagnostic option as it can differentiate between bony and soft tissue. The recurrence rate is reported to be 15-18% and lists excision as the best treatment oution.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level V						
Authors/Financial D	Disclosures						
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):		
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Submission ID	05-01164			Ref ID CS-1164			
Title		Neuropathic Wound and Osteomyelitis in a Pediatric Patient with Peripheral Neuropathy Associated with Spina Bifida					
Submit Date	08/31/2023						
Correspondent	Last Name: Lucitt Full Name: Sonali, Rache Practice/Company/Residency	l, Lucitt, DPM, MA Program:	Email: Baylor Scott	sonali.sukumar@bswhealth.org & White			
Authors		Lucitt, DPM, MA oad, DPM, MA (Bioethics)	Author 2: Author 4: Author 6: Author 8:	Dy Chin, DPM, MSBS			
Purpose	Our goal is to discuss evaluat neuropathic disorders	Our goal is to discuss evaluation and treatment of bone infection and factors to consider when treating children with neuropathic disorders					
Methodology							
Procedures	Patient is a 5-year old female with a PMH significant for spina bifida, lipomyelomeningocele, paraplegia and peripheral neuropathy. Social history including medical neglect. Initial wounds presented on the dorsum of bilateral feet. Her right foot wound eventually developed osteomyelitis localized to the medial cuneiform, this was confirmed via MRI. Patient developed additional wounds and osteomyelitis of the right 5th metatarsal and calcaneus. Over the course of her treatment, she was treated by infectious disease and podiatry for wound debridement and IV antibiotics. Patient underwent a right 5th metatarsal head resection with negative pressure wound therapy application. Subsequent wound care and follow up resulted in complete resolution of foot wounds.						
Results	•	Intervention by Child Protective Services, long-term wound care, surgical and medical management leading to clinical and radiographic healing of wound and bone infection.					
Discussions	A review of current literatures demonstrated that early detection of bone infection and medical management can potentially prevent surgical intervention. This study outlines a rare progression of osteomyelitis relating to a neuropathic wound in a pediatric patient. By investigating and intervening into the patient living situation, utilizing routine wound care, medical management and surgical intervention, and post-operative bracing the patient's outcome dramatically improved based on the severity of this infection.						
Format	Case Study						
<b>Case Rpt Followup</b>	48						
Student Club	Not a Student Club Poster						
Classification	Neurological/Peripheral Nerv	e Disorders					
Level of Evidence	Level IV						
Authors/Financial Di	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01166			Ref ID CS-1166				
Title		Recalcitrant Calcaneal Intraosseous Lipoma Treated with a Cadaveric Femoral Head Allograft Plug and Internal Fixation: A Case Report						
Submit Date	08/30/2023							
Correspondent	Last Name: Schroeder							
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Authors	-	chael Schroeder Khazi, DPM	Author 2: Author 4: Author 6: Author 8:	Kyle M Smith, DPM Khase A Wilkinson, DPM, FACFAS				
Purpose	*	eatment option for recurrent, symptote bone tumors in the lower extreme		n calcaneal neoplasms and a surgical alternative				
Methodology								
Procedures	calcaneus. Although amor treatment remains debatal Definitive surgery consist head allograft, and impac	ng the rarest bone tumors, nearly a ble. Our patient had undergone two ed of aggressive debridement of th tion of a tibial autograft. The graft e to return to full weight-bearing a	third of all IOI previous surg the lesion with r was secured w	itrant intraosseous lipoma (IOL) of the Ls reside in the calcaneus and standardization of eries without symptomatic relief or resolution. emodeling, interposition of a cadaveric femoral ith a lag screw and an anatomic buttressing ambulation. At 13 months follow-up there have				
Results	loosening or irritation. Pa	Incorporation of the allograft was achieved radiographically in two months. Fixational hardware remained intact without loosening or irritation. Patient transitioned to full weightbearing in regular shoe gear after 3 months. The patient was able to return to work and notes no pain with ambulation.						
Discussions	to internal fixation. Secor	To the authors' knowledge, this is the first report detailing the treatment of an IOL with a femoral head allograft in addition to internal fixation. Secondly, fixation with a posterior-to-anterior oriented calcaneal screw to prevent graft translation and rotation has not been described previously for other treatments of IOLs.						
Format	Case Study							
<b>Case Rpt Followup</b>	14							
Student Club	Not a Student Club Poster	r						
Classification	Soft Tissue/Tumor							
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):				
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Submission ID	05-01167			Ref ID CS-1167		
Title	Lateral Transligar Talus	nentous Approach for B	ulk Osteocho	ndral Allograft of the Lateral		
Submit Date	08/30/2023					
Correspondent	Last Name: Varney Full Name: Rebecca I Practice/Company/Reside	, Varney, DPM ency Program:	Email: Inova Fairfax M	rlvarney25@gmail.com ledical Campus		
Authors	Author 1: Rebecca I Author 3: Author 5: Author 7:	L Varney, DPM	Author 2: Author 4: Author 6: Author 8:	Corine L Creech, DPM		
Purpose	malleolar osteotomy appr of this study is to describe osteochondral defect requ	oaches do not allow access to the j e a successful lateral transligament	oosterolateral talus ous (LTL) approad	trauma. Conventional anterior and medial for bulk allograft procedures. The purpose th to the talus for a large posterolateral ccessible via traditional approaches. This is		
Methodology						
Procedures	the posterolateral talar do		ligament complex	.9 cm x 1.1 cm osteochondral fracture along . A single-incision, LTL approach was ed with lateral ankle ligament		
Results	12-month follow-up revea full range of tibiotalar mo		allograft with a sta	able lateral ankle ligamentous complex and		
Discussions	and reduces morbidity ass	The LTL approach affords simultaneous access to the lateral talar dome and lateral ankle ligaments via a single incision and reduces morbidity associated with osteotomy. This approach has been described previously in cadaver models and now has been successfully employed in vivo for bulk allograft with excellent 12-month follow-up and low morbidity.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster	r				
Classification	Rearfoot and Ankle Record	nstruction				
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01170				Ref ID CS-1170		
Title	Neglected	and Infec	ted: Delayed Managen	nent of Op	en Bimalleolar Ankle Fracture		
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Comp		lkhafaji, DPM cy Program:	Email: Detroit Medi	amarkalkhafaji@gmail.com cal Center		
Authors	Author 1: Author 3: Author 5: Author 7:	Brian, G, Ki Seth, Wimb		Author 2: Author 4: Author 6: Author 8:	Amar, K, Alkhafaji, DPM		
Purpose	follows the gui success. This c	Open ankle fractures are relatively rare, comprising around 1-4 percent of all ankle fractures. Traditional management follows the guidelines set by Gusillo Anderson, in which prompt antibiotic therapy and surgical intervention is critical for success. This case study highlights management of open fracture beyond the classic golden period, and introcudes a protocol for success in these high risk presentations.					
Methodology							
Procedures	patient related	sustaining an		g some time in	r falling down stairs two weeks prior. The jail between the injury and our initial evaluation. 201ar ankle fracture.		
Results	his open woun weeks for defin	The patient was admitted to the hospital for immediate I&D and closed reduction of his left ankle followed by grafting to his open wound five days later. A six-week course of IV antibiotics was initiated. The patient returned to the OR after two weeks for definitive fixation. By the third post-operative visit, the patient had restored function to his left ankle and is currently ambulating pain-free in normal shoe-gear.					
Discussions	principles rema appropriate tim	Delayed-presentation open ankle fractures add a unique challenge to an already complex injury. Regardless of timing, principles remain the same: prompt debridement, extended abx therapy, advanced wound closure strategies, and appropriate timing of definitive fixation are all paramount to achieve better outcomes. More research is needed to determine measurable factors affecting outcomes in delayed presentation open ankle fractures.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student	Club Poster					
Classification	Trauma						
Level of Evidence	Level IV						
<b>Authors/Financial D</b>							
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Submission ID	05-01173			Ref ID CS-1173		
Title		he Calcaneocuboid Join ans Osteotomy: A Case		al Calcaneal Osteotomy for an		
Submit Date	08/30/2023					
Correspondent	Last Name: Gazes Full Name: Michael I. C Practice/Company/Residen	Gazes, DPM, MPH, FACFAS cy Program:	Email: Yale New Ha	michael.gazes@yale.edu aven Hospital		
Authors	Author 1:Priyal N. PaAuthor 3:Michael I. CAuthor 5:Author 7:	atel, DPM Gazes, DPM, MPH, FACFAS	Author 2: Author 4: Author 6: Author 8:	Stephen Lazaroff, DPM, FACFAS		
Purpose	valgus. While this procedur	e offers a triplanar correction of	pes plano valgu	atric and adult populations with pes plano as, overcorrection can drive the foot into a pes se an over-corrected Evans osteotomy.		
Methodology						
Procedures	A 27-year-old male underwent subsequent left followed by right decompression of the calcaneocuboid joint (CCJ) by a lateral closing wedge osteotomy of the anterior aspect of the calcaneus. The patient was followed from October 2019 through March 2021. Pre-operative x-rays revealed a high calcaneal inclination angle, from an overcorrection of an initial flatfoot deformity, causing CCJ jamming and exostosis formation. Pre-operative MRI demonstrated a prominent dorsolateral CCI exostosis with a healed calcaneal Evans allograft and fluid within the peroneal sheath.					
Results	Bilateral resolution of the d	Bilateral resolution of the dorsolateral pain.				
Discussions	The Evans calcaneal osteotomy is commonly utilized to address pes plano valgus. Overcorrection can lead to increased pressure in the CCJ but can be successfully addressed with a closing wedge osteotomy 1-1.5cm proximal to the CCJ. Clinicians must be able to identify an overcorrected Evans osteotomy and can offer an alternative solution to a calcaneocuboid arthrodesis.					
Format	Case Study					
<b>Case Rpt Followup</b>	17					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recons	truction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01177				Ref ID CS-1177		
Title	Avascular	3D Printed Navicular Structural Cage Implant for Painful Post-Traumatic Navicular Avascular Necrosis Following Failed ORIF and Multiple Failed Talonavicular and Naviculocuneiform Arthrodesis Nonunions					
Submit Date	08/30/2023						
Correspondent	Last Name:	McMahen					
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	Practice/Comp	any/Residen	cy Program:	The Ohio Sta	ate University Wexner Medical Center		
Authors	Author 1:	Cameron M	lcMahen, DPM	Author 2:	Deana Lewis, DPM		
	Author 3:	David Kapl	ansky, DPM	Author 4:			
	Author 5:			Author 6:			
	Author 7:			Author 8:			
Purpose	failed single jo	pint and multi printed custo	ple joint arthrodesis with autogr	aft due to nonu	avascular necrosis of the navicular who have nion. Our goal is to present a successful case rodesis resulting in decreased pain and good		
Methodology							
Procedures	is through adja report it as a g MVA 13 years navicular by a talonavicular a	Post-traumatic navicular avascular necrosis is a complex and challenging condition to treat. Traditional surgical treatment is through adjacent joint fusion of the talonavicular and naviculocuneiform joints. A few case reports of navicular implants report it as a great options for reconstruction, albeit with short-term results. Our patient, 41 year old male, presented after a MVA 13 years prior with resultant navicular fracture. He failed ORIF with nonunion and avascular necrosis of the navicular by another surgeon. He then underwent talonavicular arthrodesis with failed nonunion and subsequent talonavicular and naviculocuneiform arthrodesis with structural autograft with failed nonunion, pain, and broken hardware. We performed a reconstruction with 3D printed navicular cage implant with autograft and allograft and subtalar joint fucion					
Results	The patient is joint confirme			ble alignment o	f the navicular implant and fusion of the subtalar		
Discussions		nd failed adja	acent joint arthrodesis. Cost of th		wing avascular necrosis and failed conservative ack of truly long-term larger patient population		
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student	Club Poster					
Classification	Rearfoot and A	Ankle Recons	truction				
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01178 Ref ID CS-117				Ref ID CS-1178			
Title	Total Tal	Total Talus 3-D Replacement. A Novel Approach to Maintain Rearfoot/Ankle Motion						
Submit Date	08/30/2023							
Correspondent	Last Name: Full Name: Practice/Com	Herak Trevor A He pany/Residenc	·	Email: University H	trevorherak.dpm@gmail.com lospitals Podiatric Medicine/Surgery Residency			
Authors	Author 1: Author 3: Author 5: Author 7:	Aaron J. Che Trevor A. He	okan, DPM, FACFAS erak, DPM	Author 2: Author 4: Author 6: Author 8:	Jonathan M. Moss, DPM, AACFAS			
Purpose	talar body as modifications review of two trauma (Patie	Today's literature presents limited options for treatment of talar avascular necrosis (AVN) or severe crush features of the talar body as they often result in foot/ankle disability. Treatment consists of conservative options, bracing/activity modifications, or surgical. Arthrodesis is one option for surgical treatment with failure rates as high as 40%. This is a case review of two patients, one with severe cystic osteoarthritis (Patient 1) and the other with AVN of the talus secondary to trauma (Patient 2). Both patients underwent custom 3D-printed total talar replacement (TTR) with added subtalar joint (STJ) arthrodesis and tibial arthroplasty, with additional talonavicular joint (TN) arthrodesis in Patient 2.						
Methodology								
Procedures			vith STJ arthrodesis and total ar d total ankle arthroplasty with B		y with Bröstrom. Patient 2: 3D-printed TTR with I ligament repair.			
Results		Both patients underwent successful 3-D printed TTR with total ankle replacement. One postoperative complication noted to Patient 2, anterior ankle wound, which was treated successfully with local wound care.						
Discussions	arthrodesis in one year follo cases of AVN	Two patients underwent successful TTR with concomitant STJ arthrodesis and tibial arthroplasty, with additional TN arthrodesis in Patient 2. Both patients able to return to work, with pain free ROM, and no evidence of hardware failure at one year follow-up. Reasonable to consider TTR with STJ arthrodesis and tibial arthroplasty as a viable surgical option for cases of AVN and/or severe osteoarthritis of the ankle/subtalar joints. Further research needed to evaluate long-term outcomes/effects of combined TTR with STJ arthrodesis and tibial arthroplasty.						
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Studen	t Club Poster						
Classification	Rearfoot and	Ankle Reconst	truction					
Level of Evidence	Level IV							
Authors/Financial Di	isclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01183		Ref ID CS-1183					
Title		A Novel Technique Augmenting Tibiotalocalcaneal Intramedullary Nail Arthrodesis with Talocalcaneal Joint Screw Fixation: A Case Series						
Submit Date	08/30/2023							
Correspondent	Last Name: Wanniarach Full Name: Gayana Practice/Company/Residend	Email:	ghwanniarachchi@gmail.com Shaw Bethea Hospital					
Authors		Wanniarachchi, DPM Author 2: //elan, DPM, FACFAS Author 4: Author 6: Author 8:	Rachit, Shah, DPM					
Purpose	The purpose of this study is tibiotalocalcaneal intramedu	to report and evaluate the novel use of suppl illary nail arthrodesis.	emental talocalcaneal joint screw fixation to					
Methodology								
Procedures	Tibiotalocalcaneal intramedullary nail arthrodesis is commonly indicated to address hindfoot deformities and arthritis. These pathologies can be associated with diabetes, Charcot neuroarthropathy, osteoporosis, and inflammatory arthritis, which can impede healing and result in high rates of complications. A successful construct can withstand axial and shear stress and decrease non-union rates across talocalcaneal joints. Two patients were retrospectively analyzed at Beloit Memorial Hospital who underwent tibiotalocalcaneal intramedullary nail arthrodesis. The first patient with a history of Charcot arthropathy underwent a standard lateral approach to tibiotalocalcaneal nail arthrodesis resulting in a non-union of the talocalcaneal joint. This was revised with a longer nail and augmented with an additional screw fixation across the talocalcaneal joint. The second patient with a history of comminuted pilon fracture had a primary tibiotalocalcaneal nail fixation with augmentation of talocalcaneal screw fixation.							
Results		Both patients had successful union across the tibiocalcaneal joint after tibiotalocalcaneal nail fixation with augmentation of screw across the talocalcaneal joint. The mean time to union was 8 and 16 weeks for patient one and two, respectively.						
Discussions	often require revisional surg	across tibiocalcaneal joints after tibiotalocalca gery and sometimes result in proximal amputa e stable construct with augmentation of screw						
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Student Club Poster							
Classification	Rearfoot and Ankle Recons	truction						
Level of Evidence	Level IV							
Authors/Financial D								
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Submission ID	05-01188 Ref ID CS-1188						
Title	<b>Over Compres</b>	Over Compression Akin Osteotomy with use of Nitinol Staples: A Report of Two Cases					
Submit Date	08/31/2023						
Correspondent	Last Name: Nam	ous					
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	Practice/Company/R	esidency Program:	University I	Hospital			
Authors	Author 1: Dr. k	Kieth Cook DPM FACFAS	Author 2:	Dr. Adam Bernatsky FACFAS			
	Author 3:		Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	for the correction of including k wires, w	The Akin osteotomy is a closing wedge osteotomy of the first proximal phalanx typically used as an adjunctive procedure for the correction of hallux valgus. Since its description there have been multiple fixation methods have been described including k wires, wire loops, screws, and staples. The purpose of the publication is to present two cases of over compression with use of nitinol staples in akin osteotomy.					
Methodology							
Procedures		ear old female with past medical h ent uneventful akin osteotomies w	•	d a 52 year old male with past medical history of ation.			
Results	the osteotomy site po	Both patients had fracturing of the lateral cortex and non union of the osteotomy sites with apparent over compression of the osteotomy site post operatively. One of the patients went on to have revisional surgery with 2 crossing k wires and eventual osseous union.					
Discussions	the literature. The co phalanx was able to	To the authors knowledge these are the only reported cases of over compression of akin osteotomy with nitinol stapes in the literature. The compressive forces generated from the nitinol staple appear to have been greater than what the proximal phalanx was able to withstand. There are multiple factors that may have contributed to the failed akin osteotomies reported above including size of the staple used, leg length, and bone density.					
Format	Case Study						
Case Rpt Followup	24						
Student Club	Not a Student Club I	Poster					
Classification	Forefoot Reconstruc	tion					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01189				Ref ID CS-1189		
Title	Utilizing o	Utilizing of 3D implant for Correction of Malunited Varus Deformity					
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Comp	Santiago Hector Santiago DP pany/Residency Progr		Email: Baptist Healt	hsantiagodpm@gmail.com h South Florida- Bethesda East		
Authors	Author 1: Author 3: Author 5: Author 7:	Kiana Louis-Charle Christine Schuler, E		Author 2: Author 4: Author 6: Author 8:	Julio Ortiz DPM, AACFAS		
Purpose		the use of 3D formul timb for ambulation.	ated implant for correc	tion of rigid rear	foot varus deformity providing a functional		
Methodology							
Procedures	after a failed f underwent fus nonunion and	usion of STJ due to tr ion following traumat varus deformity. Revi	aumatic fracture of tala	r body causing a y and avascular r	printed Subtalar Cage with corrected STJ Fusion rigid varus deformity. Patient originally necrosis. Attempted STJ fusion failed leading to a calcaneal and talar osteotomy to fix the varus		
Results	osteotomy wa	Patient underwent a revision surgery in which hardware was removed along with avascular bone. Talar and Calcaneal osteotomy was performed with implantation 3D printed Subtalar Cage with STJ Fusion. Realignment of the rearfoot to the forefoot with plantargrade foot and nonpainful ambulation was accomplished					
Discussions	preoperative p	lanning in an attempt	*	alignment to pro	rrgery. A key to success is appropriate event uneven distribution of loads in the leg. eproducible outcomes.		
Format	Case Study						
<b>Case Rpt Followup</b>	36						
Student Club	Not a Student	Club Poster					
Classification	Rearfoot and	Ankle Reconstruction					
Level of Evidence	Level IV						
Authors/Financial D	Disclosures						
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Christine Schuler, DPM,

PGY3

Submission ID	05-01190			Ref ID CS-1190			
Title	Hybrid Neurofibroma	Hybrid Neurofibroma-Schwannoma of the Ankle: A Case Report					
Submit Date	08/30/2023						
Correspondent	Last Name: Dpirra						
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	Practice/Company/Residency F	Program:	Corewell He	alth Hospital Wayne			
Authors	Author 1: Ali Dourra, DP	M	Author 2:	Lawrence Fallat, DPM FACFAS			
	Author 3:		Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	of hybrid neurofibroma-schwar	The purpose of our study is to comprehensively investigate the clinical, radiological, and histopathological characteristics of hybrid neurofibroma-schwannoma tumors within the spectrum of peripheral nerve sheath tumors. Our primary objective is to elucidate the diagnostic challenges and therapeutic implications associated with these rare benign tumors.					
Methodology							
Procedures	Magnetic resonance imaging (M	MRI) was obtained which rev	ealed a periphe	n-painful soft tissue mass to the right ankle. ral nerve sheath tumor located adjacent to the went surgical excision of the peripheral nerve			
Results	1 00 1	The pathology report revealed a large peripheral nerve sheath tumor, consistent with hybrid neurofibroma/schwannoma which was positive for biological markers SOX-10, S100 and CD34, consistent with the diagnosis of a schwannoma- neurofibroma hybrid.					
Discussions	tibial nerve. Surgical excision of	In summary, the authors report a rare case of a hybrid neurofibroma/schwannoma of the ankle adjacent to the posterior tibial nerve. Surgical excision of these tumors remains the treatment of choice, however careful dissection is paramount. Recognition of hybrid nerve sheath tumors as a distinct clinical entity may facilitate the diagnosis of underlying neurocutaneous syndromes.					
Format	Case Study						
Case Rpt Followup	14						
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
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Submission ID	05-01191			Ref ID CS-1191			
Title	Extensile Anterom Arthroplasty	Extensile Anteromedial Incision with Vacuum Assisted Closure for Total Ankle Arthroplasty					
Submit Date	08/30/2023						
Correspondent	Last Name: Aljumail						
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	Practice/Company/Resider	ncy Program:	Ascension P	rovidence Hospital			
Authors	Author 1: Akram Alj	umail, DPM	Author 2:	Hassan Alkhalil, DPM			
	Author 3: Rachel Kap	plan, DPM	Author 4:	Guy Pupp, DPM, FACFAS			
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	28% of cases. Many of the salvage arthrodesis or limb	A devastating complication of the total ankle arthroplasty includes wound complications, which has been reported in up to 28% of cases. Many of these will require further surgical intervention, which may include removal of the prosthesis, salvage arthrodesis or limb loss. The authors present their approach for patients with soft tissue risk factors who are otherwise ideal candidates for a total ankle arthroplasty.					
Methodology							
Procedures	arthroplasty, were treated v	15 patients with end stage ankle arthritis with risk factors for wound complications, without contraindications for an ankle arthroplasty, were treated with a total ankle arthroplasty with an extensile anteromedial incisional approach to the ankle, "no-touch" technique and vacuum-assisted closure of the incision.					
Results		went total ankle arthroplasty with ar complications at a minimum of		omedial approach with vacuum assisted closure st-operatively			
Discussions	of the anterior ankle angio infection, dehiscence, and	The anteromedial incision is a documented approach to the ankle which gives excellent exposure while avoiding disruption of the anterior ankle angiosomes and tibialis anterior tendon sheath. Vacuum assisted closure has been shown to avoid infection, dehiscence, and seroma formation in high-tension incisions. Considering the devastating complications of a failed anterior ankle incision, the authors present a viable alternative in patients with concerns for wound healing.					
Format	Case Study						
Case Rpt Followup	13						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Recon	struction					
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
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Submission ID	05-01192 Ref ID CS-1							
Title	A Novel Case of Prev Replacement	A Novel Case of Prevotella Oralis Causing Osteomyelitis in an Infected Total Ankle Replacement						
Submit Date	08/30/2023							
Correspondent	Last Name: Qureshi Full Name: Mujtaba Practice/Company/Residency	Program:	Email: St. Mary's Ge	Mujtaba115@ meral Hospital	gmail.com			
Authors		shi, DPM r, DPM, AACFAS c, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:		matovic, DPM DPM, AACFAS			
Purpose	common gram-positive specie by S. epidermidis in infected t	Gram-positive bacteria are the most prevalent organisms causing osteomyelitis in the foot and ankle. S. Aureus is the most common gram-positive species isolated, whereas Pseudomonas species are the most common gram-negative rods, followed by S. epidermidis in infected total joint arthroplasty. The primary aim of this study is to highlight a never-reported finding of Prevotella Oralis in a case of Osteomyelitis of the ankle with an infected total joint implant.						
Methodology								
Procedures	total ankle replacement (TAR)	A 69 y/o female with no pertinent past medical history presented with a chronic wound to her anterior ankle status post total ankle replacement (TAR) seven years ago. The patient had been receiving wound care, noted the wound had probed to bone, but previous imaging was negative for ostcomyelitis.						
Results	antibiotic impregnated cemen	The patient underwent bone biopsies on the tibia, talus and fibula, along with debridement of infected bone and insertion of antibiotic impregnated cement. All biopsies were negative for aerobic growth. Patient's tibia and talus anaerobic bone cultures returned positive for Prevotella Oralis.						
Discussions	humans. Prevotella species os Oralis has been reported. Infe fluoroquinolones, due to an in	P. Oralis, previously referred to as Bacteroides oralis, is a gram negative anaerobic bacteria that is native to the oral flora in humans. Prevotella species osteomyelitis have been found in in the vertebral spine and humerus, but only 1 case of P. Oralis has been reported. Infections by P. oralis have been suspected in patients taking either anabolic steroids or fluoroquinolones, due to an increased resistance in Bacteroides and Prevotella species to fluoroquinolones. We report the first known case of P. Oralis in ankle osteomyelitis.						
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Student Club Poster							
Classification	Wound Care/Infectious Diseas	ses						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01194				Ref ID CS-1194			
Title	Acute Compa	Acute Compartment Syndrome of the Pediatric Foot; A Case Report						
Submit Date	08/30/2023							
Correspondent	Last Name: Wa Full Name: Al Practice/Company	anna G. W	/ahl, DPM y Program:	Email: Advocate Cl	alanna.wahl@aah.org nrist Medical Center			
Authors			Vahl, DPM gesh, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Paul Martin, DPM			
Purpose					with very few well documented cases. This er acute compartment syndrome.			
Methodology								
Procedures	Our patient is a 15 year old female who presents immediately to Advocate Christ Medical Center after a bike vs auto accident. Her podiatric exam revealed extremely edematous and tense right foot with diffuse ecchymosis and superficial skin necrosis at the dorsal midfoot. Dorsalis Pedis pulse was diminished and capillary fill time prolonged with pallor noted from the digits to midfoot. Patient's sensation was intact to the digits. She had diminished motor function of the right foot. There was significant pain, and foot compartments were very tense. Intracompartmental pressures were measured in the ED, which measured 70 in the medial compartment and 71 in the central compartment. Additionally, the patient had a Lisfranc injury noted on X-ray in the ED. Emergent fasciotomies were performed in the operating room. Patient had immediately regained a strong DP pulse and motor function. Two weeks later, the patient ORIF Lisfranc, and biologic skin grafts were applied to fasciotomy sites.							
Results	At one year follow function without c			asciotomy sites	healed uneventfully, and patient is at full			
Discussions					diatric literature. A high clinical suspicion and ction and prevent long term complications.			
Format	Case Study							
Case Rpt Followup	14							
Student Club	Not a Student Clul	o Poster						
Classification	Trauma							
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01197			Ref ID CS-1197				
Title		Surgical Management of Sural Neuritis: Sural Neurectomy with Capping and Burial into Muscle a Case Report						
Submit Date	08/30/2023							
Correspondent	Last Name: Wanniaracho Full Name: Gayana, H, ' Practice/Company/Residenc	Wanniarachchi, DPM	Email: Katherine Sha	ghwanniarachchi@gmail.com w Bethea Hospital				
Authors	• • •	Wanniarachchi, DPM Gumbiner, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Dhruv, S, Patel, DPM				
Purpose		The purpose of this study is to highlight the surgical management of sural neuritis with the use of sural neurectomy with capping and burial into muscle.						
Methodology								
Procedures	provides sensory innervation injury from both traumatic of exhausting conservative trea Retrospective chart review of os trigonum. The patient	The sural nerve is derived from a communicating branch of both the tibial nerve and the common peroneal nerve that provides sensory innervation to the lateral aspect of the foot and leg. Based on its location, the sural nerve is prone to injury from both traumatic or iatrogenic etiologies. Sural neuritis can be a complicated pathology to treat, especially after exhausting conservative treatment including physical therapy, anti-inflammatories, and or use of oral nerve medications. Retrospective chart review was performed which revealed the patient sustained sural neuritis following surgery for removal of os trigonum. The patient failed conservative treatment of physical therapy and use of gabapentin and ultimately underwent sural neurectomy with capping and burial into muscle at Katherine Shaw Bethea Hospital.						
Results	During the 12 month follow sural neuritis.	up period the patient reported s	ignificant subje	ctive improvement with pain resulting from				
Discussions	conservative treatment. Surg	gical management of sural neuri	tis by performin	nd after traumatic incidents which often fails g a sural neurectomy with capping with a ption for treating this debilitating pathology.				
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Student Club Poster							
Classification	Rearfoot and Ankle Reconst	truction						
Level of Evidence	Level IV							
Authors/Financial Di	sclosures							
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Submission ID	05-01198			Ref ID CS-1198			
Title	A Rare Presentation of	A Rare Presentation of Accessory Soleus Muscle: A Case Study					
Submit Date	08/30/2023						
Correspondent	Last Name: Dourra						
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	Practice/Company/Residency	Program:	Corewell He	alth Hospital Wayne			
Authors	Author 1: Ali Dourra, DI	PM	Author 2:	Lawrence Fallat, DPM, FACFAS			
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	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	between the distal part of the t 0.7% to 5.6% of the general po	The accessory soleus muscle is a rare and unusual anatomic variant consisting of a soft-tissue mass herniating medially between the distal part of the tibia and the Achilles tendon. The incidence of this anatomic variation is estimated to occur in 0.7% to 5.6% of the general population. This study aims to investigate the clinical presentation and surgical management of a symptomatic accessory soleus muscle.					
Methodology							
Procedures	medial aspect of the left ankle was obtained which revealed a	. We present a case of a healthy 40-year-old male who initially presented with a painful, palpable soft tissue mass on the medial aspect of the left ankle and lower leg with associated tarsal tunnel syndrome. Magnetic resonance imaging (MRI) was obtained which revealed a large accessory soleus muscle located adjacent to the posterior tibial nerve. Due to the severity of the patient's symptoms, the patient elected to proceed with surgical intervention consisting of debulking of the muscle mass.					
Results	ankle, with no pain upon palpa	ation to the surgical site. Howe tibial nerve. Clinically, the lef	ever, the patien	x along the posterior medial aspect of the left t reported mild pain upon percussion of the e's motor function was within normal limits			
Discussions	In conclusion, our study present recognizing this anatomical variation of the statement of			eus muscle, emphasizing the importance of ndrome.			
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Biomechanics and Anatomy						
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
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Submission ID	05-01200 Ref ID C							
Title	with Tibi	Limb Preservation Utilizing Tibiotalar Calcaneal Fusion after Open Ankle Fracture with Tibial Osteomyelitis; A Case Report to Demonstrate Use in Non-Diabetic Patient Population						
Submit Date	08/30/2023	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Com	Leyk Madison, G, pany/Residenc	, Leyk, DPM 29 Program:	Email: Hennepin H	madison.leyk@hcmed.org ealthcare			
Authors	Author 1: Author 3: Author 5: Author 7:	Madison Le Michelle Wi	yk, DPM inder, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Kimberly Bobbitt, DPM FACFAS			
Purpose		Limb preservation commonly refers to an older, diabetic population. This case presentation will review limb preservation in a young male through external and internal fixation that was complicated by tibial osteomyelitis.						
Methodology								
Procedures	ankle valgus	A 28-year-old male with severe post-traumatic arthritis secondary to an open ankle fracture presented with a semi-rigid ankle valgus and suspected tibial osteomyelitis. The patient underwent multiple staged surgeries and obtained greater than 50% fusion of the ankle and subtalar joint utilizing external and internal fixation.						
Results	November 20 but removed	The patient initially underwent hardware removal, antibiotic spacer placement, and ankle arthroscopy with bone biopsies in November 2021, which confirmed tibial osteomyelitis. An external fixator was applied January 2022 for ankle joint fusion but removed July 2022 per patient request. He underwent TTC arthrodesis in August 2022 after negative repeat bone cultures with internal fixation and obtained & amp;gt;50% fusion seven months post-operatively.						
Discussions	Utilizing extended literature revision operative course	ernal and intern iew of rearfoot irses when corr	al fixation for fusion can ac fusion using external and ir npared to our current case re	hieve the desired r aternal fixation rev view. The literatur	g of the attending podiatric surgeon and patient. esult but is routinely met with complications. A ealed similar indications and complicated post- e described patients much older than our case ing from 5 months to 10 months.			
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Studen	t Club Poster						
Classification	Rearfoot and	Ankle Reconst	truction					
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01202					Ref ID CS-1202	
Title	Managen	Management of Unique Presentation of Charcot at the Interphalangeal Joint					
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Com	Redzematovic Kenan Redzen pany/Residency	natovic, DPM	Email: St. Mary's G	kenanredzema eneral Hospital	tovic@gmail.com	
Authors	Author 1: Author 3: Author 5: Author 7:	Kenan Redzen Rachel Gerber	natovic, DPM DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Henna Akbarz Michael Subik	ai, DPM , DPM, FACFAS	
Purpose	extremity. A s management.	Charcot neuroarthropathy is a destructive joint disorder commonly affecting the midfoot and rearfoot joints in the lower extremity. A Sanders and Frykberg Type 1 is an uncommon presentation with little evidence on proper operative management. This case report documents the clinical and operative course, as well as one year functional outcome involving a patient with charcot neuroarthropathy localized to the hallux interphalangeal joint (IPJ).					
Methodology							
Procedures	neuropathy p demineralizat failure of har threaded scre	A 64-year-old male with past medical history significant for hypertension, hyperlipidemia, type II diabetes mellitus and neuropathy presented with 4-year history of a wound to plantar left hallux IPJ. X-ray findings revealed bony demineralization and osteolytic changes to proximal and distal phalanx. Patient underwent IPJ arthrodesis twice due to failure of hardware after the index procedure. Procedure: Initial percutaneous fixation with 4.5mm and 2.0mm partially threaded screws. Revisional fixation with 4.0mm Steinmann pin and 2.4mm K-wire. Bone biopsies were negative for infection, and imaging supported the diagnosis of IPJ Charcot.					
Results	Successful fix operatively.	xation with steinr	mann pin and K-wire in this p	atient leading to	o plantigrade ulce	er free foot one-year post	
Discussions	improper fixa	tion and outlines	ent of Charcot at atypical loca s the postoperative course whe asing the risk of amputation in	en adequate fixa	tion is applied. V	Ve believe this research will	
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student	t Club Poster					
Classification	Forefoot Rec	onstruction					
Level of Evidence	Level III						
Authors/Financial D	isclosures						
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-01203			Ref ID CS-1203			
Title		rvative Management of ficit following Rupture		mpliant Patient with 11.0cm eview			
Submit Date	08/30/2023						
Correspondent	Last Name: Leyk Full Name: Madison, G, Practice/Company/Residenc	, Leyk, DPM 29 Program:	Email: Hennepin He	madison.leyk@hcmed.org ealthcare			
Authors	Author 1: Madison Le Author 3: Author 5: Author 7:	yk, DPM	Author 2: Author 4: Author 6: Author 8:	Kimberly Bobbitt, DPM FACFAS			
Purpose	Achilles tendon rupture management has continued to evolve in respect to conservative and surgical management. The literature describes improved outcomes with operative management of defects greater than 2-3cm. This case study will walk through the post-operative course of a non-complaint 39-year-old male pursuing conservative management with an 11.0cm Achilles Tendon defect.						
Methodology							
Procedures	A 39-year-old male underwent a V to Y myotendinous junction lengthening with an outside provider for an acute Achilles tendon rupture. The initial post-operative course was complicated by non-compliance resulting in incision dehiscence requiring a return to the operating room for delta frame application and Achilles tendon debridement leaving an 11.0 cm defect that has since been treated conservatively.						
Results				ratively. He comfortably wears his preferred vity at his one-year post-operative appointment.			
Discussions	functional goals. Current lite less than 2.0 cm were treated	Conservative versus operative management of an Achilles tendon rupture is driven by the size of the defect and the patients functional goals. Current literature of Achilles tendon ruptures describes reduced daily functional abilities when defects less than 2.0 cm were treated conservatively. There is a paucity of literature describing the outcomes of a major Achilles tendon defect reconstruction with a defect the size of the current case study.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconst	truction					
Level of Evidence	Level IV						
Authors/Financial D	visclosures						
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Submission ID	05-01205			Ref ID CS-1205		
Title	Vacuum Assisted Bone Marrow Curettage with Implantation of Antibiotic Bone Substitute for Treatment for Pathologic Tibial Fracture and Calcaneal Osteomyelitis in a Paraplegic					
Submit Date	08/30/2023					
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	Author 7:		Author 8:			
Purpose		viotic impregnated calcium sulfate a		ent of various bones in the lower extremities, sphate bone substitute allowing full preservation		
Methodology						
Procedures	A 55-year-old male with substance use disorder that presents with bilateral heel pressure wounds. The patient eventually developed adducto-varus due to his paraplegia. He went into septic shock and osteomyelitis of the calcaneus and tibia. In addition to antibiotic therapy, a vacuum assisted bone marrow curettage harvester was used to create a cortical window to perform "egg-shell" type debridement of underlying cancellous bone while taking care to preserve the cortical bone. The voids were back filled with vancomycin and tobramycin-impregnated calcium sulfate and calcium phosphate. After further antibiotic and advanced wound care with offloading, bilateral lower extremities subsequently healed.					
Results	Vacuum Assisted Bone Calcaneal Osteomyelitis		on of Antibiotic l	Bone Substitute for Treatment for Tibial and		
Discussions	cortical bone. This tech	ique can be particularly useful in t	he setting of ost	elitic cancellous bone while preserving the comyelitis and attempts at limb salvage. This paraplegic patient, thus decreasing the need for		
Format	Case Study					
<b>Case Rpt Followup</b>	23					
Student Club	Not a Student Club Post	er				
Classification	Wound Care/Infectious	Diseases				
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-01206 Ref ID CS							
Title		Endoscopic Decompression of Leg Compartments for Management of Exertional Compartment Syndrome						
Submit Date	08/30/2023							
Correspondent	Last Name: SINGH Full Name: Jaipal Singh Practice/Company/Residence		Email: Inspira Medi	jaipals@live.com cal Center				
Authors	Author 1:Benjamin MAuthor 3:Janki Patel,Author 5:Author 7:	larder, DPM, FACFAS DPM	Author 2: Author 4: Author 6: Author 8:	Jaipal Singh, DPM Anish Patel, DPM				
Purpose	compartmental pressures. The operative options are generat open fasciotomy is performed fasciotomy is a less invasive	Chronic exertional compartment syndrome is an activity induced condition which leads to significantly elevated intra- compartmental pressures. This increased pressure can lead to pain, reversible tissue ischemia, and numbness. Non- operative options are generally unsuccessful without significant activity modification. Traditionally, a subcutaneous or open fasciotomy is performed. However, these have drawbacks such as increased healing time and scarring. An endoscopic fasciotomy is a less invasive surgical option. This case study documents a 19-year-old female collegiate athlete who elected to undergo endoscopic fasciotomies for CECS of her bilateral legs.						
Methodology								
Procedures	She failed conservative care		ression of bilate	rtional compartment syndrome to bilateral legs. ral leg compartments. Procedure: Endoscopic legs.				
Results	Two successful endoscopic	fasciotomies of bilateral anterior	, lateral, deep p	osterior leg compartments				
Discussions	numbness, and cramping. Su continue to be highly active	Chronic exertional compartment syndrome should be considered in active patients who present with activity induced pain, numbness, and cramping. Surgical treatment is a superior option to conservative management in patients who want to continue to be highly active. This study documented a successful endoscopic fasciotomy in a 19-year-old female collegiate runner. She reported a significant reduction in symptoms after surgery and returned to full sport participation within two months.						
Format	Case Study							
Case Rpt Followup	13							
Student Club	Not a Student Club Poster							
Classification	Trauma							
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01207				Ref ID CS-1207			
Title		A Novel Approach with End-Stage Hallux Rigidus Choosing Function over Fusion with Hemi Implant						
Submit Date	08/30/2023							
Correspondent	Last Name: Full Name: Practice/Com	Garcia Michelle, A, G pany/Residency	,	Email: Kent Hos	michelle.garcia1029@gmail.com pital Residency			
Authors	Author 1: Author 3: Author 5: Author 7:	Michelle, A, G	arcia, DPM	Author 2: Author 4: Author 6: Author 8:				
Purpose	one's quality managed with considered th implants, it m pain. This cas	Hallux Rigidus is common degenerative arthritis of the first metatarsal phalangeal joint (MPJ) with debilitating effects on one's quality of life. Advanced stages of Hallux Rigidus determined by the Coghlin and Shurnas classification, are usually managed with the goal of surgery to alleviate pain rather than improve motion. First metatarsophalangeal joint fusion is considered the gold standard of treatment in patients with advanced stages. However, with the advancing technology of implants, it may be time to consider alternate first-line treatment in patients who want to preserve motion and alleviate pain. This case series documents several cases of advanced Hallux Rigidus that received pain relief while improving motion with a hemi implant as first-line treatment.						
Methodology								
Procedures					nas with a hemi implant of the metatarsal head. The eks, six months, and twelve months.			
Results		s with advanced with the hemi imp		l improvements in V	AS, AOFAS, and first metatarsophalangeal joint			
Discussions	Rigidus. How Rigidus unde Clinicians sho	First metatarsophalangeal joint fusion is considered the gold standard for treatment in patients with end-stage Hallux Rigidus. However, an arthrodesis compromises function for pain relief. In this study, three patients with advanced Hallux Rigidus underwent a metatarsal head hemi implant, with noted improvements in VAS score, AOFAS, and dorsiflexion. Clinicians should consider in some patients who would like to preserve their motion, hemi implants could be an optimal first-line treatment in the end-stage of Hallux Rigidus.						
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Student	t Club Poster						
Classification	Forefoot Rec	onstruction						
Level of Evidence	Level IV							
Authors/Financial I	Disclosures							
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Submission ID	05-01208			Ref ID CS-1208		
Title	Compartment Syndrome in a Patient with Streptococcal Necrotizing Fasciitis: A Case Report					
Submit Date	08/30/2023					
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Purpose	Compartment syndrome is a well-known severe condition that if left unattended can lead to compromised tissue perfusion and irreversible damage. As such, compartment syndrome requires swift clinical identification and decompressive surgical intervention. The purpose of the study is to raise clinical awareness to a rare presentation of compartment syndrome, thus reducing morbidity and mortality.					
Methodology						
Procedures	A 58 year old male with past medical history of hypertension presented to the emergency room two days after twisting his right ankle on a set of stairs. On presentation, the patient had severe 10/10 pain of the entire right lower limb. Initial laboratory findings revealed a WBC of 26.10, Na 133, Cr 4.1, AST 101, ALT 63, HbA1c 6.3, PT 30.7, INR 2.97, PTT 45.6, ESR 19. On physical examination, the patient had significant edema to the right lower limb, minimal range of motion to the digits, decreased sensation and decreased pulse compared to the contralateral limb. Utilizing a wicks catheter, first interspace was 77mmHg, fourth interspace was 48mmHg and lateral compartment was 68mmHg. Patient was then subsequently brought to the operating room for emergency fasciotomies.					
Results				discoloration The patient, unfortunately, coded monary emboli and subsequently was		
Discussions				tion with severe trauma; however, there are rare t caused by streptococcal necrotizing fasciitis		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Disea	ases				
Level of Evidence	Level IV					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-01210 Ref ID CS-12						
Title		Revision lateral ankle stabilization with synthetic elastic degradable matrix after prior failed suturetape fixation: midterm functional and radiographic outcomes					
Submit Date	08/31/2023						
Correspondent	Last Name: Lakhani Full Name: Rahim, R Practice/Company/Resid	, Lakhani DPM ency Program:	Email: Martin Foot	rlakhani327@gmail.com and Ankle			
Authors		afiq Lakhani Younes, DPM, MBA, FACFAS	Author 2: Author 4: Author 6: Author 8:	Chloe Sakow DPM, MPH Jennifer Mulhern, DPM, FACFAS			
Purpose	Research is limited when it comes to failed lateral ankle stabilization and viable surgical revisional options. Repair utilizing suturetape fixation can often fail due to overtightening, subsequently altering the normal integrity of the ligament complex and restricting the subtalar joint motion. Elastic degradable matrix is an absorbable biomaterial that allows normal anatomic contraction under tension while maintaining stability; this has not been studied as a revision option for initial overtightened suture tape repair.						
Methodology							
Procedures	suture tape fixation for la implementation of an ela	teral ankle stabilization. All three	cases then unde ively, patients w	f initial modified Brostrom ligament repair and rwent revisional modified Brostrom with ere non-weight bearing for 2 weeks followed by			
Results	Average radiographic anterior talar tilt, clinical anterior drawer and stress inversion exams were measured at initial preop, initial postop, revision preop, and revision postop. Post-revisional surgery at 2 weeks and 15 weeks all revealed within normal radiographic and clinical exam findings. Patients were fully weight-bearing and back to activity by 10 weeks after revision. All patients had 80% or greater reduction in pain at the 10 week mark compared to initial pre-op and initial postop evaluation.						
Discussions				ring fixation. Elastic degradable matrix is an for a more physiologic augmentation at normal			
Format	Case Study						
<b>Case Rpt Followup</b>	15						
Student Club	Not a Student Club Poste	r					
Classification	Rearfoot and Ankle Reco	onstruction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01211			Ref ID CS-1211			
Title	•	Synthetic elastic degradable matrix fixation for progressive deltoid insufficiency following flatfoot reconstruction					
Submit Date	08/31/2023						
Correspondent	Last Name: Lakhani Full Name: Rahim, I Practice/Company/Resid	R, Lakhani, DPM ency Program:	Email: Martin Foot a	rlakhani327@gmail.com nd Ankle			
Authors	,	R, Lakhani, DPM B, Younes, DPM, MBA, FACFAS	Author 2: Author 4: Author 6: Author 8:	Chloe, Sakow DPM, MPH Jennifer, Mulhern, DPM, FACFAS			
Purpose	In stage IV acquired flatfoot deformity, deltoid insufficiency and valgus talar tilt are frustrating outcomes following initial flatfoot reconstruction. Various deltoid reconstruction techniques have been described, including allograft and suturetape augmentation. Biomechanical studies show increased strain across the deltoid ligament at heel rise after triple arthrodesis. Synthetic elastic degradable matrix fixation with anatomic tensioning, along with reconstructive repair of the superficial and deep deltoid ligament insufficiency has not yet been studied as a viable surgical revision option.						
Methodology							
Procedures	talonavicular arthrodesis deltoid insufficiency. At	One case study examines a 65 year old morbidly obese (BMI=41), type 2 diabetic who underwent prior subtalar and talonavicular arthrodesis for a rigid flatfoot deformity and presented 3 years postop with medial ankle instability and deltoid insufficiency. At 4 years postop she underwent superficial and deep deltoid reconstruction and augmentation using synthetic elastic degradable matrix fixation. The spring ligament was not addressed during revision surgery.					
Results		Initial preop and postop talar tilt on AP and mortise radiographs measured 0 degrees, but at 3 years postop it measured 12 degrees of valgus. After deltoid reconstruction, the talar tilt measured 0 degrees at 1 week, 10 weeks, and 1 year follow up.					
Discussions	suture tape augmentation calcaneus at time of flat	Synthetic elastic degradable matrix fixation offers an absorbable, safe option with outcomes similar to literature reports of suture tape augmentation for deltoid insufficiency following flatfoot reconstruction. Consideration for medialization of the calcaneus at time of flatfoot reconstruction is essential to minimize stress across the deltoid complex, and can be considered an adjunct procedure at time of revision with deltoid augmentation and reconstruction.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Post	er					
Classification	Rearfoot and Ankle Rec	onstruction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01212			Ref ID CS-1212			
Title		Current evidence based recommendations on recurrent osteochondroma of the second metatarsal requiring staged resection					
Submit Date	08/31/2023						
Correspondent	Last Name: Lakha Full Name: Rahin Practice/Company/Re	n, R, Lakhani, DPM	Email: Martin Foot a	rlakhani327@gmail.com and Ankle			
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Purpose	estimates a 1-2% recu	Osteochondromas are slow growing benign bone tumors that rarely metastasize to chondrosarcomas. Current literature estimates a 1-2% recurrence rate after surgical resection over a 10 year period. Limited research exists to direct surgical planning for recurrent solitary osteochondromas.					
Methodology							
Procedures	numbness, and tinglin solitary osteochondro	One 27 year old male with an unremarkable past medical history presented to the office with generalized tenderness, numbness, and tingling to the second ray of the left foot. Initial diagnostic imaging (radiographs and MRI) identified a solitary osteochondroma, where initial partial second metatarsal resection surgery with biopsy was completed. A second radical resection of the second metatarsal was necessary after recurrence approximately five years later.					
Results	2017. Revision surger third digits. The resec	After evaluation by orthopedic oncology, the patient underwent partial resection at the stalk of the osteochondroma in 2017. Revision surgery involved radical resection of the left second metatarsal with syndactylization of the left second and third digits. The resected bone tumor measured 3.2x3.0x2.8 cm with confirmed negative proximal bone margins. The patient was followed for an additional 5 years with serial radiographs to confirm remission.					
Discussions	conversion to maligna recurrence. CT or MR	Recurrence of osteochondromas at the same site are attributed to poor initial surgical resection technique with possible conversion to malignancy. Marginal resection at the base of the stalk, including the cartilage cap is essential to prevent recurrence. CT or MRI assists with classification, grading, and staging. Wide surgical resection is the gold standard for secondary chondrosarcomas to prevent malignant transformation.					
Format	Case Study						
<b>Case Rpt Followup</b>	70						
Student Club	Not a Student Club Po	oster					
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01214				Ref ID CS-1214	
Title	Clinical e	vidence for a	a novel technique	e for failed dec	ompression of sural nerve	
Submit Date	08/30/2023					
Correspondent	Last Name: Full Name: Practice/Com	Khazi Junaid M Z Kh pany/Residency I	,	Email: Mercy Healt	jkhazi@mercy.com lh -St. Vincent Medical Center	
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Purpose	pain from a n technique pre distribution w	The objective of this case study is to present clinical evidence for reset neurectomy, a novel technique for patients with pain from a nontransection nerve injury. Much of this case study correlates with and reinforces the rational and surgical technique presented by Eberlin et.al. These nontransectional nerve injuries present in the form of pain and sensory distribution with preservation of function. Based on history and physical exam, a local anesthetic block is performed and with successful pain mitigation warrants surgery.				
Methodology						
Procedures	sural nerve de resulted in pa pharmacother affected nerve	Our retrospective study includes 3 patients who underwent sural nerve reset neurectomies after single or multiple failed sural nerve decompressive surgeries. Patients underwent local anesthetic block proximal to the zone of injury which resulted in pain relief that warranted surgery. All conservative treatments were exhausted like physical therapy and pharmacotherapy. Preoperative NCV tests were also performed to assess the extent of damage to the nerve. Surgically, affected nerve was resected 5 cm proximal to the zone of injury. Nerve matrix conduit were placed in 2 patients and 1 allograft between the nerve ends and epineurium was sutured to conduits for axonal growth				
Results		We compared pre and post-operative findings and noticed immediate relief post-surgically. Postoperatively overall patients reported 0/10 pain as their sensation is diminished but not gone and function is preserved.				
Discussions	at the nerve n	Patients were placed on multi-modal therapy including non-narcotic neuropathic pain medication to facilitate neurogenesis at the nerve matric conduit. These patients also worked with physical therapy to help with gait training, axonal regeneration, and overall improved range of motion.				
Format	Case Study					
Case Rpt Followup	15					
Student Club	Not a Student	Club Poster				
Classification		Peripheral Nerve	Disorders			
Level of Evidence	Level IV					
Authors/Financial D	Disclosures					
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Submission ID	05-01215			Ref ID CS-1215		
Title	The Rare Occurr	ence of Critical Limb Iso	hemia Cau	used by COVID-19		
Submit Date	08/30/2023					
Correspondent	Last Name: Syed Full Name: Naureen Practice/Company/Resid	Syed, DPM ency Program:	Email: Detroit Med	naureensyed3@gmail.com ical Center		
Authors		Syed, DPM bung, DPM	Author 2: Author 4: Author 6: Author 8:	Seth Wimbley, DPM Raed Al-Gharib, DPM		
Purpose	This case highlights the the Coronavirus disease		limb ischemia (	CLI) to a patient's bilateral feet after contracting		
Methodology						
Procedures	decreased its mortality of the spontaneous discolor cramping of bilateral fee underwent tPA thrombol	COVID-19 was the subject of the recent pandemic that began in 2019. Although vaccinations and respiratory therapy have decreased its mortality over time, there have been new symptoms that have been unaccounted for. One rare occurrence is the spontaneous discoloration and overall ischemic progression to the toes. 59 year old active male presents with painful cramping of bilateral feet after a recent diagnosis of COVID-19. He was confirmed to have aortoiliac thrombosis and underwent tPA thrombolysis with success. Repeat arterial studies showed multiphasic bilateral inflow with poor intrinsic feet circulation and overall no to patient's digits. Patient's feet started to quickly demarcate.				
Results	vacuum applications for	After medical clearance, the patient underwent bilateral transmetatarsal amputations and subsequent graft and wound vacuum applications for closure. The patient healed without complication and continues to remain pain free without recurrence of ischemia at the two-year follow up.				
Discussions	Patient had no active con complications of this vir thus leading to CLI. It is	In this case, a patient presented with bilateral painful feet secondary to CLI that began shortly after contracting COVID-19. Patient had no active comorbidities that would contribute to this sudden vascular insufficiency. One of the rising complications of this virus is hypercoagulability which may explain the occurrence of this patient's aortoiliac thrombosis thus leading to CLI. It is crucial to be aware of such unique symptoms that can potentially lead to limb loss as highlighted in this unique case of "COVID toes."				
Format	Case Study					
<b>Case Rpt Followup</b>	24					
Student Club	Not a Student Club Post	er				
Classification	Wound Care/Infectious	Diseases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01216 Ref ID CS-1			Ref ID CS-1216			
Title	New Age approach to	New Age approach to Charcot arthrodesis					
Submit Date	08/30/2023						
Correspondent	Last Name: Khazi Full Name: Junaid. M. Z. F Practice/Company/Residency	<i>,</i>	Email: Mercy Health	jkhazi@mercy.com - St. Vincent Medical Center			
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Purpose	the foot are affected leading to Standard surgical treatment for retrospective poster discusses on literature review and clinica ulcerations, and possible infect	Charcot neuroarthropathy is a debilitating and progressive disease in the setting of diabetes where the bones and joints of the foot are affected leading to the collapse of the midfoot, instability with gait, and possible ulceration to plantar midfoot. Standard surgical treatment for Charcot neuroarthropathy is an aggressive open surgical approach during correction. This retrospective poster discusses the benefits of minimally invasive Charcot reconstruction and addresses the hindfoot based on literature review and clinical evidence. Complications with open surgical approaches include delayed wound healing, ulcerations, and possible infection of the arthrodesis site compared to minimally invasive surgical technique to help minimize the incision site thus decreasing incision healing, vascular compromise and achieving arthrodesis at the orteotomy site.					
Methodology							
Procedures	first stage of the surgery includ external fixator. The external f	Our retrospective study includes 5 patients who underwent staged minimally invasive Charcot reconstructive surgery. The first stage of the surgery included minimally invasive preparation of Charcot joints and bones with the application of an external fixator. The external fixator was kept in place for approximately 12 weeks for consolidation of the arthrodesis site. Stage 2 of the surgery included the removal of external fixator and insertion of an intramedullary nail with and without beamine of the midfoot ioint.					
Results		We compared pre and post-radiographic findings and significant changes noted to the restoration of the midfoot, arch of the foot, calcaneal height, and Meary's angle.					
Discussions		We did encounter complications with 2 of our patients including one pin site infection and one heel ulcer due to the posterior splint, which required a soft tissue advancement flap to heal					
Format	Case Study						
Case Rpt Followup	14						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstru-	ction					
Level of Evidence	Level IV						
Authors/Financial D	Disclosures						
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Submission ID	05-01217					Ref ID CS-1217
Title		1	nce and Self-Negligen Complications	ice Leads 1	o Squamou	s Cell Carcinoma and
Submit Date	08/31/2023					
Correspondent	Last Name:	Mohiuddin				
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	Author 5:	Vincent Ng, M	ÍD	Author 6:		
	Author 7:			Author 8:		
Purpose	persistent bila	ateral foot and an	is Cell Carcinoma (SCC) in a I kle wounds leading to osteomy high-risk patients is a key con	yelitis. In addit	ion to early ider	tification and intervention,
Methodology						
Procedures	approximatel She eventuall osteomyelitis	29-year-old type 2 diabetic female admitted on multiple occasions for foot and ankle infections over a course of approximately four years. During her admissions, numerous encounters of non-compliance and leaving AMA were noted. She eventually underwent a Chopart's amputation for infection management and her intra operative cultures noted osteomyelitis of the calcaneus and squamous cell carcinoma of her non healing wound. Patient was referred to orthopedic oncology for further management.				
Results	completed to	Extensive physical examination revealed enlarged lymph nodes and PET CT confirmed localization of SCC. Left BKA was completed to ensure appropriate margins were obtained for both the OM and SCC. The decision to biopsy the left ankle proved to be a key step in identifying SCC.				
Discussions	at high risk fo Though early	Squamous cell carcinoma of the lower extremities is very rare. Social economic barriers and noncompliance place patients at high risk for metastatic changes. There is limited literature on the correlation between compliance and wound metastasis. Though early detection of the SCC was identified with biopsy, setting benchmarks to identify wound patients at high risk for readmission may help provide socioeconomic support in the outpatient setting.				
Format	Case Study					
<b>Case Rpt Followup</b>	53					
Student Club	Not a Student	Club Poster				
Classification	Diabetic Foot	:				
Level of Evidence	Level IV					
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Submission ID	05-01218 Ref ID CS-12					
Title		Total Ankle Arthroplasty with Lateral Ankle Ligament Reconstruction Using A Combined Percutaneous and Mini-Open Technique				
Submit Date	08/30/2023					
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Authors	Author 1:Joshua TyleAuthor 3:Lauren LikAuthor 5:Author 7:	er Smith ewise, DPM	Author 2: Author 4: Author 6: Author 8:	Ravneet Sandhu, DPM Todd M. Chappell, DPM FACFAS		
Purpose	Patients who undergo total ankle arthroplasty (TAA) frequently have lateral ankle instability that needs to be addressed during their arthroplasty procedure. The purpose of this study is to demonstrate the effectiveness of treating lateral ankle instability during TAA while utilizing a combined percutaneous and mini-open (CPMO) technique for lateral ankle ligament repair.					
Methodology						
Procedures	We reviewed 5 patients with pre-operative radiographs demonstrating intrinsic ankle varus and clinical instability who received TAA with lateral ankle stabilization placed at the time of implantation with minimum of 1 year follow up. All cases were performed by one surgeon using the same technique. Procedure: After TAA implantation, lateral ligament repair is performed utilizing a CPMO technique through a 2 cm incision at the anterior margin of the fibula. Subsequent anchor placement for anterior talofibular and calcaneofibular ligaments are repaired utilizing a percutaneous technique including the extensor retinaculum and retrieval of suture material through the initial incision with care taken to avoid all neurovascular structures. This is then augmented with a suture tape construct.					
Results	5 patients underwent TAA with CPMO lateral ligament repair and had clinical and symptomatic relief of instability without wound or nerve complications.					
Discussions	Patients undergoing TAA frequently demonstrate need for lateral ligament repair. Literature is sparse detailing what methods are used to perform lateral ligament repair in conjunction with TAA. Using a CPMO technique, lateral ankle ligament reconstruction was successfully performed on five patients with a minimum 12 month follow up. All patients reported clinical and symptomatic improvement of instability without wound or nerve complications.					
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recon	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01221 Ref ID CS-122						
Title	Early Ex	Early Experience with Lengthening Osteotomy of the Medial Malleolus in Ankle Varus					
Submit Date	08/30/2023						
Correspondent	Last Name: Full Name: Practice/Com	Sakkab Ramez S. Sa npany/Residenc	akkab, DPM, FACFAS zy Program:	Email: Phoenix Foo	rasakkab@gmail.com ot & Ankle Institute		
Authors	Author 1: Author 3: Author 5: Author 7:	Ramez S. Sa	ıkkab, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Jeffrey E. McAlister, DPM, FACFAS		
Purpose	Coronal plane ankle deformities were once considered contraindications for total ankle arthroplasty (TAA) in the treatment of ankle osteoarthritis. As total ankle implants and implantation techniques matured, indications for TAA grew. Currently, ankle deformities may receive arthroplasty if the deformity is properly corrected. There is no consensus on technique to correct preoperative varus deformity at the ankle joint level. The current series documents several cases of ankle varus corrected via medial malleolar lengthening (Doets) osteotomy.						
Methodology							
Procedures	Twelve paties exclusion crit		ho underwent medial malled	olar lengthening of	steotomy for ankle varus, 9 met inclusion and		
Results	Six patients underwent staged or simultaneous femoral head allograft medial malleolar lengthening osteotomy with TAA and ancillary procedures. Three underwent Doets osteotomy with tibiotalocalcaneal arthrodesis. A mean age of 61.3 years and mean body mass index of 31.2 (kg*m2) was observed. Not all osteotomies progressed to radiographic graft incorporation (6/9) at an average of 14 months post-operatively. All patients had improvement in function and radiographic alignment (p<0.01). No reoperations or major complications occurred.						
Discussions	Given the increasing rate of TAA for treatment of tibiotalar osteoarthritis, techniques for correction of pre-operative deformity need to be standardized. The present series demonstrates the power of medial malleolar lengthening osteotomy for rectifying varus malalignment with a center of rotation and angulation at the ankle. While promising, patients may need to be counseled that asymptomatic pseudoarthrosis is common (33%). Further research is needed regarding management of coronal plane deformities in ankle reconstruction.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Studen	t Club Poster					
Classification	Rearfoot and	Ankle Reconst	truction				
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01225 Ref ID CS-12			Ref ID CS-1225		
Title	<b>Delayed Presentatio</b>	Delayed Presentation of a Calcaneal Avulsion Fracture				
Submit Date	08/30/2023					
Correspondent	Last Name: Morlock					
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	Practice/Company/Residenc	y Program:	Banner North	Colorado Medical Center		
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	To demonstrate the challeng tissue.	ing nature of calcaneal avulsion	fractures with	an added difficulty due to compromised soft		
Methodology						
Procedures	fracture pattern with no othe	A patient that presented multiple days after sustaining a calcaneal fracture. Preoperative x-rays revealed a tongue type fracture pattern with no other acute osseous abnormalities. Physical exam findings included a significant amount of soft tissue necrosis with an open wound probing to the avulsed fracture fragment.				
Results	After two open reduction internal fixation procedures, an Achilles tendon repair, and hardware removal, the patient progressed to full bony consolidation across the fracture site. During the healing process, local wound care was required due to the compromised soft tissue. At follow up, no pain or tenderness was noted to the surgical site.					
Discussions	Tongue type fractures account for 1.3 to 2.7% of all calcaneal fractures and usually result from insufficiency of bone quality or a strong force of muscular contraction combined with a direct impact injury. These injuries pose a great risk for soft tissue compromise due to the pressure from the avulsed fracture fragment making it imperative to address this injury urgently. Despite the need for quick treatment planning, there is no gold standard of fixation for these types of injuries and can lead to complications during the healing process. Clinicians should be aware of the fixation options and the need for urgent attention to prevent compromised skin quality.					
Format	Case Study					
Case Rpt Followup	13					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconst	ruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01227	Ref ID CS-1227					
Title		Anatomical variation in the ankle and foot: incidental finding of peroneal longus insertion on fourth metatarsal on MRI					
Submit Date	08/30/2023						
Correspondent	Last Name:	Vo					
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	Practice/Com	pany/Residency Program:	Chino Valley	Medical Center			
Authors	Author 1:	Timothy L Vo, DPM	Author 2:				
	Author 3:		Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose		Is the foot and ankle instability due to a secondary slip of the peroneus longus located inferior to the cuboid and inserts on the fourth metatarsal base?					
Methodology							
Procedures		Peroneus longus main function is to produce the plantarflexion and eversion of the foot on the ankle joint. With its insertion being altered there is an imbalance in the foot and ankle during closed change kinetics.					
Results	longus having	The patient had right ankle pain with activity for over two months and had MRI which revealed findings of the peroneus longus having a secondary insertion to the fourth metatarsal base. No other clinical or imaging results correlated with the patient symptoms except for this incidental finding.					
Discussions	This incidental finding of anatomic variance could help explain the imbalance of forces in the foot and ankle which can be symptomatic in patients without other identifiable causes.						
Format	Case Study						
<b>Case Rpt Followup</b>	12	12					
Student Club	Not a Student Club Poster						
Classification	Biomechanics and Anatomy						
Level of Evidence	Level IV						
Authors/Financial Disclosures							
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Submission ID	05-01228		Ref ID CS-1228				
Title	Implication of Rare Group B Streptococcus NSTI on the Lower Extremity						
Submit Date	08/30/2023						
Correspondent	Last Name: Mulligan Full Name: Chloe Mullig Practice/Company/Residency		Email: Swedish Med	chloe.mulligan24@gmail.com lical Center - Cherry Hill Campus			
Authors	Author 1: Chloe Mullig Author 3: Author 5: Author 7:	gan, DPM	Author 2: Author 4: Author 6: Author 8:	Greg Grabowski, DPM			
Purpose	Group A Streptococcus is the most common pathogen which causes necrotizing soft tissue infections. In contrast, Group B Streptococcus is a rare form of NSTI. This case study showcases six patients with GBS NSTI. Not only was this rare cause of NSTI observed in this group of patients, but the unique clinical presentation and geographical proximity to one another raises concern for rapidly evolving necrotizing infections.						
Methodology							
Procedures	Six patients who presented with concern for NSTI were evaluated by the podiatry team. Six patients were diagnosed with NSTI, however with an atypical presentation including vascular compromise and rapid deterioration of soft tissue. Multiple specimens were collected to confirm GBS as the cause of all NSTIs. This is not well documented in literature, especially with vascular implication. GAS is primarily identified.						
Results	Five patients in this case study were transferred from the same outside hospital. All presented with a similar findings including multiple lower extremity vascular occlusions, despite not previously having any documented. Streptococcus agalactiae was identified via blood cultures and tissue specimens. This bacterium led to significant morbidity and mortality including one patient death, three BKAs, one TMA, and one successful limb salvage.						
Discussions	GBS is a rare cause of NSTI, however six patients were evaluated, all presenting with vascular destruction, rapid soft tissue necrosis, with significant morbidity and mortality. This presentation has not been well-documented in the literature and necessitates further investigation. The significance of 5 out of 6 patients from the same hospital presenting with the same pathogen also warrants further epidemiological insight.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Diseases						
Level of Evidence	Level IV						
Authors/Financial Disclosures							
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Submission ID	05-01229 Ref ID CS-1229					
Title	Tungiasis: A Parasit	ic Infection Rarely See	en in the Ui	nited States		
Submit Date	08/31/2023					
Correspondent	Last Name: Mulligan Full Name: Chloe Mullig Practice/Company/Residenc		Email: Swedish Mee	chloe.mulligan24@gmail.com lical Center - Cherry Hill Campus		
Authors	Author 1: Chloe Mullig Author 3: Author 5: Author 7:	gan, DPM	Author 2: Author 4: Author 6: Author 8:	Zach Laidley, DPM		
Purpose	Tungiasis, a skin infestation caused by the sandflea Tunga penetrans, is rarely encountered in the United States. It is important for clinicians to recognize this parasitic dermatosis in patients who have traveled to tropical, subtropical regions of the Caribbean, South America, and sub-Saharan Africa. The sandflea is known to burrow into the plantar aspect of the foot. Without prompt extraction and antibiotics, a bacterial super-infection will follow.					
Methodology						
Procedures	sandflea is endemic. It often This can lead to sepsis, disfig the rare presentation, diagno	Tungiasis is rarely documented in the United States. It affects those who live or have traveled to countries where this sandflea is endemic. It often presents on the plantar aspect of the foot, leading to a bacterial superinfection if not extracted. This can lead to sepsis, disfigurement, or mutilation of the feet if not properly treated (2022). This case study documents the rare presentation, diagnosis, and treatment of a 74 year old female with recent travel to Uganda who presented to the ED with a suspicious lesion to the plantar foot.				
Results	procedure documentation, m		ne are well-docu	tract the sandflea. Presentation, imaging, mented. Evidence of bacterial infection		
Discussions	effective treatment. It is cruc	Tungiasis is rarely seen in the United States, however clinicians must be aware of the presentation to ensure proper, effective treatment. It is crucial to perform a thorough history and physical exam, including travel history. Patients who are promptly treated with extraction, identification of parasite, and appropriate systemic treatment recover without persistent infection or deformity.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dise	ases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01230			Ref ID CS-1230			
Title	Hematogenous Spread of Osteomyelitis: A Rare Case Report						
Submit Date	08/31/2023						
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Authors		i Prasad, DPM, PGY II r Szalai, MS, PhD	Author 2: Author 4: Author 6: Author 8:	Atish Kumar, OMS II Sarah Mele, DPM			
Purpose	Hematogenous spread of osteomyelitis is most commonly found within the vertebrae or pelvis. Understanding the varying clinical presentations, diagnostic intricacies, and treatment approaches is pivotal for effective management and enhanced patient outcomes. This is a rare case where osteomyelitis resulted in the distal fibula of a patient with uncontrolled diabetes and no wounds.						
Methodology							
Procedures	presenting to the ED later revealed that pat	This rare case report is about a 47-year-old Male with a past medical history of poorly controlled T2DM (HgA1C 12.3%) presenting to the ED with progressive pain, redness, and swelling in his RIGHT lateral ankle for the past 2-3 weeks. It was later revealed that patient had osteomyelitis positive for S. aureus of his distal fibula; the likely source being hematogenous spread of unknown origin. He was eventually consented for an incision and drainage with a bone biopsy and wound vacuum placement.					
Results	fracture healed. An N	The patient subsequently suffered a fracture from the bone biopsy site and then needed to ambulate in a CAM boot until his fracture healed. An MRI was obtained to rule out whether the fracture was indeed pathological or if it was due to progressive osteomyelitis.					
Discussions	lesions. Although it is	This study aims to highlight a rare outcome of osteomyelitis of the distal fibular in a patient with no open wounds or lesions. Although it is not common to see hematogenous spread going to this bone, it is important to be aware that such cases exist and need to be in the differential diagnosis as a means to treat patients who may have uncontrolled diabetes or higher HbA1Cs.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club P	oster					
Classification	Wound Care/Infection	us Diseases					
Level of Evidence	Level IV						
Authors/Financial Di	isclosures						
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Submission ID	05-01231			Ref ID CS-1231				
Title	5 year follow up fo	5 year follow up for custom 3-D printed hemi talar arthroplasty						
Submit Date	08/31/2023							
Correspondent	Last Name: Shinabarga Full Name: Andrew B Practice/Company/Residen	Shinabarger DPM, MS, FACFAS	Email: Legacy Healt	ashinaba@]lhs.org h				
Authors		ninabarger DPM hlyer DPM	Author 2: Author 4: Author 6: Author 8:	Grant Schindler DPM				
Purpose	limited, however with the documents the longest foll	Large osteochondral defects of the talus in the young patient continues to be a challenging pathology. Overall options are limited, however with the emergence of additive printing of orthopedic implants new options exist. This case study documents the longest follow up to date in the literature, of a patient undergoing a custom 3-D printed Talar Hemiarthroplasty via a direct anterior approach.						
Methodology								
Procedures	•	25mm x 15mm x 9 mm Talar shou a direct anterior approach.	lder osteochone	dral defect underwent a custom 3-D printed				
Results	symmetric ankle range of	At 5 year follow up the prosthesis showed no signs of loosening or malalignment. Physical exam revealed equal and symmetric ankle range of motion compared to the contralateral extremity. She was back to all activities of daily living and recreational activities. At her 5 year follow up her AOFAS Ankle-Hindfoot score was 88.						
Discussions	traditional operative treatm cut blocks a new option ex technique is not without po 3-D printed hemi-talus arth	Large symptomatic talar OCD's in the younger patient population are rare and difficult to manage as outcomes of traditional operative treatment leaves much to be desired. With the advent of custom 3-D printed implants and CT guided cut blocks a new option exists. Traditionally this procedure was done with a medial malleolar osteotomy, however this technique is not without potential complications and damage to the distal tibia cartilage. This study presents that a custom 3-D printed hemi-talus arthroplasty through an anterior approach is a viable treatment option for osteochondritis dissecans with avecular necrosis (AVN) of the talus at a 5 year follow up.						
Format	Case Study							
<b>Case Rpt Followup</b>	60							
Student Club	Not a Student Club Poster							
Classification	Rearfoot and Ankle Recon	struction						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01234			Ref ID CS-1234			
Title		Post-operative Wound Management of Pseudomonas Infection Using Acetic Acid Treatment: Case Report					
Submit Date	08/31/2023						
Correspondent	Last Name: Lee Full Name: Hojin Practice/Company/Residen	cy Program:	Email: United Healt	hlee.dpm@gmail.com h Services			
Authors	Author 1: Hojin Lee, Author 3: Author 5: Author 7:	DPM	Author 2: Author 4: Author 6: Author 8:	Jennifer Sweet, DPM FACFAS			
Purpose	The purpose of this case report was to provide evidence of a distinctive case that can help manage post-operative wound management from Pseudomonas infection and should be included in post-operative wound treatment.						
Methodology							
Procedures	Acetic acid has low toxicity concentration between 0.5-	P.aeruginosa is one of the most common gram-negative infections and is difficult to treat due to antibiotic resistance. Acetic acid has low toxicity and is used as a bactericidal agent against Gram-positive and Gram-negative organisms at a concentration between 0.5-5% for 8 days, 10-20minutes per day. Acetic acid acts against P. aeruginosa by decreasing the pH level and creating an incompatible habitat for growth and reproduction.					
Results	necrosis and hypertrophic t	85-year-old male presented with an infected post-operatively wound over the dorsal right second and third rays with necrosis and hypertrophic tissue with signs of acute infection. The wound was managed with 5% acetic acid solution and improved remarkably in 7 days with healthy granulation tissue. There are no signs of recurrence of skin infection at the follow-up after over a year.					
Discussions	postoperatively if the surgio the multiple antibiotic resis minimal dressing supplies.	This case report demonstrates that while uncommonly reported, the incidence of Pseudomonas infection occurs postoperatively if the surgical site is not well managed. P. aeruginosa from the infection site is difficult to eliminate due to the multiple antibiotic resistance strains. Acetic acid treatment is inexpensive, non-toxic, and easy to maintain/manage, and minimal dressing supplies. The choice of utilizing acetic acid solution can be used as an alternate treatment option due to its effectiveness for post-operative Pseudomonas infection.					
Format	Case Study						
<b>Case Rpt Followup</b>	13						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Dis	eases					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01236 Ref ID CS-12								
Title	1	Intraoperative fluorescent angiography to assess vascular status in Podiatric trauma patients: a case report							
Submit Date	08/31/2023								
Correspondent	Last Name: Malik Full Name: Inshal Practice/Company/Resid	ency Program.	Email: Jersey Shore	inshal.malik@hmhn.org e University Medical Center					
Authors	Author 1: Inshal M	alik, PGY2 DPM Sullivan, DPM	Author 2: Author 4: Author 6: Author 8:	Tyler Verdoni, PGY3 DPM Chrisovalantis Lakhiani, MD					
Purpose	In this case report we present the use of intraoperative fluorescent angiography to assess viability of soft tissue and healing potential after a traumatic injury to the lower extremity. Open fractures pose challenges as they may require a multidisciplinary approach in order to achieve fixation of fractures and assessment of viability of soft tissue survivability and closure.								
Methodology									
Procedures	We present a 22 year old male who presented to the trauma bay with a degloving injury after being struck by a car to the left foot and sustained multiple open metatarsal fractures with tarsometatarsal instability. After using intraoperative fluorescent angiography, it was determined that digits 1-4 were not viable. He underwent stabilization of fractures with amputation of digits 1-4. He then underwent split thickness skin grafting with Plastic Surgery and achieved full healing and closure of wound over time.								
Results	indocyanine green (fluor	Fixation of metatarsal fractures with amputation of digits 1-4 after assessing intraoperative vascular status utilizing indocyanine green (fluorescence imaging dye). This was followed by a split thickness skin graft performed by plastic surgery and went on to completely heal							
Discussions	especially with extensive angiography proved to b	Traumatic injuries of the foot and ankle pose problems in regards to ultimate patient outcomes and healing potential, especially with extensive open injuries, the viability of the soft tissue remains a concern. Intraoperative fluorescence angiography proved to be beneficial in determining viability of the affected extremity after trauma to help direct appropriate care and operative planning in this case and may help guide treatment in similar cases that present to Level 1 trauma centers worldwide.							
Format	Case Study								
<b>Case Rpt Followup</b>	24								
Student Club	Not a Student Club Poste	er							
Classification	Trauma								
Level of Evidence	Level IV								
Authors/Financial E	Disclosures								
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Submission ID	05-01237			Ref ID CS-1237			
Title		Use of 3D Printed Spherical Tibiotalar Implant In A Case of Charcot Neuroarthropathy in a High-Risk Patient					
Submit Date	08/31/2023						
Correspondent	Last Name: Siddiqi Full Name: Anas Practice/Company/Resid	lency Program:	Email: Beaumont Way	anas.siddiqi@corewellhealth.org me			
Authors	Author 1: Lawrenc Author 3: Author 5: Author 7:	e Fallat, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:				
Purpose	surgery often being limb history of digital amputa	Charcot Neuroarthropathy is a debilitating condition which can result in significant morbidity for patients with the goals of surgery often being limb salvage. This can be further compounded in patients with significant comorbidities such as a history of digital amputations and chronic kidney disease. This case documents a novel technique for limb salvage in a patient with Charcot Neuroarthropathy with significant additional comorbidities.					
Methodology							
Procedures	A 56-year-old female patient with past medical history significant for diabetes mellitus, chronic kidney disease and history of transmetatarsal amputation presents with collapse of the talus, fragmentation of the calcaneus and complete destruction of the subtalar joint and a valgus foot structure with a history of repeated ulcerations. Patient underwent application of 3D custom printed, spherical tibiotalar implant with tibiotalocalcaneal arthrodesis and intramedullary nail fixation.						
Results	Rectus plantigrade foot	with no incident of repeat ulcerati	ons or progression	of amputations at 12 month follow up			
Discussions	infection. As is the case amputations and therefo to the extensive level of were not recommended.	Charcot neuroarthropathy is a deformity that can result in gross foot deformities, repeated ulcerations and can often lead to infection. As is the case with our patient, history of amputations puts these patients at very high risk of below knee amputations and therefore using the most effective surgical techniques available is imperative to preserving their limb. Due to the extensive level of comminution and disruption noted to the tibiotalar joint we believed traditional fixation options were not recommended. We therefore utilized a novel technique of using a custom spherical tibiotalar implant that was 3D printed using CT scans of the patient's contralateral limb.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Post	er					
Classification	Rearfoot and Ankle Rec	onstruction					
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
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Submission ID	05-01239			Ref ID CS-1239			
Title	A Case Series Examining the Use of Intraoperative Fluorescence Angiography to Assess and Optimize Peroneus Brevis Flaps in the Foot and Ankle.						
Submit Date	08/31/2023						
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Authors	Author 1: Coleman O. C Author 3: Author 5: Author 7:	Clougherty, DPM, MA	Author 2: Author 4: Author 6: Author 8:	Sarah E. Messina, DPM PGY-3			
Purpose				flaps performed with the use of intraoperative y (ICGFA), to assess perfusion.			
Methodology							
Procedures	ICGFA allows for evaluation of real time arterial blood flow intraoperatively with minimal risk to the patient, resulting in the ability for the surgeon to selectively debride non-viable muscle flaps prior to transposition. This technology has been around for more than 50 years1 and has been used extensively during breast reconstruction, treatment of burn, and microsurgical procedures to treat chronic lymphedema2, however it has not been extensively studied in use of lower extremity flaps. We look at five patients with an average age of 50.6 years old who underwent a peroneus brevis flap to cover an ankle wound. ICGFA was used to assess intraoperative perfusion of all of the flaps prior to transposition.						
Results		Four of the flaps were noted to have brisk perfusion and went on to heal successfully, while one flap was noted to have a dark tip with sluggish perfusion mid muscle and ended up as a failure, resulting in a BKA					
Discussions	There are multiple modalities that are currently utilized for preoperative flap planning including handheld doppler ultrasound, duplex ultrasonography, and CT angiography (CTA). ICGFAF is an underutilized intraoperative tool that can guide intraoperative decision making during transpositional muscle flaps. With more real time information in the operating room, surgeons can make more accurate decisions that ultimately have the potential to influence success rates of transpositional flaps.						
Format	Case Study						
<b>Case Rpt Followup</b>	16						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Disea	ses					
Level of Evidence	Level IV						
Authors/Financial D	Disclosures						
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Submission ID	05-01240	05-01240 Ref ID CS-1240						
Title	Double Ir	trinsic Muse	cle Flaps for Wound	Coverage:	A Case Report			
Submit Date	08/31/2023							
Correspondent	Last Name: Full Name:	Mansager Sarah Mansage	r, DPM	Email:	sarah.mansager@medstar.net			
	Practice/Com	pany/Residency F	Program:	MedStar Wa University H	shington Hospital Center/MedStar Georgetown Iospital			
Authors	Author 1:	Sarah Mansage	er, DPM	Author 2:	Tori Breitenbach, DPM			
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	Author 5:			Author 6:				
	Author 7:			Author 8:				
Purpose	simpler alterr	Local muscle flap reconstruction is a viable option for defects with exposed tendons, joints, or bone. It can provide a simpler alternative to free flaps or offer expedited coverage for stagnant non healing wounds. This study aims to illustrate a double intrinsic muscle flap advancement approach for coverage of a sinus tarsi ulceration.						
Methodology								
Procedures	and developn tissues. Repe tendons. Dou digitorum bre	60 year-old-female with history of calcaneus fracture treated with ORIF. Subsequent formation of surgical site dehiscence and development of a sinus tarsi wound. Underwent initial incision and drainage with exploration and debridement of tissues. Repeat surgical debridements performed until culture negative, ultimately leading to exposure of STJ and peroneal tendons. Double intrinsic muscle flaps deemed appropriate for complete coverage of the soft tissue defect. The extensor digitorum brevis muscle was elevated to its dominant pedicle, tunneled, and rotated 180 degrees. Harvesting of the abductor digiti minimi was also performed following the same technique.						
Results	ADM flaps p	At time of flap advancements, the ulcer measured approximately 3 x 3 cm with exposed bone, joint, and tendon. EBD and ADM flaps provided coverage of osseous and soft tissue structures within the base of the wound, adequately filling the depth of the defect. The local muscle flaps provided a scaffolding for complete healing by secondary intention.						
Discussions	amputation. I	ntrinsic muscle fla		or coverage of f	is coverage to avoid risks of infection or foot defects and should not be overlooked. The uction.			
Format	Case Study							
Case Rpt Followup	15							
Student Club	Not a Student	Club Poster						
Classification	Rearfoot and	Ankle Reconstruc	ction					
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01244 Ref ID CS							
Title	Excision with Gra Arthroscopy	Excision with Grafting of Periprosthetic Tibial Bone Cyst after Total Ankle Arthroscopy						
Submit Date	08/31/2023							
Correspondent	Last Name: Foster							
	Full Name: Melissa I	Foster, DPM, AACFAS	Email:	melfoster94@gmail.com				
	Practice/Company/Resid	ency Program:	Foot and An	kle Physicians of Ohio				
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	Author 3: Tiffany I	iu, DPM, FACFAS	Author 4:					
	Author 5:		Author 6:					
	Author 7:		Author 8:					
Purpose	The formation of periprosthetic bone cysts is a common radiographic finding after total ankle arthroplasty (TAA) that can contribute to subsidence, loosening, and failure. Management of these cysts is inconclusive throughout the literature and revisional TAA or arthrodesis is favored. This case study documents successful management of periprosthetic tibial cysts with excision and grafting.							
Methodology								
Procedures	computerized tomograph joint and distal tibiofibul after the TAA a CT scan	A 54-year-old male status post triple arthrodesis presented with ankle arthritis after failing conservative treatment. A computerized tomography (CT) scan showed severe degenerative changes at the level of the tibiotalar joint, talofibular joint and distal tibiofibular syndesmosis. The patient underwent a TAA with a three-piece mobile bearing implant. 4 years after the TAA a CT scan revealed periprosthetic tibial cysts with the largest measuring 3.5cm x 2.3cm x 2.5cm and no evidence of subsidence. The patient underwent cyst excision with backfill of injectable bone substitute and insertion of a 6.5mm screw.						
Results	tibial cyst excision/grafti	Post-operative imaging including radiographs at weeks 1, 2, 6, 12, 36, and 88 and CT scans at 3- and 21-months following tibial cyst excision/grafting showed no evidence of new cyst formation, subsidence, or implant failure. Patient remained asymptomatic at his 22 month follow up.						
Discussions	Management of periprosthetic cysts with excision and grafting has a varying failure rate in the literature, with Besse et al demonstrating a 92% failure rate. This case study demonstrated successful management of periprosthetic cysts with excision, grafting and screw insertion. Although the literature favors revisional TAA or arthrodesis for periprosthetic cysts, excision with grafting remains an alternative treatment option.							
Format	Case Study							
<b>Case Rpt Followup</b>	22							
Student Club	Not a Student Club Poste	er						
Classification	Rearfoot and Ankle Reco	onstruction						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01245			Ref ID CS-1245				
Title		A Multidisciplinary Treatment Collaboration to a Reconstructive Salvation Following Dramatic Degloving Injury of the Lower Extremity						
Submit Date	08/31/2023							
Correspondent	Last Name: McGowan Full Name: Ryan C Mc Practice/Company/Residen		Email: University H	mcgowary@uhnj.org ospital				
Authors	Author 1:Ryan C McAuthor 3:Yida Cai, NAuthor 5:Author 7:	Gowan, DPM 4D	Author 2: Author 4: Author 6: Author 8:	Keith Cook, DPM, FACFAS Edward Lee, MD				
Purpose	a complete degloving injur airplane. This case demons	The purpose of this study is to highlight a multidisciplinary approach to a salvation of the right leg. A healthy male suffered a complete degloving injury of his right foot extending above the ankle after being caught beneath a commercial passenger airplane. This case demonstrates how a collaboration with Podiatry and Plastic Surgery was able to successfully restore ambulatory function to a determined individual.						
Methodology								
Procedures	degloving injury. Skin of the neurovascular and full mot	A 34 year old male without significant medical history presented to University Hospital after sustaining a complete degloving injury. Skin of the right foot and ankle was entirely avulsed to more than 5 centimeters above the ankle with neurovascular and full motor function intact. Aside from a small fracture to the calcaneus, skeletal integrity was maintained. He was emergently taken to the operating room with Podiatry and Plastic Surgery to begin an intensive limb salvage effort.						
Results	assessment of the digits wa debridements with applicat	This patient returned to the OR twelve times over 21 months with Plastic Surgery and Podiatry services. Initial viability assessment of the digits was poor due to microvascular injury, so a transmetatarsal amputation was performed. After serial debridements with application of external fixation, an Anterolateral Thigh Flap with Vastus Lateralis transfer to the right foot was performed with sensory nerve repair. Today, this patient is fully ambulatory with ambition to return to work soon.						
Discussions		This patient was adamant about saving his leg while understanding the severity of his injury. Through a joint effort of services at a Level 1 Trauma Center, functional mobility was restored in an individual who suffered a tremendously unique injury.						
Format	Case Study							
<b>Case Rpt Followup</b>	21							
Student Club	Not a Student Club Poster							
Classification	Trauma							
Level of Evidence	Level IV							
Authors/Financial D								
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):				
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Submission ID	05-01246				Ref ID CS-1246			
Title	Metastat	Metastatic Talar and Tibia Ewings Sarcoma in an Elderly Patient						
Submit Date	08/31/2023							
Correspondent	Last Name:	Kennedy						
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	Practice/Con	npany/Resident	cy Program:	Kaiser San I Program	Francisco Bay Area Foot and Ankle Residency			
Authors	Author 1:	Matthew D	Kennedy, DPM	Author 2:	Francesca Castellucci-Garza, DPM			
	Author 3:	Sandeep B l	Patel, DPM	Author 4:				
	Author 5:			Author 6:				
	Author 7:			Author 8:				
Purpose	This case stu	dy aims to higl	hlight an incidence of metastat	ic Ewings sarcor	na in the talus and tibial of an elderly adult.			
Methodology								
Procedures	was given pr radiographs v and advanced bowels. Mus revealed stag multiple DV	3-year-old man with history of gout presented to the emergency department for acute gout flair to his ankle. The patient was given prednisone and fluids and observed overnight. In the morning, podiatry was consulted who recommended ankle radiographs which showed complete talar collapse concerning for Charcot vs infectious vs malignancy. Further work-up and advanced imagining showed metastatic disease to lungs, vertebral bodies, iliac crest, pancreas, peritoneum and small bowels. Musculoskeletal oncology was consulted who recommended biopsy of right ankle and right iliac bone which revealed stage IV Ewings sarcoma. The patient started palliative chemotherapy. The patient's course was complicated by multiple DVTs with diffuse pulmonary emboli which lead to worsening hypoxia. Patient elected for comfort care and succumbed 4 months after diagnosis.						
Results	Ewings sarce	oma of talus/tib	bia with metastatic spread to as	ial skeleton and	multiple organs.			
Discussions	prognosis for suggests that	Ewings sarcoma is a rare diagnosis in the elderly, and as such literature for Ewings in the elderly population is sparce. The prognosis for elderly patients who present with metastatic disease is very poor. The small pool of literature available also suggests that approximately half of elderly patients diagnosed already have metastatic disease. Prompt referral to multispecialty specialists is crucial for these patients.						
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Studen	t Club Poster						
Classification	Soft Tissue/T	umor						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01247	05-01247 Ref ID CS-1247						
Title	Sodium F	Sodium Fluorescein Guided Resection of Foot Schwannoma						
Submit Date	08/31/2023							
Correspondent	Last Name: Full Name: Practice/Com	Krishnappan Sharadha Krisl pany/Residency	hnappan, DPM Program:	Email: Loyola Univ	sharadhakrishnappan@gmail.com ersity Medical Center			
Authors	Author 1: Author 3: Author 5: Author 7:	Gianna M. Rui Joshua E. Simo Katherine E. D Sharadha Krisl	on, MD Dux, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Sandra Luu, DPM Vikram C. Prabhu, MD Rodney M. Stuck, DPM, FACFAS			
Purpose	peripheral ner promise in the	Schwannomas are benign, well-encapsulated tumors that originate from the myelin-producing cells of the central or peripheral nervous systems. Sodium fluorescein (SF), an intravenously administered passive fluorophore, has shown promise in the labeling and resection of tumors. This case study documents our experience with the surgical resection of a medial plantar nerve schwannoma using SF and discusses the benefits and limitations of this approach.						
Methodology								
Procedures					r lesion along the plantar aspect of the left foot. ted at the level of the calcaneal cuboid joint.			
Results	nanometer fil	Following administration of 500mg of SF intravenously, under intermittent use of white light and the Yellow-560 nanometer filter lens of the operating microscope, the soft tissue lesion was excised en bloc and identified as a schwannoma following histological analysis.						
Discussions	of the foot oc fluorescence	Approximately 10% of all peripheral nerve sheath tumors occur in the foot and ankle, while the incidence of schwannomas of the foot occurs in 3-4% of all cases. The use of the yellow-560 microscope lens illuminate tumors with a bright green fluorescence following SF administration, allowing the surgeon to distinguish the lesion from adjacent nerve fascicles, in concert with white light illumination. This case report demonstrates that using SF as a visualization adjunct in the gross total resection of a peripheral schwannoma is cost-effective, easy to administer, and non-toxic for use.						
Format	Case Study							
Case Rpt Followup	18							
Student Club	Not a Student	Club Poster						
Classification	Soft Tissue/T	umor						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01248				Ref ID CS-1248	
Title	Posttrau	Posttraumatic Tibia Avascular Necrosis Treated with Total Ankle Arthroplasty				
Submit Date	08/31/2023					
Correspondent	Last Name:	Kennedy				
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	Practice/Con	npany/Residend	cy Program:	Kaiser San I Program	Francisco Bay Area Foot and Ankle Residency	
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	Author 3:	Jack M. Sch	uberth, DPM, FACFAS	Author 4:		
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose		of this case stu ement (TAA).	dy is to outline treatment of til	oia avascular neo	crosis, due to rotational ankle fracture, with total	
Methodology						
Procedures	fracture was visit. At 29 w	56-year-old female with a tri-malleolar fracture dislocation with comminuted Weber C, in addition to a Maisonneuve fracture was treated with standard ankle ORIF. The patient's post-op course was uncomplicated at the 12-week post-op visit. At 29 weeks, the patient had continued medial ankle pain. Radiographs at that appointment showed valgus collapse of lateral tibial plafond. Advanced imaging demonstrated diffuse avascular necrosis (AVN) and collapse of the lateral tibial plafond.				
Results			e and avascular necrosis of late rthroplasty. At 20 months, pati		I was treated with a period of non-weight bearing o daily activities.	
Discussions	injury patterr treatment me Serial imagir	Avascular necrosis of distal tibial following ankle fractures is a rare but devastating complication. Given the rarity of this injury pattern there is a sparce literature and little treatment guidelines. We present this case as an example of a viable treatment methodology for AVN of the tibia. The patient was placed non-weight bearing to halt progression of collapse. Serial imaging was used to confirm cessation of collapse. Once stabilized, the patient went for the removal of necroic bone and total ankle replacement, with a stemmed implant to bridge the portion of sclerotic bone.				
Format	Case Study					
Case Rpt Followup	24					
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Recons	truction			
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-01251			Ref ID CS-1251		
Title		Functional Outcomes of Tibial Retrograde Subchondral Drilling with Bone Substitute Injection in Distal Tibial Osteochondral Lesions Over a 12-month Period				
Submit Date	08/31/2023					
Correspondent	Last Name: Vincent					
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	Author 5: Vincent Gal	lo DPM	Author 6:			
	Author 7:		Author 8:			
Purpose	Most options mimic talar le	sions including microfracture, cl	hondral resurfa	ent options are not well studied in literature. cing, or abrasion. We propose retrograde drilling e with respect to functional outcomes.		
Methodology						
Procedures	period, Patients were asked		surveys before	s, cysts, or stress reaction. Over a 12-month the procedure, at 3 months, 6 months, and 12		
Results	Significant improvement in	AFI, CAIT, and VAS scores at e	every time inter	val.		
Discussions	evaluated distal tibial osteod injection as a comparable tr	chondral lesions and we propose eatment modality for osteochond e offer distinct advantages. We sl	retrograde tibi dral lesions of t	cture or chondral resurfacing. In this study, we al subchondral drilling with bone substitute he distal tibia. Postoperative weight bearing as t success through validated patient outcome		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Arthroscopy					
Level of Evidence	Level II					
Authors/Financial D	isclosures					
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Submission ID	05-01252				Ref ID CS-1252	
Title	Large En	Large Endemic Kaposi's Sarcoma of the Plantar Arch: A Case Presentation				
Submit Date	08/31/2023					
Correspondent	Last Name:	Johnson				
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	Practice/Corr	npany/Residency Pro	ogram:	Corewell He	ealth Farmington Hills	
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	Author 7:	Mehtab Singh		Author 8:	Havish Poluru	
Purpose	We present a				n that is classified into four different subgroups. vith diabetes. The surgical course with	
Methodology						
Procedures	by podiatry a	nd oncology for a no	odular Kaposi's Sarcoma	in the right plan	NDS and multiple comorbidities was evaluated tar foot. The patient underwent surgical excision tive abscess and cellulitis requiring admission.	
Results		Although the patient had prolonged wound healing, he went on to heal successfully without recurrence of the lesion or diabetic foot complications for four years status post surgical excision.				
Discussions			h in conjunction with clo his challenging cohort.	se surveillance	and wound care are integral to ensuring	
Format	Case Study					
Case Rpt Followup	60					
Student Club	Not a Studen	t Club Poster				
Classification	Soft Tissue/T	umor				
Level of Evidence	Level III					
Authors/Financial I	Disclosures					
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Submission ID	05-01254 Ref ID CS-12						
Title	Induced Membrane	Induced Membrane Technique for a Septic Tarsometatarsal Joint: A Case Report					
Submit Date	08/31/2023						
Correspondent	Last Name: Lebada Full Name: Salem Practice/Company/Residend	cy Program:	Email: Adventist Hea	salemlebada@gmail.com Ith White Memorial			
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Purpose	cement spacer for several w replacing the spacer with bo the bone void. This techniq	The induced membrane technique is a staged surgery, which involves removal of the bone lesion, and replacing it with a cement spacer for several weeks, which then allows a vascularized membrane to form around it. The second stage involves replacing the spacer with bone graft; the vascularized membrane is believed to enhance incorporation of the bone graft into the bone void. This technique was initially described in the long bones of the leg, however, has since been repurposed for other areas of the body. This case report details the use of the induced membrane technique for limb salvage in a diabetic patient to treat a sentic first TMTL.					
Methodology							
Procedures	first metatarsal base. The pa cement, and application of a replacement of the cement s	Our patient presented to our hospital with a septic first TMTJ with associated osteomyelitis of the medial cuneiform and first metatarsal base. The patient was brought in for debridement, resection of infected bone, implantation of an antibiotic cement, and application of a wound vac. The patient was then brought back to the operating room two months later for replacement of the cement spacer with bone allograft and external fixation. She was then brought back for external fixation removal and application of a split thickness skin graft once the wound bed was granular and there was radiographic aridement of the two presents of operative for the split back.					
Results	Currently, our patient is am percutaneous pin site.	bulating without complications v	vith only a small	residual superficial wound from a			
Discussions	The authors believe that the with focal infection in the n		an excellent lim	b salvage procedure for appropriate candidates			
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01256 Ref ID CS-125					
Title		Continuous multimodal plantar monitoring using sensory insoles to effectively detect tissue changes associated with ankle trauma: a case report				
Submit Date	08/31/2023					
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Authors	Author 1: Brock A. La Author 3: Author 5: Author 7:	iden, DPM, ABPM, FAPWCA	Author 2: Author 4: Author 6: Author 8:			
Purpose	This case report examines a patient outfitted with sensory insoles to continuously monitor plantar pressure and temperature and detect the temperature changes associated with a fractured ankle fusion. Acute trauma following bone or joint fractures can result in areas of abnormal elevated pressure leading to an inflammatory response [1]. Multimodal monitoring aims to detect abnormal pressures and temperatures, as asymmetries can be indicative of inflammation or underlying tissue damage[2-4].					
Methodology						
Procedures	patient was provided with c collected was remotely more	custom sensory insoles to monito	r plantar pressure, temperature	an external fixation system. The , step-count, and daily use; data se, the nurse contacted the patient		
Results	who ultimately escalated th	erous data flags while wearing th he patient to be seen by the physic essment they had a broken talus l	cian. At the clinic visit, the pat			
Discussions	breaks or fractures in the fo	antar monitoring can detect acute bot can allow for early detection of vent additional complications and	of traumatic incidents and enco	ourage patients to be seen by their		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01260 Ref ID CS-				Ref ID CS-1260		
Title		Unusual Presentation of B-Lymphoblastic Lymphoma Involving the 5th Metatarsal: A Case Report					
Submit Date	08/31/2023						
Correspondent	Last Name:	Sehgal					
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	Author 3:	Jason, D, Po	ollard, DPM	Author 4:	Lee, J, Morse, MD		
	Author 5:			Author 6:			
	Author 7:			Author 8:			
Purpose	by uncontrolle	B-lymphoblastic lymphoma (BLL) is a hematopoietic stem cell neoplasm derived from B-progenitors. It is characterized by uncontrolled proliferation of abnormal, immature lymphocytes which leads to replacement of bone marrow elements and other lymphoid organs. This case study documents an unusual presentation of BLL involving the 5th metatarsal.					
Methodology							
Procedures	subacute 5th i new disuse os course of heal sclerotic appe	: A 47-year-old male presented with right midfoot pain in the absence of trauma. Initial radiographs consistent with a subacute 5th metatarsal base fracture. While the 5th metatarsal base fracture healed, 8 week follow up radiographs revealed new disuse osteopenia of the right midfoot despite the patient being WBAT in a post operative shoe. Due to the unusual course of healing, magnetic resonance imaging was obtained which revealed marked marked marked marked in the midfoot. Computerized tomography scan revealed subacute fractures along the midfoot. Ultimately, bone biopsy of 5th metatarsal confirmed diagnosis of B-lymphoblastic lymphoma.					
Results			ort revealed atypical monomor is of B-lymphoblastic lymphon		at were positive for B-cell molecular markers,		
Discussions	and fracture. I	In this case, th the importanc	ne patient had unresolved pain f	or three months	as a differential diagnosis of unexplained pain before a malignant cause was suspected. This nusculoskeletal abnormalities occur without any		
Format	Case Study						
<b>Case Rpt Followup</b>	13						
Student Club	Not a Student	Club Poster					
Classification	Soft Tissue/Te	umor					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01263		Ref ID CS-1263			
Title	Perioperative Man	Perioperative Management of Tendon Lacerations of the Anterior Leg Compartment				
Submit Date	08/31/2023					
Correspondent	Last Name: Peralta Full Name: Diego A. P Practice/Company/Residen		Email: daperalta21@gmail.com HCA Florida Westside Hospital (PMSR/RRA)			
Authors	Author 3: Diego A. Po	auhan, DPM eralta, DPM erman, DPM	Author 2:       Emma R. Kayal, DPM         Author 4:       Fahad Rahman, DPM         Author 6:       Author 8:			
Purpose	ischemic contractures and theel-cord contracture, and	Extremity trauma can lead to significant morbidity, specifically delayed diagnosis and repair of vasculature leading to ischemic contractures and untreated extensor tendon ruptures with sequelae of decreased ROM and strength, drop foot, heel-cord contracture, ankle osteoarthritis and pes planus. This case study documents evaluation and management of a case with complete laceration of the tendons of the anterior compartment of the leg and difficult hemostasis.				
Methodology						
Procedures		47F patient with no major PMHx presented to ED for ankle laceration with profuse bleeding, unable to weight-bear, and presynocopal symptoms. Evaluation revealed probe to ankle capsule, DPA and PTA palpable, inability to dorsiflex foot and ankle, sensation intact				
Results	Most recent follow-up reso restrictions, no pain	Most recent follow-up resolved neuropraxia, vascular intact, full-ROM, 5/5 extensor tendon strength, FWB without restrictions, no pain				
Discussions	were tied and tourniquet we tendons showed defect of 4	Hemostasis was achieved gradually, by Trendelenburg, manual pressure, and last calf tourniquet to 200mmHg. Lumens were tied and tourniquet was released in intervals of 20mmHg periodically to assess bleeding. MRI of EHL and TA tendons showed defect of 4.6 cm, EDL 4.9 cm, however end-to-end repair was achieved without use of tendon allograft. Prompt hemostasis, and reapproximation of acute tendon injury contributed to the excellent patient-reported outcome.				
Format	Case Study					
<b>Case Rpt Followup</b>	13					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01267					Ref ID CS-1267	
Title	Secondar Injury	Secondary Gonococcal Infection of Hematoma Following Closed Traumatic Foot Injury					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Lundie Lance 1pany/Residency I	Program:	Email: Detroit Med	lancelundie@g ical Center Det		
Authors	Author 1: Author 3: Author 5: Author 7:	Lance Lundie Raed Al Gharit	D, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Erik Kissel, D Razdum Ahme	·	
Purpose	•	•	eness to the possibility of a to prococcal infection. A secon		•		
Methodology							
Procedures	initial presen and drainage with removal	An unusual case of a patient presenting after a closed traumatic injury to her foot and found to have no osseous injury on initial presentation. Fourteen days later patient presented with a purulent bulla that grew N. Gonorrhea. An initial incision and drainage was performed with placement of ceftriaxone impregnated antibiotic beads. Repeat incision and drainage with removal of antibiotic beads and primary closure performed seven days later. At seven week follow-up in clinic wounds were epithelialized.					
Results	Gonococcal s	soft tissue infectio	n successfully treated with a	antibiotic beads	and fully healed a	t 7 weeks	
Discussions	a closed trau possibility of	Upon review of the literature there is no reported cases of a hematoma infected with gonorrhea. Our patient presented with a closed traumatic soft tissue injury without any open portal of entry and no osseous injury. This study suggests the possibility of a gonococcal infection producing transient bacteremia subsequently infecting a hematoma. We suggest appropriate management should include aggressive debridement with antibiotic bead placement.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Studen						
Classification		Wound Care/Infectious Diseases					
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-01269			Ref ID CS-1269			
Title	Candida Albican	Candida Albican Injection for Treatment of Plantar Wart A Case Study					
Submit Date	08/31/2023						
Correspondent	Last Name: Hasan						
-	Full Name: Taimur H	Iasan, DPM	Email:	thasan@geisinger.edu			
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	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose		Recently, more directed treatments have been proposed with better outcomes. This case study further highlights the positive outcome of Candida Albican intralesional injection when other traditional modalities failed					
Methodology							
Procedures	Estimated 0.84% Americ modalities exist today wi chief complaint typical o appearence. Area appear	ans infected with plantar wa ith minimal benefits. A 38-ye if plantar wart. Upon examin	rts and affects childre ar-old non-diabetic r ation, 1.2cm x 0.2cm pain from lateral pres	uted to HPV-1 with humans as primary reservoir. en and adolescents the most. Several treatment nale patient initially seen in May of 2017 with raised rough surface lesion noted with warty sure. Spongy pale center and punctate pinpoint			
Results		art. Patient felt significant rel		0f 0.2ml delivered intra-dermally directly at the swell as disappearance of Plantar wart and			
Discussions	positive outcome of Can conservative and surgica delivered intra-dermally	Recently, more directed treatments have been proposed with better outcomes. This case study further highlights the positive outcome of Candida Albican intralesional injection when other traditional modalities failed. After failing several conservative and surgical measures, patient then underwent a series of Candida Albican antigen injection of 0.2ml delivered intra-dermally directly at the site with three weeks apart. Patient felt significant relief from symptoms as well as disappearance of Plantar wart and returned to normal daily activities.					
Format	Case Study						
<b>Case Rpt Followup</b>	16						
Student Club	Not a Student Club Poste	er					
Classification	Wound Care/Infectious I	Wound Care/Infectious Diseases					
Level of Evidence	Level IV						
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Submission ID	05-01270 Ref ID CS				Ref ID CS-1270	
Title		Proposed Treatment Algorithm for Recurrent Peroneal Tendon Pathology Despite Previous Surgical Intervention with Example Case Study				
Submit Date	08/31/2023					
Correspondent	Last Name: Ley Full Name: Gabriella A. La Practice/Company/Residency l	•	Email: Regions Hosp	gabby.ley94@ bital/HealthPartn	-	
Authors	Author 1: Gabriella A. Le Author 3: Author 5: Author 7:	ey, DPM	Author 2: Author 4: Author 6: Author 8:	Troy J. Boffel	, DPM, FACFAS	
Purpose	previous surgical intervention.	Literature provides limited guidance regarding surgical revision options in cases of recurrent peroneal tendon tear despite previous surgical intervention. The goal of this case study is to present a proposed algorithm for the workup and surgical treatment of recurrent peroneal pathology.				
Methodology						
Procedures	subluxation/dislocation, and p peroneal disorders to avoid rec 72 year old female with history deformity. She was identified t along with peroneus brevis lon	Peroneal disorders can be simplified to 4 main categories including: tenosynovitis, tendon tears/ruptures, subluxation/dislocation, and painful os peroneum syndrome. It is vital to identify and address underlying causes of peroneal disorders to avoid reoccurrences such as anatomic anomalies, rearfoot deformities, and chronic ankle instability. A 72 year old female with history of previous surgical peroneus brevis repair presented with recurrent pain and persistent deformity. She was identified to have underlying pes cavus deformity, subtalar joint arthritis, and chronic ankle instability along with peroneus brevis longitudinal split tear. She underwent pes cavus reconstruction with STJ arthrodesis, lateral ankle ligament reconstruction and peroneal tendon transfer. Postoperatively patient has done well without reoccurrence of pain				
Results	Patient has been doing well in rectus alignment of the foot an			e of lateral ankle	pain. Exam demonstrates	
Discussions	prevention of reoccurrence. We be challenging to treat. This ca	When evaluating peroneal tendon pathology, it is important to identify the underlying cause for proper treatment and prevention of reoccurrence. Without proper treatment, reoccurrence of peroneal tendon pathology and subsequent tear can be challenging to treat. This case highlights the importance of addressing underlying cavus deformity and ankle instability in patients who present with recurrent peroneal pathology despite previous tendon repair.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstrue	ction				
Level of Evidence	Level IV					
Authors/Financial D	Disclosures					
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		Intellectual Property rights	owned		Investor ExoToe, LLC	

Submission ID	05-01273 Ref ID CS-12					
Title	Adult cutaneous IgA	Adult cutaneous IgA Vasculitis in the lower extremities				
Submit Date	08/31/2023					
Correspondent	Last Name: Schuler					
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	children and is relatively rare IgA vasculitis differ between a disease. With the presence of incidence of IgA vasculitis in	Immunoglobulin A vasculitis (IgA), previously called Henoch-Schönlein vasculitis was typically a disease that affects children and is relatively rare with an incidence of 0.8–2.2 per 100,000 person-years in adults. Presentation and course of IgA vasculitis differ between adults and children. Adults tend to have a higher frequency of persisting and relapsing disease. With the presence of IgA vasculitis in adults following novel drug administration and COVID-19 infection, the incidence of IgA vasculitis may increase. It is important for Podiatric physicians to be able to identify the lesions as it mostly affects the legs and buttocks.				
Methodology						
Procedures	years, presented to office with	chief complaint of red lesions	s on her toes an	olled with an Anti-TNF alpha inhibitor for 8 d lower extremities. A biopsy was done in the nt was able to start targeted therapy.		
Results	Patient's diagnosis was identif in fewer lesions and longer re-		cation and conf	ormational biopsy, allowing treatment, resulting		
Discussions				psing remitting course and prevent damage to be included in not only in pediatric populations		
Format	Case Study					
<b>Case Rpt Followup</b>	32					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial D	oisclosures					
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Submission ID	05-01275 Ref ID CS-127					
Title	Total Ankle Arthrop	Total Ankle Arthroplasty with Dwyer Osteotomy for Cavovarus Deformity				
Submit Date	08/31/2023					
Correspondent	Last Name: Arif Full Name: Amir, M, Ari Practice/Company/Residency	,	Email: Corewell He	amir.arif@corewellhealth.org alth - Trenton		
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Purpose	Characterized by an elevated distribution, gait abnormaliti for effective diagnosis, treatm	Cavovarus foot deformity, a complex structural anomaly of the foot, presents a distinctive challenge in orthopedic practice. Characterized by an elevated longitudinal arch and inversion of the hindfoot, this condition results in altered weight distribution, gait abnormalities, and pain. Understanding the multifaceted nature of cavovarus foot deformity is essential for effective diagnosis, treatment, and management, given its implications on mobility and quality of life. This study highlights surgical management of a cavovarus foot type with chronic ankle instability with a total ankle arthroplasty.				
Methodology						
Procedures	deformity, left ankle pain, an talofibular ligament (ATFL).	Patient is a 48-year-old male with a pertinent past medical history of obesity presenting with a pes cavovarus foot deformity, left ankle pain, and instability attributed to osteoarthritis, compounded by a chronic rupture of the left anterior talofibular ligament (ATFL). To address these concerns, a comprehensive surgical treatment approach was pursued encompassing a total ankle arthroplasty, direct repair of the left anterior talofibular ligament, and the implementation of a Dwver Oxteotomy procedure.				
Results	A rectus foot type was noted	with cessation of ankle pain an	d restoration of	f unrestricted physical activity.		
Discussions	mechanics, pain, and instabil patient's condition of cavova treatment approach was warr	Cavovarus foot deformity can significantly compromise an individual's mobility and quality of life due to altered gait mechanics, pain, and instability, potentially limiting their ability to engage in daily activities. Due to the severity of the patient's condition of cavovarus deformity in combination with chronic ATFL rupture and ankle instability, a multifaceted treatment approach was warranted. Ankle arthroplasty, ATFL repair, and calcaneal osteotomy were employed to achieve a functional, pain-free, and plantigrade foot alignment.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstr	uction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01278 Ref ID CS-12					
Title	Tenosynovial Giant (	Tenosynovial Giant Cell Tumor in the Foot				
Submit Date	08/31/2023					
Correspondent	Last Name: Thompson Full Name: Anna-Kay K. Practice/Company/Residency	Thompson, DPM, MS Program:	Email: Boston Univ	dr.annakaythompson@gmail.com ersity Medical Center		
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Purpose	they are rarely seen. Subtypes		nly a solitary n	issue tumors of the foot and ankle; however, odule around the digits, and the diffused type		
Methodology						
Procedures	mass from the dorsal third me with pigmented villonodular	41 year old male presented with painful mass on the dorsal aspect of the left foot. MRI confirmed 3.0 x 2.2 cm enhancing mass from the dorsal third metatarsophalangeal joint (MTPJ) with scalloping of the third MTPJ. Findings were consistent with pigmented villonodular synovitis (PVNS). The tumor was resected with affected bone and antibiotic spacer was placed. Negative margins achieved with second surgery.				
Results		Dt-TGCT was confirmed with Dt-TGCT. The histological features are noted with chondroid metaplasia and calcification ranging from "grungy" to focally lace-like and calcified chondroid mesenchymal neoplasms. MRI 3 months post-op showed no recurrence.				
Discussions	with osteochondral destruction current literature advocates and non-resectable tumors. In this	Dt-TGCT most commonly affects large joints but can occur in any foot region. This type is locally aggressive and painful, with osteochondral destruction with a recurrence rate of approximately 44%. Surgical excision is usually the gold standard; current literature advocates adjuvant therapy such as colony-stimulating factor-1 receptor antagonists for recurrent and non-resectable tumors. In this case, the Dt-TGCT affected the patient's 3rd MTPJ. Complete resection of the tumor was achieved with negative margins. Adjuvant therapy is indicated to lessen tumor recurrence due to its high recurrence rate.				
Format	Case Study					
<b>Case Rpt Followup</b>	13					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial D	oisclosures					
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Submission ID	05-01280			Ref ID CS-1280			
Title	Use of Adhesive Su Technique	Use of Adhesive Suture Retention Device for Delayed Primary Closure: An Innovative Technique					
Submit Date	08/31/2023						
Correspondent	Last Name: Patterson Full Name: Kristen, Pa Practice/Company/Residen	tterson, DPM, FACFAS icy Program:	Email: Hosey and M	Kpatte4@gmail.com urphy Foot and Ankle Centers			
Authors	Author 1: Kristen Pat Author 3: Author 5: Author 7:	terson, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Kayna Patel, DPM			
Purpose	The aim of this case series is to present the clinical results of a surgical technique utilizing an adhesive suture retention device for delayed primary closure of a surgical site. This technique allows skin closure to be performed in a clinical setting which eliminates return to the operating room for delayed closure and minimizes additional insult to the surgical site.						
Methodology							
Procedures	present two cases utilizing foot plantar fibroma excisio with delayed primary closu passed through the device a packing was removed and t	Challenges that come with delayed primary closure include increased healing time, reoperation, and risk of infections. We present two cases utilizing an adhesive retention suture device for delayed primary closure. Case one underwent bilateral foot plantar fibroma excision with delayed primary closure and case two underwent debridement of ulcer and bone biopsy with delayed primary closure. An adhesive device was placed on either side of the incision, thereafter 2-0 Nylon was passed through the device and the suture ends were left untied and secured down with steristrips. At three days postop, packing was removed and the suture ends were tied down reapproximating the skin edges without the use of local anesthetic or additional soft tissue insult. Within three weeks postop the sutures and device were removed.					
Results	Both cases responded favor	rably with complete healing of th	e incision site a	nd no major complications.			
Discussions	a surgical site mitigating re	The present case series assesses the successful utility of an adhesive retention suture device for delayed primary closure of a surgical site mitigating return to the operating room and allowing for decrease in soft tissue handling. We believe our results depict a cost effective innovative technique for delayed primary closure.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Diseases						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01283				Ref ID CS-1283		
Title	Primary S	Subtalar J	oint Arthrodesis a	s Treatment for	Pediatric Tarsal Coalition		
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Most Gary, J, Mo pany/Residend	st, DPM FACFAS cy Program:	Email: Foot & Ank	smiggant@kent.edu le Physicians of Geauga		
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Purpose	To support su	btalar joint art	hrodesis as primary treatment	nent option for pediat	ric tarsal coalitions.		
Methodology							
Procedures	month follow treated with p weight bearin months. Seve treatment opt definitive trea	A case series of 30 pediatric patients treated by a single surgeon at a single institution for talocalcaneal coalition with 12 month follow up. Pediatric patients with symptomatic tarsal coalition confirmed on CT scan were included. All were treated with primary subtalar joint arthrodesis with two screw fixation. Post operative protocol included 4 weeks non-weight bearing followed by progressive weight bearing over 4 week increments with an average return to activity of 3 months. Several studies in the current literature discuss excision of coalition with graft interposition as a preferred primary treatment option, however many of these patients go on to subtalar joint degeneration, ultimately requiring arthrodesis as definitive treatment. This paper argues that symptomatic tarsal coalitions in the pediatric population can be treated with primary subtalar joint arthrodesis with average return to activity being 3 months with minimal symptoms and no functional consecuence.					
Results	plain film x-r	30 pediatric patients with talocalcaneal coalition treated with subtalar joint arthrodesis with 100% fusion rate confirmed on plain film x-ray. All patients had full return to activity at 3 months with reported reduction in pain level and no reported functional limitations.					
Discussions					tion can be treated with primary subtalar joint mptoms and no functional consequence.		
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student	t Club Poster					
Classification	Rearfoot and	Ankle Recons	truction				
Level of Evidence	Level IV						
Authors/Financial Di	isclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01284 Ref ID CS-1284						
Title	Extramed	Extramedullary Fixation for Central Metatarsal Fractures					
Submit Date	08/31/2023	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Bernard Neil L Bern pany/Residend		Email: Mercy Healtl	neilbernard36@gmail.com h Regional Medical		
Authors	Author 1: Author 3: Author 5: Author 7:	Neil L Bern Brianna Lac James Conn		Author 2: Author 4: Author 6: Author 8:	Eyad Rasoul MS-3 Eric Beaujon DPM Mark Hardy DPM FACFAS		
Purpose	nature, genera reduction is n angle greater reduction pos	Metatarsal fractures are frequently encountered in lower extremity emergencies/trauma. Most of these fractures are acute in nature, generally resulting from crush injuries or direct trauma to the foot. In cases of significant displacement, surgical reduction is necessary. Surgical reduction is recommended with more than 3mm of displacement in the frontal plane, an angle greater than 10 degrees in the sagittal plane, or a disruption of the parabola. Typical operative techniques for reduction pose a unique challenge when the fracture pattern is transverse in nature especially in the central metatarsals. This case study looks at a new type of extramedullary fixation for central metatarsal fractures.					
Methodology							
Procedures	radiographs r	A 28-year-old patient underwent open reduction extramedullary fixation for metatarsal neck fractures. Preoperative radiographs revealed displaced transverse fracture of 3rd metatarsal and oblique displaced fracture 4th metatarsal. Easy anatomical reduction was obtained.					
Results	Excellent red	Excellent reduction and healing using extramedullary fixation at 1 year follow-up.					
Discussions	standard tech Intramedullar reduction. As for stability. 7	Given the limited anatomy of the lesser metatarsals, distal transverse fractures especially at the neck present without a standard technique for a predictable result. Clamp or temporary wire reduction can impair internal fixation options. Intramedullary wires alone provide initial stability but have the potential to require early removal as well as loss of reduction. As the fracture occurs more distally, the metatarsal head and neck typically hinders the placement of two screws for stability. This straightforward technique grants surgeons the benefits of extramedullary fixation without sacrificing the security of intramedullary K-wire placement to aid in fracture reduction.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student	t Club Poster					
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01285			Ref ID CS-1285				
Title	Unique Presenta	Unique Presentation of Hidradenoma						
Submit Date	08/31/2023							
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Purpose		A hidradenoma is mostly a benign, nodular tumor often described as an adnexal neoplasm. They can be subdivided from apocrine or ecerine origin. Hidradenomas are rarely discovered in extremities.						
Methodology								
Procedures	duration greater than on toe measuring 1.8x1.9 x images. Due to continue NeoGenomics Diagnost	We present a case study of a 32 year old male patient with a painful growth on the plantar surface of his second digit, with duration greater than one year. Preoperative MRI showed an ovoid, subcutaneous lesion on the plantar aspect of the second toe measuring 1.8x1.9 x1.4cm. The lesion is hyper-intense with focal areas of hypo-intensity on both T1 and T2 weighted images. Due to continued growth and worsening discomfort, the mass was surgically excised. A sample was sent to NeoGenomics Diagnostic Consult for external dermatopathology which reported a cystic lesion of upper dermis with no evidence of infiltration, tumor necrosis, increased mitotic activity, or nuclear pleomorphism to suggest a malignant tumor.						
Results		The entire mass was excised surgically with salvage of the 2nd digit and normal function maintained. The patient recovered well and has not had reoccurrence in the twelve months since surgery.						
Discussions	predominantly discover include acrospiroma, py can be atypical or malig	Identification of the tumor/growth was challenging, as hidradenomas are rare in lower extremities. Hidradenomas are predominantly discovered in women on the trunk, neck, or head, but can be found anywhere. Differential diagnosis might include acrospiroma, pyogenic granuloma, papillary adenocarcinoma, melanoma, or seborrheic keratosis. Hidradenomas can be atypical or malignant. The atypical hidradenomas are most worrisome for recurrence or malignancy potential. Surgical excision can be curative when resection has clean margins.						
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Student Club Post	er						
Classification	Soft Tissue/Tumor							
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-01286			Ref ID CS-1286			
Title	Osteochondroma of Arthrodesis	Osteochondroma of the Subtalar Joint: Posterolateral Approach to Resection and Arthrodesis					
Submit Date	08/31/2023						
Correspondent	Last Name: Tippett Full Name: Caroline Tij Practice/Company/Residene	ppett, DPM, AACFAS cy Program:	Email: University of	carolinetippett1@gmail.com Virginia Health			
Authors	Author 1:     Caroline Tip       Author 3:     Nate Almar       Author 5:     Author 7:		Author 2: Author 4: Author 6: Author 8:	Jennifer Wentz, DPM, AACFAS Jason Naldo, DPM, FACFAS			
Purpose	not describe surgical approa	Osteochondromas of the subtalar joint are rare, and the few reported cases in the literature are in pediatric patients and do not describe surgical approach to resection. Our purpose is to report an osteochondroma in a middle-aged female and the surgical approach to resection and arthrodesis of the subtalar joint.					
Methodology							
Procedures	A 55 year old female presented with pain of the posterior hindfoot, and a mass palpable deep to the achilles tendon. There was no history of trauma. She experienced pain with palpation of the mass, plantarflexion of the ankle joint, and range of motion of the subtalar joint. X-rays revealed a large osseous mass in Kager's triangle that communicated with the posterior subtalar joint with associated degenerative changes. MRI suggested a benign bone tumor. The patient was taken for bone tumor resection and subtalar joint arthrodesis through a posterolateral approach.						
Results		Pathology was consistent with osteochondroma. Clinical and radiographic arthrodesis of the subtalar joint. Patient reported reduction in pain and no recurrence at 17 months.					
Discussions	understand the risk factors a posterior approach to subtal never regarding a bone tum	While osteochondromas in the foot are rare, it is important for one to recognize the defining radiographic features, understand the risk factors associated with malignant transformation, and resection principles to prevent recurrence. The posterior approach to subtalar joint arthrodesis has been published regarding distraction and arthroscopic arthrodesis, but never regarding a bone tumor with associated degenerative arthritis. This approach allowed safe and adequate resection of the bone tumor and access to the subtalar joint through one incision without skin tension or violation of anatomic structures.					
Format	Case Study						
<b>Case Rpt Followup</b>	17						
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						
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Submission ID	05-01288 Ref ID CS-12					Ref ID CS-1288	
Title		Not Your Everyday Heel Pain: One Veteran's Bone Cyst Treated with a Novel Windowed Technique					
Submit Date	08/31/2023						
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	Practice/Com	pany/Residence	cy Program:	Mercy Healt	h Regional		
Authors	Author 1:	Trevor Norr	is, DPM	Author 2:	Bradley Wie	mken, DPM	
	Author 3:	Lauren Jone	es, DPM	Author 4:	James Conno	ors, DPM	
	Author 5:			Author 6:			
	Author 7:			Author 8:			
Purpose	most common treatment is s further discus	Bone cysts are benign fluid filled lesions that appear in about 3% of all primary tumors in the body. The calcaneus is the most common location of the foot and the sixth most common location within the entire body. Operative vs. Conservative treatment is still debated. Here we present a case of a 33 year old veteran presenting for not your everyday heel pain. We further discuss the management of his 3.3 x 3.4 x 2.5 cm lesion to the central anterior aspect of the right calcaneus measured and identified on advanced imaging.					
Methodology							
Procedures		Windowing technique of the lateral wall of the calcaneus via pre-drilled locking plate with curettage and autograft harvest from the distal tibia via a vacuum bone harvesting technique					
Results	Complete pai	Complete pain relief was achieved in this patient with return to activity with no restrictions					
Discussions	shown to pro- years. These differentiation helping the ev	Bone cysts have high recurrence rates up to 40%. When compared to other treatments, autogenous bone graft has been shown to provide a greater percentage of radiographic consolidation and over 80% success rate in pain reduction at three years. These lesions are often missed clinically and radiographically. It is important not only for appropriate detection, but differentiation from other suspicion lesions. Workups should include further advanced imaging. This case report focuses on helping the everyday podiatrist with workup, management, diagnosis, and presentation of a novel surgical technique for your not everyday heel pain.					
Format	Case Study						
Case Rpt Followup	36						
Student Club	Not a Student	t Club Poster					
Classification	Soft Tissue/T	umor					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01293 Ref ID CS-12					Ref ID CS-1293	
Title	Oblique Os	Oblique Osteotomy for Crossover Toe Correction					
Submit Date	08/31/2023						
Correspondent			PM-PGY-2 cy Program:	Email: Mercy Heal	tng@mercy.o		
Authors			PPM PGY-2 d, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Andrew Alds	stadt, DPM PGY-2	
Purpose			to retrospectively evaluate the ent of crossover toe.	ne radiographic ou	tcomes of an ob	lique distal lesser metatarsal	
Methodology							
Procedures	overriding 2nd to deformity. Radio	A case study was conducted on a patient presenting with 2nd toe and metatarsophalangeal joint pain with an associated overriding 2nd toe. Surgical intervention with an oblique distal metatarsal osteotomy was performed to correct the deformity. Radiographic analysis of pre operative and post operative imaging was done, comparing factors such as 2nd digit transverse plane deviation and 2nd metatarsal protrusion distance as measured through the Hardy and Clapham method.					
Results	protrusion distar oblique osteoton	In this case study, the patient presented with 2nd digit transverse plane deviation of 8 degrees and a 2nd metatarsal protrusion distance of 4mm pre operatively using the Hardy and Clapham method. Following surgical correction with an oblique osteotomy, the patient measured a 2nd digit transverse plane deviation of transverse plane deviation of 1 degree and a 2nd metatarsal protrusion distance of 2mm.					
Discussions	the medial capsu This has the effe fragment is shift	Angling the osteotomy in a distal lateral to proximal medial orientation the capital fragment shifts medially, lengthening the medial capsular soft issues. This has the effect of tightening the opposing side soft issues; in this case, the lateral side. This has the effect of pulling the second digit back into a more normal alignment upon the metatarsal head. The capital fragment is shifted in the direction the toe is deforming. We have seen great results with this osteotomy, both radiographically and through patient satisfaction.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Cl	ub Poster					
Classification		Forefoot Reconstruction					
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						
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Submission ID	05-01297				Ref ID CS-1297		
Title	Localized	Localized Adjacent Tissue Transfers in Chronic Wound Closures					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Chowdhury Farzana N. Cho 1pany/Residency F	•	Email: Morristown	farzana.chowdhury20@gmail.com Medical Center		
Authors	Author 1: Author 3: Author 5: Author 7:	Farzana N. Cho Raymond Lee,	•	Author 2: Author 4: Author 6: Author 8:	Norman Li, DPM		
Purpose	wound care, aggregate mo transfers can Flaps for Sof	Chronic plantar wounds are often seen in diabetics. Despite conservative treatment options such as offloading and standard wound care, many of these wounds fail to heal. Other methods employed include use of costly skin substitutes, which often aggregate moderate expenses with often unreliable results. Excision of diabetic wounds in conjunction with adjacent tissue transfers can be a viable option in treating chronic non healing wounds. According to an article published in "Use of Local Flaps for Soft-Tissue Closure in Diabetic Foot Wounds" found success in approximately 75.5% of the population. This case series documents multiple cases of adjacent tissue transfers for successful closure of chronic diabetic wounds.					
Methodology							
Procedures	adjacent tissu failure to clo criteria inclue	3 patients presenting with local standing plantar diabetic ulcerations undergoing complex closure of chronic wounds with adjacent tissue flap transfers. Inclusion criteria includes diabetic patients with chronic wounds (>6 month duration) and failure to close despite standard wound care (offloading, serial debridements, skin substitute applications). Exclusion criteria include wounds less than 6 month duration, nondiabetic patients, and patients with severe arterial compromise contraindicating surgical care.					
Results	All patients v	All patients with successful closure of ulcerations, no recurrence to date					
Discussions	wound care of characteristics wound care of the closure of characteristics of the characteristic of the charac	The chronic nature of diabetic plantar wounds can be exhaustive to both patients and the health care system. Standard wound care often fails to adequately resolve these chronic wounds, with resultant aggregation of costly treatments. Primary closure of chronic wounds through adjacent tissue transfers may potentially be a viable option to reduce the duration and cost of plantar diabetic foot wounds.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Studen	t Club Poster					
Classification	Wound Care/	Wound Care/Infectious Diseases					
Level of Evidence	Level IV						
Authors/Financial D	Disclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01298			Ref ID CS-1298			
Title		Surgical Technique and Augmen d with Bio-Inductive Scaffold G					
Submit Date	08/31/2023						
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	Practice/Con	npany/Residency Program:		Orthopedics and on/Phoenixville/Premier Orthopedics			
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	Author 3:	John E. Marshall IV, DPM, AACFAS Fellow,	Author 4:	Willman S. Pearcey, DPM, PGY-3			
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Return to full activity at a level pre-injury as expediently as possible should be the goal of any surgical repair. This case study follows a patient with chronic lateral ankle pain verified by MRI to have suffered from extensive tears to both peroneal tendons, and their early return to full activity after utilizing a novel repair technique and the incorporation of a Bio-inductive graft to reinforce repair.						
Methodology							
Procedures	and anti-infla	female presents with Peroneal tendon pain for ammatories with no relief. Patient underwent 1 e scaffold, implanted using a novel surgical te	repair and reinfo	iously treated with immobilization, bracing, PT, orcement of both peroneal tendons utilizing a			
Results		ned to activity with no restrictions at 3 months as for over 1 year.	s. The patient ha	as experienced no significant pain or			
Discussions	return to wei in many stud chronic pero	Chronic lateral ankle pain secondary to peroneal injury can be debilitating to patients with a decrease in activity. While return to weight bearing after surgical repair may occur in several weeks to a couple of months, return to pre-injury activity in many studies have been shown to be several months to over a year. We follow the course of a patient suffering from chronic peroneal pain, intraoperative findings, and surgical technique used to return the patient to full activity 3 months postoperatively with no self-reported pain.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Studen	at Club Poster					
Classification	Soft Tissue/1	Soft Tissue/Tumor					
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
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Submission ID	05-01299			Ref ID CS-1299			
Title	Efficacy of Partial Hallux Ulcers	Efficacy of Partial Plantar Fasciectomy for Treatment of Medial interphalangeal Hallux Ulcers					
Submit Date	08/31/2023						
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	Practice/Company/Residen	cy Program:	Morristown 1	Medical Center			
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	Author 3: Raymond I	.ee, DPM	Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	column. The factors that dr the plantar aspect of the fir interphalangeal joint. Cons procedures to reduce osseo	Medial Hallux interphalangeal ulcers are often associated with extrinsic overload from both the first MPJ and medial column. The factors that drive first metatarsophalangeal joint instability and hallux limitus contribute to increase load to the plantar aspect of the first interphalangeal joint, resulting in pressure wounds on the plantarmedial aspect of the first interphalangeal joint. Conservative treatments include forms of offloading, and surgical treatments include osseous procedures to reduce osseous prominences or to correct hallux limitus. This case series explores the efficacy of percutaneously performed partial plantar fasciectomy for treatment of the plantarmedial first interphalangeal ulcers.					
Methodology							
Procedures	5 patients undergoing perce failed conservative treatme		ny in the office	e setting are included in this study. All patients			
Results	5 plantarmedial hallux inter	5 plantarmedial hallux interphalangeal ulcers undergoing surgical intervention with a partial plantar fasciectomy.					
Discussions	adequately heal wounds. So patient comorbidities. A pe motion of the first metatars performed selective medial	Plantarmedial first interphalangeal ulcerations are often contributed by biomechanical factors that need to be addressed to adequately heal wounds. Surgical treatment options often include osseous procedures that may be complicated based on patient comorbidities. A percutaneously performed selective medial band fasciectomy functions to increase the range of motion of the first metatarsophalangeal joint, hence reducing overload to the first interphalangeal joint. Percutaneously performed selective medial band fasciotomies may be an effective procedure for adjunctive treatment of plantarmedial hallux interphalangeal joint ulcers.					
Format	Case Study						
<b>Case Rpt Followup</b>	24						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Dis	seases					
Level of Evidence	Level IV						
Authors/Financial D	visclosures						
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Submission ID	05-01302				Ref ID CS-1302	
Title	Efficacies of Intrinsic Muscle Flaps for Closure of Chronic Plantar Ulcers					
Submit Date	08/31/2023					
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	Practice/Company/Reside		cy Program:	Morristov	Morristown Medical Center	
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	Author 5:			Author 6		
	Author 7:			Author 8		
Purpose	Treatment of chronic diabetic foot wounds contribute to large portion of medical costs to the United States health care systems annually. In addition to their cost burdens, chronic diabetic foot wounds also pose a threat to amputations that imposes further patient morbidities and mortalities. Standard wound care such as offloading, negative pressure wound therapy, serial debridement, primary closures, and/or skin substitutes are sometimes inadequate in resolving chronic diabetic wounds. Use of intrinsic muscle flaps may serve to be useful adjuncts to closure of chronic diabetic wounds that failed to resolve through standard wound care. The purpose of this academic review is to re-evaluate the efficacies of intrinsic muscle flaps for closure of chronic plantar foot ulcers.					
Methodology						
Procedures	Multiple cases of Abductor Digiti Minimi muscle flaps and Flexor Digitorum Brevis muscle flaps for closure for chronic diabetic foot ulcers.					
Results	Closure of chronic diabetic foot ulcers via intrinsic muscle flaps, improvement in patient outcomes.					
Discussions	Standard wound care such as offloading, negative pressure wound therapy, serial debridement, primary closures, and/or skin substitutes are sometimes inadequate in resolving chronic diabetic foot wounds. Intrinsic muscle flaps are not as well documented as some of the more traditional approaches for coverage of diabetic foot defects. Intrinsic muscle flaps work to increase vascularity to wound recipient site and provide soft tissue coverage over exposed deep structures. Intrinsic muscle flaps may be useful as adjunctive treatment for chronic diabetic foot wounds.					
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Diseases					
Level of Evidence	Level IV					
Authors/Financial Disclosures						
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Submission ID	05-01303	05-01303			Ref ID CS-1303		
Title		Gastrocnemius Aponeurosis Recession versus Achilles tendon lengthening in Management of Neuropathic Forefoot Ulcers					
Submit Date	08/31/2023						
Correspondent	Last Name:	Chowdhury					
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Authors	Author 1: Author 3: Author 5: Author 7:	Farzana N. Ch Raymond Lee,	owdhury, DPM DPM	Author 2: Author 4: Author 6: Author 8:	Norman Li, DPM		
Purpose	Recession in 1 with several c Achilles lengt Achilles tendo recessions ma metatarsal hea Gastrocnemiu	Purpose of this study is to compare the effectiveness of Tendo-Achilles lengthening versus Gastrocnemius Aponeurosis Recession in the management of neuropathic forefoot ulcers. Forefoot ulcers are often contributed by hindfoot equinus with several options for equinus correction available. Most prevalently utilized being Gastrocnemius Recessions vs. Tendo- Achilles lengthening. Proponents for Gastrocnemius Recessions cite concerns for risk of iatrogenic tendon rupture in Achilles tendon lengthening, whereas proponents for Tendo-Achilles lengthening reports the concern that gastrocnemius recessions may not adequately address hindfoot equinus. This case study documents one patient with bilateral plantar first metatarsal head ulcerations contributed by hindfoot equinus who underwent Tendo-Achilles lengthening and Gastrocnemius Recession on opposing limbs. Both resulted in no recurrence of ulcerations and no complications of Achilles tendon rupture. Although, recurrent hyperkeratosis is noted on the side of Gastrocnemius Recession.					
Methodology							
Procedures	1 patient with	TAL and gastroo	enemius recession on eac	h lower extremity	for purpose.		
Results	No forefoot u	lcers recurrence,	recurrent hyperkeratotic	lesion on gastrocn	emius recession limb.		
Discussions	Forefoot neuropathic ulcers contributed by hindfoot equinus represent significant challenges especially in the diabetic population. This study provides a comparison of Gastrocnemius Aponeurosis Recession versus Tendo-Achilles lengthening in a single patient with bilateral plantar first metatarsal head ulcerations. Successful resolution of ulcerations was noted on both sides, however the Gastrocnemius Recession demonstrates recurrent hyperkeratosis at the previous ulceration. No rupturing of the achilles tendon lengthening occurred. Both gastrocnemius recession and Tendo-Achilles lengthening may be suitable choices for treatment of hindfoot equinus contributing to forefoot ulcerations.						
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student	Club Poster					
Classification	Wound Care/I	Infectious Diseas	es				
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
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Submission ID	05-01304 Ref ID CS-						
Title		A Novel Treatment for Surgical Treatment for Osteomyelitis: A Possible Alternative for Ray Resection					
Submit Date	08/31/2023						
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	Author 7:	Drake Lohnes, MS-III	Author 8:				
Purpose	infections. C	Osteomyelitis is one of the most common infections found in the foot, present in 50% of severe cases of chronic bone infections. Conservative amputation with attention to maintaining length and cortical integrity in an infected metatarsal is key to maintain biomechanical integrity.					
Methodology							
Procedures	Conservative surgical treatment of osteomyelitis is done to reduce loss of the body structures and avoid amputation. Bone removal can lead to structural instability and increase the risk of infection recurrence due to dead space. A 4-5 cm linear incision was made at the 4th MPJ moving proximally along the metatarsal shaft. A resection of the distal half of the metatarsal shaft including the head until bone integrity was noted was made. Length of the 4th metatarsal was the main priority. A power drill was sequentially drilled to ream the inside of the 4th metatarsal shaft until "chatter" was noted to create a canal for antibiotic bone cement and to clean the medullary bone of osteomyelitis.						
Results		This case study highlights an alternative with one year follow up without complication to standard amputation by detailing a unique surgical limb salvage approach for osteomyelitis treatment.					
Discussions	Postoperative radiographs demonstrate successful partial removal of the right fourth metatarsal with application of bone cement with no radiographic signs of osteomyelitis. No postoperative complications were observed. The outcome demonstrates that resection of the fourth metatarsal head with application of antibiotic bone cement is an appropriate and effective procedure for treatment of a patient who presents with osteomyelitis in conjunction with long standing type II diabetes mellitus.						
Format	Case Study						
Case Rpt Followup	13						
Student Club	Not a Studen	t Club Poster					
Classification	Diabetic Foo	t					
Level of Evidence	Level IV						
Authors/Financial Di		<b>D</b> . <b>1</b> (1) <b>1</b>					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			

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Submission ID	05-01306			Ref ID CS-1306			
Title		Postoperative Effects of Single-Dose Dalbavancin Infusion Following Partial Foot Amputations for Acute Diabetic Foot Infections: A Case Series					
Submit Date	08/31/2023						
Correspondent	Last Name: Hmady						
	Full Name: Marwa, Hn	nady, DPM	Email:	hmadymarwa@gmail.com			
	Practice/Company/Residen	cy Program:	McLaren Ma	icomb			
Authors	Author 1: Marwa, Hn	nady, DPM	Author 2:	Kristen Patterson, DPM, FACFAS			
	Author 3:	•	Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	amputations in acute diabe	This case series assesses the postoperative outcomes and benefits of single-dose Dalbavancin infusion after toe amputations in acute diabetic foot infections. Investigating wound healing, infection control, and recovery, the study contributes insights into Dalbavancin's potential as adjunctive therapy.					
Methodology							
Procedures		Four male diabetic patients underwent toe amputations. All received immediate Dalbavancin infusion, with progress tracked for wound healing, infection resolution, and recovery trends.					
Results		Timely wound healing occurred in all amputations without complications. One patient, due to peripheral arterial disease (PAD), required an above-knee amputation. This highlights distinguishing infection and vascular-related challenges.					
Discussions	This case series reveals positive outcomes from immediate Dalbavancin infusion post toe amputations in diabetic patients with acute foot infections. Wound healing after amputation was efficient without complications, supporting Dalbavancin's potential benefits. These findings align with timely antibiotic intervention's significance in mitigating diabetic foot infections. Diabetic foot infections, often stemming from neuropathy and vascular issues, pose complex clinical challenges. Our observations reaffirm prompt, targeted antibiotic therapy, exemplified by Dalbavancin, in halting infection progression and promoting optimal healing outcomes. The case of an above-knee amputation due to peripheral arterial disease (PAD) underscores the need to distinguish between infection and vascular-related complexities in diabetic foot management. This series contributes insights into Dalbavancin's potential benefits, underscoring comprehensive patient care encompassing infectious control and broader aspects.						
Format	Case Study						
Case Rpt Followup	14						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Dis	seases					
Level of Evidence	Level IV						
Authors/Financial D	lisclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01308				Ref ID CS-1308	
Title	The Surg	The Surgical Management of Turf Toe : A Case Report				
Submit Date	08/31/2023					
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	Practice/Com	pany/Residend	cy Program:	JFK Medica	l Center	
Authors	Author 1:	James Clane	cy DPM, FACFAS	Author 2:	Elizabeth Connolly DPM	
	Author 3:	Taylor Berg	strom DPM	Author 4:	Josh Joseph DPM	
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	secondary to complex supp	Turf toe is a frequent sports related injury that affects the first metatarsophalangeal joint. This condition typically occurs secondary to a hyperextension injury resulting in attenuation, strain, or complete disruption of the capsular ligamentous complex supporting the joint. Disruption of this complex can create instability, dysfunction, and deformity. There is a paucity of literature discussing the surgical treatment for grade 3 turf toe injuries.				
Methodology						
Procedures	Accurate diag	This case study presents the diagnosis, surgical treatment, and rehabilitation of a 36 year old female with a turf toe injury. Accurate diagnosis was obtained through the history, physical exam findings as well as MRI imaging. Surgical correction was achieved by using a three incision approach and application of suture buttons.				
Results		At one year the patient showed good clinical recovery after surgical intervention and rehabilitation. The purpose of this study was to discuss the diagnosis and describe the three incision surgical technique with suture button fixation.				
Discussions	intervention s outcomes is l	The vast majority of turf toe injuries are treated non operatively with good functional outcomes; however surgical intervention should be considered with grade three injuries and gross instability. Surgical techniques, fixation, and outcomes is lacking for this condition in the literature. This case study describes the successful clinical course following correction with a three incision technique and suture button fixation for turf toe.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Forefoot Rec	onstruction				
Level of Evidence	Level V					
Authors/Financial Di	sclosures					
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Josh Joseph DPM

Submission ID	05-01309					Ref ID CS-1309	
Title		Challenging the Odds: Aggressive Wound Care in Necrotizing Fasciitis for Successful Limb Preservation					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Comp	Moussa Natalie Moussa, pany/Residency Pro		Email: HCA Florida	nmoussadpm@ Hospital Aventur		
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Purpose	progress acros delivery and d patients face a	Necrotizing fasciitis affecting the lower limb encompasses a group of life-threatening soft tissue infections that rapidly progress across the fascia. While the mainstay treatment to address this severe infection includes intravenous antibiotic delivery and debridement, the incidence of amputation, even with proper treatment, can reach up to 22%. Moreover, these patients face an aggregated mortality rate as elevated as 34%. This particular case study centers around an instance of necrotizing fasciitis within a high-risk patient.					
Methodology							
Procedures	malodorous bl uncontrolled h arthrotomy, Bl care approach	A 46-year-old patient presented with bubbling, black crepitus tracking up the proximal leg with islands of mobile, malodorous blue tissue consistent with necrotizing fasciitis. This patient was medically complex, with a history of uncontrolled hypertension, diabetes, and congestive heart failure. After treatment with incision and drainage and ankle arthrotomy, BKA was recommended but refused by the patient. This decision prompted the adoption of an assertive wound care approach. Amnion grafts as well as TheraSkin grafts were used circumferentially, and a delayed antibiotic-covered TTC nail with external fixation was used to fuse his ankle secondary to his rigid dropfoot.					
Results	Following lon limb.	Following long-term wound care, the patient regained ambulation and preserved quality of life through the salvage of his limb.					
Discussions	patient's comp	Though necrotizing fasciitis is known to have a grave prognosis, the use of an aggressive wound care approach despite the patient's complex medical history led to optimal outcome. This case stands as a significant testament to the potential of aggressive wound care in achieving limb salvage in even the most challenging cases of necrotizing fasciitis.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student	Club Poster					
Classification	Wound Care/I	nfectious Diseases					
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-01312 Ref ID CS-1312						
Title	Role of calcanea	Role of calcaneal osteotomy in Midfoot Charcot Reconstruction					
Submit Date	08/31/2023						
Correspondent	Last Name: Giagna Full Name: Albert Practice/Company/Res		Email: A Company	lbertdpm@gm	ail.com		
Authors		Giagnacova DPM AACFAS y Mina DPM	Author 2: Ja Author 4: Author 6: Author 8:	ames Polowczy	rk DPM FACFAS		
Purpose	Bio-mechanical implications of recreating the horizontal and vertical arches of foot, by engaging the Windlass mechanism. Most often medializing the Achillies tendon the resulted in raising the medial column and align the Midfoot Charcot. We feel that alone EGR, Achillies lengthening, are not enough of longterm correction, and Achillies release caused Calcaneal wounds, gait issues. Ankle Mtpj Charcot patient were excluded.						
Methodology							
Procedures	Literature review is scant there is one mention in a popular non scientific Podiatry trade magazine, however there osteotomy was dorsiflexory not translational like our study. Mishko · 2022 ,mention a plantarflexory osteotomy. One article by Lahoti 2016 documented a Calcaneal osteotomy with long bone osteotomy.						
Results	review of 37 patients, show key Radiographic results particularity restoration on AP Meary's angle this technique started 7 years ago until one year ago. Metrics such as lack of revision rate. Successful outcome measures are complete healing of ulcer, clearance of infection without recurrence, a clinically plantigrade foot and the ability to use regular shoes or diabetic footwear, and ability quality of brace are also good metrics. We also look at Silfverskiold Test which all showed adequate long term dorsiflexed passed 10 degrees.						
Discussions	hardware issue, typical Approximately 20 perc	All patients remain stable, did not further break down, 2 patients develop ankle Charcot, We had 3 patients who has hardware issue, typically associated with neutralized plates. One patient develop active chronic osteomyelitis. Approximately 20 percent were placed in torch type walkers. All patient had accommodative diabetic shoes, with modifications. Restoring the naive horizontal and vertical arch may be the next step after properly addressing Equinus.					
Format	Case Study						
<b>Case Rpt Followup</b>	84						
Student Club	Not a Student Club Pos	ter					
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						
Full Name:	Email:	Disclosure(s) selected:		Γ	Disclosed Organisation(s):		
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Submission ID	05-01313				Ref ID CS-1313			
Title		Utilizing Abductor Digiti Minimi Muscle Flap for Heel Wound Coverage and Closure in Cases of Calcaneal Osteomyelitis: A Comprehensive Surgical Approach						
Submit Date	08/31/2023							
Correspondent	Last Name: Full Name: Practice/Com	Chowdhury Farzana N. Cho npany/Residency I	•	Email: Morristown	farzana.chowdhury20@gmail.com Medical Center			
Authors	Author 1: Author 3: Author 5: Author 7:	Farzana N. Cho Raymond Lee,	•	Author 2: Author 4: Author 6: Author 8:	Jasmine Hawkins, DPM			
Purpose	calcanectomi offloading; al	Heel wounds complicated with underlying osteomyelitis are often difficult to manage. Treatment options include calcanectomies, long term antibiotic therapies, negative-pressure wound therapies, skin substitutes, and methods of offloading; all with varying results. The purpose of this study is to evaluate the efficacy in treating heel wounds with underlying osteomyelitis with abductor digiti mini flaps.						
Methodology								
Procedures	3 patients uno	dergoing abductor	r digiti minimi muscle flaps f	for heel wound	coverage with calcaneal debridement.			
Results	Adequate clo	Adequate closure and healing of muscle flaps in calcaneal osteomyelitis with wounds.						
Discussions	Treatment op substitutes, au flaps as anoth	Diabetic heel wounds complicated with ostcomyelitis hold a higher rate of further amputations along the lower extremity. Treatment options include calcanectomies, long term antibiotic therapies, negative-pressure wound therapies, skin substitutes, and methods of offloading; all with varying results. This study serves to explore the use of intrinsic muscle flaps as another methodology for successful treatment of these wounds, and to include it as part of the comprehensive surgical approach towards caring for calcaneal wounds complicated by ostcomyelitis.						
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Studen	t Club Poster						
Classification	Diabetic Foo	t						
Level of Evidence	Level IV							
Authors/Financial I	Disclosures							
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01314 Ref ID Cs					
Title	Pediatric populatio		onstruction with Eva	ns and Ter	ndoachilles Z-plasty in the Arab	
Submit Date	08/31/2023					
Correspondent	Last Name:	Khalid				
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	Practice/Com	npany/Residency P	Program:	Beaumont T	renton	
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	Author 7:			Author 8:		
Purpose	demographic orthotics and rectifying the to compreher and commun surgical techn	Pediatric flatfoot poses distinctive complexities in its therapeutic and strategic handling, particularly within the adolescent demographic. The primary approach to managing pediatric deformities usually involves regulation through custom orthotics and physical rehabilitation. However, these interventions occasionally fall short of fully alleviating discomfort or rectifying the deformities. Within the Arab population, these challenges are particularly accentuated due to limited access to comprehensive healthcare services. Ineffective treatment can precipitate adverse consequences for both physiological and communal well-being, impeding the involvement of children in peer-related activities. This case series documents surgical techniques of pediatric flatfoot with successful rectification of deformities, mitigation of pain, and resumption of physical activities.				
Methodology						
Procedures	with pain and	decreased calcan		ed talar declina	ot reconstruction. 4 feet (13-17 year old) presents ation angle, and increased disarticulation of the v was performed.	
Results	Improved for	efoot to rearfoot a	lignment with resolution of J	pain and return	to activity.	
Discussions	effects especi to correct for position was	Pediatric flatfoot presents a unique challenge as failed non-surgical treatment can lead to detrimental social and health effects especially in the Arab population due to the scarcity of care. Patients underwent Evans lateral column lengthening to correct forefoot abduction, talar head uncovering, and recreation of the medial arch. Equinus contracture and heel position was corrected with tendo-Achilles Z-plasty. All patients followed the same post-operative protocol. Final x-rays exhibited improved rearfoot to forefoot alignment. All patients returned to full activity with elimination of pain.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Reconstruc	tion			
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01315 Ref ID CS-1						
Title		Primary Repair of the Tibialis Anterior Tendon Utilizing Semitendinosus Allograft and Suture Anchor					
Submit Date	08/31/2023						
Correspondent	Last Name:	Somma					
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	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Tibialis anterior tendon (TAT) rupture is a rare injury; few recent literature publications discuss operative techniques for repair. This case showcases the use of semitendinosus graft to repair the TAT and the use of a suture anchor to reinforce the insertion.						
Methodology							
Procedures	Recent literature describes EHL/EDL tendon transfer or tensioning autografts using suture buttons, but does not describe the technique of an autograft and endobutton. Complete TAT rupture as noted on MRI with >6.5cm retraction. The proximal stump was above the ankle, with sparse fibers at the insertion. A semitendinosus graft was used to bridge the stumps. Using the Arthrex Fibertak anchor, a hole was directed into the medial cuneiform. The graft was whipstitched, then directed through the suture anchor. The anchor was pulled through and deployed. The tendon was successfully re-routed through the medial cuneiform.						
Results	passive ROM	Sutures were removed once the incision healed. The patient experienced no wound complications. Patient transitioned from passive ROM exercises to active ROM and physical therapy over the course of 2 months. The resulting increased dorsiflexion was maintained at 1 year follow-up with no incidence of contracture/failure.					
Discussions	Our surgical technique utilizing both an allograft and a suture anchor has not been previously described in the current available literature. Our case aimed to bring more recent literature to the topic and also bring attention to the surgical technique utilized. The patient had excellent results, as dorsiflexion was maintained after 1 year with no evidence of contracture or failure.						
Format	Case Study						
Case Rpt Followup	16						
Student Club	Not a Studen	tt Club Poster					
Classification	Rearfoot and	Ankle Reconstruction					
Level of Evidence	Level IV						
Authors/Financial Di							
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Submission ID	05-01318 Ref ID CS-1318						
Title	A rare ca	se of tuberculosis in the foot					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Nguyen Thanh Thao T. Nguyen, DPM, MPH npany/Residency Program:	Email: BIDMC	tnguye37@bidmc.harvard.edu			
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Purpose		(TB) is a chronic, granulomatous diseas rculosis manifestation in the foot is exce		ffects the respiratory system. Extra-pulmonary			
Methodology							
Procedures	right dorsal th	hird metatarsal base ulcer. The foot ulce	r started as a <1 cm s	h a newly discovered destructive spinal mass and kin cyst that ruptured spontaneously, however, und care and trimethoprim/ sulfamethoxazole			
Results	3rd metatarsa resembling ca necrosis of be tuberculosis s bedaquiline, j	MRI scans were suggestive of infectious tenosynovitis of the third through fifth extensor tendons and osteomyelitis of the 3rd metatarsal. Subsequently, a biopsy was performed on the base of the right third metatarsal, with intraoperative findings resembling caseating granulomatous material. Pathological findings indicated granulomatous inflammation and localized necrosis of bone and soft tissues, consistent with tuberculosis. Intra-operative cultures unveiled Mycobacterium tuberculosis strain resistant to rifampin. Consequently, the patient's treatment regimen was broadened to include bedaquiline, pretomanid, linezolid, and moxifloxacin. This condition was also found to have spinal involvement, leading to partial motor loss of the left arm, necessitating spinal debridement with hardware fixation.					
Discussions	Skeletal TB involving the foot is exceedingly rare, leading to delays in both diagnosis and treatment. The differential diagnosis includes pyogenic osteomyelitis, sarcoma, sarcoidosis, Paget's disease and other granulomatous infections. Biopsy is performed to confirm the diagnosis. The treatment is specific antimicrobial therapy with surgical excision if necessary. Podiatrists should keep high suspicion for skeletal TB in any non-healing foot ulcers which are otherwise unexplained.						
Format	Case Study						
Case Rpt Followup	15						
Student Club	Not a Studen	t Club Poster					
Classification	Wound Care/	/Infectious Diseases					
Level of Evidence	Level IV						
Authors/Financial E	Disclosures						
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Submission ID	05-01319			Ref ID CS-1319			
Title	Novel tibial sesar complication	noidectomy closure tech	nique for p	revention of hallux abductovalgus			
Submit Date	08/31/2023						
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	Author 7:		Author 8:				
Purpose		The purpose of the present study is to describe a novel closure technique for tibial sesamoidectomy to minimize risk of hallux abductovalgus deformity following sesamoidectomy.					
Methodology							
Procedures	Tibial sesamoidectomy can be a powerful tool for the treatment of chronic sesamoiditis, however formation of hallux abductovalgus deformity is a well documented complication occurring in as many as 42% of patients. Prior studies have demonstrated that precise anatomic dissection can mitigate risk of deformity formation, however to our knowledge, no specific closure techniques have been described to date to minimize incidence of hallux abductovalgus deformity following tibial sesamoidectomy. In our technique the medial phalangeal-sesamoid ligament, medial metatarsal-sesamoid ligament and intersesamoid ligament are carefully identified, freed from the tibial sesamoid and anastomosed following sesamoid excision. The medial head of the FHB tendon is then sutured to this ligamentous structure. Capsule is then closed over this structure, followed by Subcutaneous tissue and skin. The hallux is then bandaged into a slight varus position with splintage bandaging techniques.						
Results		ts were functioning well with no re		ich resulted in 0 incidence of deformity no complications for a minimum of 1 year			
Discussions	sesamoidectomy. In our		in 4 patients, th	x abductovalgus deformity following tibial here were no instances of deformity following arger scientific study.			
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Pos	er					
Classification	Forefoot Reconstruction	1					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Khoa V. D. Nguyen, DPM,

PGY-1

05-01324			Ref ID CS-1324				
Treatment of Talar Series	Treatment of Talar Avascular Necrosis with Custom Total Talus Replacement: A Case Series						
08/31/2023							
•		Email: tylerr Lehigh Valley Health	nacrae0@gmail.com Network				
Author 1:Tyler M MAuthor 3:Author 5:Author 7:	acRae DPM	Author 2:StephAuthor 4:Author 6:Author 8:	en A Brigido DPM				
patient specific instrument	Three-dimensional metal additive manufacturing has become increasingly useful in orthopedic technology. Custom printed patient specific instrumentation (PSI) has led to novel treatment options in foot and ankle surgery. Custom total talus replacement may be a promising alternative to hindfoot fusion.						
favorable short-term result product compared to form prostheses show favorable	s. Recent advancements utilize ad er processes, with an elastic modu results at an average 58 months. T	ditive manufacturing, o lus closer to native bon Three patients diagnose	creating a biomechanically superior ie. Short term follow up on these id with AVN of the talus subsequently				
improved postoperative ra	Follow up for patients 1 and 2 were 50 and 53 months respectively. Both patients maintained radiographic alignment, improved postoperative range of motion, and improved VAS scores at final follow up. Patient 3 developed a deep infection with conversion to antibiotic cement spacer at month 8, now awaiting reimplantation once infection is eradicated.						
total talus replacement. At the procedure. Third gener	While early talar body prosthesis had largely poor outcomes, improvements in design and materials have shown promise in total talus replacement. At final follow up 2/3 patients in this case series were ambulating without pain and satisfied with the procedure. Third generation total talus replacements demonstrate a safe alternative to hindfoot fusion with low rates of complications in this case series.						
Case Study							
53							
Not a Student Club Poster							
Rearfoot and Ankle Recon	struction						
Level IV							
oisclosures							
Email:	Disclosure(s) selected:		Disclosed Organisation(s):				
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	Treatment of Talar         Series         08/31/2023         Last Name:       MacRae         Full Name:       Tyler M M         Practice/Company/Resider         Author 1:       Tyler M M         Author 3:       Author 7:         Three-dimensional metal a       patient specific instrument         replacement may be a proportion       Early talar body prosthesis         favorable short-term result       product compared to form         prostheses show favorable       treated with custom-printe         Follow up for patients 1 ar       improved postoperative ra         with conversion to antibio       While early talar body prototat alus replacement. At         the procedure. Third gener       complications in this case         Case Study       53         Not a Student Club Poster       Rearfoot and Ankle Recom         Level IV       tisclosures         Email:       tylermacrae0@gmail.com	Treatment of Talar Avascular Necrosis with Series         08/31/2023         Last Name:       MacRae         Full Name:       Tyler M MacRae DPM         Practice/Company/Residency Program:         Author 1:       Tyler M MacRae DPM         Author 1:       Tyler M MacRae DPM         Author 3:       Author 5:         Author 7:       Three-dimensional metal additive manufacturing has becompatient specific instrumentation (PSI) has led to novel treatmer replacement may be a promising alternative to hindfoot fusion favorable short-term results. Recent advancements utilize ad product compared to former processes, with an elastic modu prostheses show favorable results at an average 58 months. T treated with custom-printed total talus replacement were incl         Follow up for patients 1 and 2 were 50 and 53 months respecting proved postoperative range of motion, and improved VAS with conversion to antibiotic cement spacer at month 8, now         While early talar body prosthesis had largely poor outcomes, total talus replacement. At final follow up 2/3 patients in this the procedure. Third generation total talus replacements dem complications in this case series.         Case Study       53         Not a Student Club Poster       Rearfoot and Ankle Reconstruction         Level IV       Disclosure(s) selected:         tylermacrae0@gmail.com       I/We have nothing to disclose         drasbrigido@me.com       I/We have nothing to disclose	Treatment of Talar Avascular Necrosis with Custom Total 'Series         08/31/2023         Last Name:       MacRae         Full Name:       Tyler M MacRae DPM         Full Name:       Tyler M MacRae DPM         Practice/Company/Residency Program:       Lehigh Valley Health         Author 1:       Tyler M MacRae DPM       Author 2:       Steph         Author 3:       Author 4:       Author 7:       Author 6:         Author 7:       Author 8:       Three-dimensional metal additive manufacturing has become increasingly useful in patient specific instrumentation (PSI) has led to novel treatment options in foot and replacement may be a promising alternative to hindfoot fusion.         Early talar body prosthesis had poor results. Third generation talar prosthesis made favorable short-term results. Recent advancements utilize additive manufacturing, or product compared to former processes, with an elastic modulus closer to native bor or postheses show favorable results at an average 58 months. Three patients diagnose treated with custom-printed total talus replacement were included in this case series         Follow up for patients 1 and 2 were 50 and 53 months respectively. Both patients n improved postoperative range of motion, and improved VAS scores at final follow with conversion to antibiotic cement spacer at month 8, now awaiting reimplantatic         While early talar body prosthesis had largely poor outcomes, improvements in desi total talus replacement. At final follow up 2/3 patients in this case series were ambt the procedure. Third generation total talus replacements demonstr				

Submission ID	05-01325	Ref ID CS-1325					
Title		4th and 5th Intermetatarsal Base Coalition Resection and 5th Metatarsal Base Osteotomy with Screw Fixation					
Submit Date	08/31/2023						
Correspondent	Last Name: Adar	ns					
	Full Name: Adar		Email:	milesgreg32@gmail.com			
	Practice/Company/R	esidency Program:	Lovell FHC	C Residency Program			
Authors	Author 1: Alise	on Joseph, DPM	Author 2:	Richmond Robinson, DPM			
	Author 3: Mile	s Adams, PGY2	Author 4:				
	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Intermetatarsal coalition is rarely described, and it is almost certainly an underrecognized condition. This case study adds to the literature by presenting a 4th/5th intermetatarsal coalition, describing the imaging findings and surgical technique. Expeditious diagnosis of coalition for patients presenting with nonspecific midfoot/forefoot pain is important as this condition can be debilitating but treatable.						
Methodology							
Procedures	One patient underwe fixation.	ent 4th and 5th intermetatarsal coal	lition resection and t	5th metatarsal base osteotomy with screw			
Results		gle maintained post-operatively w ity levels in regular shoe gear.	ith maintained 5th n	netatarsal osteotomy. Patient is pain free, back to			
Discussions	Different treatments of isolated coalition have been reported and should be treated individually and according to patient symptoms. Resection of the bony bridge between 4/5 bases combined with a 5th metatarsal dorsal closing wedge osteotomy are the most common management in reported cases.						
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club I	Poster					
Classification	Forefoot Reconstruction						
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-01326				Ref ID CS-1326	
Title		Modified External Bunnell Suture repair for ruptured Achilles following post- operative infection				
Submit Date	08/31/2023					
Correspondent	Last Name: Hu					
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Authors	Author 1: Haoning	Hu	Author 2:	Alex Dang, I	DPM	
	•	kman, DPM	Author 4:	Paul Carroll,	DPM, FACFAS	
	Author 5: Rex Wei- Author 7:	Hung, MD, FACS	Author 6: Author 8:			
_						
Purpose		don with a modified external Bun c of infection with retained suture.		ique with a nor	n-absorbable monofilament	
Methodology						
Procedures	A 29-year-old with an unremarkable past medical history, sustained a left Achilles tendon injury while playing basketball. An MRI was ordered which demonstrated a complete rupture of the Achilles tendon. The patient underwent a primary end- to-end Achilles tendon repair. In subsequent follow-ups, areas of necrosis developed around the wound edges with erythema. After serial debridements, clean cultures were obtained, the remaining tendinous portions were repaired with the modified Bunnell technique.					
Results	At 12-month follow-up, patient is walking with a	he patient exhibited full range of r normal heel-to-toe gait.	notion and mus	cle strength in t	he left lower extremity. The	
Discussions	with reanastomosis or ter non-absorbable, monofil	A common complication of Achilles repair is wound dehiscence. These injuries require tendon debridement and resection with reanastomosis or tendon transfer to restore the function and mobility of the Achilles. Our study shows that the use of non-absorbable, monofilament externally placed sutures was effective in restoring the Achilles after surgical dehiscence without further infectious complications requiring additional surgery.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poste	r				
Classification	Rearfoot and Ankle Reco	nstruction				
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):	
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Paul Carroll, DPM, FACFAS	Paul.J.Carroll@medstar.ne	Consultant/Advisor/Speaker (	List all affiliati	ons)	Altrazeal	
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Submission ID	05-01327 Ref ID CS-1							
Title	<b>Robotic Assisted</b>	Robotic Assisted Midfoot Charcot Reconstruction						
Submit Date	08/31/2023							
Correspondent	Last Name: Dean Full Name: Hafsah I Practice/Company/Resid	Dean, DPM lency Program:	Email: Kaiser Sacra	hafsahdean@gmail.com Imento				
Authors		Dean, DPM arupia, DPM	Author 2: Author 4: Author 6: Author 8:	Ramez Sakkab, DPM, AACFAS				
Purpose	lower extremity. Early d severe deformities, surgi capacity to help provide goals with reconstruction	Charcot Arthrotomy is condition characterized by progressive joint and bony destruction in weight bearing areas of the lower extremity. Early diagnosis and intervention are crucial to preventing irreversible damage and limb salvage. With severe deformities, surgical intervention often utilized to help restore the foot alignment, stability and weight bearing capacity to help provide a functional plantigrade foot. Surgeons employ combinations of different techniques to reach these goals with reconstruction procedures in areas of compromised anatomy. This case report presents robotic assisted Charcot reconstruction in setting of severe Charcot foot deformity.						
Methodology								
Procedures	Charcot reconstruction p the robotic butt external positioning the midfoot	A 53-year-old male presented with Charcot foot deformity with midfoot dislocation. Patient underwent a two-staged Charcot reconstruction procedure using innovative technology, robotic computer assisted external fixator. The utilization of the robotic butt external fixator facilitated six-week period of controlled distraction and deformity correction, effectively positioning the midfoot for subsequent reconstruction. The reconstruction process involved fusing the rearfoot and midfoot, resulting in restored, plantigrade foot.						
Results	Successful Charcot reco	nstruction						
Discussions	considerations. The use time. Limitations to dyna utilizing robotic comput correction without the ri	Charcot reconstructions can be complicated and unique procedures that require careful planning and multiple considerations. The use of dynamic external fixator provides controlled movements leading to gradual correction over time. Limitations to dynamic external fixators including maintenance and patient compliance. New innovative technology utilizing robotic computer assisted dynamic correction with external fixator enables precise distraction and gradual correction without the risk of patient error. This technology can provide predictable planned correction and aid with reconstruction to help provide patients with Charcot deformity with biomechanically stable plantigrade foot.						
Format	Case Study							
Case Rpt Followup	12							
Student Club	Not a Student Club Post	er						
Classification	Rearfoot and Ankle Reco	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV							
Authors/Financial D	Disclosures Email:	Disclosure(s) selected:		Disclosed Organisation(s):				
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AACFAS Yaseer Parupia, DPM

Submission ID	05-01330			Ref ID CS-1330			
Title	Pediatric Hallu Report	Pediatric Hallux Varus Secondary to First Tarsometatarsal Joint Coalition: A Case Report					
Submit Date	08/31/2023						
Correspondent	Last Name: Schne Full Name: Hanna Practice/Company/Re	h R. Schneiders, DPM	Email: The Pediatri	hrschneiders@gmail.com c Orthopedic Center			
Authors		h Schneiders, DPM E. Solomon, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Joslin L. Seidel, DPM, AACFAS			
Purpose		We are reporting the following case of a patient with a first tarsometatarsal joint coalition which presented as painful hallux varus deformity necessitating surgery					
Methodology							
Procedures	hammertoe deformity, first metatarsal physis CT scan confirmed the confirmed an osseous hallux varus deformity release of the abducto	and restricted motion of the first r and an irregularity at the first tarso presence of the coalition. Conser coalition, which was resected. Thi remained. A medial capsulotomy	ay. Standard foot a cometatarsal joint, so vative management is improved the ran of the first metatar resulted in the ade	he patient exhibited hallux varus deformity, radiographs revealed asymmetric growth at the suggesting a synostosis or os intermetatarseum. at was ineffective. Intraoperative findings ge of motion of the affected joint. However, the rsophalangeal joint was performed followed by a quate realignment of the hallux varus deformity. the site of the coalition resection.			
Results	with cephalexin and lo		ter, he remains pa	being incision irritation which quickly resolved in-free with maintained correction and no			
Discussions	of kinematics and lead		ase highlights the	ns resulting in restricted motion causes alteration importance of surgical intervention when tion with associated deformities.			
Format	Case Study						
<b>Case Rpt Followup</b>	15						
Student Club	Not a Student Club Po	ster					
Classification	Biomechanics and An	atomy					
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-01331				Ref ID CS-1331	
Title	A Compr	ehensive Appi	roach to Medial Sw	ivel Disloc	ation - A Case Study	
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Moussa Natalie Moussa, pany/Residency Pro		Email: HCA Florid	nmoussadpm@gmail.com a Aventura Hospital	
Authors Purpose			DPM s as one of the lesser-known		Valentina Clinton, BS Patricia Toledo, BS btalar joint dislocations. This study delves into I at the emergency room after ejection from a	
	motor vehicle	e accident.				
Methodology						
Procedures	diffuse swell complexity o navicular and superior dislo required an in talus. An ope dislocation. A	The patient's presentation was marked by an open talar dislocation on the medial aspect of his left foot, accompanied by diffuse swelling and tenderness. Radiological assessments, comprising plain film X-rays and CT scans, unveiled the complexity of the injury. The dislocation involved not only the calcaneus and talus but also their relationship with the navicular and cuboid bones, signifying a midtarsal dislocation. Impressively, the forefoot exhibited a considerable 3.4 cm superior dislocation. Alongside this, a comminuted fracture of the lateral malleolus was evident. The patient's management required an immediate incision and drainage with an open reduction secondary to the open fracture and visibility of the talus. An open reduction was performed to regain the fibular length and the use of ligmanentotaxis to reduce the subtalar dislocation. Additionally, an external fixator was applied with percutaneous k wire fixation to stabilize the fractures and facilitate bone consolidation.				
Results	This approac	h resulted in regaine	ed ankle mobility without for	usion.		
Discussions	comprehensiv concurrent in	This case underlines the challenges associated with medial swivel dislocations and underscores the significance of a comprehensive treatment regimen for optimal outcomes. The rarity of this variant, coupled with the complexities of concurrent injuries, exemplifies the importance of sharing insights gained from its management to enhance clinical understanding and patient care.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
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Submission ID	05-01332 Ref ID CS-1332						
Title	Effectiveness Pro	Effectiveness Prolotherapy injections via ultrasound guidance for 1st MTPJ pathology					
Submit Date	08/31/2023						
Correspondent	Last Name: Giagnacc Full Name: Albert Practice/Company/Resid		Email: Lower Buck	Albertdpm@gmail.com s Hospital Podiatry Residency			
Authors	Author 1: Albert Gi Author 3: Daniel H Author 5: Author 7:	•	Author 2: Author 4: Author 6: Author 8:	Anthony Mina Lev Blekher			
Purpose		a role in all first metatarsal joint pa , ligaments ,and tendon injuries.	thology, has be	en fully investigate typically usage has include			
Methodology							
Procedures	management of lower lin pain: systematic review a	Hamilton did a landmark study for Achillies, LM Sanderson in 2015 look at safety of prolotherapy injections for management of lower limb tendinopathy and fasciopathy: a systematic review. Bae 2021 with chronic musculoskeletal pain: systematic review and meta-analysis but entire body. Ojofeitmi 2016 looks at dancer and 2nd mtpj pathology. Davidson · 2011 reviewed at guide interventions					
Results	compare utilized 17 patie All patients we used the to almost 5 months. The	Our study looks at 5 pathologies, hallux limitus, Adhesion of EHL, turf toe, sesamoiditis, and generalized pain. we compare utilized 17 patient with 3 cc of prolotherapy with 1 cc lidocaine versus control group 3 cc of lidocaine 19 patients. All patients we used the same ultrasound machine and thorough exam. Every patient had some periods of relief from 1 day to almost 5 months. The prolotherapy had longer period of relief. 11 patients went on to surgery no different between both group. 19 patients who failed meaning relieve were given orthotics. This limitation is small size but the length relief are powerful.					
Discussions	NA K exchange pump. T better than intraarticular Early conclusions anecdo	The role of prolotherapy has been described by has causing angiogenesis in senile inflammatory cell utilizing the action NA K exchange pump. The "lysising" of the cell intracellularity occurs as a result The 26 extraarticular group faired better than intraarticular group 12 respectively. We look at specific one joint which has some excellent clinical value . Early conclusions anecdotally the question posed "Patients would consider this as alternative to PRP, sterioids BMAC or others". Regardless guide injection provided more accuracy.					
Format	Case Study						
<b>Case Rpt Followup</b>	17						
Student Club	Not a Student Club Poste	r					
Classification	Physical Therapy/Rehabi	litation					
Level of Evidence	Level IV						
<b>Authors/Financial D</b>							
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Submission ID	05-01335 Ref ID CS-133					
Title	Novel low	v energy n	nechanism of injury in s	subtalar jo	int depression calcaneus fractures.	
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name:	Biscorner Brady N. B	iscorner, DPM, PGY-3	Email:	bbiscorner@gmail.com	
	Practice/Com	npany/Residen	cy Program:	Tower Healt Phoenixville	h Podiatric Medicine & Surgery Residency at Hospital	
Authors	Author 1: Author 3: Author 5: Author 7:		. Rementer, DPM, FACFAS nuel B. Cardino, DPM, PGY-1	Author 2: Author 4: Author 6: Author 8:	Brady N. Biscomer, DPM, PGY-3	
Purpose	The purpose fractures.	of the present	case study to propose a novel me	chanism of inj	ury in subtalar joint depression calcaneus	
Methodology						
Procedures	as the driving The present c depression ca foot with the	g force of injur ase series pre- dcaneal fractu	y. In these injuries the talus acts sents 3 patients with an identical res. All patients had a fall from a ntarflexed and inverted position.	to both sheer a low energy me low height, gr	essive forces typically with high energy impact nd compress the calcaneus at the subtalar joint, chanism of injury resulting in subtalar joint ound level or 1 step, landing with the injured ere significantly displaced necessitating open	
Results	that all patien loss of image one patient su	Three of the four included patients in the present study were initially misdiagnosed with ankle sprains. CT scan revealed that all patients had subtalar joint depression calcaneal fractures. One patient's fracture was not able to be classified due to loss of images. One patient suffered a Sanders Type 3 A B fracture and one patient suffered a Sanders Type 3 B C fracture. All fractures were treated operatively with open reduction internal fixation via lateral extensile approach with anatomic reduction of the posterior facet of the subtalar joint.				
Discussions			e first instance that plantarflexion stalar joint depression calcaneus f		with a low energy fall has been described as the	
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Studen	t Club Poster				
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial Dis	sclosures					
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Submission ID	05-01338	Ref ID CS-1338					
Title	Case Study: Bilateral Pantalar Arthrodesis for Severe Equinovarus Deformity Following Traumatic Abdominal Stab Wound						
Submit Date	08/31/2023						
Correspondent	Last Name: Delino						
	Full Name: Nicole-Gabrie Practice/Company/Residency	elle, S, Delino, DPM Program:	Email: Denver Healt	nicolegabrielle.delino@dhha.org h and Hospital Autority			
Authors		elle Delino, DPM man, DPM, ABFAS	Author 2: Author 4: Author 6: Author 8:	Adam Ferguson, DPM			
Purpose		To examine outcomes of bilateral tibiotalocalcaneal (TTC) arthrodesis following a unique mechanism of injury resulting in progressive and severe bilateral equinovarus deformity					
Methodology							
Procedures	A case review of a single patient who sustained abdominal stab wounds in 2011, requiring complex abdominal surgery for traumatic injuries to the pancreas, renal vein, superior mesenteric vein, small bowel, and colon. Patient's injury was complicated by the development of bilateral lower leg compartment syndrome requiring bilateral leg fasciotomics. Subsequently, the patient was referred to podiatry after progressive development of severe equinovarus deformity to the bilateral lower textremity. We thoroughly reviewed chart data of this patient's treatment course including initial injury, surgical interventions, and post-op follow up to evaluate treatment outcomes.						
Results	Patient attempted multi-modal conservative treatment options for bilateral equinovarus deformity including bracing, cast boot immobilization, and physical therapy. However, due to the severity and rigidity of the patient's deformity and resultant weaknesses to all muscle groups, conservative treatment had limited benefits and surgical intervention was discussed. First, the patient underwent TCC arthrodesis, talonavicular (TN) arthrodesis and Achilles tendon lengthening to the right lower extremity. Following successful reconstruction, the patient underwent the same procedure on the contralateral leg 8 months later. Serial post-op x-ray imaging demonstrated good anatomical alignment and full bony bridging at arthrodesis sites. At 12 months status post procedure, the patient was pain free and progressed to full weightbearing in regular shoes.						
Discussions	Pantalar arthrodesis is a powe	erful treatment option for patie	nts with severe	rigid equinovarus deformities.			
Format	Case Study						
<b>Case Rpt Followup</b>	20						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstru	uction					
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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Submission ID	05-01339 Ref ID CS-133					
Title		Case Study: Takedown of a Painful Nonunion of an Ankle Arthrodesis Converted to Total Ankle Arthroplasty Without a Distal Fibula				
Submit Date	08/31/2023					
Correspondent	Last Name: Loveland Full Name: Jeffrey D. Lo Practice/Company/Residence	oveland DPM,FACFAS y Program:	Email: lovelanddpr Central Tennessee Foot and	n@yahoo.com Ankle Center		
Authors	Author 1: Jeffrey Lovel Author 3: Author 5: Author 7:	land DPM FACFAS	Author 2: Brandon De Author 4: Author 6: Author 8:	nton MBA, ABSA		
Purpose	To open further discussion on the efficacy of the takedown of a painful nonunion ankle-arthrodesis, with prior resection of the fibula, and converting to Total Ankle Arthroplasty (TAA), versus revisional ankle arthrodesis. The takedown procedure has been an increased topic of discussion amongst the foot & ankle community for failed ankle-arthrodesis as a viable restorative procedure.					
Methodology						
Procedures	nonunion confirmed via CT s distal fibula that was remove months later, converted to a t	A retrospective chart and radiographic review was conducted. Patient was 18 months status post ankle-arthrodesis with a nonunion confirmed via CT scan. The patient underwent a TAA to regain movement, presenting a unique case without a distal fibula that was removed during the initial procedure. A staged reconstruction with removal of hardware first. 2-months later, converted to a tibial stemmed TAA using patient-specific instrumentation. This technology was used to help approximate the correct level to recreate the ankle joint line and position of the implants.				
Results		The patient was pain-free and walking in shoes, without limping, at 12 months post-TAA. Patient returned to normal activities and x-rays demonstrated a well-aligned and fixated total ankle implant, even without a distal fibula.				
Discussions	option for ankle arthrodesis t provide additional stability w	Several journals have discussed options for nonunion of an ankle arthrodesis. This case demonstrated TAA as a viable option for ankle arthrodesis that progresses to a painful nonunion, and the viability of a successful stemmed TAR to provide additional stability without a distal fibula. Overall, patients having TAA are typically able to weight bear sooner with less pain and greater functional gait/motion compared to a revisional ankle arthrodesis.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstr	ruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
		Consultant/Advisor/Speaker (	List all affiliations)	Stryker and Vilex		
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		Grant/Research funding		Stryker		
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Submission ID	05-01342			Ref ID CS-1342		
Title	Isolated Case Report Injury	rt of A Comminuted Ta	ılar Body F	racture Secondary To A Ballistic		
Submit Date	08/31/2023					
Correspondent	Last Name: Cohen Full Name: Steven, D, C Practice/Company/Residence	Cohen, DPM 29 Program:	Email: Morristown I	cohensteven882@gmail.com Medical Center		
Authors	Author 1:Steven, D, CAuthor 3:Rohan, G, EAuthor 5:Author 7:	·	Author 2: Author 4: Author 6: Author 8:	Dainelle, L, Morris, DPM		
Purpose	A case report to highlight su	accessful treatment of a gunshot	injury causing	a comminuted fracture of the talus.		
Methodology						
Procedures	A 56 year old male presented after suffering victim to a gunshot injury. Ankle x-rays did not clearly show any acute evidence of bony abnormality. However, CT scan revealed an acute comminuted fracture of the talus with a portion of the fracture extending to the articular surface of the posterior subtalar joint. After washout was performed an application of an external fixator was accomplished to pull the talar fracture out to length. Due to the trajectory of the bullet, no damage occurred to any vital neurovascular structures on the medial or lateral aspect of the ankle. The patient's postoperative follow up course went smoothly. After a year of postoperative follow up, no signs of avascular necrosis of the talus were observed and talar dome function remained intact.					
Results	device the patient's weighth	Through external fixation, successful reduction of the talus fracture was obtained. After removal of the external fixation device the patient's weightbearing status was protected in a CAM boot. Patient had joint stiffness that improved with physical therapy focusing on ankle dorsiflexion. After four months patient was able to transition into a sneaker with orthoses.				
Discussions		to 23% of all talar fractures. Cli		/ with grave sequalae and a poor prognosis. This suspicious for avascular necrosis along with		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01344			Ref ID CS-1344		
Title	Mycotic Thoracic A unique case study	Mycotic Thoracic Aortic Aneurysm presenting with Irregular Pedal Ulceration: A unique case study				
Submit Date	08/31/2023					
Correspondent	Last Name: Marion					
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	Practice/Company/Residen	cy Program:	VA Puget So	und HCS		
Authors	Author 1: Reid M Ma	rion	Author 2:	Nikhil Boga DPM		
	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	endothelium. No prior liter	ature describes peripheral manife	estations of INA	loaneurysm secondary to infection of damaged AA. We describe a novel case involving a patient gnosis of INAA after failed conventional		
Methodology						
Procedures	management, atypical diffe antimicrobial therapy, bloo are still high. Identifying ea	A one patient case retrospective of a 72 year old male who presented with irregular pedal lesions, following initial management, atypical differential diagnostics, and outcome. Recommended treatment for INAA involves prompt antimicrobial therapy, blood pressure control, and endothelial repair. With prompt diagnosis and treatment, mortality rates are still high. Identifying early symptoms for diagnosis is important for minimizing ultimate mortality, however specific peripheral manifestations have not been documented thoroughly.				
Results	incision and drainage and a		ource control, u	with superimposed infection. Subsequent nsuccessfully. Delayed diagnosis of INAA		
Discussions	physical exam was unusual proved unsuccessful and m	Our patient presented with pedal wound and infection, which is a common presentation within podiatric medicine. His physical exam was unusual but not remarkable. Following traditional infection control methods for this patient ultimately proved unsuccessful and may have led to suboptimal outcome. This case highlights the importance of surveillance for physical signs and timely workup for central infections in patients with appropriate risk factors, as presentations vary greatly.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dis	seases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01345 Ref ID CS-1			Ref ID CS-1345		
Title	1	Retrospective Case Series of 10 Neuropathic Patients that Underwent Primary Tibiotalocalcaneal Arthrodesis Following Acute Trimalleolar Ankle Fracture				
Submit Date	08/31/2023					
Correspondent	Last Name: Loveland					
	Full Name: Jeffrey D. Lo Practice/Company/Residency	oveland DPM, FACFAS y Program:	Email: lovelar Central Tennessee Foo	nddpm@yahoo.com ot and Ankle Center		
Authors	Author 1: Jeffrey Lovel Author 3: Author 5:	land DPM, FACFAS	Author 2: Brando Author 4: Author 6:	on Denton MBA, ABSA		
	Author 7:		Author 8:			
Purpose	agree that the complication ratio of the second sec	Ankle fracture management in neuropathic patients has been an ongoing discussion for many years. Several references agree that the complication rates following an acute ankle fracture are significantly higher among neuropathic patients. There is evidence that primary ankle arthrodesis in this population could provide a lower complication rate and decrease the potential for a Charcot Neuroarthopathy event and the need for additional procedures.				
Methodology						
Procedures	A patient chart and radiographic review of 10 Neuropathic patients that underwent a primary Tibiotalocalcaneal arthrodesis following acute trimalleolar ankle fracture with at least 12 months follow-up. The Tibiotalar and subtalar joints were prepared and platelet platelet-derived growth factor synthetic bone graft was used in the joints. A hindfoot fusion nail and external fixator were applied on all 10 patients. All of the patients received a CT scan to confirm fusion prior to removal of the external fixator. At that time, they were fitted with CROW boot or Ankle foot orthotic (AFO) as their weight-bearing and ambulation status improved.					
Results	confirmed by radiograph and	During the follow-up, there were no major complications. 8 patients were diabetic. All 10 patients had stable fusions confirmed by radiograph and CT scan on average of 13 weeks. All 10 patients returned to weight-bearing at 17 weeks. There was no loss of correction or development of Charcot Neuropathy.				
Discussions	tibiotalocalcaneal arthrodesis	Given the complexity of the Neuropathic patient population and increased complication rates, consideration of a primary tibiotalocalcaneal arthrodesis for acute neuropathic trimalleolar ankle fractures has the potential for better outcomes and decrease the potential for Charcot Neuroarthropathy.				
Format	Case Study					
Case Rpt Followup	24					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstr	ruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
		Consultant/Advisor/Speaker (	List all affiliations)	Stryker and Vilex		
Jeffrey Loveland DPM, FACFAS	lovelanddpm@yahoo.com	Serve in an official capacity (e other medical or podiatric orga		any Past president of Tennessee Podiatric Medical Association		
		Grant/Research funding		Stryker		
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Submission ID	05-01346			Ref ID CS-1346			
Title		Transmalleolar Approach for Ankle Arthrodesis For The Treatment of Severe Bilateral Cavovarus Deformity In A Patient with Charcot Marie Tooth Disease					
Submit Date	08/31/2023						
Correspondent	Last Name: Siddiqi Full Name: Anas Siddi Practice/Company/Resider		Email: anas.siddic Beaumont Wayne	i@corewellhealth.org			
Authors	Author 1: Lawrence 2 Author 3: Author 5: Author 7:	Fallat DPM FACFAS	Author 2: Author 4: Author 6: Author 8:				
Purpose	Charcot-Marie-Tooth disease can often result in debilitating effects, leading to significant lower extremity pathology. Skeletal irregularities in the lower extremities may range from intrinsic musculature irregularities to severe deformities such as cavovarus foot structure or metatarsus adductus. Given the severity of these deformities, achieving rectus alignment of the foot and ankle post-surgical correction becomes imperative. This case report aims to highlight a unique approach involving the utilization of medial malleolar and lateral malleolar osteotomies in ankle arthrodesis to treat severe bilateral cavovarus feormities, associated with Charcot-Marie-Tooth disease.						
Methodology							
Procedures	presents with severe bilate	A 39-year-old wheelchair bound female patient with past medical history significant for Charcot Marie Tooth disease presents with severe bilateral varus deformities of the hindfoot and ankle with polyarticular osteoarthritis of the subtalar and tibiotalar joints. Bilateral ankle arthrodesis through trans-malleolar approach with the use of intramedullary nail were performed.					
Results		Rectus hindfoot and ankle with plantigrade foot noted to bilateral lower extremities following procedure. Patient was pain free and able to ambulate without a wheelchair post-operatively.					
Discussions	Severe cavovarus foot deformity can result in debilitating consequences and significantly lower the patient's quality of life. Patients with such deformities often encounter complications like gait abnormalities, reduced mobility, pain, and occurrences of ulcerations and infections. Given the severity of this condition, achieving proper foot and ankle alignment during surgery can be incredibly challenging. Therefore, a unique approach of both medial and lateral malleolar osteotomies were utilized to obtain rectus alignment and adequate correction with favorable functional outcomes.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
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FACFAS

Submission ID	05-01349 Ref ID CS						
Title		Prospective Case Series of 11 Charcot Neuropathic Patients that Underwent Midfoot Arthrodesis with Medial Column Beaming					
Submit Date	08/31/2023						
Correspondent	Last Name: Loveland Full Name: Jeffrey D. Practice/Company/Residen	Loveland DPM, FACFAS	Email: Central Tenness	lovelanddpm@ see Foot and A			
Authors	Author 1: Jeffrey Lov Author 3: Author 5: Author 7:	veland DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	John Zanella,	MS		
Purpose	Charcot neuroarthropathy is a complicated condition with the potential to cause severe deformity that makes the foot susceptible to the development of ulcers, infection, and the need for amputation. Given the aim of treatment is to prevent neuropathic joint progression and limb-threatening complications, surgery is often considered to be a salvage procedure. As a last resort to avoid limb loss, evolving surgical techniques have focused on improved stability to diminish the likelihood of failure of the procedure by extending fixation hardware proximally and distally into areas where the bone has not been compromised. Midfoot beams have emerged as an option to mitigate the complications associated with Charcot and have become popular for cases of complex midfoot reconstruction.						
Methodology							
Procedures	Eleven (11) patients undergoing open reduction internal fixation of midfoot arthrodesis.with medial column beaming as part of a Charcot salvage procedure is included in this study.						
Results		Eleven (100%) Charcot midfoot arthrodesis salvage cases had achieved bony union and were walking at the 12-month follow-up visit. There were no adverse events associated with the internal fixation hardware.					
Discussions	midfoot, fusion with midfo fusion, providing adjacent	Charcot neuropathic reconstructions are complex procedures associated with high complication rates. When stabilizing the midfoot, fusion with midfoot beams may be a consideration since these implants are intended to be used in multiple joint fusion, providing adjacent joint fixation beyond the level of Charcot involvement, and have the potential to deliver a stable, ulcer-free foot, allowing the patient return to weight-bearing and ambulation.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):		
		Consultant/Advisor/Speaker (	List all affiliation	s)	Stryker and Vilex		
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		Grant/Research funding	Grant/Research funding		Stryker		
John Zanella, MS	jmzanella@bellsouth.net	I/We have nothing to disclose					

Submission ID	05-01351			Ref ID CS-1351			
Title		Improved Quality of Life and Physical Function in Patients that Underwent Reconstructive Surgery for Charcot Neuroarthropathy Deformities					
Submit Date	08/31/2023						
Correspondent	Last Name: Loveland Full Name: Jeffrey D. I Practice/Company/Residen	Loveland DPM,FACFAS	Email: lovelanddp Central Tennessee Foot an	m@yahoo.com d Ankle Center			
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Purpose	Charcot neuroarthropathy is a complicated condition with the potential to cause severe deformity. The deformities are often associated with chronic ulceration and osteomyelitis, which may eventually require amputation. Salvage reconstruction surgery may be performed with the aim of reducing these risks of ulceration by creating a stable plantigrade foot allowing the patient to bear weight and mobilize. Charcot neuroarthropathy deformity can have a dramatic negative effect on lifestyle, but does successful correction of the deformity correspond to an improvement in patient-reported outcomes?						
Methodology							
Procedures	• • • •	Thirty-one (31) patients undergoing Charcot deformity salvage procedure with the use of internal and/or external fixation techniques were included in this prospective study.					
Results	Thirty-one (31) subjects reported a mean EQ-5D-5L score of $0.93 \pm 0.07$ (range: $0.78 - 1.0$ ) 1 year following a salvage reconstruction procedure improving from a mean pre-operative score of $0.09 \pm 0.29$ (range: $-0.52 - 0.68$ ). EQ-VAS improved from $32.74 \pm 10.23$ (range: $20 - 50$ ) to $86.3 \pm 8.8$ (range: $70 - 100$ ). FAAM Activities of Daily Living improved from $24.0 \pm 12.4$ (range: $4 - 58$ ) to $91.5 \pm 7.0$ (range: $67 - 100$ ). These subjects did not complete the FAAM Sports subscore portion of the questionnaire.						
Discussions	to weight-bearing and amb	nity salvage reconstruction aims ulation. The 1-year patient-report rsed the negative impact of the di	ted outcomes results indicate				
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):			
		Consultant/Advisor/Speaker (	List all affiliations)	Stryker and Vilex			
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		Grant/Research funding		Stryker			
John Zanella MS	jmzanella@bellsouth.net	I/We have nothing to disclose					

Submission ID	05-01352					Ref ID CS-1352	
Title	hardware	When exposed hardware can't be removed. Complex wound cases with exposed hardware and their successful management with application of skin substitute and negative pressure wound therapy.					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Statkus Rimvydas (I pany/Residenc	Rimi) P. Statkus, DPM, FACFAS 29 Program:		drstatkus@ill 10is Foot & Ank	inoisfoot.com tle Specialists	
Authors	Author 1: Author 3: Author 5: Author 7:	• •	Rimi) P. Statkus, DPM, FACFAS ato, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Patrick A. Mo	Eneaney, DPM, FACFAS	
Purpose	can jeopardiz prematurely r instability and complication	Surgical wounds with exposed hardware are a perpetual challenge for any surgeon. Infection involving internal hardware can jeopardize bone healing and result in lifelong issues with bone infection, limb loss or death. When hardware is prematurely removed, complications arise if the fracture or osteotomy sites have not adequately healed rendering instability and loss of correction. The case series highlight patients who recently underwent surgery and developed wound complications and exposure of internal fixation post operatively. Each case demonstrates various approaches for successful wound management without hardware removal.					
Methodology							
Procedures			ent surgery could lead to instabili ic therapy, wound debridement, a	•			
Results	treatment init Infectious Di	Wounds healed within 4-8 weeks depending on extent of initial soft tissue loss. Early detection of infection and immediate treatment initiated in all cases, including surgical debridement and appropriate antibiotic coverage while liaising with Infectious Diseases. Multiple applications of skin substitutes assisted with immediate coverage over exposed hardware and initiation of NPWT assisted with healing.					
Discussions	to previous st management. advanced wo	Infection management standards, including removal of hardware, have been routinely implemented for decades. Contrary to previous standard of care, this case series showcases that salvage of hardware is possible with early, aggressive management. This includes appropriate antibiotic coverage, thorough irrigation and debridement while incorporating advanced wound modalities such as NPWT, and application of skin substitutes for rapid healing. Appropriate infection management was achieved without the need for removal of hardware or limb loss in each case presented.					
Format	Case Study						
<b>Case Rpt Followup</b>	18						
Student Club	Not a Studen	Not a Student Club Poster					
Classification	Wound Care/	Wound Care/Infectious Diseases					
Level of Evidence	Level IV	Level IV					
Authors/Financial D	isclosures						
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-01354	05-01354 Ref ID CS-1354				
Title	Sinusoida	Sinusoidal shape for Lateral Ankle and Fibular incision, an alternative				
Submit Date	08/31/2023					
Correspondent	Last Name:	Giagnacova	i -			
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	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	and hardware	failure among	al incision for fibular presents g others are high risk.I have per sons including the primary auth	formed my incis		
Methodology						
Procedures	JFAS 2018 pc	Fattori 2020 had recommend NPWT in fracture model. Zolper 2020 look at vascular abnormality. Conversely Abdelgaid in JFAS 2018 posed the question Minimally Invasive Treatment of Ankle Fractures in Patients at High Risk of Soft Tissue Wound Healing Complications. Numerous authors have offered etiologies for failure but no one has offer alternative incision.				
Results	minutes.We h	We have no dehisences , the biggest drawback is length of closure time which average 42 minutes as compare to 14 minutes. We had one soft tissue injury has result of poor tissue handling, no evidences of neuritis hypertrophic scar nor Keloids Hematoma or Seroma were not noted no drains were used.				
Discussions	offered. Nume incision. We of We had no iss "Straightout"	The majority of literature deals with dehisences in calcaneal fracture realm, numerous tips quips and pearls have been offered. Numerous other biomedical products have been recently develop. Our knowledge we are first to offer this shape incision. We offer vastly improve visualize of anatomy no need to traumatic touch with forceps or aggressive retraction. We had no issues with soft tissue mobility longterm. The biggest concern was average length incision when "unraveled" or "Straightout" almost 16 cm as compare to 7 cm linear. The data addressed issue with skin tension where as drawback may be cosmesis. My cohort group include patient presenting with DM PVD dislocation tobacco as known risk factors.				
Format	Case Study					
Case Rpt Followup	20					
Student Club	Not a Student	Club Poster				
Classification	Rearfoot and	Ankle Recons	truction			
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):
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Submission ID	05-01355 Ref ID CS-135						
Title	Correction o	Correction of Rigid Equinovarus Deformity with Dynamic External Fixation					
Submit Date	08/31/2023						
Correspondent		RAN DN //Residen	cy Program:	Email: FASCO Fell	sonhtran5@gmail.com owship		
Authors		wame, Do lexandra,	nh, DPM T, Black, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	SON TRAN Daniel Logan, DPM, FACFAS		
Purpose	Rigid equinovarus deformity is one of the most challenging conditions treated by foot and ankle surgeons. Correction of the deformity allows for improvement in gait, reduction in pain, and reduced risk of skin breakdown. Rapid correction of the deformity may result in neurovascular as well as dermatologic complications. Gradual correction of these deformities with dynamic external fixation may reduce the risk of these complications while achieving successful deformity correction. This case series documents several cases of patients who have undergone gradual correction of severe equinovarus deformities with dynamic external fixation.						
Methodology							
Procedures	a dynamic externa demonstrated seve	5 patients with severe equinovarus deformity treated with lengthening of the medial ankle flexor tendons and placement of a dynamic external fixator are included in this study. Preoperative standard x-rays as well as clinical examination demonstrated severe rigid equinovarus deformity. Intraoperative radiographs are obtained to establish initial parameters for planning of deformity correction.					
Results	were corrected to	All patients achieved successful correction of their deformity resulting in improvement in gait and function. All deformities were corrected to a more plantigrade foot in less than 8 weeks. None of the deformities resulted in recurrence or neurovascular compromise.					
Discussions	Rigid equinovarus deformity is often associated with neurologic conditions such as traumatic brain injury or cerebrovascular accident, including patients in this case series. Correction of such deformities is technically challenging to achieve while avoiding neurovascular complications. The results of the patients in this series suggest that gradual correction with dynamic external fixation and lengthening of the ankle tendons allows for successful deformity correction without neurovascular complication.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Clu	b Poster					
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-01358			Ref ID CS-1358			
Title		Consequences of Chronic Foot Osteomyelitis: A Rare Case of Hematogenous Spread to the Vertebral Spine					
Submit Date	08/31/2023						
Correspondent	Last Name: Elagar	ny					
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	Author 5:		Author 6:				
	Author 7:		Author 8:				
Purpose	Recognizing this pote		osteomyelitis, along wi	osteomyelitis in the foot to the spine. h understanding its symptoms and treatment			
Methodology							
Procedures	from a distant site. Fe demonstrate it as a res patient who underwen delayed wound healin contamination. Twent	Vertebral osteomyelitis (VO) is a rare but serious condition, typically resultant from hematogenous seeding of bacteria from a distant site. Few cases report vertebral osteomyelitis (VO) as a complication of diabetic foot infections, and none demonstrate it as a result of spread from chronic osteomyelitis or infected hardware following elective foot surgery. One patient who underwent subtalar joint (STJ) arthrodesis for posttraumatic arthritis after calcaneal fracture experienced a delayed wound healing process, being later diagnosed with methicillin-sensitive staphylococcus aureus (MSSA) contamination. Twenty-one months post-surgery, he presented with chest pain and extremity weakness. Imaging revealed osteomyelitis in the cervical and lumbar spine along with ankle joint effusion and STJ arthrodesis site malunion.					
Results	returned positive for M polymethylmethacryla Intravenous antibiotic	Neurosurgery performed urgent anterior cervical discectomy and interbody fusion. Cultures from intervertebral disc space returned positive for MSSA. Podiatry performed ankle arthrotomy with hardware removal and multiple implantations of polymethylmethacrylate antibiotic beads - hardware, soft tissue, and bone cultures returned positive for MSSA also. Intravenous antibiotic therapy was administered alongside hyperbaric oxygen therapy. The patient's symptoms resolved over a period of months.					
Discussions		omplications of chronic osteo		rgical intervention, and targeted antibiotic infections, with particular attention to			
Format	Case Study						
Case Rpt Followup	23						
Student Club	Not a Student Club Po	oster					
Classification	Wound Care/Infectiou	s Diseases					
Level of Evidence	Level IV						
Authors/Financial ]	Disclosures						
Full Name:	Email:	Disclosure(s) se	lected:	Disclosed Organisation(s):			
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Submission ID	05-01361			Ref ID CS-1361	
Title	Surgical Outcomes and Complication Rates of Ankle Fracture Open Reduction Internal Fixation by Podiatric Surgeons: A Retrospective Case Series				
Submit Date	08/31/2023				
Correspondent	Last Name: Ternent				
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Authors	Author 1: Katherine Te	rnent, DPM Auth	or 2: Sam Wier, DI	PM	
	Author 3: Rachel Warn	er, DPM Auth	or 4: Ronald Adeln	nan, DPM, ABFAS	
	Author 5: Oliver Ryan, Author 7:	DPM, ABFAS Auth Auth		man, DPM, ABFAS	
Purpose	The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication rates documented in prior scholarly works.				
Methodology					
Procedures	This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.				
Results	Cohort of 72 patients, 3 individuals exhibited postoperative complications.				
Discussions	Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.				
Format	Case Study				
Case Rpt Followup	24				
Student Club	Not a Student Club Poster	Not a Student Club Poster			
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial D	visclosures				
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Submission ID	05-01363 Ref			Ref ID CS-1363	
Title	Flipper Foot Technique with Ankle Arthrodesis for the Treatment of Charcot Neuroarthropathy Deformities				
Submit Date	08/31/2023				
Correspondent	Last Name: Loveland Full Name: Jeffrey D. Lo Practice/Company/Residency	weland DPM, FACFAS y Program:	Email: lovelanddpm Central Tennessee Foot and	n@yahoo.com Ankle Center	
Authors		DVELAND DPM, FACFAS ton MBA, ABSA	Author 2: Aaron Mates Author 4: Author 6: Author 8:	s MD	
Purpose	To show the efficacy of the described "flipper foot" procedure as a viable option in the treatment of neuropathic foot and ankle deformities.				
Methodology					
Procedures	Retrospective chart review with 77 patients who underwent hindfoot and ankle arthrodesis with a midfoot osteotomy. Hindfoot and ankle arthrodesis was fixated with an intramedullary nail and using an external fixator to control the midfoot osteotomy with a bent wire to create a pseudo fusion/articulation point within the midfoot or talonavicular region. CT scans were obtained to assess fusion. Once the fixator was removed, the patient was then placed into a CROW Boot to bear weight.				
Results	There were 77 patients who underwent ankle arthrodesis with midfoot osteotomy for treatment of Charcot Neuroarthropathy. CT scans confirmed fusion of the ankle joint on average of 14 weeks and with an average of 32 months follow up. 70 patients went on to fusion with 7 patients requiring a revisional surgery for a nonunion. There was no breakdown or increased deformity seen in the pseudo fusion/articulation point in the midfoot. No wounds developed following the reconstructive surgery along with no limb loss was noted.				
Discussions	The results show evidence the "Flipper Foot technique" could be used as a viable limb salvage option for patients with Charcot Neuroarthropathy deformities. With a stable hindfoot/ankle along with the motion segment in the foot provides some movement to put on shoe gear and allows the patient to have a near-normal gait pattern. This technique described may become a standard in the treatment of Charcot deformities in the future.				
Format	Case Study				
<b>Case Rpt Followup</b>	84	84			
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV	Level IV			
Authors/Financial D	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
		Consultant/Advisor/Speaker	(List all affiliations)	Stryker and Vilex	
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		Grant/Research funding		Stryker	
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Submission ID	05-01364 R			Ref ID CS-1364
Title	Patient specific total talus replacement and opening wedge supramalleolar osteotomy with total ankle arthroplasty in the setting of post-traumatic talar avascular necrosis and collapse			
Submit Date	08/31/2023			
Correspondent	Last Name: Crame	r		
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	Practice/Company/Res	sidency Program:	Highlands/Pr	resbyterian St. Luke's Hospital
Authors	Author 1: Kira C	ramer, DPM	Author 2:	Alan Ng, DPM, FACFAS
	Author 3: David	Hahn, MD	Author 4:	Brett Sachs, DPM, FACFAS
	Author 5:		Author 6:	
	Author 7:		Author 8:	
Purpose	Therapeutic strategies for talar collapse encompass interventions such as talectomy, pantalar arthrodesis, tibiotalocalcaneal arthrodesis, and, in extreme cases, BKA. However, these options impart abnormal biomechanics and result in functional deficits for patients. This case study documents the series of surgical interventions required to reconstruct the tibiotalocalcaneal joints in the setting of talar collapse using 3D CT scans and patient specific instrumentation.			
Methodology				
Procedures	A healthy 26 year old male presented with chronic right ankle pain after a MVA on 11/01/2020. He fractured his talus and calcaneus and was placed into an external fixator. Definitive ORIF was delayed 22 days. Medial malleolar, talar, and calcaneal ORIF was performed on 11/2020. In July 2021 he had a CT which revealed talar avascular necrosis. The patient was referred to our clinic to discuss a total talus replacement.			
Results	Procedure performed included patient specific total talus replacement with subtalar joint arthrodesis, custom titanium graft for an opening wedge supramalleolar osteotomy, and total ankle arthroplasty. 3 years post injury the patient is ambulating for greater than 12 hrs per day in regular shoes, has returned to work, and functions with minimal pain.			
Discussions	The first account of partial talus replacement was documented in 1997 and since then technological advancements have evolved. The presented case study underscores the complexities and challenges posed by post-traumatic talar avascular necrosis and subsequent collapse, particularly in young patients with a significant history of trauma. It also highlights the successful utilization of a multidimensional surgical strategy to address these challenges combining innovative surgical techniques and patient-specific interventions.			
Format	Case Study			
<b>Case Rpt Followup</b>	36			
Student Club	Not a Student Club Poster			
Classification	Trauma			
Level of Evidence	Level IV			
Authors/Financial D	isclosures			
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):
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Brett Sachs, DPM, FACFAS kirakirac@gmail.com

Submission ID	05-01365		Ref ID CS-1365	
Title	Candida Osteomyelitis Management Through Intramedullary Spacer Utilizing Heat- Stable Amphotericin B and Polymethylmethacrylate Cement: A Novel Therapeutic Approach for Infected Nonunion Tibiocalcaneal Arthrodesis in Charcot Neuropathy			
Submit Date	08/31/2023			
Correspondent	Last Name: Rodriguez Full Name: Monique G. Rodriguez, D	1 0	uezdpm@gmail.com	
	Practice/Company/Residency Program:	Mount Auburn Hospital Podiat Residency Program	ric Medicine and Surgery	
Authors	Author 1: Monique G. Rodriguez, D Author 3: Author 5: Author 7:	PM Author 2: Philip Basile, E Author 4: Author 6: Author 8:	DPM .	
Purpose	This study details our clinical outcomes employing an innovative technique that combines heat-stable Amphotericin B and Polymethylmethacrylate cement as an intramedullary spacer for managing infected nonunion tibiocalcaneal arthrodesis stemming from Candida osteomyelitis.			
Methodology				
Procedures	Fungal osteomyelitis, while rare, poses a significant threat to immunosuppressed individuals due to its rapid dissemination and potential fatality. Candida, accounting for roughly 20% of invasive fungal osteomyelitis cases, often displays heightened biofilm-forming tendencies. Candida metapsilosis was isolated from intraoperative bone cultures of an infected nonunion, 1.5 years post tibiocalcaneal arthrodesis. Collaborative efforts confirmed Amphotericin B's fungicidal efficacy against Candida metapsilosis. The choice of Amphotericin B was guided by its compatibility with the heat generated during the polymerization of polymethylmethacrylate cement, occurring within the range of 230°F in the mixing bowl and 129°F within the bone. Three vials of 150mg Amphotericin B were amalgamated with polymethylmethacrylate cement, resulting in a 1cm diameter, 250mm length rod. This rod was then implanted intramedullarily into the tibia, secured by a circular external fixator applied to maintain tibia-calcaneus stability.			
Results	The antifungal cement rod was extracted after a month with bone cultures of the tibia and calcaneus displaying absence of Candida metapsilos. Two year follow up demonstrated microfungal resolution.			
Discussions	Fungal osteomyelitis, particularly in immunocompromised individuals like those with Charcot neuropathy, poses substantial challenges in eradication. Our innovative approach, harnessing the synergistic properties of heat-stable Amphotericin B and Polymethylmethacrylate cement, proves promising in successfully combatting Candida osteomyelitis. This novel technique underscores its potential as a viable therapeutic avenue warranting consideration.			
Format	Case Study			
Case Rpt Followup	24			
Student Club	Not a Student Club Poster			
Classification	Wound Care/Infectious Diseases			
Level of Evidence	Level IV			
Authors/Financial I	Disclosures			
Full Name:	Email: Disclos	ure(s) selected:	Disclosed Organisation(s):	
Monique G. Rodriguez, DPM	monique.rodriguez@mah.harvard.edu I/We h	ave nothing to disclose		
Philip Basile, DPM	pbasile@mah.harvard.edu I/We h	ave nothing to disclose		

Submission ID	05-01366			Ref ID CS-1366	
Title	Retrospective case series review of Charcot Neuropathic patients with Tibiotalocalcaneal / Tibiocalcaneal Arthrodesis with Intramedullary Nail Fixation and Percutaneous Screw Fixation Outside the Nail				
Submit Date	08/31/2023				
Correspondent	Last Name: Loveland Full Name: Jeffrey D. Lo Practice/Company/Residency	veland DPM, FACFAS y Program:	Email: lovelanddp Central Tennessee Foot and	m@yahoo.com I Ankle Center	
Authors	Author 1: JEFFREY LC Author 3: Author 5: Author 7:	OVELAND DPM, FACFAS	Author 2: Brandon D Author 4: Author 6: Author 8:	enton MBA, ABSA	
Purpose	To review a retrospective case series of Charcot Neuropathic patients who underwent Tibiotalocalcaneal /Tibiocalcaneal Arthrodesis (TTC / TC) with intramedullary nail fixation and investigate the efficacy and outcomes of incorporating additional fixation and stability around the nail with screw fixation outside the nail.				
Methodology					
Procedures	A patient chart and radiographic review of Charcot Neuropathic patients that underwent a primary TTC/TC arthrodesis with Intramedullary nail fixation and percutaneous screw fixation outside the nail for a limb salvage procedure with a minimum of 12 months follow-up. Some of these patients had circular external fixation applied at the time of surgery. Patients had CT scans done to access the bony fusion process and monitor the stability of implant fixation. Once bony fusion was identified, the patients were then fitted with CROW boot or Ankle foot orthotic (AFO) as their weight-bearing and ambulation status improved.				
Results	There were 20 patients who had intramedullary nail and screw fixation. During the follow-up, there were no major complications. All patients had stable fusions confirmed by CT scan on average of 13 weeks. All patients returned to weight-bearing at 17 weeks. There was no loss of correction, limb loss, or new Charcot Neuropathy events.				
Discussions	Given the complexity of the Neuropathic patient population and increased complication rates of limb salvage procedures in the hindfoot and ankle with the loss of fixation. Consideration of additional fixation with fully threaded screws outside the nail could provide additional stability and support to the overall construct to promote healing in this difficult patient population.				
Format	Case Study	Case Study			
<b>Case Rpt Followup</b>	24				
Student Club	Not a Student Club Poster	Not a Student Club Poster			
Classification	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV	Level IV			
Authors/Financial Di	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
JEFFREY LOVELAND DPM, FACFAS	lovelanddpm@yahoo.com	Consultant/Advisor/Speaker ( Serve in an official capacity ( other medical or podiatric org Grant/Research funding	elected or appointed) for any	Stryker and Vilex Past president of Tennessee Podiatric Medical Association Stryker	
Brandon Denton MBA, ABSA	brandondenton15@gmail.com				

Submission ID	05-01367					Ref ID CS-1367
Title	Lateral F	Lateral FHL Transfer for Concomitant Peroneal Tendon Tears				
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Irfan Zuhair, M, I pany/Residen		Email: Foot and An	zuhair.irfan1@ kle Specialists of	
Authors	Author 1: Author 3: Author 5: Author 7:	Zuhair Irfar Kwame Dol		Author 2: Author 4: Author 6: Author 8:	Son Tran, DP Daniel Logan	M , DPM, FACFAS
Purpose	noted, howeve	The Flexor Hallucis Longus tendon is utilized often for reconstruction of the Achilles tendon when considerable damage is noted, however less commonly so it can also be utilized in a lateral transfer to the 5th metatarsal base, replacing the peroneal tendons when non-viability and severe pathology is noted of both peroneal tendons.				
Methodology						
Procedures	ambulation al pathology of l evaluated. Ca	ong the latera both peroneal se reports and	tt with a history of previous per l ankle. Patient had pain to the tendons. While mentioned in tl series appear to be promising, roneal tendon tears and resulta	peroneal tendons ne literature, late and the transfer	s and imaging de ral FHL transfers has been shown	monstrated significant tear and s have not been extensively
Results	The patient underwent lateral FHL transfer to the 5th metatarsal base with an biotenodesis screw. The procedure was supplemented with a lateralizing calcaneal osteotomy to address the rearfoot deformity and protection of the lateral soft tissues. The patient did well in the post operative phase and progressed well with a progressive weight bearing protocol, gaining eversion strength in the extremity.					
Discussions	Lateral transfer of the Flexor Hallucis Longus is a viable option for concomitant pathological and non-viable peroneal tendons. Surgeons should be aware of and consider this technique and appropriately include in the consent and peri- operative surgical discussions with the appropriate surgical candidate.					
Format	Case Study					
Case Rpt Followup	13					
Student Club	Not a Student	Club Poster				
Classification	Rearfoot and	Ankle Recons	struction			
Level of Evidence	Level V					
Authors/Financial D	isclosures					
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):
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Submission ID	05-01368 Ref ID CS-136				
Title	Lateral Ankle Ligament Reconstruction Using Acellular Dermal Matrix Allograft and Ultrasonically Interdigitated Bioresorbable Suture Anchors				
Submit Date	08/31/2023				
Correspondent	Last Name: Berkelbach				
	Full Name:         Christopher J. Berkelbach, DPM         Email:         christopher.berkelbach@pennmedicine.upenn.ed           Practice/Company/Residency Program:         Penn Presbyterian Medical Center				
Authors	Author 1: Christopher J. Berkelbach, DPM Author 2: Hamidat Momoh, DPM				
	Author 3: Michael A. Troiano, DPM, FACFAS Author 4:				
	Author 5: Author 6:				
	Author 7: Author 8:				
Purpose	When performing surgical repair for chronic ankle instability, oversewing and tightening of the ATFL and CFL requires quality native ligamentous tissue, which may be lacking in patients with longstanding pathology. Few studies have evaluated outcomes of lateral ankle stabilization by means of ligament reconstruction using acellular dermal matrix allograft, which boast excellent repair strength and host compatibility.				
Methodology					
Procedures	We performed a retrospective review of patients who underwent lateral ankle stabilization with ligament reconstruction using acellular dermal matrix allograft and ultrasonically interdigitated bioresorbable suture anchors from 2018-2023. Patients with previous lateral ankle ligament surgery, ankle fracture open reduction with internal fixation, or <3 months follow-up were excluded.				
Results	44 patients (70.5% female, mean age 43.9) were identified. Average follow-up was 11.3 months. All patients underwent concurrent ankle arthroscopy. 30 patients (68.2%) required peroneal tendon repair, for which a y-shaped incision was utilized for access to both the peroneal tendons and lateral ankle ligament complex. 14 patients (31.8%) without peroneal pathology received a J-shaped incision. Average time to protected weightbearing and transition to lace-up ankle brace was 5.6 and 9.2 weeks, respectively. Thirteen patients had minor complications, most frequently superficial wound dehiscence. Two patients (4.5%) underwent reoperation (recurrent instability necessitating revision; deep infection).				
Discussions	Lateral ankle ligament reconstruction using acellular dermal matrix allograft is a reliable procedure over medium-term follow-up. Risk of implant failure and deep infection is low. The y-shaped incisional approach used to concurrently addres peroneal tendon pathology may put certain patients at risk for delayed incision healing.				
Format	Case Study				
Case Rpt Follow	60				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstruction				
Level of Evidence	Level IV				
Authors/Financia	Disclosures				
Full Name:	Email: Disclosure(s) selected: Disclosed Organisation(s				
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Michael A. Troiano, DPM, FACFAS

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Submission ID	05-01369			Ref ID CS-1369
Title	Cockup 5th toe rev followup	ision, Double mason all	en stitch an	d transpostional flap 7 year
Submit Date	08/31/2023			
Correspondent	Last Name: Giagnacova Full Name: Albert Practice/Company/Residen		Email: Lower Bucks	Albertdpm@gmail.com Hospital Podiatry Residency
Authors	Author 1: Albert Giag Author 3: Author 5: Author 7:	znacova	Author 2: Author 4: Author 6: Author 8:	Anthony Mina
Purpose	Cockup 5th toe is difficult particularity in presents of second revisional surgery. Historically some would consider amputation we both a Mason Allen stitch at plantar 5th MTPJ joint and 7 cm transpositional elongated flap running the length of 5th metatarsal 1 cm wedge was removed			
Methodology				
Procedures	well represented. Flexor ter	ndon transfer as describe by DiDo	omenico in num	ain 2020. Syndactlization within literature are erous articles and personal experiences. e. Liu 2019 used Mason Allen in Brostrom
Results	transpositional flap. Results	s no submet 5 lesion nor pain, no	r difficult using	ime using a Mason Allen stitch plantarly and shoe gear. There was no need for taping or days. No visible scars were noted .
Discussions	These two technique should be entered into a Surgeon's repertoire techniques offered as combo in concert to difficult case. Observation of this patient over 60 times without complaint. Purpose of this study to avoid syndactlization or elective amputation of 5th digit. Mechanical strength Mason Allen via the should literature demonstrates the clinical strength although rarely utilizing in foot surgery, and should be considered outside of Rotational cuff surgery. Some consider plantar flaps taboo however the author has no issues if the flap raised correctly the use of large gauge suture is used 2 nylon as oppose to 3 -0 nylon.			
Format	Case Study			
<b>Case Rpt Followup</b>	84			
Student Club	Not a Student Club Poster			
Classification	Forefoot Reconstruction			
Level of Evidence	Level IV			
Authors/Financial D	isclosures			
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):
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Anthony Mina	mina@temple.edu	I/We have nothing to disclose		

Submission ID	05-01370			Ref ID CS-1370		
Title		Complication Rates Associated with Direct Midline Approaches for Achilles Tendon Pathology: A Case Review				
Submit Date	08/31/2023					
Correspondent	Last Name: Kim					
·	Full Name: John K. Ki Practice/Company/Resider	<i>,</i>	Email: jkim5874@g Washington Orthopaedic Ce			
Authors	Author 1:John J. KinAuthor 3:Michael DuAuthor 5:Author 7:	ijela, DPM, FACFAS	Author 2: Amar Chand Author 4: Author 6: Author 8:	ra, DPM		
Purpose	Purpose The posterior midline incision is a commonly utilized approach for Achilles tendon debridement, augmentation, and repair. The purpose of this study is to determine whether the midline approach for Achilles tendon surgery is a safe and viable method for surgical management of Achilles tendinopathy.					
Methodology						
Procedures	26 patients who underwent achilles tendon rupture repair, achilles tendon debridement and repair, flexor hallucis tendon transfer, and/or partial excision of the calcaneus utilizing an open, midline incisional approach between 2018-2021 were identified. All complications were recorded Any patients undergoing minimally invasive approaches were excluded from the study.					
Results	The mean age of our cohort was 51 years old. The wound complication rate was 11%. The infection rate was 3%, with all infections being superficial infections. There was a statistically significant correlation between wound complications and the presence of diabetes. History of smoking and the number of procedures performed were not associated with wound complications.					
Discussions	Currently, no consensus exists as to which incisional approach is safest. It has been assumed that direct midline incisions carry the risk of increased wound complications, however, there is limited high-level evidence supporting this. Overall, the reported complication rates for open achilles procedures range from 7-14% and 89% of these are wound complications. Here, we have demonstrated that the standard midline incision is a safe approach and provides adequate exposure for management of pathologies related to the Achilles tendon.					
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recon	struction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
John J. Kim, DPM	jkim5874@gmail.com	I/We have nothing to disclose				
Amar Chandra, DPM	chandraamar92@gmail.com	I/We have nothing to disclose				
		Consultant/Advisor/Speaker (Li	st all affiliations)	Paragon28, Synthes		
Michael Dujela, DPM, FACFAS	michaeldujela@yahoo.com	Serve in an official capacity (ele other medical or podiatric organ	ization(s)	ABFAS		
		Member of a medical publicatio	n or editorial governing boar	d JFAS		

Surgical Distance Surgication Surgica	Submission ID	05-01373			Ref ID CS-1373	
Correspondent       Last Name: Wir       Email: samjver@gmail.com         Pull Name: Sam, DPM       Email: samjver@gmail.com         Practice/Company/Residency Program:       Trinity Health Livonia         Author S:       Author J:       Kachel Warner, DPM       Author 4:       Ronald Adelman, DPM, ABFAS         Author 5:       Oliver Ryan, DPM, ABFAS       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       Author 7:       Author 7:       Author 7:         Purpose       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORF) at a disfinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication rates documented in prior schedarty works.         Purpose       This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fractures used, and complications. Our investigation involved a comparative analysis between our findings and the complications. Our investigation involved a comparative analysis between distinct patient Memographical complications of those who idd not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Cake Study       Surgers         Case Study       Imana       Imanalidentaresure comman, with an incidence of over 1.8 per	Title	0	1		1	
Full Name:       Sam, DPM       Email:       samjvier@gmail.com         Practice/Company/Residency Program:       Trinity Health Livonia         Author 3:       Ratherine Terment, DPM       Author 4:       Romald Adelman, DPM, ABFAS         Author 5:       Oliver Ryan, DPM, ABFAS       Author 6:       Venessa Adelman, DPM, ABFAS         Author 7:       Author 7:       Author 7:       Purpose         Purpose       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORF) 7 at disfinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication rates documented in prive sizability on collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation investigation investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Andle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates date makle fracture surgeries, influenced by sevenal factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appeara lower when compared to recent literature:         Clase Rut Followent       Kewent fractures are common, with an incidenc	Submit Date	09/01/2023				
Authors       Author 1:       Katherine Terment, DPM       Author 2:       Sam Wier, DPM         Author 3:       Radelel Warner, DPM       Author 4:       Ronald Adelman, DPM, ABFAS         Author 5:       Oliver Ryan, DPM, ABFAS       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       Author 7:       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open roduction and internal fixation (ORF) at a distinguished institution in Michigan. This investigation anism to establish a comparative analysis between our findings and the complications. Our investigation involved a comparative analysis between distinct patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications following oRF for ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics, influenced by several factors. In our retrospective analysis of 72 patients, or our investigation anise after analte fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, or our investigation anise following ORF for ankle fractures. This rate appears lower whe compared to recent bitreature.         Format       Case Study       Case Study       Sam Study       Sam Study       Sam Study </th <th>Correspondent</th> <th>Last Name: Wier</th> <th></th> <th></th> <th></th>	Correspondent	Last Name: Wier				
Authors       Author 1:       Katherine Terrent, DPM       Author 2:       Sam Wier, DPM         Author 3:       Rachel Warrer, DPM       Author 4:       Ronald Adelman, DPM, ABFAS         Author 5:       Oliver Ryan, DPM, ABFAS       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation inviso to stabilish a comparative analysis between our findings and the complication rates documented in prior scholarly works.         Methodology       This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative, only 2 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.         Format       Case Study         Case Study       Ease Study         Case Study       Ease Study         Case Study       Ease St		Full Name: Sam, DPM		Email:	samjwier@gmail.com	
Author 3:       Rachel Warner, DPM       Author 4:       Ronald Adelman, DPM, ABFAS         Author 5:       Oliver Ryan, DPM, ABFAS       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       Author 7:       Author 6:       Vanessa Adelman, DPM, ABFAS         Author 7:       The primary objective of our study is to assess the incidence of post-surgical complications following and/e fracture treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation inviso to stabilish a comparative analysis between our findings and the complication rates documented in prior scholarly works.         Methodology       This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation invivoled a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature views, exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.         Format       Case Study       Case Study       Table patients with an incidence of over 1.8 per 1000 adults. The difference were second factors. In our retrospective analysis of 72 patients, and y 2 whibited complications following ORIF for ankle fractures. This rate a		Practice/Company/Residence	y Program:	Trinity Healt	h Livonia	
Author 5:Oliver Ryan, DPM, ABFAS Author 7:Author 6:Vanessa Adelman, DPM, ABFAS Author 8:PurposeThe primary objective of our study is to assess the incidence of post-arrigical complications. Following ankle fracture treatments through open reduction and internal fraction (OREP) to at distinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication. Tates documented in prior scholarly works.MethodologyForecoduresThis study includes 72 patients who had ORIF for ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.ResultsCohort of 72 patients, 3 individuals exhibited postoperative complications.DiscussionsAnkle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complication following ORIF for ankle fractures. This rate appears lower when compared to recent literature.FormatCase StudyCase Study <th>Authors</th> <th>Author 1: Katherine Te</th> <th>rnent, DPM</th> <th>Author 2:</th> <th>Sam Wier, DPM</th>	Authors	Author 1: Katherine Te	rnent, DPM	Author 2:	Sam Wier, DPM	
Author 7:       Author 8:         Purpose       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation aniss to establish a comparative analysis between our findings and the complication rates documented in prior scholarly works.         Methodology       Procedures       This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.         Format       Case Study         Case Study       Zase Study         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Discusses       Jisclosure(s) selected:       Disclosed Organisation(s):         Rahefine Ternent, DPM       Karem24@gmail		Author 3: Rachel Warn	er, DPM	Author 4:	Ronald Adelman, DPM, ABFAS	
Purpose       The primary objective of our study is to assess the incidence of post-surgical complications following ankle fracture treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication rates documented in prior scholarly works.         Methodology <ul> <li>Procedures</li> <li>This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.</li> </ul> Results         Cohort of 72 patients, 3 individuals exhibited postoperative complications. In urretrospective analysis of 72 patients, only 3 exhibited complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications. In urretrospective analysis of 72 patients, only 3 exhibited complications. In urretrospective analysis of 72 patients, only 3 exhibited complications. In urretrospective analysis of 72 patients, and user ankle fractures. This rate appears lowereretrospective analysis of 72 patients, 3 tota student		Author 5: Oliver Ryan,	DPM, ABFAS	Author 6:	Vanessa Adelman, DPM, ABFAS	
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Procedures       This study includes 72 patients who had ORIF for ankle fractures. Three researchers conducted thorough chart reviews, collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced complications and those who did not.         Results       Cohort of 72 patients, 3 individuals exhibited postoperative complications.         Discussions       Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates after ankle tractures surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.         Format       Case Study         Case Rpt Followup       24         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Discussures       Jisclosure(s) selected:       Disclosed Organisation(s):         Sam Wier, DPM       sanjwier@gmail.com       I/We have nothing to disclose       Image: Sampling of selected:         Sam Wier, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose       Image: Sampling of	Purpose	treatments through open red investigation aims to establis	treatments through open reduction and internal fixation (ORIF) at a distinguished institution in Michigan. This investigation aims to establish a comparative analysis between our findings and the complication rates documented in prior			
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Discussions       Ankle fractures are common, with an incidence of over 1.8 per 1000 adults. The literature varies regarding post-operative complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent literature.         Format       Case Study         Case Rpt Followup       24         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Disclosures       Disclosure(s) selected:       Disclosed Organisation(s):         Katherine Ternent, DPM       kternent24@gmail.com       I/We have nothing to disclose       I/We have nothing to disclose         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose       I/We have nothing to disclose         Oliver Ryan, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose       I/We have nothing to disclose         Vanessa Adelman, DPM,       vadelman@ihacares.com       I/We have nothing to disclose       I/We have nothing to disclose	Procedures	collecting data on patient demographics, medical history, ankle fracture types, hardware used, and complications. Our investigation involved a comparative analysis between distinct patient demographics of those who experienced				
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Case Rpt Followup       24         Student Club       Not a Student Club Poster         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Disclosures       Email:         Full Name:       Email:         Disclosure(s) selected:       Disclosed Organisation(s):         Katherine Ternent, DPM       kternent24@gmail.com         I/We have nothing to disclose       I/We have nothing to disclose         Sam Wier, DPM       samjwier@gmail.com       I/We have nothing to disclose         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose         Ronald Adelman, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose         Oliver Ryan, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose         Vanessa Adelman, DPM,       vadelman@imacares.com       I/We have nothing to disclose	Discussions	complication rates after ankle fracture surgeries, influenced by several factors. In our retrospective analysis of 72 patients, only 3 exhibited complications following ORIF for ankle fractures. This rate appears lower when compared to recent				
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Statutint Chip       Intramation of the form         Classification       Trauma         Level of Evidence       Level IV         Authors/Financial Disclosures       Email:       Disclosure(s) selected:       Disclosed Organisation(s):         Katherine Ternent, DPM       kternent24@gmail.com       I/We have nothing to disclose       Email:       Disclosure(s)         Sam Wier, DPM       samjwier@gmail.com       I/We have nothing to disclose       Email:       Disclosure(s)         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose       Email:       Emai	Case Rpt Followup	24				
Level of Evidence       Level IV         Authors/Financial Disclosures       Disclosure(s) selected:       Disclosed Organisation(s):         Full Name:       Email:       Disclosure(s) selected:       Disclosed Organisation(s):         Katherine Terment, DPM       kternent24@gmail.com       I/We have nothing to disclose       Disclosed Organisation(s):         Sam Wier, DPM       Rachelwarner@gmail.com       I/We have nothing to disclose       Disclose         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose       Disclose         Ronald Adelman, DPM, ABFAS       onaldadelman@ihacares.com       I/We have nothing to disclose       Disclose         Oliver Ryan, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose       Disclose         Vanessa Adelman, DPM, vadelman@@imail.com       I/We have nothing to disclose       Disclose       Disclose	Student Club	Not a Student Club Poster				
Authors/Financial Disclosures         Full Name:       Email:       Disclosure(s) selected:       Disclosed Organisation(s):         Katherine Terment, DPM       kternent24@gmail.com       I/We have nothing to disclose       I/We have nothing to disclose         Sam Wier, DPM       samjwier@gmail.com       I/We have nothing to disclose       I/We have nothing to disclose         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose       I/We have nothing to disclose         Ronald Adelman, DPM, ABFAS       onaldadelman@ihacares.com       I/We have nothing to disclose       I/We have nothing to disclose         Qliver Ryan, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose       I/We have nothing to disclose         Vanessa Adelman, DPM, vadelman@imacares.com       I/We have nothing to disclose       I/We have nothing to disclose	Classification	Trauma				
Full Name:     Email:     Disclosure(s) selected:     Disclosed Organisation(s):       Katherine Ternent, DPM     kternent24@gmail.com     I/We have nothing to disclose     I/We have nothing to disclose       Sam Wier, DPM     samjwier@gmail.com     I/We have nothing to disclose     I/We have nothing to disclose       Rachel Warner, DPM     Rachelwarner@my.rfums.org     I/We have nothing to disclose     I/We have nothing to disclose       Ronald Adelman, DPM, ABFAS     ronaldadelman@ihacares.com     I/We have nothing to disclose     I/We have nothing to disclose       Oliver Ryan, DPM, ABFAS     oliverryan@ihacares.com     I/We have nothing to disclose     I/We have nothing to disclose       Vanessa Adelman, DPM, yadelman@@mail.com     I/We have nothing to disclose     I/We have nothing to disclose     I/We have nothing to disclose	Level of Evidence	Level IV				
Katherine Ternent, DPM       kternent24@gmail.com       I/We have nothing to disclose         Sam Wier, DPM       samjwier@gmail.com       I/We have nothing to disclose         Rachel Warner, DPM       Rachelwarner@my.rfums.org       I/We have nothing to disclose         Ronald Adelman, DPM, ABFAS       ronaldadelman@ihacares.com       I/We have nothing to disclose         Oliver Ryan, DPM, ABFAS       oliverryan@ihacares.com       I/We have nothing to disclose         Vanessa Adelman, DPM,       yadelman@ogmail.com       I/We have nothing to disclose	Authors/Financial D	isclosures				
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Rachel Warner, DPM     Rachelwarner@my.rfums.org     I/We have nothing to disclose       Ronald Adelman, DPM, ABFAS     ronaldadelman@ihacares.com     I/We have nothing to disclose       Oliver Ryan, DPM, ABFAS     oliverryan@ihacares.com     I/We have nothing to disclose       Vanessa Adelman, DPM,     vadelman@@mail.com     I/We have nothing to disclose	Katherine Ternent, DPM	kternent24@gmail.com	I/We have nothing to disclose			
Ronald Adelman, DPM, ABFAS     ronaldadelman@ihacares.com     I/We have nothing to disclose       Oliver Ryan, DPM, ABFAS     oliverryan@ihacares.com     I/We have nothing to disclose       Vanessa Adelman, DPM,     vadelman@mail.com     I/We have nothing to disclose	Sam Wier, DPM	samjwier@gmail.com	I/We have nothing to disclose			
ABFAS     ronaldadelman@ihacares.com     I/We have nothing to disclose       Oliver Ryan, DPM, ABFAS     oliverryan@ihacares.com     I/We have nothing to disclose       Vanessa Adelman, DPM,     vadelman@gmail.com     I/We have nothing to disclose	Rachel Warner, DPM	Rachelwarner@my.rfums.org	I/We have nothing to disclose			
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vadelman6(a)gmail.com I/We have nothing to disclose	Oliver Ryan, DPM, ABFAS	oliverryan@ihacares.com	I/We have nothing to disclose			
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Submission ID	05-00684			Ref ID CS-684	
Title	Synovial Sarcoma - A Tumor of the Ankle	Synovial Sarcoma - A Rare Case Report of a Subfascial Intramuscular Soft Tissue Tumor of the Ankle			
Submit Date	08/29/2023				
Correspondent	Last Name: Kipp				
	Full Name: Noelle	_	Email:	nkipp@kent.edu	
	Practice/Company/Residency	Program:	Cleveland C	linic	
Authors		lougherty, DPM	Author 2:	Mark C. Razzante, DPM	
	Author 3: Christina Pratt		Author 4:	Noelle M. Kipp, MS4	
	Author 5: Kelsi A. Whith Author 7:	low, MS4	Author 6: Author 8:		
Purpose	There is limited data on synov with deep pedal pain. This cas	Synovial sarcoma is a rare and highly malignant soft tissue sarcoma that mostly occurs in young adults under 20 years old. There is limited data on synovial sarcomas of the foot, but clinicians should be suspicious of this condition in young adults with deep pedal pain. This case presentation documents one case of a 14 year old female who had an incidental finding of an ankle synovial sarcoma during a tarsal tunnel decompression by removal of soft tissue mass.			
Methodology					
Procedures	A 14 year old female experienced 2 years of insidious onset of right foot pain with no known trauma or injury. After failing many conservative treatments, the patient came to the clinic for a fourth opinion. A repeat MRI came back as an 8mm superficial subcutaneous fluid intensity with the possibility of a small soft tissue ganglion. The patient and her mother wanted to pursue surgery. The surgery consisted of a tarsal tunnel release and an excision of the mass which came back from pathology as an incompletely excised synovial sarcoma.				
Results	The patient was immediately synovial sarcoma.	The patient was immediately transferred to pediatric oncology and radiation oncology after the excision of the ankle synovial sarcoma.			
Discussions	In the early development of synovial sarcomas there may not be any signs. This can lead to the condition being overlooked. Clinicians should include synovial sarcoma in the differential diagnosis for all deep pedal pain, especially in young adults with unknown origin that has failed multiple treatments. Depending on the nature of the tumor, common treatment options include excision, radiation and chemotherapy, and amputation.				
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Soft Tissue/Tumor				
Level of Evidence	Level IV				
Authors/Financial D	Disclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-00693			Ref ID CS-693	
Title	Recurrent Subcutar and Management A	-	ılare in a 3	-Year-Old Patient: A Case Study	
Submit Date	08/13/2023				
Correspondent	Last Name: Alkhalil				
	Full Name: Hassan Practice/Company/Residen	cy Program:	Email: Ascension Pr	halkhali@kent.edu rovidence Hospital	
Authors	Author 1:Hassan I AlAuthor 3:Akram AljuAuthor 5:Author 7:	khalil, DPM mail, DPM	Author 2: Author 4: Author 6: Author 8:	Alicia Ward, DPM, FACFAS Rachel Height-Kaplan	
Purpose	This case study presents the on the dorsal aspect of her r		t approach for a	3-year-old patient with a slow growing nodule	
Methodology					
Procedures	measuring approximately 1.	.5 cm in diameter in July of 2022	. Surgical excis	cous nodule on the dorsum of the right foot, sion was performed, successfully removing the aneous granuloma annulare (SGA).	
Results	Six months postoperatively, the patient experienced a recurrence of the multiple nodules at the same location along with lateral aspect of her right ankle. Systemic involvement was not observed. A literature review was conducted, revealing similar cases and management approaches. In this case, a conservative approach was chosen, involving topical corticosteroids and close monitoring. Over subsequent months, the lesion gradually resolved and recurred. This case highlights the importance of considering subcutaneous granuloma annulare as a potential diagnosis in young children presenting with soft tissue masses. Surgical excision may provide temporary relief; however, recurrence should be expected. The literature review supports the use of topical corticosteroids as an effective management approach for this condition. Long-term follow-up is crucial to monitor disease progression, recurrence, or systemic involvement				
Discussions	This case study provides insights into the clinical course, management approach, and recurrence of SGA. It highlights the importance of considering this condition as a differential diagnosis and highlights the effectiveness of topical corticosteroids as a treatment option. Further research is warranted to advance our knowledge and improve patient outcomes.				
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification Level of Evidence	Soft Tissue/Tumor Level IV				
Authors/Financial Di Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Alicia Ward, DPM, FACFAS	awade110@gmail.com	I/We have nothing to disclose			
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Rachel Height-Kaplan	rkaplan6@kent.edu	I/We have nothing to disclose			

Submission ID	05-00711 Ref ID CS-711					
Title	Give It A Brake: O	<b>)</b> pen Tongue Type Calca	neal Fracture After 7	<b>Lining Accident</b>		
Submit Date	07/20/2023					
Correspondent	Last Name: Maguire Full Name: Amelia B Practice/Company/Reside	Maguire, DPM ncy Program:	Email: amaguire1@ Geisinger Community Med	)geisinger.edu ical Center		
Authors	Author 1:Amelia MAuthor 3:Nicole BrAuthor 5:Author 7:	aguire anning, DPM, FACFAS	Author 2: Victoria Ga Author 4: Author 6: Author 8:	rcia		
Purpose	causes significant pressur in 21%. In most cases, the	Calcaneal fractures are the most common tarsal fracture, with 1.3-2.7% being tongue-type fractures. This pattern of trauma causes significant pressure on the soft tissue coverage of the posterior calcaneus, resulting in skin ischemia, which occurs in 21%. In most cases, the patient is splinted until the soft tissue envelope has stabilized before undergoing surgical correction. This case study documents an open tongue-type calcaneal fracture that was surgically corrected immediately following a trauma.				
Methodology						
Procedures	presented with a laceration	A 48-year-old male had a zip lining accident where his brakes failed and he crashed into a tree feet first. The patient presented with a laceration and exposed calcaneal bone to the left lower extremity. Imaging confirmed a tongue-type calcaneal fracture with protrusion of the calcaneus.				
Results		Procedures performed were incision and drainage of left heel wound, left Achilles tendon lengthening, and open reduction and temporary external fixation of left calcaneus. Surgical intervention resulted in a reduction of the left calcaneus with return to function.				
Discussions	Tongue-type calcaneal fractures significantly compromise the soft tissue envelope surrounding the calcaneus. Literature shows most are fixated with ORIF weeks after the initial trauma, allowing for soft tissue stabilization. No previous case study has reported an open tongue-type calcaneal fracture that was immediately surgically corrected. Therefore, there is no medical precedent regarding the most appropriate method of surgical correction. This case illustrates a rare occurrence with a novel fix: using an Achilles lengthening and temporary external pinning to reduce an open tongue-type calcaneal fracture immediately following the traumatic incident.					
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
Amelia Maguire	amaguire1@geisinger.edu	I/We have nothing to disclose				
Victoria Garcia	vgarcia3@geisinger.edu	I/We have nothing to disclose				
Nicole Branning, DPM, FACFAS	nbranning@geisinger.edu	Serve in an official capacity (e other medical or podiatric orga		ABPM		

Submission ID	05-00715			Ref ID CS-715	
Title	Putting it on Autop Equinocavovarus (	Putting it on Autopilot: Use of Automated, External Fixation Struts for Equinocavovarus Correction			
Submit Date	08/15/2023				
Correspondent	Last Name: Moon				
	Full Name: Zohaib Practice/Company/Residen	icy Program:	Email: HCA Florida	zohaibmoon3@gmail.com Northwest Hospital	
Authors		on, DPM PGY-3 Sill, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Samuel Clellen, DPM PGY-3	
Purpose	This case review highlights correction.	s the use of automated, external f	ixation struts fo	or combined acute and gradual equinocavovarus	
Methodology					
Procedures	deformity to her left lower severe Cavovarus attitude of deformity. Initially perform capsulotomy, posterior tibit decompression followed by allowed for automatic adju	67-year-old female with PMHx of multiple falls due to alcohol abuse, leading to spinal issues and a progressive dropfoot deformity to her left lower extremity. Presents as wheelchair-bound with a non-reducible equinus ankle contracture and severe Cavovarus attitude of the midfoot/hindfoot. We describe a staged approach for correction of equinocavovarus deformity. Initially performing an acute soft tissue release consisting of tendo-achilles lengthening, talonavicular capsulotomy, posterior tibial tendon release/harvest, spring ligament release, Steindler stripping, and tarsal tunnel decompression followed by application of an automated external fixator for gradual correction. The specialized frame allowed for automatic adjustments via a software-programmed correction plan. 6 weeks after the initial stage, a posterior tibial tendon transfer was performed.			
Results	Stable, plantigrade foot, 12 months out ambulating brace-free. Postoperative AOFAS hindfoot score 88, improved from 40 preoperatively.				
Discussions	Our patient successfully completed the computer-assisted protocol with high satisfaction. While literature on the use of automated stuts are slim, they are unequivocally positive. Gigi 2021 studied 8 patients with pre-programmed adjustments finding less than 1 mm of discrepancy in 94% of the patients, and 2-3 mm in the remaining 6%. Hoellwarth 2022 retrospectively reviewed 16 patients who underwent external fixation with automatic struts, also deeming it to be safe and reliable with all patients achieving the index and residual adjustments as programmed. Clinicians should be aware of the important advantages that may benefit the patient, caregiver, and surgeon.				
Format	Case Study				
<b>Case Rpt Followup</b>	16				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Recons	struction			
Level of Evidence	Level IV				
Authors/Financial Di	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Alan MacGill, DPM, FACFAS alanmacgill@gmail.com Consultant/Advisor/Speaker (List all affiliations) Arthrex, Inc.

Submission ID	05-00716			Ref ID CS-716		
Title		Medial Femoral Condyle Periosteal Free Flap for Femoral Head Allograft Vascularization for Tibiotalocalcaneal Arthrodesis				
Submit Date	08/05/2023					
Correspondent	Last Name: Verdoni					
	Full Name: Tyler J. V	ierdoni	Email:	tyler.verdoni@gmail.com		
	Practice/Company/Reside	ency Program:	Jersey Shore	University Medical Center		
Authors	Author 1: Tyler J. V	erdoni, DPM	Author 2:	Umeer Sheikh, DPM		
	Author 3: Justin J. F	Fleming, DPM, FACFAS	Author 4:	Chrisovalantis Lakhiani, MD		
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose		To present a case report on a 39 year old female with avascular necrosis of the talus who underwent talectomy, femoral head allografting and tibiotalocalcaneal arthrodesis with a periosteal free flap from the medial femoral condyle.				
Methodology						
Procedures	fixation. She developed a arthrodesis. Avascular net free ambulation and have	We present a 39 year old female who initially sustained a talus fracture dislocation and underwent open reduction internal fixation. She developed avascular necrosis requiring debridement with bone grafting in addition to a talonavicular joint arthrodesis. Avascular necrosis persisted and progressed to the entire talus. To maintain a plantigrade foot, give her pain free ambulation and have hopeful bony fusion across the arthrodesis site, she underwent talectomy, femoral head allografting, tibiotalocalcaneal arthrodesis and medial femoral condyle periosteal free flap.				
Results		The patient went on to heal both her free flap site in addition to achieve bony union across the arthrodesis site at her 6 month follow up. At 1 year follow up she is able to ambulate and has no postoperative complications.				
Discussions	Here we present a complicated case of recurrent avascular necrosis of the talus requiring multiple surgeries. Due to patient comorbidities, the decision was made to do a talectomy with femoral head allografting and tibiotalocalcaneal arthrodesis. A medial femoral condyle periosteal free flap was harvested by the plastic surgeon and laid on top of the allograft in attempt to vascularize the graft and assist with arthrodesis. This technique can be used in bone deficits requiring bone grafting to assist with incorporation of the graft.					
Format	Case Study					
Case Rpt Followup	14					
Student Club	Not a Student Club Poste	r				
Classification	Rearfoot and Ankle Reco	nstruction				
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
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Submission ID	05-00717 Ref ID CS-717				
Title	Pigmented Poroma	Pigmented Poroma of The Anterior Leg: A Rare Case Report			
Submit Date	07/20/2023				
Correspondent	Last Name: Harada				
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	Practice/Company/Residency	y Program:	Jefferson He	alth Northeast	
Authors	Author 1: Arden M. Ha	arada DPM	Author 2:	Robert Norton DPM	
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	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	these lesions on the lower ex	A poroma is a benign adnexal neoplasm arising from the intraepidermal portion of a sweat gland duct. The occurrence of these lesions on the lower extremity is unusual. One variant of a poroma is called a pigmented hidroacanthoma simplex (HAS). In literature, there are very few reported cases of this tumor type.			
Methodology					
Procedures	and schizophrenia presented	A case report of a 48 year old male with past medical history of diabetes mellitus type 2, hypertension, seizure disorder, and schizophrenia presented with a nodular lesion to the right anterior leg. Patient provided little history regarding the lesion, but stated that he had noticed it two years prior. He reports increase in size of the lesion. Denied any pruritus, pain, warmth, or drainage.			
Results	On exam, the right lower extremity was edematous with a 2.5 centimeter in diameter nodular lesion that was raised about 1-1.5 centimeters. The mass was red and firm with surrounding hyperpigmented skin. Incisional biopsy was obtained with specimen sent to pathology in formalin. The histopathology results revealed a pigmented poroma, benign lesion. The lesion stained for p40 and scattered melanocytes stained for SOX10 as expected per pathologist. Negative stain for HMB-45.				
Discussions	aims to present on a rare pre-	While benign, a pigmented HAS has the properties to become malignant and should be followed closely. This case report aims to present on a rare presentation of a pigmented HAS on the lower extremity. Given similarities of the lesion presentation to malignant melanoma, this case report is to emphasize the use of skin biopsy to aide in diagnosis of lower extremity lesions.			
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Soft Tissue/Tumor				
Level of Evidence	Level IV				
Authors/Financial Di	isclosures				
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Submission ID	05-00724			Ref ID CS-724	
Title		Primary Antiphospholipid syndrome causing critical limb ischemia and ultimately amputation in an otherwise healthy young female			
Submit Date	07/24/2023				
Correspondent	Last Name: Lyons				
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	Practice/Company/Reside	ncy Program:	Trinity Healt	h Livonia Residency Program	
Authors	Author 1: Katherine	Lyons	Author 2:	Ronald Adelman	
	Author 3: Britney W	enig	Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	Anitiphospholipid syndrome (APS) is an autoimmune disease that frequently manifests as recurrent thrombotic events, ischemic strokes, and miscarriages. APS affecting primarily the arteries is less common than venous thrombosis. The purpose of the current case report is to emphasize that APS should be kept on the differential for arterial ischemic events without another known cause, and should be managed with an interprofessional team approach.				
Methodology					
Procedures	ischemia secondary to AP that Warfarin and Enoxapa underwent multiple vascu investigation was done for is only one other case of f	Our case describes an otherwise healthy 43 year old female presenting with severe pain, foot drop, and critical limb ischemia secondary to APS. Peripheral arterial complications of APS are rare with prevalence of 6%. Research suggests that Warfarin and Enoxaparin are more effective at preventing thrombosis in patients with APS than DOACs. Our patient underwent multiple vascular interventions and was placed on lifelong anticoagulation with Apixaban. No further investigation was done for clotting disorders at that time. Neurologic manifestations of APS are rarely reported, and there is only one other case of foot drop in literature that describes an unusual presentation of stroke in patient with APS. Our case describes a patient that developed foot drop due to thrombosis of a peripheral artery.			
Results		Our patient continued to present with recurrent thrombosis, and eventually was diagnosed with APS. At this point, no further vascular intervention was possible and patient underwent BKA.			
Discussions		•	*	mb loss for our patient. APS should be kept on toms and ischemic arterial thrombotic events.	
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Neurological/Peripheral N	erve Disorders			
Level of Evidence	Level IV				
Authors/Financial D	lisclosures				
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Submission ID	05-00731				Ref ID CS-731		
Title		Traumatic Rupture of Tibialis Anterior following Motor Vehicle Crash with Direct End-To-End Surgical Repair					
Submit Date	08/28/2023						
Correspondent	Last Name: Fischer Full Name: Allison C F Practice/Company/Residen	ischer, DPM cy Program:	Email: Denver Healt		er@gmail.com licine and Surgical Residency		
Authors	Author 1: Allison C F Author 3: Author 5: Author 7:	ischer, DPM	Author 2: Author 4: Author 6: Author 8:	Chad F Simm	ions, DPM, FACFAS		
Purpose	Tibialis anterior rupture is a rare injury that is often diagnosed late rather than in the acute phase. Review of literature shows only 81 identified cases from 1905 to 2018. In this case, the patient arrived for an annual diabetic foot exam when he was noted to have a foot drop 1 week s/p a MVC. Due to early detection, we were able to promptly perform direct end-to-end repair.						
Methodology							
Procedures	strongest muscle in the ante to robust compensatory abi	d only 81 identified cases from 1 rior compartment and comprises lity of remaining dorsiflexors. Pr bute to the success of surgical rep air for long-term success.	80% of dorsifle ior systematic re	exors strength.	These often go undiagnosed due amined surgical vs nonsurgical		
Results	The patient underwent surgical repair of the tendon within 2 weeks of injury. He went on to fully heal and undergo physical therapy. He demonstrated slight decrease in dorsiflexors strength but no longer has foot drop and is able to resume activities of daily living.						
Discussions	also likely contributed to a	We find this case pertinent because of the timeline affecting the method in which we were able to repair the tendon, which also likely contributed to a full recovery. Because it was detected early, we were able to achieve end-to-end repair without requiring augmentation or grafting which is often not an option in these injuries.					
Format	Case Study						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00734			Ref ID CS-734		
Title	Full Thickness Soft T Coverage	Full Thickness Soft Tissue Defects at the Lateral Foot: Consideration for Local Flap Coverage				
Submit Date	08/29/2023					
Correspondent	Last Name: Liu					
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Authors	Author 1:Tiffanie Liu, DAuthor 3:Jonathan FurmAuthor 5:Jayson Atves, JAuthor 7:Jayson Atves, J		Author 2: Author 4: Author 6: Author 8:	Liliya Parkman, DPM Aria Mansoori, DPM Christopher Attinger, MD		
Purpose	full thickness soft tissue defect insertion and eversion strength the lateral column. The purpos	ateral midfoot wounds are complicated in dysvascular/neuropathic patients. 5th metatarsal base prominence may lead to full thickness soft tissue defects. Surgical intervention to remove dead/infected tissue may result in loss of peroneus brevis insertion and eversion strength. Tibialis anterior and tibialis posterior can increase varus deformity, perpetuating stress on the lateral column. The purpose of this study is to present a technique for soft tissue coverage by using local foot flaps for limb salvage in patients who are not candidates for major reconstruction.				
Methodology						
Procedures	86M with right BKA presented with left lateral midfoot wound with 5th metatarsal base bone exposed. The patient is a frail, household ambulator - not deemed a candidate for reconstructive surgery (tendon or free tissue transfer). We opted for limb salvage with local flaps. Angiogram showed patent posterior tibial and peroneal arteries. Flexor digitorum brevis (FDB) and abductor digiti minimi (ADM) muscles are in close proximity of the defect and are both supplied by branches of the posterior tibial artery. An incision distal to the wound along the glabrous junction of the 5th metatarsal was made to expose FDB and ADM muscles. We reflected FDB to allow for 180 degree rotation while maintaining doppler sound. The ADM muscle pedicle was dopplered out and the muscle reflected and lateralized.					
Results	At 2 years, patient continues to	ambulate with cane and pros	thetic.			
Discussions		Patients with decreased baseline function or poor surgical candidates for reconstruction may benefit from local flaps for soft tissue coverage as options for limb salvage.				
Format	Case Study					
Case Rpt Followup	24					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level V					
Authors/Financial D	Disclosures					
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Christopher Attinger, MD

Submission ID	05-00750 Ref ID CS-7			Ref ID CS-750		
Title	Rare case	Rare case of a fibroma of a tendon-sheath of the fourth toe: A case report				
Submit Date	07/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Nguyen Thanh Thao pany/Residenc	T Nguyen, DPM, MPH y Program:	Email: BIDMC	tnguye37@bidmc.harvard.edu	
Authors	Author 1: Author 3: Author 5: Author 7:		T Nguyen, DPM, MPH , DPM, FACFAS 4. Nguyen	Author 2: Author 4: Author 6: Author 8:	Glen Nie Usman Aleem, DPM	
Purpose	strong attacht	Fibroma of the tendon sheath (FTS) is a rare, benign soft tissue tumor, manifests as a painless, slow-growing mass with strong attachment to tendon sheath. FTS involving the toe has been reported in less than 10 cases. This case aims to bring attention to this uncommon FTS as a potential cause of an isolated toe mass.				
Methodology						
Procedures	in progressive showed iso-ir	We report on a rare case of FTS in a 61-year old healthy male with an indolent, slow-growing subcutaneous mass resulting in progressive swelling and joint stiffness, without history of trauma. It circumferentially encompassed the 4th toe. MRI showed iso-intense signals to muscles on T1-weighted images and low- intense signals to muscles on T2-weighted images. Core needle biopsy was performed, consistent with FTS. This was followed by local excision.				
Results	EDL. Histopa	The tumor was a dense, pink-tan, multi-lobulated soft tissue fibrous mass, measuring 4.0 x 3.5 x 1.3 cm, adhering to the EDL. Histopathology revealed a paucicellular dense fibroblastic lesion with extensive stromal hyalinization, consistent with fibroma of tendon sheath. Latest follow-up at 18 months shows no evidence of recurrence.				
Discussions	giant cell tum Malignant tra	FTS involving the toe has been reported in less than 10 cases. The pathogenesis is unclear. It might be misdiagnosed as giant cell tumor of tendon sheath, nodular fasciitis, or fibrous histiocytoma. Treatment is local excision of the mass. Malignant transformation has never been described. This case is reported to highlight this rare soft tissue tumor of the tendon sheath as a possible cause of an isolated mass of the toe.				
Format	Case Study					
<b>Case Rpt Followup</b>	18					
Student Club	Not a Student	Club Poster				
Classification	Soft Tissue/T	umor				
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
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Submission ID	05-00751			Ref ID CS-751		
Title	1	Lower Limb Peripheral Nerve Reset Neurectomy with End-to-Side Nerve Supercharging for Treatment of Foot and Ankle Peripheral Nerve Injury				
Submit Date	08/09/2023					
Correspondent	Last Name: Owor Full Name: Remmy S. C Practice/Company/Residence		Email: Ascension S	sjhremmy.owor@gmail.com nint Joseph-Chicago		
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Purpose	Chronic pain syndromes are complications of foot and ankle surgery, and those undergoing revision procedures are at increased risk. Traditional treatments of chronic pain syndromes largely target symptomatic relief. We describe the successful application of multiple technique micro-nerve procedures for the definitive treatment of peripheral pain syndromes.					
Methodology						
Procedures	The patient is a 42 year old female presenting with hyperesthesia, chronic pain, numbness, after repeated hallux valgus correction surgeries. She failed conservative management course. Nerve injury was confirmed via ultrasound guided nerve injections and EMG/NCV studies. Patient agreed to proceed with surgical interventions described below. Procedure: Superficial peroneal nerve reset neurectomy - neurectomy with conduit-allograft-conduit assisted repair, cutaneous nerve branch target nerve muscle transfer, deep peroneal nerve neurectomy with end to side supercharged nerve transfer to superficial peroneal nerve, and tibial nerve external neurolysis					
Results		Description of reset neurectomy, end-to-side supercharge nerve transfer, nerve decompression, and targeted muscle reinnervation procedure for the successful treatment of chronic pain syndrome in the foot and ankle.				
Discussions	Traditional treatments of chronic pain syndromes are considered inadequate when new procedures become efficacious. Considerations include comprehensive history and physical as well as diagnostic studies before proceeding with peripheral nerve surgery. However, we believe that peripheral nerve surgery techniques are able to treat chronic nerve pain of the foot and ankle.					
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Neurological/Peripheral Ne	rve Disorders				
Level of Evidence	Level IV					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-00753			Ref ID CS-753		
Title	Surgical Treatmo	Surgical Treatment of Congenital Vertical Talus; A Case Report				
Submit Date	07/31/2023					
Correspondent	Last Name: Smith Full Name: Christop Practice/Company/Resi	oher M Smith, DPM, PGY-3 dency Program:	Email: Hunt Regior	csmithdpm@gmail.com al Medical Center		
Authors	-	oher M Smith, DPM, PGY-3 Huntsman, DPM	Author 2: Author 4: Author 6: Author 8:	Joe R Galvan, DPM, PGY-3		
Purpose	of bilateral congenital v	The purpose of this case report is to evaluate the clinical and surgical treatment of a 7 year old male patient with a rare case of bilateral congenital vertical talus. In the following case review, we will be showcasing the utility of surgical management and how it can be favored over non-operative approaches, such as the traditional serial casting methods.				
Methodology						
Procedures	joints with 0.062 k wire	A 7 year old male patient underwent a staged procedure with initial soft tissue release, TAL and pinning of the TN and ST joints with 0.062 k wires. Followed by arthroereisis placement 6 weeks after the initial procedure. Preoperative x-rays revealed a plantar flexed talus with talar axis parallel to the axis of the tibia.				
Results	procedure and care. The overall talar declination Biomechanical evaluati	At 1 year follow up, this patient is ambulating pain free and completely satisfied with the results of this reconstructive procedure and care. The radiographs showed complete correction of the vertical alignment of the Talus and placed the overall talar declination angle to approximately 20 degrees and the calcaneal inclination to approximately 22 degrees. Biomechanical evaluation revealed a rectus-slight inversion hindfoot and rectus-slight eversion of the forefoot in relation to the rearfoot. He is now able to walk, run, squat, jump without pain or complications.				
Discussions	subtalar joint followed	We believe a staged procedure consisting of an Achilles tendon lengthening, soft tissue release, pinning the TN and subtalar joint followed by an arthroereisis placement is a reliable procedure of choice for correcting a congenital vertical talus that has failed conservative treatment.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Pos	ter				
Classification	Rearfoot and Ankle Rea	construction				
Level of Evidence	Level IV					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-00763			Ref ID CS-763
Title		External Fixator Devic Loss of Talus in Charce		l Lengthening in a Tibiocalcaneal thropathy
Submit Date	08/31/2023			
Correspondent	Last Name: Farhan Full Name: Mohammed Practice/Company/Residence	A. Farhan, DPM 29 Program:	Email: Advanced Fo	drfarhan@afacutah.com ot and Ankle Center
Authors		A. Farhan, DPM niller, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Amanda Khoury, DPM, AACFAS
Purpose	The rearfoot is the second most commonly affected location for Charcot Neuroarthropathy(CN). Often rearfoot CN is associated with talar destruction causing a limb length discrepancy(LLD). The LLD causes an increased rate of pressure ulcers to the shorter limb. Traditionally a femoral head allograft(FHA) has been used to address LLD but they have shown to have high complication rates. This case used an alternative method to address the LLD in a patient with CN			
Methodology				
Procedures		t underwent a tibiocalcaneal arth us to charcot and an infection. Sl		ial lengthening and flipper foot osteotomy for id and hindfoot ulcer
Results	Patient underwent a 25mm lengthening of the tibia over 5 months paired with a tibiocalcaneal arthrodesis at initial frame application. External fixator was replaced with a hindfoot nail at 5months. The ulcer healed while in the external fixator and remains healed 20 months postoperatively with successful fusion at the tibiocalcaneal and lengthening sites			
Discussions	Tibiotalocalcaneal arthrodesis has been the procedure of choice to create a rigid stable hindfoot to allow for ambulation in rearfoot charcot. rearfoot charcot has a high incidence of talar loss and FHA and other allografts have shown to fail at a high rate, in not only charcot but healthy patients. The tibial lengthening allowed for direct tibiocalcaneal arthrodesis, which has a higher arthrodesis rate, and used the patient's own healthy bone to gradually address the LLD, and allowed soft tissue structures to adapt to the lengthening			
Format	Case Study			
<b>Case Rpt Followup</b>	20			
Student Club	Not a Student Club Poster			
Classification	Rearfoot and Ankle Reconst	truction		
Level of Evidence	Level IV			
Authors/Financial Di	sclosures			
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Submission ID	05-00766			Ref ID CS-766		
Title	<b>Beyond Lisfranc: A</b> S	Beyond Lisfranc: A Systematic Surgical Approach for Complex Midfoot Trauma				
Submit Date	08/26/2023					
Correspondent	Last Name: Pritchett Full Name: Blake E Pritcl Practice/Company/Residency	·	Email: University o	bpritchdpm@gmail.com f Louisville		
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Purpose		The purpose of this seven-patient series is to present a 5-step approach used at a Level I Trauma Center for the surgical management of patients presenting with severely comminuted and unstable Lisfranc injuries.				
Methodology						
Procedures	treated with the same 5-point reestablishment of 2nd cuneif unstable. Literature Review: 0 treatment; Kadow (2014) stag	surgical approach: primary me form as keystone, 2nd metatars: Cain (1981) initial algorithm; C ged these procedures with exter	dial column st al restoration, j Cenatiempo (20 mal fixation; B	er with high-energy midfoot injuries and were abilization, longitudinal traction of foot, percutaneous pinning of lateral column, if 019) published on similar injury patterns and offeli (2014) reported a single case with similar rifying success rates between approaches		
Results	Five of the seven patients made full recovery with an average return to activity of 9.4 weeks. One patient went on to TMA due to infection from the initial injury, but has also returned to full activity. One of the seven patients did not recover due to noncompliance with ambulation of the postoperative limb. All patients have >1 year follow up.					
Discussions	Our study adds to existing research in this field by (a) providing a series of severe Lisfranc injuries with different injury patterns and fixation techniques with an identical surgical approach, (b) advocating for use of different medial column reduction methods to restore length and stability, (c) advocating for use of staged management of these injuries where soft tissue is compromised.					
Format	Case Study					
Case Rpt Followup	14					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	Disclosures					
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Submission ID	05-00773			Ref ID CS-773
Title	Percutaneous dista Metatarsal Head		netatarsals f	for Chronic Non-Healing 2nd
Submit Date	08/02/2023			
Correspondent	Last Name: Alikhani- Full Name: Amir, P, A Practice/Company/Reside	likhani-Koopaei, DPM	Email: LECOM He	tuh48938@temple.edu alth/Millcreek Community Hospital
Authors	Author 1: Amir, P, A Author 3: Author 5: Author 7:	likhani-Koopaei, DPM	Author 2: Author 4: Author 6: Author 8:	Anthony, D, Colonna, DPM, FACFAS
Purpose	Distal osteotomy of the le of the second metatarsal.	sser metatarsals can be a viable	solution for a ch	ronic non-healing ulceration located at the head
Methodology				
Procedures	improving ulcer on the rig offloading boot, skin subs	ght sub-metatarsal 2. Despite for stitute, total contact cast, and co	ur months of loca llagen powder, th	other podiatrist, leading to concern about a non- l wound care and various treatments such as e wound did not show improvement. To address g osteotomy of metatarsals 2-5 via a minimally
Results	The patient's ulcer healed	within three weeks and remain	ed healed during	the most recent twelve-month follow-up.
Discussions	plantar to the metatarsal h its new position, leading t elimination of callus, and	eads in neuropathic patients. It o a rapid response of the planta	allows the affecter r soft tissue to off n the affected are	g resistant and recurrent ulcerations located ed metatarsal head to be elevated and settle into Cloading. This results in ulcer healing, a. The procedure is relatively simple and quick, s.
Format	Case Study			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Student Club Poster	r		
Classification	Diabetic Foot			
Level of Evidence	Level IV			
Authors/Financial Di	isclosures			
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Submission ID	05-00830			Ref ID CS-830		
Title	Geometri report.	Geometric anatomy of minimally invasive hallux valgus surgery fixation: a case report.				
Submit Date	08/04/2023					
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	Author 3:	Andrew J. Meyr, DPM FACFAS	Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	than more tra	The post-operative radiographs of minimally invasive hallux valgus fixation techniques have a different visual appearance than more traditional constructs. In fact, it can often appear that the resultant anatomy is "more metal than metatarsal". The objective of this investigation was to perform a geometric analysis of the fixation of minimally invasive hallux valgus surgery.				
Methodology						
Procedures	cannulated 4 the first meta screw was in of a foot CT proximal to t metatarsal at	0mm screws in the first metatarsal. A uniplatarsal-phalangeal joint. The lateral screw w	lanar perpendicular vas inserted 11.6mr /hat made subject ( (18.3mm) and widt ore, calculation of	both the cross-sectional area of the first		
Results		The two 4.0mm screws were 11.5% [25.1/218.4] of the cross-sectional area of the metatarsal osteotomy and 7.8% [341.6/4367.1] of the volume of the capital fragment.				
Discussions	The results of this investigation provide evidence that, despite a relatively unique radiographic appearance, the hardware construct for minimally invasive hallux valgus correction involves a small percentage of the cross-sectional anatomy of the osteotomy and volume of the capital fragment.					
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Forefoot Rec	onstruction				
Level of Evidence	Level V					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		

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FACFAS	, , <u>, , , , , , , , , , , , , , , , , </u>	Member of a medical publication or editorial governing board	JFAS

Submission ID	05-00844			Ref ID CS-844		
Title	Total Anl	Total Ankle Arthroplasty with Custom 3D Printed Talus: A Case Study				
Submit Date	08/06/2023					
Correspondent	Last Name: Full Name: Practice/Con	Issac Akhila ıpany/Residency Program:	Email: Nebraska Fo	drissac@prfootandankle.com oot and Ankle Reconstructive Surgery Fellowship		
Authors	Author 1: Author 3: Author 5: Author 7:	David Waters DPM, FACFAS Akhila A Issac DPM	Author 2: Author 4: Author 6: Author 8:	Evan Lenertz DPM, AACFAS Ashley Anderson PA-C		
Purpose	universal imp implant desig	3D printed implants are a relatively new advancement in foot and ankle reconstruction, which can overcome the pitfalls of universal implants that may not conform to a patient's specific anatomy. We believe that a custom printed total talus implant designed to articulate with a tibial tray and TAR poly spacer is an appropriate option for a patient with talar collapse and concomitant tibiotalar joint arthritis to retain hindfoot motion and improve pain and quality of life.				
Methodology						
Procedures		d non-diabetic male presented with chronic lef ponent of the implant with ankle arthritis and		er TAR and two revisions. There is subsidence of f the talus on imaging.		
Results	No evidence	of implant loosening or subsidence and return	to pain-free no	rmal function		
Discussions	(talectomy, a of peritalar in demands of t	nstability. Arthrodesis results in loss of motior he patient in terms of individual anatomy and	thout pitfalls. Is of the peritalar biological funct	sues arise in talectomy with the increased chance joints. Universal implants fail to meet the		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Reconstruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		

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Submission ID	05-00845			Ref ID CS-845		
Title	0	Osteogenesis Salvage Options for Large Segmental Bone Defects following Total Ankle Replacement Explant				
Submit Date	08/18/2023					
Correspondent	Last Name: Page Full Name: Trevor S. P Practice/Company/Residen		Email: Virginia Mas	tspageaz@gmail.com on Franciscan Health		
Authors	Author 1:Trevor S. PAuthor 3:Todd M. ClAuthor 5:Author 7:	age, DPM nappell, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Oliver A. Knauer, DPM Byron L. Hutchinson, DPM, FACFAS		
Purpose	Surgeons attempting salvage hindfoot/ankle arthrodesis following explant of failed total ankle prosthesis must address large osseous defects in order to prevent future complications of limb length discrepancy. Current literature includes multiple techniques to address these challenging cases, including revision total ankle arthroplasty and revision tibiotalocalcaneal (TTC) arthrodesis with structural allografts or metallic implants. Minimal literature exists regarding application of llizarov and other osteogenesis techniques in the setting of revision ankle arthrodesis (TAA) following total ankle replacement (TAR) explant.					
Methodology						
Procedures	following TAR prosthesis e	A single-institution, retrospective review of six cases of TTC arthrodesis with critical-sized segmental bone defects following TAR prosthesis explant was performed. Demographic, radiographic and outcome data were analyzed. The average follow-up was 35.35 ± 32.31 months.				
Results	Procedures included two TTC arthrodesis with metallic implant and retrograde intramedullary nail, three TTC arthrodesis with distal tibial corticotomy distraction osteogenesis with external fixation, and one TTC fusion with Masquelet induced membrane (MIM) technique with external fixation and retrograde intramedullary nail.					
Discussions	functional limb. One patien		intramedullary	the fusion site and a clinically stable, nail due to tibial shaft fracture, with antegrade without internal hardware.		
Format	Case Study					
Case Rpt Followup	35					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recons	struction				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-00848				Ref ID CS-848	
Title		Metal Allergy and the Use of Custom Implants in Primary Total Ankle Replacement: A Case Study				
Submit Date	08/08/2023					
Correspondent	Last Name:	Ekladios				
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	Author 3:	James M. Cot	ttom DPM FACFAS	Author 4:		
	Author 5:			Author 6:		
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Purpose	with orthoped pre-operative	Patients with metal allergy often go undiagnosed prior to surgery. This can lead to increased complication rates, especially with orthopedic implants as many are composed of variable metals. The purpose of this case study is to highlight the use of pre-operative allergy testing in patients with known history of metal allergy, and to report in literature the success of custom printed orthopedic total ankle implants manufactured without the use of traditional metal compositions.				
Methodology						
Procedures	years prior. S Appropriate i excellent can total knee arth positive allers	The patient originally presented to the clinic with post-traumatic end-stage ankle arthritis after a skydiving accident 20 years prior. She had been treated conservatively for many years with minimal success before referral to our institution. Appropriate imaging was obtained prior to surgery to assess for periarticular bone quality. The patient was found to be an excellent candidate for ankle replacement surgery. The patient did report a history of metal allergy complications with prior total knee arthroplasty. Referral was then made to an Allergist for comprehensive metal patch testing, which revealed positive allergies to cobalt, nickel, and palladium. Industry partners with custom printing capabilities were contacted and a cobalt-free titanium-majority implant was manufactured.				
Results			ed recovery with partial weig months were uneventful.	htbearing at post	t-op week 3 in a short leg cast. Follow-ups at	
Discussions		Very few cases of metal sensitivity to total ankle replacement exist in the literature. However, when addressed with proper pre-operative planning and industry collaboration, these patients can expect favorable outcomes with custom printed implants.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student	Club Poster				
Classification	Rearfoot and	Ankle Reconstr	uction			
Level of Evidence	Level V					
Authors/Financial Di	isclosures					
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Submission ID	05-00850 Ref ID CS-8						
Title		Pyoderma Grangrenosum: A case study with multiple surgical debridement's and application of ovine forestomach matrix graft as alternative to below knee amputation					
Submit Date	08/28/2023						
Correspondent	Last Name: Mason Full Name: Avery, J, Ma Practice/Company/Residence		Email: Ascension S	amasondpm@gmail.com it. John			
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Purpose	Limb salvage utilizing ovin	e forestomach matrix in surgica	al management o	of severe pyoderma gangrenosum.			
Methodology							
Procedures	with irregular, undermined of infiltrates without vasculitis driven disorder involving gg challenging due to its unpre systemic inflammation and challenging. Topical and sys	Pyoderma gangrenosum (PG) is a rare, inflammatory skin disorder characterized by rapidly progressing, painful ulcers with irregular, undermined edges. Diagnosis is mainly clinical, skin biopsies can be supportive, revealing neutrophilic infiltrates without vasculitis or infection. The exact cause of PG remains unclear, but it's believed to be an autoimmune- driven disorder involving genetic predisposition, immune dysregulation, and environmental triggers. Managing PG is challenging due to its unpredictable course and potential resistance to treatment. Therapeutic strategies aim to control systemic inflammation and address underlying comorbidities, however management of the dermatological lesions remains challenging. Topical and systemic corticosteroids, immunosuppressive agents, and biologic therapies targeting TNF- $\alpha$ or IL-1β have been used with varying success-may impact healing though.					
Results	With a multidisciplinary clin forestomach matrix graft an	Suffering from an extensive PG lesion, the patient was recommended to undergo a below knee amputation multiple times. With a multidisciplinary clinical team, the patient underwent multiple surgical debridement's and applications of ovine forestomach matrix graft and ultimately achieved epithelialization of the lesion, noted improved pain, and was able to ambulate. No evidence of wound recurrence at the 12-month follow-up.					
Discussions	of targeted therapies, but tre with application of ovine fo	PG can have significant implications for patient quality of life. Understanding its pathogenesis has led to the development of targeted therapies, but treatment remains challenging and requires a multidisciplinary approach. Surgical debridement with application of ovine forestomach matrix and management with a multi-disciplinary team can be an effective treatment option for the most extensive PG patients.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Wound Care/Infectious Dise	eases					
Level of Evidence	Level IV						
Authors/Financial I	Disclosures						
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Submission ID	05-00852				Ref ID CS-852		
Title	A Rare Ca	A Rare Case of Symphalangism of the Hallux Interphalangeal Joint					
Submit Date	08/09/2023						
Correspondent	Last Name: Full Name: Practice/Com		Schneiders, DPM cy Program:	Email: The Pediatrie	hrschneiders@gmail.com c Orthopedic Center		
Authors	Author 1: Author 3: Author 5: Author 7:		Schneiders, DPM lomon, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Joslin L. Seidel, DPM, AACFAS		
Purpose	This publicati	on presents a	unique case of a first interphalar	igeal joint coali	ition in a 6-year-old female patient.		
Methodology							
Procedures	palpation. Rad Conservative	diographs indi treatment fail	icated a potential osseous irregul	arity, suggestin	lux, limited range of motion, and tenderness on g an old avulsion fracture or coalition. ervention. Intraoperatively, an extra-articular		
Results	resolved upon shoe to a supp	The immediate postoperative period was complicated by an allergic reaction to the chlorhexidine prep, which promptly resolved upon removal of the prep with rubbing alcohol. One week after surgery, the patient transitioned from a surgical shoe to a supportive shoe. At the one-year follow-up, she remained pain-free, with full range of motion in the affected joint, and no evidence of recurrence.					
Discussions	joint involven subdivided tru prevalent form immobility, le	Symphalangism is a rare syndrome characterized by joint fusion in the hands and/or feet, with proximal interphalangeal joint involvement being more common. Flatt and Wood classified symphalangism into different types, while Back further subdivided true symphalangism into grades based on joint fusion extent. Distal symphalangism of the fifth toe is the most prevalent form, rarely affecting other toes or the hallux. Clinically, symphalangism presents as joint stiffness and immobility, leading to various foot pathologies and an increased risk of osteoarthritis. Awareness of pedal symphalangism is crucial, as it is seldom reported, and surgical resection has shown successful outcomes for patients.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student	Club Poster					
Classification	Biomechanics	and Anatom	у				
Level of Evidence	Level V						
Authors/Financial Di	isclosures						
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Submission ID	05-00853				Ref ID CS-853
Title	The Use Series	of an Acellular	Wound Matrix For	• Mohs Su	rgical Reconstruction: A Case
Submit Date	08/09/2023				
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	Practice/Con	npany/Residency Pro	ogram:	Thibodaux F	tegional Health Systems
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	Author 5:	Alexandra Thorto	on	Author 6:	
	Author 7:			Author 8:	
Purpose	The purpose procedure.	of this study is to ex	amine the use of an acellula	r wound matr	ix for surgical reconstruction after a Mohs
Methodology					
Procedures	tissue recons However, no	struction in plastic su literature has been f	rgery, in diabetic foot ulcera ound for the use of these m	ations, and afte atrices for low	ge range of soft tissue deficits, including soft er oncological surgical resection of lesions. er extremity Mohs procedure reconstructions. trix after Mohs resection of a skin lesion.
Results	the mean wo complication patients also	ound size was 4.4 x 4 as during the healing underwent adjunct p	.0 x 0.8cm. Total time to he process, including 4 infecti procedures, including split th	aling was 139 ons, 4 lesion r tickness skin g	w up. The average follow up was 140 days and days from Mohs procedure. There were 8 ecurrences, and 1 graft failure. 22 (75.9%) grafts and debridements. Almost all patients with and returned to daily activity and work without
Discussions	tissue void a		. Patients were noted to hav		for lesions in the lower extremity to fill the soft grates at the time of follow up and most were
Format	Case Study				
Case Rpt Followup	12				
Student Club	Not a Studen	nt Club Poster			
Classification	Soft Tissue/T	Fumor			
Level of Evidence	Level IV				
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Submission ID	05-00860			Ref ID CS-860
Title	Staged Revisional To Joint Infection: A Ca		nt in the Se	tting of Delayed Periprosthetic
Submit Date	08/30/2023			
Correspondent	Last Name: Singh Full Name: Ravnik Singh, Practice/Company/Residency		Email: Corewell Hea	ravnik.singh@corewellhealth.org alth - Wayne
Authors	Author 1: Ravnik Singh, Author 3: Author 5: Author 7:	DPM	Author 2: Author 4: Author 6: Author 8:	Lawrence Fallat, DPM FACFAS
Purpose		no consensus standard of care	for treatment, h	plications associated with total ankle owever appropriate management of this g-term functionality.
Methodology				
Procedures	the left ankle. Radiographs re- incision and drainage with mu a consult placed to infectious continued with outpatient foll- and the patient underwent a se	vealed distal tibial periostitis a ultiple bone biopsies of the dis disease for antibiosis. The bor ow-up. 2 months later, new rac econd surgery consisting of tib	nd tibial tray lo tal tibia. Follow ne biopsies were diographs demo vial tray remova	tief complaint of pain, erythema, and edema to ossening. The patient subsequently underwent ing the procedure, the patient was admitted with e negative for osteomyelitis and the patient nestrated further displacement of the tibial tray l, insertion of a PMMA antibiotic spacer, and ent underwent another course of antibiotics per
Results		ollowing revisional TAR, the p		n, and underwent revisional TAR with a long- tained pain-free ROM of his ankle joint and
Discussions	PJI is a rare albeit increasingly increasing, the podiatric surge			AR patient. With the rate of TAR procedures PJI should it be encountered.
Format	Case Study			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Student Club Poster			
Classification	Rearfoot and Ankle Reconstru	iction		
Level of Evidence	Level IV			
Authors/Financial D	Disclosures			
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Submission ID	05-00867			Ref ID CS-867		
Title	A Novel Approach to Allograft	o Stage 2/3 Hallux Rigi	dus with C	heilectomy, Osteotomy, and		
Submit Date	08/30/2023					
Correspondent	Last Name: Misra Full Name: Anita Misra, Practice/Company/Residency	<i>,</i>	Email: Memorial Hea	anitaxmisra@gmail.com lth Care System		
Authors	Author 1:Anita Misra,Author 3:Michael A. RAuthor 5:Author 7:	DPM, MS Livera, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Naveed Chippa, DPM, MS		
Purpose	cheilectomy in conjunction v rigidus may be caused by an gait (1). The addition of a de	This study aims to investigate a novel approach to the management of stage 2 and 3 hallux rigidus by performing a cheilectomy in conjunction with a decompressive osteotomy as well as addressing osteochondral defects if present. Hallux rigidus may be caused by any condition that limits the ability of the first metatarsal to plantarflex in the late stance phase of gait (1). The addition of a decompressive osteotomy in addition to performing a cheilectomy shows promise as an adjunct. Additionally, there are few studies showing the use of osteochondral autografts in the first metatarsal.				
Methodology						
Procedures	patients who were found to h	ave an osteochondral cyst to the	e first metatarsal	ge osteotomies were included in this study. In head, an allograft was placed for lesions less mum of 12 months follow up for each patient.		
Results		nd post-operative VAS and AOF showed significant improvement		res to analyze the improvement in patient following the procedure.		
Discussions	as well as objective symptom	ns and should be considered who	en addressing th	at improvement in patient reported subjective is deformity. In addition, in the case of utograft should be considered as well.		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00871					Ref ID CS-871
Title	Orthogon	Orthogonal Plating for Nonunion Jones Fracture in Collegiate Athlete: Case Report				
Submit Date	08/14/2023					
Correspondent	Last Name: Full Name: Practice/Com	Holte Nathaniel, M, pany/Residency		Email: Iowa Methoo	nathanielholte list Medical Cent	· •
Authors	Author 1: Author 3: Author 5: Author 7:	* ·	DPM, FACFAS Holte, DPM, PGY-II	Author 2: Author 4: Author 6: Author 8:		et, DPM, PGY-III , DPM, PGY-I
Purpose	refracturing. documents th	Collegiate athlet e treatment of a	g injuries with treatments having the shave a tendency to place incomplicated nonunion Jones fr essful return to play.	reased externa	l forces on the 5t	h metatarsal. This case report
Methodology						
Procedures	nonunion, del between 4-12 follows a coll	Surgical complication rates for Jones fractures treated with IM fixation remain high at 19%, including painful hardware, nonunion, delayed union, refracturing and infection. For athletes, the nonunion and refracture rates have been reported between 4-12%, with some studies reporting a refracture rate as high as 30% for elite level athletes. This case report follows a collegiate athlete undergoing orthogonal plating for a nonunion Jones fracture with refracturing. Dual 90-degree plating provided a rigid construct that allowed full return to play at 6 weeks.				
Results	Collegiate ath	lete with acute	on chronic Jones fracture return	ns to play at 6 v	weeks after revisi	ion surgery.
Discussions	Intramedullar Orthogonal p compared to t	Jones fractures can be difficult to treat especially in high level athletes who exert explosive side to side motion. Intramedullary screws do not provide stability in the coronal plane and athletes are prone to refracturing and nonunions. Orthogonal plating was chosen due to initial complications. This technique provides increased physiological stability compared to the IM screw or single plantar plating. Foot and Ankle Surgeons should consider this construct for complicated revision Jones fractures in athletes.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student	Club Poster				
Classification	Trauma					
Level of Evidence	Level V					
Authors/Financial Di	isclosures					
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Submission ID	05-00872			Ref ID CS-872		
Title	A Unique Case of Pedia Coalition	tric Calcaneal Osteoc	hondroma Causing	Subtalar Joint		
Submit Date	08/21/2023					
Correspondent	Last Name: Thompson Full Name: Rosemary, J, Tho Practice/Company/Residency Pro	-	nail: rosie.thompsor Indersen Health System	@gundersenhealth.org		
Authors	Author 1: Rosemary J. Thou Author 3: Author 5: Author 7:	Au	thor 2: Jonathan B. Pe thor 4: thor 6: thor 8:	terson, MD		
Purpose	knowledge, there has been only or reported in the literature, which w	Osteochondromas are a common benign tumor, however there are few reported cases arising from the calcaneus. To our knowledge, there has been only one other reported case of calcaneal osteochondroma causing subtalar joint coalition reported in the literature, which was reported in an adult male. This pediatric case study aims to document and explore the clinical identification and surgical management of this unique presentation of osteochondroma.				
Methodology						
Procedures	treatment. Pertinent exam finding palpation inferior to the medial m	An 11-year-old male with a three-year history of progressively worsening right foot pain refractory to conservative treatment. Pertinent exam findings include a rigid flat foot with decreased subtalar joint range of motion, tenderness on palpation inferior to the medial malleolus. CT revealed a fragmented ossification in the area of the medial facet. Surgical excision was performed with intraoperative findings of an osseocartilaginous mass located within the medial facet.				
Results		The histopathological analysis found viable bone with hyaline cartilage cap, consistent with an osteochondroma. Post- operatively, the patient had significant improvement in pain and subtalar joint range of motion.				
Discussions	diagnoses of pediatric foot pain, o our case, the patient reported pair	Although osteochondromas of the foot, particularly the calcaneus, are rare, they should be considered in differential diagnoses of pediatric foot pain, even when a coalition is suspected. Many osteochondromas are asymptomatic, however in our case, the patient reported pain and loss of function requiring complete resection of the joint occupying mass. When the cartilage cap is resected in total, like in our case, the recurrence rate is much lower. To date, there has been no recurrence of osteochondroma in this patient.				
Format	Case Study					
Case Rpt Followup	15					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial	Disclosures					
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Submission ID	05-00880			Ref ID CS-880		
Title	Acute Vs. Gradual (	Acute Vs. Gradual Correction of Charcot				
Submit Date	08/17/2023					
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Purpose	each option, and implication		treatment outc	acute or gradual correction, key points about ome. Both choices can exhibit challenges for the actors.		
Methodology						
Procedures	This study focuses on a 49-year-old male who has Charcot with wounds and blisters to his right foot that had been treated conservatively. He was immobilized in a below knee cast after an acute flare and requested a long-term solution. Gradual correction is often a two-pronged approach, with external fixation in the primary step that prepares the foot for a rigid implantation of internal fixation as the second step. External fixation primarily maintains reduction, prevents collapse of the foot, aids in soft tissue management, and provides a more rigid form of skeletal stabilization. On 7/5/22, patient underwent right foot gastrocnemius recession, midfoot osteotomy, and external fixator application. On 8/16/22, he underwent right external fixation removal, triple arthrodesis, and midtarsal arthrodesis.					
Results		One year follow-up demonstrated that the patient's midtarsal, subtalar, and ankle joints showed excellent anatomical alignment on radiograph. His surgical wounds have healed appropriately and the patient is continuing physical therapy.				
Discussions		increased patient satisfaction a		tion has become a preferred option due to ore optimal reconstructive procedure for		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstr	ruction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00887				Ref ID CS-887		
Title	Reverse Sural Arter Tendon Injury	Reverse Sural Artery Flap for GSW-Induced Open Calcaneus Fracture and Achilles Tendon Injury					
Submit Date	08/31/2023						
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Purpose	Highlight comprehensive ap gunshot wound.	proach in management of a cata	strophic lower	extremity injury	resulting from atraumatic		
Methodology							
Procedures	year-old male with no signif and substantial loss-of-doma salvage involving multiple t calcaneal closed reduction w MDRO infection. Hyperbari salvage was performed via c	re bone and soft tissue damage l ficant past medical history who s ain including soft tissue and bon echniques and multidisciplinary vith external fixation, serial debi ic oxygen therapy and IV antibic combined approach with externa nsisted of serial graft application	sustained traum y defect. This s approach.Treat ridements and s otic therapy we l fixator and sta	atic GSW, result tudy demonstrate ment comprised ubtotal Achilles re utilized to cle- iged supercharge	ting in open calcaneal fracture tes long-term lower limb l various strategies: initial tendon excision secondary to ar the infections. Definitive limb ed reverse sural artery flap; the		
Results	tissue infections were succes Frame/flap protocol enabled	Frame/flap combo limb savlage protocol improved the patient's condition substantially. His calcaneal fracture and soft tissue infections were successfully addressed as result of meticulous surgical procedures, wound care, and HBOT. Frame/flap protocol enabled the patient to regain full weight-bearing capability, and achieved appropriate ROM and strength. Ultimately, patient attained functional recovery with satisfactory gait.					
Discussions	multifaceted approach, invo coordination and integration	This case emphasizes complexities of managing gunshot injuries to the lower extremities. It underscores the need for multifaceted approach, involving a range of surgical interventions and a collaborative, multidisciplinary team. Effective coordination and integration of these strategies were pivotal in achieving successful outcomes for the patient's comprehensive rehabilitation.					
Format	Case Study						
<b>Case Rpt Followup</b>	18						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00888			Ref ID CS-888			
Title	A Rare Case of Brodie's Abscess in the Tibial Diaphysis Masquerading as a Vaso- occlusive Sickle Crisis						
Submit Date	08/17/2023	08/17/2023					
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Purpose		Clinicians should be aware that patients with sickle cell disease are prone to Brodie's abscess, and it should be a differential for symptoms of relenting bone pain					
Methodology							
Procedures	A 19-year-old male with a history of sickle cell anemia presented to the hospital with worsening left lower extremity pain. Given his acute presentation and history of recurrent pain crises, he was admitted to the hospital for management of a suspected acute pain crisis. An MRI, among other exams, were ordered, revealing heterogenous T1 and T2 hyperintense signals within the proximal tibial diaphysis measuring 6.6 x 1.6 x 2.2 cm with a thick rim of peripheral irregular enhancement with surrounding periosteal reaction and soft tissue edema, concerning for osteomyelitis and developing Brodie's abscess.						
Results	The patient underwent irrigation and debridement of the tibia with the placement of vancomycin and tobramycin beads. Perioperatively, minimal purulence was noted in the tibial canal. The patient was discharged home within two weeks from admission and sent home with a peripherally inserted central catheter line to complete a total of six weeks of intravenous antibiotics with piperacillin-tazobactam with no complications						
Discussions	Patients with sickle cell disease are prone to Brodie's abscess which can be quiescent in presentation. Hence, it should be considered one of the differentials in these patients, especially if the relenting bone pain is near the metaphysis. Therefore, there should be a low threshold for radiologic investigations in suspected cases to differentiate it from a vaso-occlusive crisis.						
Format	Case Study						
<b>Case Rpt Followup</b>	12	12					
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV	Level IV					
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Submission ID	05-00893			Ref ID CS-893		
Title	Tibialis Anterior Tendon Reconstruction Utilizing Split Tendon Turndown: A Case Report and Technique Guide					
Submit Date	08/18/2023					
Correspondent	Last Name: Hill Full Name: Zachary I Practice/Company/Reside	P. Hill, DPM ency Program:	Email: Grant Medic	zph1582@gmail.com al Center		
Authors	•	P. Hill, DPM R. Holmes, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Ryan J. Stone, DPM, AACFAS		
Purpose	Tibialis anterior tendon (TAT) ruptures are relatively rare injuries with incidence of less than 1% of all musculotendinous injuries. Direct end-to-end repair is the preferred method for TA tendon ruptures, but it may not be feasible in cases where there is a large residual tendon defect. The authors present a unique technique utilizing a minimal incision TA tendon turndown with dermal matrix allograft augmentation and a successful case where this technique was employed in a patient with a large insertional defect.					
Methodology						
Procedures	A 67-year-old male with pain to the right anterior ankle for 2 months. Found to have chronic TAT rupture via MRI. Intra- operatively, there was an 8cm TAT deficit with no viable distal attachment following debridement. Surgical intervention included TAT reconstruction via split TAT turn-down with dermal matrix allograft augmentation. Technique guide included.					
Results	The patient was followed postoperatively for 12 months. At final follow-up, the patient's postoperative VAS pain score was 1.0. The postoperative FAAM score was 81/84 (96%). The Oxford muscle power strength was 5/5, with a symmetrical ankle joint range of motion. The patient was "very satisfied" with his procedure and would undergo again. No postoperative complications noted. At one year, he is pain-free without restrictions.					
Discussions	TA ruptures remain a challenging pathology for surgeons to manage, as there is a lack of treatment guidelines and functional recovery is unpredictable. We describe a versatile, minimal incision surgical technique and feature a case study to illustrate the successful management of chronic TA ruptures that aren't amenable to end-end repair.					
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstruction					
Level of Evidence	Level IV	Level IV				
Authors/Financial D	isclosures					
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Submission ID	05-00895			Ref ID CS-895			
Title	Periprosthetic Total Ankle Replacement Fractures						
Submit Date	08/18/2023						
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Authors	•	Hill, DPM genova, DO		ph R. Brown, DPM jamin Taylor, MD, FAAOS			
Purpose	Traumatic periprosthetic fractures around total ankle replacements (TAR) are rare, with less than 13 cases reported. TAR usage continues to rise, thus periprosthetic fractures will likely increase. Literature discussing classification, treatment, and outcomes of this pathology is sparse. We present a case report and classification system of postoperative periprosthetic ankle fractures based on location, implant stability, and surrounding bone quality to assist in guiding treatment and improving outcomes. Similar classifications have been validated for periprosthetic knee and hip fractures.						
Methodology							
Procedures	traumatic periprosthetic a	419 ankle fractures at a level 1 trauma center were retrospectively reviewed. 2/419 (0.004%) were found to have a traumatic periprosthetic ankle fracture and treated operatively with minimally invasive plate and screw stabilization. The low incidence owes to the rarity of this injury. These patients were followed for a year.					
Results	Results included 100% radiographic union at an average of 5 months. Neither patient required revision surgery following the index procedure. No wound-healing complications or superficial/deep infections were encountered postoperatively. The operative ankle joint range of motion was full without restrictions. Both patients returned to their previous ambulatory function.						
Discussions	This matches the largest cohort of traumatic periprosthetic fractures about TAR and, to the best of our knowledge, the first to describe treatment and outcomes of traumatic fractures about the INBONE Total Ankle System (Wright Medical Group, Memphis, TN). The previously proposed classification focused on intraoperative and stress fractures not accounting for surrounding bone stock. Herein we propose a treatment-centered classification system for postoperative traumatic periprosthetic ankle fractures based on stability, location, and quality of surrounding bone.						
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level IV						
Authors/Financial Disclosures							
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Submission ID	05-00901 Ref ID CS-901							
Title		Outcomes Following Repair of a Tibial Nerve Transection Resulting from Total Ankle Arthroplasty: A Case Report						
Submit Date	08/31/2023							
Correspondent	Last Name: Yoakim							
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Purpose	Tibial nerve injury is a rare complication of total ankle arthroplasty (TAA) that has been outlined in the literature. However, the literature is sparse regarding iatrogenic tibial nerve injury and proper treatment in situations of delayed diagnosis. This case report highlights a nerve repair technique using a nerve allograft for a severe potential complication associated with total ankle arthroplasty.							
Methodology								
Procedures	Our patient had a TAA in November 2021, and presented to our clinic in March 2022 with loss of sensation and increasingly rapid loss of the motor function in the tibial nerve distribution. Nerve conduction and electromyography studies revealed injury to the deep peroneal and tibial nerves at the lower leg. She subsequently underwent fasciotomy, large neuroma excision, and tibial nerve repair with nerve allograft.							
Results	One large neuroma in continuity with near complete transection of the tibial nerve with almost complete reversal of symptoms including a decrease in the visual analog scale score from 10 to 4.							
Discussions	While tibial nerve injury during TAA is rarely reported, it is likely unrecognized or misdiagnosed resulting in significant complication for patients. Where complete or near-complete nerve transection results in neuroma formation, we recommend repair using a nerve allograft as neuroma resection with end-to-end repair has been shown to have high failure rates with recurrence in the foot. Nerve allografts reduce the risk of recurrent symptomatic neuromas by allowing nerve endings to exhaust any subsequent outgrowth.							
Format	Case Study							
Case Rpt Followup	17							
Student Club	Not a Student Club Poster							
Classification	Neurological/Peripheral N	erve Disorders						
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-00907 Ref ID CS-90						
Title	A Rare Case of Sp	A Rare Case of Spindle Cell Sarcoma in the Toe					
Submit Date	08/23/2023						
Correspondent	Last Name: Reardon Full Name: Brennan F Practice/Company/Reside	K. Reardon, DPM mcy Program:	Email: Wake Forest	bkreardo@wakehealth.edu Baptist Health			
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Purpose	bone cancer cases. We rep	Spindle cell sarcoma is a form of cancer that is most commonly found in long bones. These tumors account for 2-5% of all bone cancer cases. We report a case of a soft tissue mass on the distal aspect of a second toe diagnosed as spindle cell carcinoma after excision, resulting in staged digital amputation.					
Methodology							
Procedures	or injury. It was increasing cortical disruption. MRI r	A 51 year old female presented with a left second toe "cyst". The mass was present for 2 years, without preceding trauma or injury. It was increasing in size and causing pain with standing and ambulation. Radiographs didn't show any sign of cortical disruption. MRI revealed a solitary 13 x 5 mm well circumscribed cystic lesion, suspected to be adventitial bursa, foreign body granuloma, or ganglion cyst.					
Results	surrounding structures. Su an inflammatory backgrou spindle cell carcinoma. Th thickness skin graft versus	The patient elected to proceed with surgical excision of the second toe lesion. The mass was excised without damage to surrounding structures. Surgical pathology demonstrated cellular proliferation with atypical histiocytic cells, giant cells in an inflammatory background, and mitotic activity with atypical mitosis. Final pathological diagnosis confirmed high grade spindle cell carcinoma. The patient was referred to orthopedic oncology who recommended tumor bed excision with full thickness skin graft versus toe amputation. The patient decided to proceed with digital amputation. There has been no recurrence, metastasis, or complications after 12 months.					
Discussions				r variant. 5 year survival rate is about 65%. s spindle cell carcinoma of the toe after			
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster	r					
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00912			Ref ID CS-912			
Title	•	Minimally Invasive Proximal Tibia Bone Harvesting Following Periprosthetic Bone Cyst Formation in Total Ankle Arthroplasty					
Submit Date	08/28/2023						
Correspondent	Last Name: Leo Full Name: Trenton Practice/Company/Residen	icy Program:	Email: Eastern Virgi	LeoT@evms.edu inia Medical School			
Authors	Author 1: William Sin Author 3: Author 5: Author 7:	mon, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Trenton Leo, DPM			
Purpose	•	To determine the viability and short term success of autogenous tibial bone harvesting through minimally invasive measures in combating periprosthetic cyst formation from total ankle arthroplasty					
Methodology							
Procedures	Recent literature has illustrated efficacious outcomes of autogenous bone grafting to repair cystic changes following total ankle replacement. However, the majority of current studies' donor sites are the cancellous and/or iliac crest which possess donor site morbidity and can dissimulate pain and mobility assessment respectively. Just inferior to the medial tibial condyle is relatively safe in terms of neurovasculature and contact force mapping has shown evidence of relatively no structural integrity deficit with bone harvest from this area.						
Results	AOFAS hindfoot scores increased following treatment at 3 months (87) and remain increased at 12 months following surgery (81). No reports of donor site pain were reported following removal of stitches at 2.5 weeks. Most notable increase in AOFAS subcategory was pain which was improved from severe to mild. VAS scores improved and were maintained at one year (Reduced from 8 to 4). The Karlsson and Peterson scoring system was modified with surgery used as pre-injury reference. This illustrated greater improvement at short term interval of 3 months (79) compared to 12 months (64). Further quantitative measurement to be obtained at 18 months.						
Discussions	This short term case study manifests success in terms of function and pain measures while reducing potential complications. Excellent osseous incorporation and no residual deficit can be visualized by provided imaging despite possible suboptimal MSC concentration when compared to iliac crest. Long term outcomes certainly will be of further value.						
Format	Case Study						
<b>Case Rpt Followup</b>	15						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Recons	struction					
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-00918	05-00918 Ref ID CS-918						
Title	Impregna	Vacuum-Assisted Eggshell Type Bone Debridement with Implantation of Antibiotic- Impregnated Bone Substitute for Treatment of Calcaneal Osteomyelitis with Subsequent Charcot Reconstruction: A Case Report						
Submit Date	08/30/2023							
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Purpose		The purpose of this case study is to report a novel vacuum-assisted eggshell-type debridement in treating calcaneal osteomyelitis.						
Methodology								
Procedures	techniques de impregnated this case, a 50 the calcaneus	Charcot neuroarthropathy complicated by calcaneal osteomyelitis can be difficult to treat. There are various surgical techniques described on how to manage these conditions. Eggshell-type debridement with application of antibiotic-impregnated bone substitute is a viable option that eliminates osteomyelitis and allows staged reconstructive surgery. In this case, a 50 year old female with right midfoot Charcot presented with septic shock and hematogenous osteomyelitis of the calcaneus, navicular and lateral cuneiform. A vacuum-assisted eggshell-type debridement was performed and the calcaneus filled with antibiotic-impregnated bone substitute.						
Results	application of residual plant frame. At 12 maintained a	After the osteomyclitis resolved at 8 weeks, the patient underwent a staged Charcot reconstructive surgery with an application of a dynamic multiplanar external fixator with gradual deformity and split-thickness skin graft to cover the residual plantar lateral foot wound. The second stage included septic fusion of the midfoot and subtalar joint from the frame. At 12 weeks postoperatively, radiographic union was achieved, the external fixator was removed, and the patient maintained a plantigrade foot. The patient was transitioned to a total contact cast. At the final follow up of 18 months from the initial procedure, the patient continues to be wound-free and weight bearing in a CROW boot.						
Discussions		This report demonstrates the effectiveness of a novel vacuum-assisted eggshell-type debridement in treating calcaneal osteomyelitis in the setting of calcaneal osteomyelitis and should be considered as an alternative to a partial calcanectomy.						
Format	Case Study							
Case Rpt Followup	18							
Student Club	Not a Student	t Club Poster						
Classification	Diabetic Foot	t						
Level of Evidence	Level IV							
Authors/Financial Di	sclosures							
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Submission ID	05-00925			Ref ID CS-925			
Title		Presence of Wound Complications with Use of Incisional Wound Vacuum Therapy on Outpatient Total Ankle Arthroplasty Surgery					
Submit Date	08/22/2023						
Correspondent	Last Name: Levene Full Name: Maxwell Le Practice/Company/Residen	evene, DPM, FACFAS cy Program:	Email: Mid-Atlantic	MAXL221@GMAIL.COM Permanente Medical Group			
Authors	Author 1: Maxwell Le Author 3: Author 5: Author 7:	evene, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Jordan Tacktill, DPM, FACFAS			
Purpose	The most commonly performed incisional approach to total ankle arthroplasty(TAA) surgery is through an anterior ankle approach. With the anterior incision approach wound complications are among the most common after TAA. This case series documents several cases of total ankle arthroplasty surgery with application of immediate incisional wound vacuum therapy closure in the outpatient surgical setting with discharge within 23 hours and the prevalence of wound complications post-operatively.						
Methodology							
Procedures	18 patients underwent outpatient TAA in the outpatient setting through an anterior approach by a single surgeon with application of incisional wound vacuum therapy over a closed surgical incision with identical closure and settings with removal in a 5–8-day post-operative period.						
Results		18 patients underwent TAA via anterior approach in the outpatient setting with application of incisional wound vacuum therapy over a closed incision. 0 out of 18 patients developed wound complications throughout the post-operative course of 12 months or more.					
Discussions	wound complications of gro	The most commonly performed incisional approach is through an anterior approach for TAA. With this approach comes wound complications of greater than 30% yielding detrimental effects on functional and clinical outcomes and patient satisfaction. Surgeons must be aware of these complications and closure techniques that are available to help mitigate wound complications.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Recons	struction					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00927			Ref ID CS-927			
Title	Eccrine carcinom	Eccrine carcinoma of the hallux: A case study					
Submit Date	08/22/2023						
Correspondent	Last Name: Pratt Full Name: Alyssa Practice/Company/Resid	ency Program:	Email: Cape Fear Va	apratt@capefearvalley.com alley Health System Fayetteville, NC			
Authors	, ,	Phan, DPM Bermudez, DPM	Author 2: Author 4: Author 6: Author 8:	Alyssa, J, Pratt, DPM			
Purpose	Eccrine carcinomas are an extremely rare malignancy in sweat glands that is not frequently found in the lower extremities. They account for approximately 0.01% of primary tumors of the skin. It typically is seen in the fourth and fifth decades of life, and begins as a slow growing plaque or nodule. They are typically found on the head and neck region, and less common in the trunk and distal extremities. These tumors have an indolent phase, but once they are clinically apparent, they are highly invasive and have a high tendency to recur after excision at 50% and to metastasize at 14%.						
Methodology							
Procedures	reappeared a few years a pain with ambulation, sta subcutaneous mass that o	55- year- old male presents to clinic for a growth on the plantar aspect of his right hallux. He admits the growth had reappeared a few years ago and is getting larger, and painful. He states that the etiology of the mass was traumatic. Has pain with ambulation, standing and performing daily activities. We obtained a radiograph and MRL Results showed a large subcutaneous mass that did not invade the bone. The mass was removed, and the hallux was amputated distal to the proximal phalanx base. The mass did not invade any nearby soft tissue. Specimen sent to pathology.					
Results		noma with basaloid features and tu f the proximal phalanx was disartic		a subcutaneous tissue. Patient underwent further vel of the MPJ			
Discussions	Eccrine carcinoma of the further metastasis.	Eccrine carcinoma of the lower extremity are rare, but knowing how to identify, diagnosis, and treat, will help prevent further metastasis.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poste	r					
Classification	Soft Tissue/Tumor						
Level of Evidence	Level V						
Authors/Financial D	isclosures						
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Submission ID	05-00932 Ref ID CS-932						
Title	A Novel Case of Non	-Infectious Soft Tissue	Emphyser	na of the Lower Extremity			
Submit Date	08/23/2023						
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Authors	Author 1:Phillip M. CaAuthor 3:Thomas D. FeAuthor 5:Christopher LAuthor 7:Christopher L		Author 2: Author 4: Author 6: Author 8:	Kaitlyn A. Hammock, DPM Joseph A. Conte, DPM, FACFAS Amber Shane, DPM, MS, FACFAS			
Purpose	tissue when associated with in medical management due to t	Subcutaneous emphysema (SE) is gas trapped under soft tissue generally along a fascial plane. Emphysema in the soft tissue when associated with infection usually from gas forming organisms can spread quickly and requires emergent medical management due to the associated systemic impact (1). Ruling out a necrotizing infection during initial evaluation becomes critical. The purpose of this study is to document our management of benign soft tissue emphysema.					
Methodology							
Procedures	reports of non-infectious soft been reported in the upper ex- gradient. Disruptions in the so year old male who suffered an	In recent literature, 67 cases of non-infectious soft tissue emphysema have been reported in the English literature, with no reports of non-infectious soft tissue emphysema described in the lower extremity. Only a handful of cases of NSTI have been reported in the upper extremity which most commonly occurs from injection of high pressure air through a negative gradient. Disruptions in the soft tissue envelope act as a "one-way valve" or "ball valve mechanism" (1)(3). A healthy 23 year old male who suffered ankle trauma and subsequent subcutaneous emphysema in the lower extremity. To our knowledge, this report is the first discussion of being noft tissue emphysema in the lower extremity.					
Results	Surgical Cultures had no grov performed.	vth, with infection ruled out, pe	ercutaneous repa	ir of the left ankle bi-malleolar fracture			
Discussions	emphysema. Ruling out insid	Empiric antibiotics, multidisciplinary consultation, and surgical exploration are key in evaluating any soft tissue emphysema. Ruling out insidious STE prior to surgical stabilization of the fracture is key in preventing poor outcomes. Easy dissection of fascial layers upon probing, negative cultures, trending laboratory values and vital signs to be confident to rule out infection.					
Format	Case Study						
<b>Case Rpt Followup</b>	13						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level V						
Authors/Financial Di	isclosures						
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Amber Shane, DPM, MS, FACFAS	ambershanereeves@yahoo.com	I/We have nothing to disclose	2				

Submission ID	05-00937	05-00937 Ref ID CS-937						
Title	A Novel A	A Novel Approach for Salvage of Infected Tibiotalocalcaneal Arthrodesis						
Submit Date	08/23/2023							
Correspondent	Last Name: Full Name: Practice/Com	LeSavage Lindsay, K, pany/Residen	LeSavage, DPM cy Program:	Email: Wake Forest	llesavag@wakehealth.edu Baptist Health			
Authors	Author 1: Author 3: Author 5: Author 7:	• · · ·	LeSavage, DPM V, Medda, DPM	Author 2: Author 4: Author 6: Author 8:	Brooke, E, Kiefer, DPM			
Purpose	risk patients, ultimately fix	Infection of retrograde intrameduallary nails for tibiotalocalcaneal arthrodesis can be limb threatening, especially in high risk patients, and typically requires hardware explantation, canal irrigation, debridement, antibiotic management, and ultimately fixation revision. We present a novel approach for salvage of an infected retrograde intramedullary nail using an "uspide down" antegrade tibial nail.						
Methodology								
Procedures	tibiotalocalca to the operati antibiotic rod	A 77 year old female presented for evaluation of new plantar heel wound with malodorous drainage status post tibiotalocalcaneal arthrodesis at an outside facility one year prior. The patient was started on intravenous antibiotics taken to the operating room on three separate occasions for attempted limb salvage. The procedures included: hardware removal, antibiotic rod placement and exchange, and serial debridement with bone cultures. Following completion of six weeks intravenous antibiotics and total wound healing, the patient opted for surgical revision.						
Results		-	of using an antibiotic coat s and was ambulatory in a	•	l "upside down". The patient recovered without at nine months.			
Discussions	poor bone qu down" to allo for increased	In this case, specific considerations were the previous screw holes proximally, a narrow medullary canal, and relatively poor bone quality from repeat surgery and infection. To combat these factors, a 32mm tibial nail was inserted "upside down" to allow for new interlock screw placement that had not been compromised by the previous fixation. It also allowed for increased screw placement options through the nail, spanning to a more appropriate length, and better fit of the patient's narrow canal once antibiotic coating was added.						
Format	Case Study							
<b>Case Rpt Followup</b>	24							
Student Club	Not a Studen	t Club Poster						
Classification	Rearfoot and	Ankle Recons	truction					
Level of Evidence	Level IV							
Authors/Financial D	isclosures							
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Submission ID	05-00942 Ref ID CS						
Title		Fasciocutaneous Rotational Flap With External Fixation For Lower Extremity Limb Salvage: Case Report					
Submit Date	08/30/2023						
Correspondent	Last Name: Yun						
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Purpose		The purpose of this study is to demonstrate a surgical technique for limb salvage via a partial calcanectomy, fasciocutaneous rotational flap and offloading with an external fixator for chronic heel pressure wounds with underlying calcaneal osteomyelitis.					
Methodology							
Procedures	79-year-old male suffered a motor vehicle accident in June 2021 and sustained a left open calcaneal fracture, which was treated by an outside orthopedic surgeon. Following the surgery, patient developed a chronic heel wound that resulted in calcaneal osteomyelitis. He failed numerous conservative treatment modalities, which included long-term intravenous antibiotics, wound debridements, total contact casting, hyperbaric oxygen therapy and synthetic skin substitutes. We ultimately performed a staged procedure with a heel wound excision and partial calcanectomy, followed by a rotational flap closure and the application of an offloading external fixator. The external fixator was removed 1 month later after full incorporation of the flap.						
Results		ent's flap has fully healed with ther gauntlet ankle-foot orthos		of the heel wound. Patient is now weight-bearing ace and diabetic shoe.			
Discussions	successful alternative for chro	Heel pressure wounds are a challenge and often result in osteomyelitis of the calcaneus. Our surgical approach illustrates a successful alternative for chronic heel osteomyelitis with the use of partial calcanectomy, rotational flap closure, and offloading external fixator in a patient who otherwise would have required a below-knee amputation.					
Format	Case Study						
<b>Case Rpt Followup</b>	13						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level IV						
Authors/Financial Di							
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Submission ID	05-00943 Ref							
Title	Chronic A	Central Strap Gastrocnemius Aponeurosis Turn-Down Flap Reconstruction for Chronic Achilles Tendon Ruptures with Large Defects: A Novel Frontal Plane 180- Degree Rotation Technique for Large Tendon Defects.						
Submit Date	08/28/2023	08/28/2023						
Correspondent	Last Name: Full Name:	Bischoff Alex, J. Bisc	choff, DPM AACFAS	Email:	bischoff91@gmail.com			
		pany/Residenc	·		t and Ankle Reconstruction Fellowship			
Authors	Author 1: Author 3: Author 5: Author 7:	Joseph, Brov	off, DPM AACFAS wn, DPM Idicino, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Zachary, Hill, DPM Alexa, Bykowski, DPM			
Purpose	Bridging a large tendon gap in chronic Achilles ruptures requires obtaining additional length. However, functionality and possible bulk cause many providers to question the benefit of reconstruction. The purpose of this study is to describe clinical outcomes of the central strap gastroenemius turn-down flap for chronic Achilles tendon ruptures with large defects.							
Methodology								
Procedures	Three consecutive patients had Achilles tendon reconstruction with central strap turn down with a flexor hallucis longus tendon transfer. Each are functioning well without increased bulk to calf. Overall, literature evaluating Achilles reconstruction after rupture is sparse. The senior author (RW) has previously published a similar technique, but no available literature evaluates outcomes of this novel approach.							
Results	Among the three patients, the AOFAS hindfoot and ankle scores were 98, 95, and 87. All exhibited 5/5 muscle strength to the operative extremity. Calf circumference at final follow up was variable, but demonstrated no predilection toward increased bulk of the achilles or calf in the reconstructed limb. No patient had an operative side measurement greater than 1.0 centimeter difference compared to the non-operative side. No patient required revision operation.							
Discussions	Repair of chronic Achilles tendon ruptures are difficult due to loss of tendon elasticity. In low demand patients, isolated flexor hallucis longus tendon transfer may provide sufficient muscle strength. However, higher demand patients may benefit from direct reattachment of the gastrosoleal complex. With this achilles reconstruction technique, functional capabilities were preserved, and bulk was not significantly increased. We propose this advanced reconstruction for high functional demand patients with thronic ruptures and large defects.							
Format	Case Study							
<b>Case Rpt Followup</b>	12							
Student Club	Not a Studen	t Club Poster						
Classification	Trauma							
Level of Evidence	Level V							
Authors/Financial D	isclosures							
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Submission ID	05-00946 Ref ID CS-						
Title		Dynamic Contractures of Flexor Digitorum Longus and Flexor Hallucis Longus, after Open Tibial Trauma: Checkrein Deformity					
Submit Date	08/23/2023						
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Purpose	off, and may be recreated entrapments or fibrous add of the Checkrein deformit injury to the tendon muscl	Checkrein deformity is a rare occurrence characterized by flexure contractures of the digits during midstance during heel off, and may be recreated through passive dorsiflexion of the ankle. This dynamic pathology develops secondary to entrapments or fibrous adhesions of the flexor compartment myotendinous apparatus. Many theories exist as to the cause of the Checkrein deformity which includes contractures of the muscles in the posterior muscle group or entrapment from injury to the tendon muscle bellies following a fracture. This study delves into the treatment of Checkrein deformity through selective surgical lengthening of the Flexor hallucis longus (FHL) and flexor digitorum longus (FDL) tendons at the retromalleolar level.					
Methodology							
Procedures	fibula fracture. Following showed scarring of the fle	This study involves an 18 year old male with Checkrein deformity affecting the left toes due to a sustained open left tibia- fibula fracture. Following Tibial IM nail and skin graft procedures, the patient developed Checkrein deformity. MRI studies showed scarring of the flexor retinaculum causing tenostenosis of the FHL and FDL tendons. The Checkrein deformity was treated by selectively lengthening the FHL and FDL tendons at the retromalleolar level.					
Results	18 year old male with Che digitorum longus	18 year old male with Checkrein deformity who underwent Z lengthening of the flexor hallucis longus and flexor digitorum longus					
Discussions	overall functionality. The	The surgery relieved tension on the flexor tendons, thereby restoring proper movement of the affected toes and improving overall functionality. The study provides a detailed account of the surgical technique, including preoperative assessments and considerations, surgical procedure, and postoperative rehabilitation.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00952				Ref ID CS-952	
Title	Bilateral	Exercise In	duced Compartment	Syndome a	and Follow Up: A Case Study	
Submit Date	08/29/2023					
Correspondent	Last Name: Full Name: Practice/Com	Chippa Naveed Y Ch pany/Residency		Email: Memorial He	naveedchippa@gmail.com ealthcare System	
Authors	Author 1: Author 3: Author 5: Author 7:	Naveed Y Ch Michael Rive	ippa, DPM ra, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Anita Misra, DPM	
Purpose	This case refl this study ma	The purpose of this case report is to highlight a pathology that may be commonly overlooked upon initial examination. This case reflects an instance of compartment syndrome, missed by the emergency department prior to an in clinic visit. this study may elucidate signs frequently missed by emergency department physicians and aims to reflect additional testing to accurately diagnose compartment syndrome when suspected.				
Methodology						
Procedures	during her Zu with flexeril,	Chronic exercise induced compartment syndrome occurs secondary to repetitive activity. This patient experienced pain during her Zumba class which worsened with time. She presented to the ED for bilateral heel pain, which discharged her with flexeril, norco. She was seen outpatient and referred back, noted to have compartment pressures of 65 bilaterally and CPK levels of 1276. Fasciotomy was performed and outpatient care to follow up.				
Results	subsequently limited weigh	A fasciotomy resulted in decreased VAS scores from 10 preoperatively, to 3 at the first post operative visit. This subsequently subsided to a score of 1 following physical therapy at 4 weeks postoperatively. The patients maintenance of limited weightbearing postoperatively in a DARCO shoe with the aid of a walker yielded a return to full weightbearing at 4 weeks postoperatively.				
Discussions	fasciotomy. F	Exertional compartment syndrome, while sometimes managed by physical therapy and conservative care, can lead to fasciotomy. Fasciotomy, in this case, resulted in significantly decreased VAS scores postoperatively. Delayed diagnosis may be avoided with additional testing in emergency departments, including but not limited to, CPK levels.				
Format	Case Study					
<b>Case Rpt Followup</b>	14					
Student Club	Not a Studen	t Club Poster				
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00954			Ref ID CS-954		
Title		Multiple Sites of Avascular Necrosis in Both the Foot and Ankle In A Post Chemotherapy Patient				
Submit Date	08/24/2023					
Correspondent	Last Name: Sreeram					
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	Practice/Company/Residency	Program:	Ascension Sl	E Wisconsin- Milwaukee Residency		
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	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	damage. AVN of the foot and secondary purpose of this stud	Avascular necrosis is a condition in which there is a loss of blood supply to bone, leading to bony cell death and structural damage. AVN of the foot and ankle is a relatively uncommon condition that can lead to joint collapse. The primary and secondary purpose of this study is to highlight a case of AVN due to chemotherapy in multiple areas of the foot and ankle and to emphasize the importance of a thorough workup.				
Methodology						
Procedures		as a significant PMH of breas		nin. MRI revealed AVN of the distal tibia, talus, colon cancer in 2016 that required surgical		
Results	The patient was provided with pathologic fractures and bone			ain relief. Serial radiographs to monitor for ondition worsens.		
Discussions	radiotherapy, thermal injury, a	nd smoking. This case study phemotherapy. Due to relatively	presents a rare o	elopment of AVN including chemotherapy, ase of aseptic necrosis of the midfoot, hindfoot, linical findings, a complex workup with a		
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level V					
Authors/Financial D	visclosures					
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Submission ID	05-00958			Ref ID CS-958	
Title	Management of I	Navicular Avascular Nec	rosis with 3	D Printed Navicular	
Submit Date	08/25/2023				
Correspondent	Last Name: Likewis Full Name: Lauren / Practice/Company/Resi	Ashley Likewise, DPM	Email: Virginia Ma	laurenlikewise@gmail.com son Franciscan Health	
Authors		Likewise, DPM Inauer, DPM	Author 2: Author 4: Author 6: Author 8:	Jennifer McGorty Droll, DPM Todd M. Chappell, DPM, FACFAS	
Purpose	case report is to present		f navicular AVN	nent strategies described. The purpose of this utilizing CT guided, 3D printed metallic joint (STJ) arthrodesis.	
Methodology					
Procedures	51 year old female with symptomatic navicular AVN. Despite exhausting conservative modalities, the patient experienced no significant pain relief and therefore elected to undergo surgical correction with 3D printed metallic navicular implantation with concurrent TN and STJ arthrodesis. Patient underwent gastrocenemius recession, STJ arthrodesis, tailor's bunionectomy, TN arthrodesis with 3D printed custom navicular implantation in 2021. Patient developed STJ nonunion eleven months after initial procedure and underwent STJ revision and naviculocuneiform and calcaneocuboid arthroplasties performed.				
Results	Despite requiring subsequent procedures in adjacent joints 11 months after implantation, the custom metallic implant continues to remain in good overall alignment without signs of failure or loosening. Clinically, the patient reports significant improvement in pain, function and activity level.				
Discussions	There are few studies describing the use of 3D printed navicular for AVN with concurrent TN and STJ arthrodesis. These were performed to promote long term stability for both the implant and the patient. Bony consolidation was appreciated visually at the talar-implant interface during revision surgery and confirmed by CT scan. This study's goal was to highlight the utilization of metallic implants for treatment of navicular AVN as a viable treatment option.				
Format	Case Study				
<b>Case Rpt Followup</b>	21				
Student Club	Not a Student Club Pos	er			
Classification	Rearfoot and Ankle Rec	onstruction			
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
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Submission ID	05-00975 Ref IE			Ref ID CS-975
Title	Mycobacterium tube	erculosis Found Durin	g Charcot	Reconstruction: A Case Study
Submit Date	08/26/2023			
Correspondent	Last Name: Kim Full Name: Joon Hyung Practice/Company/Residency	y Program:	Email: Mount Sinai	joonhkim91@gmail.com Medical Center
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Purpose		to explore the course of a patie one. It also discusses perioperat		vent Charcot foot reconstruction and was found nts.
Methodology				
Procedures	82-year old female patient first presented with ongoing infection in her foot in 2021 and has received frequent wound care. Patient also displayed Charcot changes in her midfoot. Initial microbiology and pathology results were negative for infection and the patient elected to undergo reconstructive surgery. However, the acid-fast stain was positive for mycobacteria prior to the procedure. Patient was closely monitored during the post-operative period for any signs and symptoms of infection. When sufficient bone healing was noted through imaging and the patient was asymptomatic in terms of pain and infection, hardware was removed. Specimens were taken again during removal.			
Results	Specimens obtained during hardware removal were negative after six weeks. The Infectious Disease team was following the case upon the initial discovery of mycobacterium. Patient was offered a course of treatment for mycobacterium but declined. Patient did not present with wounds or signs of infection at her last visit with podiatry and was instructed to follow up as needed.			
Discussions	wait for final results, prior to		ry. In addition,	order fungal, AFB, and anaerobic testing, and good history-taking, physical examination, and mes.
Format	Case Study			
Case Rpt Followup	20			
Student Club	Not a Student Club Poster			
Classification	Wound Care/Infectious Disea	ases		
Level of Evidence	Level IV			
Authors/Financial D	visclosures			
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Submission ID	05-00977		Ref ID CS-977			
Title	Midfoot Charcot Defo Survivorship and Con		ndder Plating" Internal Fixation:			
Submit Date	08/31/2023					
Correspondent	Last Name: McKeon Full Name: Kelly A. McKe Practice/Company/Residency F		kelly.mckeon@upperlinehealth.com and Adult Foot and Ankle Surgical Fellowship			
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Purpose	To explore the benefits and sur- foot surgery in a patient with C		l approach for reconstruction midfoot and rearfoot			
Methodology						
Procedures	stability; however, studies repo fixation with 92.9% success rat 3.5% and 1.2% respectively. Gr technique. 25 patients with diag extended arthrodesis. These pat	rt different variability in union rates bas e, and Lowery et al reported 76% succe archar et all reported 98% success rate gnosed charcot neuroparthy underwent	age with different fixation techniques for achieving sed on the technique. Dalton et al compared internal ss rate; however both did have amputation rates of with no amputation rate through his plantar plating Ladder plating technique, medial and lateral column Garchar's results as it is a biomechanically sound			
Results	union rate, 20% had a non-unio	25 patients with Ladder plating for charcot reconstruction followed for an average of 44.3 months. 92.6% had osseous union rate, 20% had a non-union but were braceable and ulcer free, 24% superficial infection that resolved, 0% with deep infection or hospitalizations, and 0% patients resulted in proximal amputation.				
Discussions	deformity in Charcot neuroarth		cedure that can be used to correct a complex foot as allowed for decreased amputation and infection ulity.			
Format	Case Study					
<b>Case Rpt Followup</b>	48					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
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Submission ID	05-00978			Ref ID CS-978		
Title	Unique lower extre	mity salvage case follow	ving an ext	ruded talus in-situ		
Submit Date	08/26/2023					
Correspondent	Last Name: Dort Full Name: Porscha Practice/Company/Residen	cy Program:	Email: Geisinger Co	pdort@geisinger.edu mmunity Medical Center		
Authors	Author 1:Porscha DoAuthor 3:Victoria GrAuthor 5:Author 7:	ort acia, PhD, MPH	Author 2: Author 4: Author 6: Author 8:	Nicole Branning, DPM		
Purpose	2% of all talar injuries. Tala	Total talar dislocation is the dislocation of the talus from the tibiotalar, subtalar and talonavicular joints and accounts for 2% of all talar injuries. Talar extrusion is often associated with loss of vascular supply and can lead to severe complications such as osteomyelitis and avascular necrosis. This case report demonstrates a unique treatment modality.				
Methodology						
Procedures	ankle dislocation. On physi with the skin still intact. Ra the talar dome. Reduction v ankle reduction with an app	A 67-year-old female presented to the emergency department following a motor vehicle accident which resulted in a right ankle dislocation. On physical examination, ecchymosis, edema and skin tenting were noted along with medial malleolus with the skin still intact. Radiographs demonstrated an extensively dislocated ankle mortise with posterior dislocation of the talar dome. Reduction was attempted, but the talus remained extruded. The patient subsequently underwent a right ankle reduction with an application of external fixation. The patient ultimately underwent a Tibiotalocalcaneal arthrodesis of the right hindfoot with use of bone substitute, hardware, and retained internal implant.				
Results	preserve length and alignm	Reconstruction was achieved with a tibial symmetric cone augment (metallic implant) was used in place of the talus to preserve length and alignment of the ankle and fixated with an intramedullary nail. The most recent X-rays shows the fracture has healed with hardware still in place.				
Discussions	the anatomic height of the a		a tibial symme	g an implant into the tibiotalar space to restore tric cone augment. The patient has maintained a.		
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-00979			Ref ID CS-979			
Title	Atypical Presentation	Atypical Presentation of Chondroblastoma of the Calcaneus: A Case Report					
Submit Date	08/26/2023						
Correspondent	Last Name: Huchital Full Name: Michael Practice/Company/Residenc	y Program:		al.dpm@gmail.com ociates/ Good Samaritan Hospital			
Authors	Author 1:Michael HucAuthor 3:Lori AndersoAuthor 5:Author 7:		Author 2: Todd St Author 4: Author 6: Author 8:	ewart			
Purpose	The Purpose of this poster is subsequent surgical manager	to report an atypical presentation ment.	on of a benign bone tumor	of the calcaneus as well as			
Methodology							
Procedures	occurrence rate favors short aneurysmal bone cyst forma subchondral portions of the included creation of a cortic cement. The orientation of the nitinol staple. A linear extern	Chondroblastoma is a rare bone tumor most commonly occurring in the second decade of life. Overwhelmingly the occurrence rate favors short and tubular bones including the talus and calcaneus. Several reports exist describing secondary aneurysmal bone cyst formation in the calcaneus. The majority of cases were reported in the posterior tuber, posterior subchondral portions of the calcaneus. The patient underwent excision of the lesion in a two stage manner. The first stage included creation of a cortical window and resection of the lesion with back filling of calcium phosphate (Hydrocettm) cement. The orientation of the cortical window spared the subtalar and calcaneocuboid articulations and was fixated with a nitinol staple. A linear external fixator was applied to preserve the length of the lateral column. The second stage involved removal of the fixator at 3 weeks and immobilization for 2 weeks followed by progressive weight bearing.					
Results		med normal activities without c		formation. The patient progressed to two years demonstrated pain free			
Discussions		a neoplasm of the calcaneus atypes. Excision augmented with ex					
Format	Case Study						
Case Rpt Followup	24						
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level IV						
Authors/Financial D	oisclosures						
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Lori Anderson

Submission ID	05-00981			Ref ID CS-981
Title	The Five Pin Frame: A Orthopedics of the Lo		ernal Fixat	or for Staged Damage Control
Submit Date	08/27/2023			
Correspondent	Last Name: Schultz Full Name: Alexander, J, D Practice/Company/Residency F		Email: University of	alexanderschultzdpm@gmail.com ? Louisville
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Purpose		ealthcare systems due to high		ncare system. Commercially available external sts. We present a case series using a cost
Methodology				
Procedures	fixation was conducted in some	e instances with the frame lef s general ease of use when co	ft intact to main ompared to oth	lized for staged fracture fixation. Definitive tain fracture reduction. We discuss technical er fixators. Lit review: Hernigou 2016 Cinthuja
Results				followed for over one year. Comparative pricing w a reduction of 33% for the component cost.
Discussions	I trauma center. A series of 10 j	patients was included in the s measured. The fixator was sh	study in which t nown to have a 2	aged damage control orthopedics from our level he fixator was utilized. Patients were followed 33% reduction of component costs when
Format	Case Study			
<b>Case Rpt Followup</b>	24			
Student Club	Not a Student Club Poster			
Classification	Trauma			
Level of Evidence	Level IV			
Authors/Financial D	Disclosures			
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Submission ID	05-00982			Ref ID CS-982	
Title		The Pedicle Cross-Leg Flap: A case report and review of its efficacy for lower extremity wound closure			
Submit Date	08/31/2023				
Correspondent	Last Name: Clellen Full Name: Samuel Practice/Company/Residen	cy Program:	Email: HCA Florida	samclellen@gmail.com Northwest Hospital	
Authors		llen, DPM, MBA nanchi, MD, FACS	Author 2: Author 4: Author 6: Author 8:	Zohaib Moon, DPM Rishad Ahmed, DPM, FACFAS	
Purpose	the 1970s, the gold standard the use of a pedicle cross-le provide viable soft tissue co	Traumatic lower extremity defects present a difficult scenario particularly with underlying tendon and bony injury. Since the 1970s, the gold standard for soft tissue coverage in such scenarios has been microvascularized free flaps. Alternatively, the use of a pedicle cross-leg flap is a viable option in certain situations. We present a use of this alternative option to provide viable soft tissue coverage over a traumatic defect, without the need for advanced expertise in microvascular surgery, as well as a brief review of literature.			
Methodology					
Procedures	tendons, loss of the anterior	A single patient endured a distal leg injury, resulting in a large soft tissue defect, including severance of all anterior ankle tendons, loss of the anterior tibial artery, and bimalleolar ankle fracture. Primary repair was performed to the tendons and ankle fracture, and the patient subsequently underwent a cross-leg flap, stabilized by an external fixator, after failing wound care.			
Results	Successful and timely heali	ng of the soft tissue defect, inclu	ding underlyin	g tendon repair and ankle fracture.	
Discussions	free tissue flaps, as soft tiss scenarios exist where a cros ease of dissection, versatilit	Soft tissue defects coupled with underlying trauma in the lower extremity are commonly treated with microvascularized free tissue flaps, as soft tissue coverage is essential to the underlying repair. Although this technique is the gold standard, scenarios exist where a cross-leg flap may be necessary. Literature supports the advantages to this technique, which include ease of dissection, versatility, shorter OR time, minimal donor site morbidity, and little need for surgical revision. It also bypasses the need for real microvascular proficiency of microanastamosis.			
Format	Case Study				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Recons	struction			
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
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Submission ID	05-00983			Ref ID CS-983			
Title	Minimally Inva Report	Minimally Invasive Technique Utilization in Charcot Foot Reconstruction: A Case Report					
Submit Date	08/27/2023						
Correspondent	Last Name: Kim						
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Authors		Iyung Kim, DPM M Silverstone, DPM	Author 2: Author 4: Author 6: Author 8:	Holly Seigle, DPM			
Purpose	(MIS) approach. Char which a multi-discipli	The objective of this study is to assess the outcome of Charcot foot reconstruction that utilized the minimally invasive (MIS) approach. Charcot foot reconstruction is difficult not only in technique, but also in perioperative management, in which a multi-disciplinary approach to patient care is necessary. The benefits that are offered by MIS include faster recovery period, decrease in postoperative pain, and less stress on the immune system.					
Methodology							
Procedures	was being treated cons Charcot reconstruction	This is a 68 year-old male patient with Charcot foot stemming from non-diabetic neuropathy with a non-healing ulcer that was being treated conservatively for about a year. Patient was referred to orthopedic surgery for a surgical option. Forefoot Charcot reconstruction was performed, utilizing MIS approach and external fixation. Patient was followed post-operatively for 24 months after the initial procedure.					
Results	secondarily and recur Charcot joint at the an	Successful, plantigrade foot was made utilizing MIS approach with no surgical wound necrosis. The existing ulcer healed secondarily and recurrence prevention was achieved. Complications followed due to ongoing neuropathy and led to Charcot joint at the ankle on the ipsilateral side. Tibiotalocalcaneal fusion was performed afterwards and non-union was noted via imaging. Overall however, the patient is doing well without major complaints and has achieved better function prior to surgery.					
Discussions		action remains a challenging task t cases, due to its benefits offered.	for any foot and an	kle surgeon and MIS approach may be a			
Format	Case Study						
<b>Case Rpt Followup</b>	24						
Student Club	Not a Student Club Po	oster					
Classification	Forefoot Reconstruction	on					
Level of Evidence	Level IV						
Authors/Financial D	isclosures						
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Submission ID	05-00984			Ref ID CS-984		
Title		Tibial Mechanical Axis based PSI versus Mechanical Axis of the Limb in Total Ankle Arthroplasty: A Case Study				
Submit Date	08/27/2023					
Correspondent	Last Name: Schleunes					
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	Practice/Company/Resider	ncy Program:		ifornia Reconstructive Foot and Ankle hasta Orthopedics		
Authors	Author 1: scott schler	unes DPM	Author 2:	Helene Cook DPM		
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	Author 7:		Author 8:			
Purpose	In total ankle arthroplasty (TAA), current patient specific instrumentation (PSI) is based on the mechanical axis of the tibia (MAT) through below knee to mid-foot CT scans. Utilizing the (MAT) is likely sufficient in most cases, but could lead to implant mal-position in patients with proximal deformity, previous trauma, previous hip or knee arthroplasty. Previous studies have shown differences between MAT and mechanical axis of the limb (MAL), but not in the context of TAA.					
Methodology						
Procedures	In this case study, we present three patients who underwent TAA with current PSI techniques based on the MAT. Both pre- operative and post-operative long leg alignment radiographs were obtained in each patient. MAT and MAL were measured in each patient, and compared to pre-operative surgical plans and postoperative final implant placement in respect to the mechanical axis. Previous literature (Najefi 2020, Bernasconi 2021) has shown significant difference between MAT and MAL pre-operatively, but have not described this in relation to post-operative TAR positioning.					
Results	All three patients with imp	lants deviated from the MAL grea	ater than 3 degr	ees, though aligned with the MAT.		
Discussions	across the implant increasi axis deviation in the proxim	PSI has provided potential benefits in terms of TAA. Alignment with the MAT is thought to decrease mechanical forces across the implant increasing longevity and outcomes, but limiting evaluation to below the knee fails to account for any axis deviation in the proximal aspect of the kinetic chain. In the future, implant placement in regards to the MAL may allow for less mechanical shear forces across the implant.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recon	struction				
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
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		Intellectual Property rights ow	ned	Enovis, Redpoint medical		
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Submission ID	05-00985				Re	f ID CS-985
Title	Bone Invadi	Bone Invading Kaposi Sarcoma Lesion of the Foot				
Submit Date	08/27/2023					
Correspondent			uu, MBS, DPM cy Program:	Email: Loyola Univ	sandra.luu@luhs.org ersity Medical Center	
Authors		andra J. Lu atherine D	au, MBS, DPM Dux, DPM	Author 2: Author 4: Author 6: Author 8:	John J. Kim, DPM	
Purpose	•		n unusual presentation of Kapos be to inform the reader of this p			· ·
Methodology						
Procedures	in the endotheliur in the lower extre reported. We repo	Kaposi Sarcoma is a virus caused by the human herpesvirus 8 (HHV-8) which causes uncontrolled growth of spindle cells in the endothelium of blood vessels. KS can occur on any part of the body, however, there is a propensity for involvement in the lower extremities, ranging 28-50% of KS presentations. The incidence of KS lesions specifically in the foot is rarely reported. We report a 72-year-old male with a history of HIV who presented with a painful solitary lesion to the left hallux. MRI revealed a bone-eroding lesion underlying the mass.				
Results	negative for meta	Surgical excision of the lesion was performed with positive bony margins. Subsequent full body PET-CT scan was negative for metastasis. Patient proceeded to be treated with 30Gy in 10 fractions of radiation therapy and has no recurrence of lesion was noted at 12-month post-surgical excision follow up.				
Discussions	overlying skin or found to be invad	Kaposi sarcoma commonly appear as violaceous patches or nodules. They usually do not cause necrotic changes of the overlying skin or underlying structures. However, this case reports a solitary KS lesion that was non-discolored and was found to be invading the underlying bone. Knowledge of this atypical presentation in the foot and ankle is important for a physician to keep in mind as a differential diagnosis.				
Format	Case Study					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Clu	ıb Poster				
Classification	Soft Tissue/Tumo	r				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00989			Ref ID CS-989		
Title	•	Naviculectomy with Primary Medial Column Fusion in the Setting of Navicular Fracture: A 1-Year Follow-Up				
Submit Date	08/27/2023					
Correspondent	Last Name: Sweeney					
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Purpose		report with a 1-year follow-up or the proximal tibia in the setting of		cal column fusion with naviculectomy using cture.		
Methodology						
Procedures	Fractures of the navicular are uncommon, with fractures of the midfoot accounting for 5% of all foot injuries and navicular fractures comprising 35.5% of these. They rarely occur in isolation and are more commonly seen in conjunction with other fractures and dislocations within the midfoot. The extensive articular cartilage around the bone limits its blood supply and these anatomic and functional features make the navicular bone vulnerable, so that injuries may have serious consequences and sequelae. Limited data on these types of injuries have been published with few reports on the outcomes of these complex injuries [reference]. This poster presents a case report with a 1-year follow-up on primary medical column fusion with naviculectomy using cancellous					
Results	made was noted to be very	At the 13-month follow-up original surgery radiographs were obtained which showed consolidation at the fusion site. The made was noted to be very happy having undergone surgical intervention. The patient was noted to be ambulating in regular tennis shoes with no pain and able to return to all normal activities as he could prior to the injury.				
Discussions		Little literature is represented on primary medial column fusion with naviculectomy for navicular fractures. We present a 13 month follow-up with hardware removal after fusion. Patient ambulating pain free with no assistance.				
Format	Case Study					
<b>Case Rpt Followup</b>	14					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00991			Ref ID CS-991		
Title	A Rare Case of Iatro Grafting	genic Avascular Necro	osis of the N	Navicular Salvaged using Bone		
Submit Date	08/27/2023					
Correspondent	Last Name: Young Full Name: Jennifer K. Yo Practice/Company/Residency	•	Email: Podiatry Asso	jenniferyoungdpm@gmail.com ociates of Indiana		
Authors	Author 1:Jennifer K. YeAuthor 3:Khawar MalilAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Hendik Ryan Tan, DPM, MHA		
Purpose		tance of iatrogenic avascular n the authors were able to salvag		of the navicular from multiple failed attempts at g bone grafting.		
Methodology						
Procedures	fusion for a flatfoot deformity remaining. After failing conse the navicular replaced by a cu	A 57 year old presented for a second opinion regarding foot pain from two previously failed attempts at talonavicular fusion for a flatfoot deformity. On presentation there was evidence of avascular necrosis of the navicular and minimal bone remaining. After failing conservative treatments the patient underwent repeat attempt at fusion with complete excision of the navicular replaced by a custom molded tricortical bone graft. Following the procedure, bone graft consolidated and stable fusion was chieved. Patient was able to ambulate pain free without further complications at final follow up.				
Results	Bone grafting for salvage of r	navicular AVN provides reliabl	e outcomes for	fusion in the case of revisional surgery.		
Discussions	There have been few reported cases of treatment for non-spontaneous AVN of the navicular following failed attempts at talonavicular fusion. While rare, lack of blood supply to the navicular from multiple previous surgeries can lead to AVN. When this occurs, treatment options consist of core decompression, replacement, or fusion with viable bone. Implants have become a recent advance for the navicular but are costly and have unknown long term outcomes. Additional cases have shown vascularized bone grafting to be a viable option but this requires extensive specialized training. The authors present their successful reconstruction of this difficult condition using a custom molded bone graft to achieve stable fusion.					
Format	Case Study					
Case Rpt Followup	13					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstru-	uction				
Level of Evidence	Level V					
Authors/Financial D	isclosures					
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Submission ID	05-00992			Ref ID CS-992		
Title	3D Printing with Int A 1-Year Follow-Up	3D Printing with Intramedullary Nailing for Significant Bone Loss of the Distal Tibia: A 1-Year Follow-Up				
Submit Date	08/27/2023					
Correspondent	Last Name: Sweeney					
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	Author 7:		Author 8:			
Purpose		e in which a TTC arthrodesis wi g an open tibial plafond fracture		cage nail construct was utilized in the setting		
Methodology						
Procedures	change a light bulb. Radiogr to the distal tibia (Image 1). discovered to be lying on top calcaneal arthrodesis using a	49-year-old intoxicated male presented to the emergency department after a 6-foot fall from a ladder while attempting to change a light bulb. Radiographs obtained in the emergency department showed a Pilon fracture with significant bone loss to the distal tibia (Image 1). Physical exam was positive for a 12 cm laceration to the medial ankle, and the patient was discovered to be lying on top of a 6-8 cm remnant of extruded tibia. The decision was made to perform a tibiotalar calcaneal arthrodesis using a cage nail construct with intramedullary bone graft using the Reamer-Irrigator-Aspirator (RIA) system. A CT was obtained of both the injured limb and contralateral limb to design the implant for reconstruction (Images 3 and 4).				
Results	ambulating short distances w	At the 1-year follow-up, radiographs (Image 8) were obtained showing bridging callus/bone across the implant. Patient was ambulating short distances without assistance and noted to be pain free at the ankle. The patient filled out a post-operative AOFAS sheet with a score of 49 and a VAS score of 6.				
Discussions				is technology progresses. The above patient t ambulating short distances with minimal pain.		
Format	Case Study					
Case Rpt Followup	18					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconst	ruction				
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-00993			Ref ID CS-993		
Title	Pyogenic Granulo	Pyogenic Granuloma: A Nobel Treatment and Case Review				
Submit Date	08/27/2023					
Correspondent	Last Name: Platt Full Name: Russell, L, Practice/Company/Resider	Platt III, DPM ncy Program:	Email: The Ohio Sta	russell.platt@osumc.edu ate University Wexner Medical Center		
Authors	Author 1:russell PlatAuthor 3:Deana, LetAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Said, Atway, DPM Isaac, Korb, DPM		
Purpose	the foot and ankle. In this large chronic wound in the	case study, we present an unusual e left medial heal. This case docur	and challengin nents treatment	ealing leaving patient susceptible to infection in g case of pyogenic granuloma presenting as a a pyogenic granuloma that had failed surgical el treatment of a topical beta-blockers.		
Methodology						
Procedures	conservative care. Previou		nic granuloma	worked up as a chronic ulcer unresponsive to complicated by osteomyelitis. The follow up of nth 8.		
Results	width and depth measured	Topical Beta-block treatment to pyogenic granuloma with 63.6% improvement wound surface area with wound length, width and depth measured (n=13). Wound Assessment with greater than 75% granulation with pink moist wound bed, Serosanguineous drainage, Peri-wound borders calloused scarred tissue absent of local signs of acute infection at time of last follow-up.				
Discussions	aspect of the foot unsucces significant improvement to treatment to pyogenic grar	The patient in this study had undergone topical and surgical treatment for pyogenic granuloma located to the posterior aspect of the foot unsuccessfully. Once patient began treatment with varying daily topical beta-blocker applications significant improvement to wound healing was observed. This interests for debate for whether topical beta-blocker treatment to pyogenic granuloma lesion to the foot ankle should be considered more frequently to our other first line treatments for these lesions.				
Format	Case Study					
<b>Case Rpt Followup</b>	13					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Di	seases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00996			Ref ID CS-996		
Title	Fibroma of the Tend	Fibroma of the Tendon Sheath at the Anterior Ankle: A Case Study				
Submit Date	08/27/2023					
Correspondent	Last Name: Brown					
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	Practice/Company/Residence	y Program:	OhioHealth	Grant Medical Center		
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	Author 3: Amanda Qui	sno, DPM, FACFAS	Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	males. Scant literature is ava	Fibroma of tendon sheath (FTS) is a benign neoplasm, most commonly presenting in the upper extremities of young adult males. Scant literature is available on this tumor pathology in the foot and ankle. We present a rare case of FTS at the anterior ankle joint arising from the tibialis anterior (TA) tendon sheath.				
Methodology						
Procedures	Magnetic resonance imaging tendon. He underwent open	(MRI) revealed a 6.0 x 5.8 x 2 excision of the soft tissue mass	3.1 cm mass at s, with intraoper	Physical exam was overall unremarkable. the anterior ankle in close relation to the TA rative images revealing a similar sized mass. The rS. His postoperative course was unremarkable.		
Results	Uneventful postoperative co	urse with no recurrence of soft	tissue tumor at	12-month follow-up.		
Discussions	is rarely found in large joints articularly. Our case is uniqu histopathologic examination	FTS is a benign neoplasm that most commonly affects the upper extremities in patients between the 2nd and 5th decades. It is rarely found in large joints and is especially rare around the ankle. Of large joints, it is more commonly described intra- articularly. Our case is unique in that the mass was located extra-articular at the ankle joint in a 90-year-old male. MRI and histopathologic examination are useful for diagnosing FTS. Marginal resection of the mass is sufficient for treatment. FTS should be included in the differential in cases with similar presentation.				
Format	Case Study					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Soft Tissue/Tumor					
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-00999				Ref ID CS-999		
Title	Flexor H	Flexor Hallucis Longus Transfer through a Supine Approach: A novel technique					
Submit Date	08/27/2023						
Correspondent	Last Name: Full Name:	Sohail Asad Sohail		Email:	asadsohail360@gmail.com		
	Practice/Con	npany/Residency	y Program:	University F	Hospitals		
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	Author 3:	Parmvir Deo,	, BS	Author 4:	Mark Mendeszoon, DPM		
	Author 5:			Author 6:			
	Author 7:			Author 8:			
Purpose	However, ph especially in posterior app	Access to posterior anatomic structures is often achieved while patient is in a prone position on the surgical table. However, physiologic changes with increased pressure to anterior structures can lead to unforeseen complications, especially in immunocompromised patients. Flexor Hallucis Longus transfers have been historically achieved via a posterior approach while patient is prone. This case study provides a rationale and technique guide for Flexor Hallucis Longus transfer through a supine approach.					
Methodology							
Procedures	included in th	his cases series.			ute-on-chronic Achilles pathology have been y ambulatory status, infections rates, anesthesia-		
Results	outcomes. Ai	All 5 patients undergoing Flexor Hallucis Longus transfer while supine were able to achieve successful post operative outcomes. Anesthesia related complications were significantly diminished via supine positioning and 0 patients demonstrated superficial or deep infection. Surgical case times were comparable to that of conventional techniques.					
Discussions	Hallucis Lon approach. Th similarly effi	Complications related to prone positioning have been well-established and can be avoided via supine positioning. Flexor Hallucis Longus transfers while patient is supine has demonstrated to be of similar efficacy than of the conventional approach. This novel technique of FHL transfers can assist in avoidance of unnecessary complications while also providing similarly efficacious surgical outcomes compared to conventional techniques. Furthermore, surgical case times were comparable to that of conventional techniques, further decreasing probability of anesthesia-related complications to occur.					
Format	Case Study						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Studen	t Club Poster					
Classification	Rearfoot and	Ankle Reconstr	ruction				
Level of Evidence	Level IV						
Authors/Financial D	Disclosures						
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Mark Mendeszoon, DPM

Submission ID	05-01000 Ref ID Sci-1000					
Title	Effects of Paralla	Effects of Parallax and Distortion in Total Ankle Arthroplasty				
Submit Date	08/27/2023					
Correspondent	Last Name: Brown Full Name: Joseph R Practice/Company/Reside	Brown, DPM ency Program:	Email: OhioHealth	joey.brown2@ohiohealth.com Grant Medical Center		
Authors	Author 3: Ross Gro	Brown, DPM eschl, DPM endicino, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Zachary P Hill, DPM Brian Steginsky, DO		
Purpose	The purpose of this study total ankle arthroplasty (7		arallax/distortion	in intraoperative fluoroscopic images during		
Methodology	B.S.) were reviewed. Intr for any obvious parallax was marked at 2-centime	A retrospective review of all total ankle arthroplasties performed at a level 1 trauma center by two surgeons (R.M. and B.S.) were reviewed. Intraoperative fluoroscopic images were printed, and the anteroposterior ankle views were evaluated for any obvious parallax image distortion. Cases with obvious parallax distortion were included for evaluation. The tibia was marked at 2-centimeter intervals from the proximal stem of the implant, and the anatomical axis of the tibia (AAT) was drawn at the mini-diaphysis. The lateral distal tibial angle (aLDTA) and anatomic axis deviation (AAD) were measured for each seement.				
Procedures						
Results	parallax distortion. We fo average aLDTA was 93.8	und the average aLDTA was 90.	6 (84 to 100) deg	ate imaging. 6/18 (33.3%) of cases had obvious grees. At the most proximal tibial zone, the as 4.6 (0.5 to 17.3) millimeters. The AAD ranged		
Discussions	and the anatomic axis sho	Parallax can distort the appearance of the tibia on intraoperative fluoroscopic images. As the normal aLDTA is 89 degrees and the anatomic axis should be centered within the ankle joint, deviation from this can cause difficulty with implant placement. Surgeons should be aware of the potential impact of parallax/distortion on TAA and ways to mitigate these deleterious effects.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poste	r				
Classification	Rearfoot and Ankle Reco	nstruction				
Level of Evidence	Level V					
Authors/Financial D	isclosures					
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Submission ID	05-01004			Ref ID Sci-1004		
Title	1	Incidence of Deep Infection with Ankle Open Reduction With Internal Fixation Infection Rates and Associated Risk Factors				
Submit Date	08/30/2023					
Correspondent	Last Name: Zhang					
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Authors	Author 1: Huaitao Zha	ang, DPM	Author 2:	Khanh Phuong Tong, DPM		
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose		deep infection and the associated with internal fixation (ORIF) for		ssociated with deep infection in patients e fracture.		
Methodology	ankle ORIF between 1/1/20 surgery for returning to the then individually reviewed. presentation. We compared	This is a retrospective cohort study of KPNC members over the age of 18 that aims to identify individuals who underwent ankle ORIF between 1/1/2010 and 9/30/2022 at NorCal Kaiser Hospitals. Patients were followed for up to 6 weeks post-surgery for returning to the operating room (OR) as a proxy for deep surgical site infection (SSI). These patient charts were then individually reviewed. We excluded patients who had concurrent open fractures or soft tissue/skin/bone infections on presentation. We compared the risks of returning to the between those who had an ambulatory HbA1c < 8% vs ≥8%, current smokers vs. former/unknown in the year prior, and duration of incision time.				
Procedures						
Results	the OR was significantly his 0.002). There were no signi	gher in those with incision time >	120 mins vs. ≤ the OR betwee	the OR within 6 weeks. The rate of returning to (120 mins, 3% and 2% respectively (P-value: n those with high and low A1c, 3% vs. 2% (P- t).		
Discussions	operating room time. Deep		terature review	with a main contributing factor of total y of 1.4-5.5%. Although no statistical l have higher infection rate.		
Format	Scientific					
Case Rpt Followup	6					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01010				Ref ID Sci-1010		
Title		Talonavicular Fusion Rates with Augment: Comparing Dorsal Plate with Lag Screw versus Nitinol Staple Constructs					
Submit Date	08/29/2023						
Correspondent	Last Name: Kugach						
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Authors	Author 1:Kelly KugacAuthor 3:John RandolAuthor 5:Author 7:	h, DPM ph Clements, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Blayne Patton	ı, DPM, AACFAS		
Purpose	<b>OSC</b> Talonavicular arthrodesis (TNA) is indicated for many pathologies including arthritis, flatfoot, and coalitions. There are several fixation constructs including dorsal plating, lag screw, and staples. The aim of this study is to assess the fusion rates across various TNA constructs.						
Methodology	A retrospective multi-surgeon study identified 19 patients with TNA utilizing various fixation constructs: dorsal plate with lag screw, nitinol staple, and nitinol staple with lag screw with the use of augment from May 2019-March 2023. Fusion rates across the talonavicular joint were obtained using AP, oblique, and lateral radiographs. Fusion was defined as presence of bony bridging and obliteration of joint space across the arthrodesis site.						
Procedures							
Results	All constructs achieved fusion. There was no significant difference in time to union between dorsal plate with lag screw (104.1±38.7 days) vs. all nitinol staple cohorts (130.5±53.5 days). Within the nitinol staple cohort there were 3 distinct constructs: two staples, 3 staples, and staple with lag screw. Nitinol staples with lag screw (102.7±30.1 days) had similar time to union as the dorsal plate with lag screw (104.1±38.7 days).						
Discussions	Fusion will occur across the TNA site regardless of fixation construct. This study shows no statistical difference between plating and nitinol staple cohorts but shows similar fusion rates between dorsal plates and nitinol staple cohorts with lag screws. Staples are known to be easy to use and have faster application rates. Given their faster application rates and similar fusion rate to dorsal plate with lag screws, nitinol staples can be used as a viable alternative fixation construct in TNA.						
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconst	ruction					
Level of Evidence	Level III						
Authors/Financial D	isclosures						
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Submission ID	05-01011 Ref ID Sci-1011					
Title	Associations	Associations of Lower Leg Injury Patterns in Long-Distance Runners				
Submit Date	08/31/2023					
Correspondent		• • •	Fillar, DPM cy Program:	Email: Ascension S	taylor.fillar@ascension.org t. John Hospital	
Authors		•	'illar, DPM 3rouyette, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Donald T. McDonald, DPM, AACFAS Laura A. Owczarek, MD	
Purpose	injury in a given p	period of t		ess lower leg in	uries with almost half of runners experiencing jury patterns among runners with differing	
Methodology	Press Marathon (1	mile, 5k	, half marathon, marathon). Incl	lusion criteria co	ating in events during the 2022 Detroit Free onsisted of adults aged 18 and older. The survey terns, type of injury, treatment and footwear.	
Procedures						
Results	of injury increase previous lower leg lower leg pain pre	Runners with previous lower leg injury were younger than those that did not (43.0 vs 45.4 respectively). On race day, odds of injury increased with running >10 hours per week, average training pace >10 minutes per mile, younger age, and previous lower leg pain preventing training. Additionally, a significantly higher proportion of participants with previous lower leg pain preventing training sustained a new injury during the race. Gender, weight, occupation type and shoe gear type were not significant predictors of injury.				
Discussions	the importance of and gradual progr how runners' char	Chronic injury is commonplace in endurance sports and a significant factor in further injury risk. The outcomes underscore the importance of tailored training programs for novice, intermediate and advanced runners that considers runners' ability and gradual progression of training volume and intensity. Overall, this research contributes to a better understanding of how runners' characteristics influence their injury susceptibility and highlights the need for targeted preventive measures based on individual training and ability levels.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Clu	b Poster				
Classification	Epidemiology/Poj	pulation S	Study			
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
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Submission ID	05-01012			Ref ID Sci-1012		
Title	Fibular Rod for Ank Closed Technique	Fibular Rod for Ankle Fracture Open Reduction Internal Fixation: Mini Open versus Closed Technique				
Submit Date	08/28/2023					
Correspondent	Last Name: Knauer					
	Full Name: Oliver Knaue Practice/Company/Residency	,	Email: Virginia Mas	oliverknauer100@gmail.com son Franciscan Health		
Authors	Author 1:Oliver KnaueAuthor 3:Lance NetherAuthor 5:Jennifer McGAuthor 7:	·	Author 2: Author 4: Author 6: Author 8:	Todd Chappell, DPM, FACFAS Joshua T. Smith, DPM		
Purpose	reduction internal fixation (O conflicting reports on this tec	RIF). One, increasingly popula hnique and its ability to provid	ur, technique is e adequate red	s, a subset of these fractures require open the use of a fibular rod. There have been uction and fixation. The aim of this study is to ue with the use of a fibular rod.		
Methodology	an all closed technique and th	Twenty Six ankles that underwent ORIF with use of a fibular rod were identified. Ten of the fractures were reduced using an all closed technique and the remaining sixteen were reduced using a mini open technique. We analyzed reduction quality, in both groups, by postoperative radiographic measurement of talocrural (TC) angle and presence of dime sign.				
Procedures						
Results	was identified in postoperativ	The average age of the closed group and mini open group was 68.2 and 63.4 years respectively. The presence of dime sign was identified in postoperative radiographs in 81.2 percent of the mini open group and 60 percent in the closed group. The average TC angle was 12.9 deg. in the mini open group and 8.5 deg. in the closed group.				
Discussions				eptable technique. However, our results perly reduce the fibula anatomically prior to the		
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial D	Disclosures					
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Submission ID	05-01015			Ref ID Sci-1015		
Title		Randomized Controlled Trial Comparing Liposomal Bupivacaine versus Bupivacaine HCL for Postoperative Pain Management of Forefoot Surgery				
Submit Date	08/28/2023					
Correspondent	Last Name: Walkner Full Name: Madelin Practice/Company/Resid	e, M, Walkner, DPM MPH lency Program:	Email: Lenox Hill F	maddywalkner@gmail.com Iospital		
Authors		Spielfogel DPM , Dejesus DPM	Author 2: Author 4: Author 6: Author 8:	Alexandra Black DPM Madeline Marie Walkner, DPM, MPH		
Purpose		al bupivacaine injection will sign period (<72hrs) when compared t		post-operative pain and opioid dependence in 21.		
Methodology	28 patients who underwent a forefoot procedure consisting of bunionectomy +/- digital procedure were randomized and received a post-operative local nerve block of 10ccs of bupivacaine HCl or 8ccs of liposomal bupivacaine. Post-operative pain was assessed using the VAS scoring scale at 2, 24, and 72 hour intervals. The amount of oral morphine equivalents required post-operatively and time to first use of oral morphine equivalents were recorded.					
Procedures						
Results	Percocet (5/325mg) tabl		omal bupivacaine	vacaine HCl reported they took a mean of 8 took a mean of 7 tablets. The p-value was		
Discussions	who received liposomal between the two groups	There was no statistical difference in total number of Percocet tablets taken between the 2 groups. On average, patients who received liposomal bupivacaine took fewer Percocet tablets than those who received bupivacaine HCI. VAS scores between the two groups were noted to be similar with the Bupivacaine HCI group reporting one point higher on average for each of the time intervals. The lack of statistical significance may be secondary to the small sample size of this study and survey reported data.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Post	er				
Classification	Forefoot Reconstruction					
Level of Evidence	Level II					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-01017		Ref ID Sci-1017	
Title	Radiographic Outcomes of Minimally Invasive Bunionectomy: A Retrospective Cohort Analysis of 66 procedures.			
Submit Date	08/28/2023			
Correspondent	Last Name: Alikhani			
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Authors	Author 1: Amir, P., A Author 3: Author 5: Author 7:	likhani-Koopaei, DPM	Author 2: Author 4: Author 6: Author 8:	Anthony, D., Colonna, DPM, FACFAS
Purpose	To demonstrate the effectiveness of minimally invasive bunionectomy approach in correcting Intermetatarsal angles, Hallux valgus angles, and sesamoid positions across a range of severity.			
Methodology	From January 2022 to May 2023, a single surgeon performed a minimally invasive bunionectomy on 58 patients, involving a total of 66 feet. The study involved the analysis of both preoperative and postoperative AP weightbearing radiographs to assess Intermetatarsal angles, Hallux valgus angles, and sesamoid positions. Furthermore, postoperative X-rays were examined to identify any patterns in the surgeon's transverse osteotomy technique.			
Procedures				
Results	Radiographic statistical analysis revealed remarkable mean corrections for IM angle (6.91°), HV angle (18.59°), and sesamoid (3 positions). Ranging within 4° to 9° for IM angle, 11° to 25° for HV angle, and 2 to 4 for sesamoid. Maximum corrections reached an impressive 12° for IM angle, 40° for HV angle, and 6 positions for sesamoid.			
Discussions	In conclusion, our radiographic data analysis leaves no doubt that the MIS bunionectomy stands as a reliable and highly effective treatment for a broad spectrum of bunions, including those with severe deformities. Its remarkable success in correcting IM angle, HV angle, and sesamoid position underscores its significance as a transformative approach in triplane bunion correction surgery.			
Format	Scientific			
<b>Case Rpt Followup</b>	17			
Student Club	Not a Student Club Poster			
Classification	Forefoot Reconstruction			
Level of Evidence	Level III			
Authors/Financial Disclosures				
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Submission ID	05-01020 Ref ID Sci-102						
Title		Comparative Outcomes Between Tibio-calcaneal Arthrodesis in Charcot Patients with and without Metallic Talar Replacement.					
Submit Date	08/28/2023						
Correspondent	Last Name: Grant-McDonal Full Name: Grant-McDonal Practice/Company/Residency P	ld Ema	0	donald@gmail.com truction and Limb Salvage			
Authors	Author 1:Lisa, Marie, Gr.Author 3:William Peter CAuthor 5:Author 7:	Grant DPM Auth Auth	hor 2: Zab'Di Sanche hor 4: hor 6: hor 8:	z Prada, AACFAS			
Purpose	from non-union. Long-term fol aim of this study is to compare	s in Charcot patients is marked wit low-up often identifies hardware fa clinical and radiographic outcomes and without metallic talar replacen	ilure requiring revision or in patients with a Brodsk	below knee amputation. The			
Methodology	clinical and radiographic data w age, gender, radiographic union	Twenty patients were identified who underwent TC fusion for the treatment of Brodsky Type 3a dislocation. Patient's clinical and radiographic data were retrospectively compared. Comparison between groups were made for co-morbidities, age, gender, radiographic union, limb length discrepancy, time to union, revision of procedure, amputation, reoccurrence of deformity, post-operative complication.					
Procedures							
Results	of union, return to ambulation v	The patient populations were well matched with regard to age and comorbidities. Improvements in time to union, presence of union, return to ambulation were noted within the talar replacement group. Reoccurrence of deformity, revision, hardware failure and amputation were more common in the TC fusion without talar replacement group.					
Discussions	-	Previous studies identify limb length discrepancies greater than 2.5cm lead to greater complications associated with arthrodesis. This study suggests that replacement of large segment bone loss may improve outcomes in this challenging patient population.					
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruc	tion					
Level of Evidence	Level III						
Authors/Financial I	Disclosures						
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		Intellectual Property rights owned	Gbeam				

		05-01022 Ref ID Sci-					
Title	0,	Overhang, Underhang, and Everything In Between: A Retrospective Analysis of 400 CT-Based Patient-Specific TAR Plans					
Submit Date	08/28/2023						
Correspondent		Hume Donald R. H any/Residend		Email: Paragon 28	dhume@para	gon28.com	
Authors	Author 3:	Jeffrey Chri Donald R H Laura Brink	,	Author 2: Author 4: Author 6: Author 8:	Paul Cammac Mathew Ande	,	
Purpose	Optimal fit and alignment of total ankle replacement (TAR) tibial components has been shown to affect outcomes and device survival. Excessive overhang can lead to impingement and soft tissue irritation, while underhang can lead to subsidence and aseptic loosening. The aim of this study is to quantify the fit of an anatomic TAR tibial baseplate as planned by a CT-based patient specific alignment strategy.						
Methodology	400 de-identified CT-based patient specific TAR consecutive patient plans were reviewed for this retrospective analysis. 11 patients were excluded due to existing hardware which violated the anterior or posterior cortex at the component height. To quantify underhang/overhang, measurements were made at 101 evenly spaced points along the anterior and posterior face of the component to the corresponding location on the bone. These data were averaged across the patient sample and further stratified by the six component size offerings.						
Procedures							
Results	The average component fit resulted in 0.42±0.93mm of overhang (size range: -1.31 to 0.57mm) on the anterior cortex and 0.63±0.87mm of overhang (size range: -0.25 to 0.74mm) on the posterior cortex. The maximum overhang and underhang averaged across the patient sample was 1.56±0.89mm of overhang (size range: 1.20-1.75mm) and 1.28±1.38mm of underhang (size range: 1.00-3.72mm) on the anterior face, and 2.16±1.71mm of overhang (size range: 1.74-3.35mm) and 1.18±1.02mm of underhang (size range: 1.72-1.9mm) on the posterior face.						
Discussions	Optimizing TAR fit by minimizing overhang and underhang is critical to improving patient outcomes. Anatomical tibial baseplates may provide a better fit than universal implant designs.						
Format	Scientific						
Case Rpt Followup							
Student Club	Not a Student C	Club Poster					
Classification	Rearfoot and A	nkle Recons	truction				
Level of Evidence	Level III						
Authors/Financial Disc	losures						
	Email:		Disclosure(s) selected:			Disclosed Organisation(s):	
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-	-		Grant/Research funding			Paragon 28, Inc.	
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Submission ID	05-01023 Ref ID Sci-						
Title	•	Glycemic and Cardiometabolic Markers in the Progression of Diabetes and Lower Extremities Complications: A Study in Mexican-Americans from Starr County					
Submit Date	08/28/2023						
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	Practice/Comp	pany/Residency	/ Program:		f Texas Rio Grande Valley SOPM; UT Dallas School of Eng		
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	Author 5:	Craig L. Han	is, PhD	Author 6:	Claudia C. Biguetti, DDS, PhD		
	Author 7:			Author 8:			
Purpose			of glycemic and cardiometabol ols (D), and non-diabetics (ND)		Mexican-American cohort of diabetics with foot		
Methodology	The cohort is comprised of Mexican-Americans from Starr County in Texas. Cohort data was obtained from D (n=48), DFU (n=24) and ND(n=48). Patients were standardized by age (61.76±11.77), BMI (32.52±7.02), and sex (58% male and 42% female). Markers analyzed comprised: fasting glucose (FG), HbA1c, triglycerides, high-density-lipoproteins (HDL), and low-density-lipoproteins (LDL) levels. Data was assessed for significance (p & amp; amp; lt; 0.05) using appropriate tests based on data distribution normality.						
Procedures	N/A						
Results	FG levels were elevated in DFU group (214.3±70.8 mg/dL) compared to the D (173.2±62.3 mg/dL) and ND (100.5±8.9 mg/dL) groups, (p & amp; amp; lt; 0.0001). HbA1c levels were elevated in the DFU group (8.59%±1.6; p& amp; amp; lt; 0.0001), compared to the D (7.7%±1.9) and ND groups (5.5%±0.3). Triglycerides were progressively elevated in D (186.0±111.2 mg/dL) and DFU groups (196.0±206.4), compared to the ND (133.2±74.55). HDL levels of ND (44.26±10.93 mg/dL) differed from both DFU (37.28±9.51 mg/dL; p=0.01) and D cohorts (38.76±9.56 mg/dL; p=0.02). LDL levels differed between the D (86.50±31.73 mg/dL) and the ND group (110.4±27.27 mg/dL; p=0.006).						
Discussions	Findings suggest potential disruptions in lipid metabolism and cardiometabolic health, as well as elevated glycemic markers (FG, HbA1c, and metformin), may be associated with being potential markers for diabetic progression to lower extremities complications.						
Format	Scientific						
Case Rpt Followup							
Student Club	Not a Student	Club Poster					
Classification	Epidemiology	Population Stu	ıdy				
Level of Evidence	Level III						
Authors/Financial D	isclosures						
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Submission ID	05-01026 Ref ID Sci-102						
Title	Column l	Column Length Analysis in Midfoot Charcot Deformity					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com	Kim Sanghyuk Kim, DPM, AACFAS ıpany/Residency Program:	Email: Saint Joseph	sanghkimdpm@gmail.com 's Medical Center			
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Purpose		is known to cause instability of both the me to evaluate changes in the lateral column is		lumns. We have applied our Column Length formity.			
Methodology	A total of 45 X-ray studies from 32 patients were used for the study. The AP and lateral views were used for measurement. The primary investigator measured all radiographic measurements. Correlation between CLR and the cuboid height angle was obtained using Pearson coefficients.						
Procedures							
Results	CLR did not show a correlation with the cuboid height measurement (r=-0.11). When evaluating Charcot progression on x- ray, column lengths did not demonstrate statistically significant changes. However, a decrease in cuboid height measurement was noted. On average, a change of 0.29 cm in cuboid height was noted, while the column lengths changed about 0.084cm on average.						
Discussions	The study demonstrated that the sagittal instability of the midfoot did not directly correlate with the transverse instability. The behavior column length in the Charcot foot can be seen as independent of the sagittal instability of the midfoot. While the transverse deformities are noted due to joint instability and destruction, column lengths did not show any changes.						
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Studen	t Club Poster					
Classification	Biomechanic	s and Anatomy					
Level of Evidence	Level II						

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Submission ID	05-01028			Ref ID Sci-1028		
Title		How to Decrease Diabetic Foot Readmission Rates and Length of Stay Using an Integrated Multidisciplinary Approach				
Submit Date	08/28/2023					
Correspondent	Last Name: Baxter Full Name: Nicole Rac Practice/Company/Resider	hel Baxter, PGY3 acy Program:	Email: Emory Deca	nbaxter459@gmail.com tur		
Authors	Author 1:Nicole R BAuthor 3:Jeanne MinAuthor 5:David AldeAuthor 7:	•	Author 2: Author 4: Author 6: Author 8:	Kwame J Doh, DPM. Charles Penrose, DPM		
Purpose				g a multidisciplinary approach with open intervention for improved outcomes.		
Methodology	infection leading to amputa	Using Allscripts database for inpatient information, patients in the criteria of diabetes mellitus with lower extremity foot infection leading to amputation were included from the dates of June 2019-Dec 2020. A total of 163 patients were selected from Emory Decatur and Emory Hillandale hospital.				
Procedures						
Results		her et al). The 30-day readmission		o average of 17-20.36 days found in other abetic foot patients was found to be at 7.36%,		
Discussions	Our 30-day readmission rate for all patients in the study was found to be at 7.36%, compared to 30% (Remington et al). Average length of stay 8.31 days. Admitting the patient prior to surgical intervention, reduces the risk of reoccurrence or failure of surgery due to some underlying problem such a reduced blood flow or other comorbidities. A multidisciplinary approach allows a team approach to heal the patient and prevent readmission.					
Format	Scientific					
Case Rpt Followup	24					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
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Submission ID	05-01032	05-01032 Ref ID Sci-1032				
Title	Are immediate post	Are immediate postoperative x-rays of value in foot surgery patients?				
Submit Date	08/28/2023					
Correspondent	Last Name: Giurini					
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	Practice/Company/Residen	cy Program:	Beth Israel I	Deaconess Medical Center		
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	To evaluate the value of im	mediate post-operative x-rays in	management o	f surgical patients.		
Methodology	The study included 56 cons (PACU) following foot surg	A prospective study was conducted on patients undergoing foot surgery at a single center from April 2022 thru June 2022. The study included 56 consecutive patients who had immediate post-operative x-rays taken in the post-anesthesia care unit (PACU) following foot surgery. The primary measure was to determine if immediate PACU radiographs changed postoperative management.				
Procedures						
Results	immobilization changed. B	Of the 56 patients reviewed in this study, 0 experienced a return to the OR, had weight-bearing status changed or method of immobilization changed. Breakdown of procedures included: HAV surgery (18, 32.1%), Lesser metatarsal surgery (10, 17.9%), Midfoot bone procedure (3, 5.4%), Hindfoot bone procedure (10, 17.9%), Other (15, 26.8%).				
Discussions	postoperative management Postoperative management postoperative immobilizatio dressings and difficulty in p surgical site. While immedi	PACU radiographs are commonly performed following foot surgery. Yet there remain questions on their value in changing postoperative management of surgery. This study would suggest there is little value in obtaining these radiographs. Postoperative immobilization and no change in postoperative weight-bearing instructions. Additionally, because of surgical dressings and difficulty in positoning, PACU radiographs can be of poorer quality causing poor visualization of the surgical site. While immediate postoperative radiographs could be advantageous in specific clinical scenarios, the routine adoption of this practice should be carefully evaluated, considering additional costs with limited clinical benefits.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Epidemiology/Population S	Epidemiology/Population Study				
Level of Evidence	Level I					
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Submission ID	05-01034 Ref ID Sci-1						
Title	Osteomy	Osteomyelitis Limb Salvage Using a Local Antibiotic Carrier Calcium Sulfate					
Submit Date	08/28/2023						
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	Author 7:			Author 8:			
Purpose			ng and limb threatening di tt liable antibiotics as a tre		s study is to examine the results of flowable		
Methodology	Patients with suspected osteomyelitis undergo a bone biopsy and sent for PCR analysis. Based on results, the patient start targeted appropriate antibiotics and taken to the OR in 1-3 days. A Jamshid needle with flowable calcium phosphate product with heat stable antibiotics, is injected into the infected bone. 3 weeks later a second bone biopsy is obtained and sent for PCR. If negative, then the patient discontinues antibiotics.						
Procedures							
Results	51 patients w	ith 100 clearar	nce of infection. 80% had	early intervention wit	h a positive bone biopsy.		
Discussions	gold standard and allows ta to the minima	Osteomyelitis can be a devasting and costly disease. Patients are typically diagnosed late in their disease. Bone biopsy is gold standard and PCR results in 24-48 hours. Our surgical approach does not disturb surrounding soft tissue/blood supply and allows targeted bone healing. This procedure is also a safer option for high risk patients (high A1C, noncompliant) due to the minimal incision and time to heal. The calcium phosphate product eludes antibiotics for over 30 days. We have 100% resolution and healing in patients and believe our method is a viable and cost saving approach for osteromyelitis.					
Format	Scientific						
Case Rpt Followup	36						
Student Club	Not a Studen	t Club Poster					
Classification	Diabetic Foo	Diabetic Foot					
Level of Evidence	Level II						
Authors/Financial D	isclosures						
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Submission ID	05-01042 Ref ID			Ref ID Sci-1042		
Title	Current Considerations and Trends of the Evans Calcaneal Osteotomy Among Prominent Foot and Ankle Surgeons					
Submit Date	08/28/2023					
Correspondent	Last Name: Bischoff Full Name: Alex, J, E Practice/Company/Reside	Bischoff, DPM AACFAS ency Program:	Email: Balance Foo	bischoff91@gmail.com t and Ankle		
Authors		Bischoff, DPM AACFAS	Author 2: Author 4: Author 6: Author 8:	Zachary, Hill, DPM Robert, Mendicino, DPM FACFAS		
Purpose		ē ē		rioperative management for the Evans Calcaneal lized, we developed a survey study investigating		
Methodology	ankle surgeons. After res	This survey was developed by the researchers and consisted of 18 questions. This was then sent to 63 prominent foot and ankle surgeons. After responses were collected, each question was assessed to determine which components around the procedure are most widely accepted.				
Procedures						
Results	surgeons on any of the qu agreement) included indi uncoverage, negligible in approach. The factors me of the interposed materia osteotomy direction. The	In total, 47 participants (75% response rate) were included. There was no complete consensus among the foot and ankle surgeons on any of the questions, including topics with previous literature available. The factors most agreed upon (>75% agreement) included indications for the procedure, use of intraoperative fluoroscopy, radiographic assessment of talar head uncoverage, negligible importance of the interposed material to extend the full width of the calcaneus, and the incisional approach. The factors moderately agreed upon ( $50 - 75\%$ agreement) included the interposed material composition, shape of the interposed material, location of osteotomy, and osteotomy direction. The factors least agreed upon (<50%) agreement) included the length of graft material, ideal patient BMI, most common complication encountered, and type of fixation utilized.				
Discussions	provide insight into the n	There is extensive literature on techniques around the Evans Calcaneal Osteotomy. The findings of this survey study provide insight into the most up-to-date concepts and techniques currently being utilized by foot and ankle surgeons when performing an Evans Calcaneal Osteotomy.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poste	r				
Classification	Rearfoot and Ankle Reconstruction					
Level of Evidence	Level IV					
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Submission ID	05-01044			Ref ID Sci-1044		
Title		The Influence of COVID-19 on the Rate of Symptomatic Deep Venous Thrombosis Following Foot and Ankle Surgery				
Submit Date	08/28/2023					
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	Author 7:		Author 8:			
Purpose		surgery. This study evaluates t	he incidence ar	city of literature assessing its influence on deep d risk factors of deep venous thrombosis among		
Methodology		patients met inclusion criteria	. 321 patients h	ttients who had a COVID-19 positive diagnosis ad a COVID-19 positive diagnosis within the OVID-19 group.		
Procedures						
Results	compared to the COVID-19 nd variables were found to have a following foot and ankle surge	Overall, there were 10 DVT in the COVID-19 positive population, a rate of 3.12%. This was not significantly increased compared to the COVID-19 negative group (3.12% vs. 1.99%, p-value 0.463). No demographic or medical history variables were found to have a statistically significant influence on the rate of DVT in the COVID-19 positive patient following foot and ankle surgery. Furthermore, vaccination status, timing of COVID-19 diagnosis in relation to surgery, trauma, anatomic location of surgery, and the use of chemical prophylaxis did not demonstrate any statistical significance.				
Discussions	surgery. In summary, this stud	y did not find COVID-19 to in to influence that risk. This stud	crease risk of I dy stands as a p	-19 has on DVT rates after foot and ankle DVT following foot and ankle surgery and no reliminary investigation on DVT rates in		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Diseas	es				
Level of Evidence	Level III					
Authors/Financial D	visclosures					
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Submission ID	05-01047			Ref ID Sci-1047		
Title		Correlation between Socioeconomic Status and Severity of Amputation in COVID Positive Diabetic Patients: A Retrospective Study				
Submit Date	08/30/2023					
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	Author 5: Author 7:		Author 6: Author 8:			
Purpose	This study aimed to deterr	nine whether a correlation existed	between the so	cioeconomic status of diabetic patients who the COVID-19 pandemic.		
Methodology	This is a retrospective study that analyzed 1366 patients from Montefiore Medical Center between March 2019 and May 2023. Inclusion criteria consisted of patients exposed to COVID-19 confirmed by nasal swab/PCR, those with EMR- diagnosed Type 2 diabetes mellitus, and individuals who underwent foot/ankle amputation or had skin manifestation during admission. Excluded were non-COVID-19 admissions, non-diabetic cases, and those lacking residence details. Patients' zip codes were subsequently utilized to classify socioeconomic status, as indicated by the median household income.					
Procedures						
Results	patients, 8 were (13.79%) amputation, 2 transmetata	in lower socioeconomic regions. A	Among these, s knee amputatio	went partial 1st ray amputation. Of these argeries comprised of 1 ulcer, 1 partial ray n (BKA), and 1 above knee amputation (AKA). mes.		
Discussions	Results showed that there is no statistical significant difference in diabetic patients' amputation levels, as determined by their ZIP code-based socioeconomic status and COVID-19 infection rate. With the limited dataset, with only 2 instances of BKA, likely contributed to the lack of statistical significance in BKA data. While this study provides valuable insights into the relationship between COVID-19-positive diabetic patients' socioeconomic circumstances and amputation levels, further research with a larger dataset is warranted to validate and expand upon these findings.					
Format	Scientific					
Case Rpt Followup	0					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
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Submission ID	05-01055 Ref II						
Title	Tendinop	Long-Term Functional Outcomes of Surgical Treatment of Insertional Achilles Tendinopathy Augmented with Human Acellular Dermal Matrix Without the Use of Suture Anchors					
Submit Date	08/29/2023						
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Purpose	Insertional Achilles tendinopathy is a pathology which affects approximately 6% of the general population. The aim of this study was to evaluate the long-term outcomes of several patients who underwent surgical treatment for Insertional Achilles tendinopathy which augmented the Achilles tendon repair with acellular dermal allograft matrix but without employing suture anchors.						
Methodology	A retrospective review of an initial total of 42 patients with insertional Achilles tendinopathy who underwent surgical treatment consisting of partial detachment (50-75%) of the Achilles tendon, excision of retrocalcaneal exostosis, debridement and repair of Achilles tendon with augmentation using human acellular dermal matrix allograft by a single surgeon was performed. A total of 20 patients were available for final follow up greater than one year. Primary outcomes assessed included time to weightbearing, visual analog scale, major and minor complications. The effect of comorbidities including diabetes, hypertension and tobacco usage were reviewed.						
Procedures							
Results	of 1.75 at fina		nfection. Two (1	AS scores improved from a mean of 5.1 to a mean 0%) patients had delayed wound healing while n ruptures were noted in this study.			
Discussions				ith the use of human acellular dermal matrix liminating the need for supplemental fixation			
Format	Scientific						
<b>Case Rpt Followup</b>	36						
Student Club	Not a Studen	t Club Poster					
Classification	Soft Tissue/T	umor					
Level of Evidence	Level IV						
Authors/Financial Di	sclosures						

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Submission ID	05-01066			Ref ID Sci-1066		
Title		The Learning Curve of a Hybrid Total Ankle Arthroplasty Combining a Stemmed Intramedullary Tibial Component With Chamfer-Cut Talar Dome				
Submit Date	08/29/2023					
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Purpose	ankle arthrodesis, the steep demonstrated a learning cu an intramedullary tibial co	Total ankle arthroplasty (TAA) is regarded as a technically demanding surgical procedure. While a viable alternative to ankle arthrodesis, the steep learning curve associated with TAA has been a barrier to its widespread use. Prior studies have demonstrated a learning curve of approximately 30 cases. We have previously described our hybrid technique combining an intramedullary tibial component with a minimal resection chamfer-cut talar component. The purpose of the present study is to compare our early and late outcomes, and therefore address the learning curve associated with our hybrid technique				
Methodology	single surgeon from Octob	We performed a comparative study of 60 consecutive patients undergoing primary TAA using this hybrid implant by a single surgeon from October 2018 to September 2022. Intraoperative characteristics, clinical outcomes, complications, and component alignment on postoperative radiographs were assessed and compared between the first and last 30 cases.				
Procedures						
Results	170) to 91 (68-152) minute wound complications in th	es (p<0.001). There were less of	overall complica	s. Mean surgery time decreased from 130 (85- titions (12 vs 4, p=0.03), and specifically less ar between the groups. No significant difference		
Discussions	intraoperative characteristi	We found that our hybrid technique is not exempt from the learning curve associated with TAA implantation with regard to intraoperative characteristics. While there was a mild statistically insignificant difference in complications, there was overall no difference in patient-reported clinical nor radiographic outcomes between the groups.				
Format	Scientific					
Case Rpt Followup	24					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recon	struction				
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
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Submission ID	05-01067			Ref ID Sci-1067	
Title	Comparison of First Metatarsal Phalangeal Joint Arthrodesis Rates with and without use of interfragmentary screw fixation				
Submit Date	08/29/2023				
Correspondent	Last Name: Kugach				
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	Practice/Company/Resider	ncy Program:	Carilion Clin	ic	
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	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	have shown the plate with stronger than a plate alone.	interfragmentary screw construct . The aim of this study is to determ r post-operative complications or	to be about 3x nine if the decr	00% in the literature. Biomechanical studies more stable than a lag screw alone and 10x eased stability in a plate alone construct places a very time by evaluating time to weight bearing,	
Methodology	limitus/rigidus or hallux va		ne was 1 year.'	by a single provider for treatment of hallux Time to weightbearing, fusion rates, lated.	
Procedures					
Results	to radiographic fusion was weightbearing was 48 days	48 days. Average time to protecte s. Three patients experienced com	ed weightbearir plications, incl	average age of 59 (range 32-81). Average time ag was 13.5 days and time to unprotected uding nonunion or delayed union, resulting in a pain and underwent subsequent hardware	
Discussions	determined patient outcom	es and recovery times are not affe performing 1st MPJ arthrodesis wi	ected by omissi	ared to the standard screw/plate construct, we on of the lag screw . This information is ragmentary screw could cut down OR time,	
Format	Scientific				
<b>Case Rpt Followup</b>					
Student Club	Not a Student Club Poster				
Classification	Forefoot Reconstruction				
Level of Evidence	Level IV				
Authors/Financial D	Disclosures				
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Submission ID	05-01074			Ref ID Sci-1074		
Title	Non-Prep Tibiotalaoc Procedure	Non-Prep Tibiotalaocalcaneal Nailing in the Diabetic Ankle Fracture as Limb Salvage Procedure				
Submit Date	08/30/2023					
Correspondent	Last Name: Poynter					
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	Practice/Company/Residency	Program: U	niversity of L	ouisville		
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	Author 5: David Seligsor		uthor 6:	Nicholas Laco DPM		
	Author 7:	A	uthor 8:			
Purpose	complicated diabetic population population with ankle fractures	n. We believe the comorbidities a s warrant tibiotalocalcaneal stabili	and increased ization using	non-prepped hindfoot nailing in the complication risks seen in the diabetic retrograde intramedullary nailing in a non- en reduction internal fixation of the diabetic		
Methodology	department who underwent tib	Retrospective chart review on patients with complicated diabetes presenting to the University of Louisville orthopedic department who underwent tibiotalocalcaneal nailing of their ankle fracture as primary treatment without formal joint preparation in the following time frame: 1/1/2014 to 12/31/2020.				
Procedures						
Results	placed. 3 total below knee amp criteria. A limb salvage rate of hemoglobin A1c > 7.0%. Furth	putations recorded from the sampl 86.4% found. The only statistical her, we noted an average length of	le size with a lly significant f stay in the h			
Discussions	fracture patient. We show a lin	Our findings suggest that TTC nailing in a non-prep fashion can adequately allow for limb salvage in the DM ankle fracture patient. We show a limb salvage rate of 86.4%. Further we believe this non-prep nailing of the tibiotalocalcaneaus allows for faster return to WB of baseline and reduces overall hospitalization.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
Authors/Financial I	Disclosures					
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Submission ID	05-01082			Ref ID Sci-1082		
Title		Distally Based Peroneus Brevis Muscle Flap for Treatment of Distal Third Lower Extremity Defects in the Multimorbid Patient Population				
Submit Date	08/29/2023					
Correspondent	Last Name: Groeschl Full Name: Ross T Gro Practice/Company/Residen	eschl, DPM cy Program:	Email: Grant Medic	rgroe726@gmail.com al Center		
Authors	Author 1:Ross GroesAuthor 3:AlexandraAuthor 5:Author 7:	schl, DPM T. Black, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Ryan Stone, DPM, AACFAS Amanda Quisno, DPM, FACFAS		
Purpose		s to evaluate the utility of the dist stal-third lower extremity defects		eus brevis muscle flap augmented with external ultimorbid patients.		
Methodology	A retrospective review of four consecutive patients who underwent a distal based peroneus brevis muscle flap for coverage of a distal-third lower extremity defect between January 2018 and July 2022 was performed. Patients with a minimal follow-up of 12 months were included. Surgical technique, perioperative data, and complications were recorded. Patient satisfaction was recorded via survey at final follow-up.					
Procedures						
Results	Demographics including comorbidities, prior intervention, defect size (cm2), time to healing, adjunctive procedures, complications and patient satisfaction are illustrated. Average follow-up was 38.25 months (range, 13 - 60). Limb preservation was achieved in 4/4 patients at final follow-up.					
Discussions	Chronic distal lower extremity defects are difficult to manage given their multifactorial etiology, limited available reconstructive options and incidence in the multimorbid patient population. Multimorbidity is defined as the simultaneous presence of several (three or more) chronic conditions. The authors' find value in attempting orthoplastic-type limb reconstruction to ultimately achieve limb preservation in select multimorbid patients. The orthoplastic approach to limb reconstruction should be aimed at improving overall patient quality of life. This case series demonstrates the utility of orthoplastic reconstruction techniques including a distally based peroneus brevis flap augmented with external fixation to achieve limb preservation in multimorbid patients who would otherwise be at high risk for post-amputation mortality.					
Format	Scientific					
<b>Case Rpt Followup</b>	38.25					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recons	struction				
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01098				Ref ID Sci-1098	
Title	<b>Risk Factors</b> Amputation	that Pre	dict Loss of Ambulat	ion and Wo	ound Healing after Midfoot	
Submit Date	08/31/2023					
Correspondent	Last Name: Ply Full Name: Chr Practice/Company/	istopher M.	•	Email: Georgetown	cmp334@georgetown.edu University School of Medicine	
Authors	Author 3: Joh Author 5: Chr	-	•	Author 2: Author 4: Author 6: Author 8:	Umayr R. Shakih, MPH Craig J. Verdin, DPM, AACFAS Karen K. Evans, MD Jayson N. Atves, DPM, FACFAS	
Purpose	ambulation after a	nidfoot amj		cal risk factors	ctors predict time to wound healing and return to can help guide decision-making and treatment hidfoot amputation.	
Methodology	cohort is composed	58 adult patients undergoing a midfoot amputation at a single tertiary wound care center were included in the study. The cohort is composed of 31 transmetatarsal amputations, 11 Lisfranc amputations, and 16 Chopart amputations. Data was obtained through retrospective chart review and was analyzed using regression analysis with significance defined as $p < 0.05$ .				
Procedures						
Results	(β=0.621, p=0.045) postoperative return	Linear regression revealed that time to wound healing was directly associated with BMI ( $\beta$ =3.66, p=0.022) and LDL ( $\beta$ =0.621, p=0.045), but inversely associated by age ( $\beta$ =-2.05, p=0.007). Simple logistic regression revealed that postoperative return to ambulation was predicted by BMI (OR=1.12, p=0.015), hemoglobin A1c (OR=1.54, p=0.010), CCI (OR=0.748, p=0.0047), and age (OR=0.945, p=0.0098).				
Discussions	Patients more likely	Increase in BMI and decrease in age predicted longer time to wound healing and higher likelihood of return to ambulation. Patients more likely to bear weight and ambulate, such as those with a higher BMI or younger age, might utilize their partially amputated foot more and delay the wound healing process.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club	Poster				
Classification	Wound Care/Infect	ious Diseas	es			
Level of Evidence	Level II					
Authors/Financial D	isclosures					
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Submission ID	05-01101				Ref ID Sci-1101		
Title		Analyzing Gait Irregularities in Diabetic Peripheral Neuropathy: A Multidisciplinary Approach					
Submit Date	08/29/2023						
Correspondent	Last Name: Full Name: Practice/Com	Kavanaugh Marian, R, Ka pany/Residency	vanaugh, DPM Program:	Email: MedStar He	marian.kavanaugh@medstar.net alth		
Authors	Author 1: Author 3: Author 5: Author 7:	Marian, R, Ka Holly, D, Shan Firras, Garada, John, S, Steinb	, DPM	Author 2: Author 4: Author 6: Author 8:	Ademide, Young, BS Samuel, Huffman, BS Christopher, E, Attinger, MD Jayson, N, Atves, DPM		
Purpose	adults with an	The primary aim of this study is to collect quantitative data to characterize kinematic gait parameters amongst diabetic adults with and without neuropathy. This data was used to determine the effects of peripheral neuropathy on proprioception and identify the specific spatiotemporal gait parameters that are significantly affected.					
Methodology	participated. Participants u Software ana	Data included der inderwent standar	mographics, comorbiditie rdized protocols using Op ait speed, elevation midsv	s, previous lower e al sensors for 120-	lower extremity surgery ninety days prior extremity surgeries, and gait parameters. second walk and 30-second Romberg tests. apport, double limb support, sway. Data were		
Procedures							
Results	increased electronic cadence (97.5 single limb st $(\beta=-0.331, p^{-1})$	vation midswing 54 vs. 105.05 step upport (35.8 vs. 3 <0.001), elevation	(1.52 vs. 1.06 cm, p=0.00 ss/min, p=0.001), increase 7.7%, p=0.001). Multiva	2), prolonged step ed double limb sup riate linear regress 0.001), step duratic	duced gait speed (0.82 vs. 1.02 m/s, p<0.001), duration (0.63 vs. 0.58 s, p=0.003), reduced port (28.39 vs. 24.36%, p=0.001), decreased ion showed PN significantly predicted gait speed in ( $\beta$ =0.321, p=0.004), cadence ( $\beta$ =-0.321, 3=0.282, p=0.004).		
Discussions	Our study showed notable gait mechanic differences between DM patients with and without PN, including cadence, gait speed, midswing elevation, single/double limb support, and sway. By focusing on interventions that address biomechanical imbalances caused by neuropathy, limb salvage specialists could potentially mitigate the risk of end-stage complications, preserving the patient's mobility and QoL.						
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Student	t Club Poster					
Classification	Biomechanic	s and Anatomy					
Level of Evidence	Level I						
Authors/Financial Di	sclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01102	05-01102 Ref ID Sci-1102					
Title	Rate of Recurrent Os	Rate of Recurrent Osteomyelitis after Partial Foot Amputation in Diabetics					
Submit Date	08/29/2023						
Correspondent	Last Name: Saley Full Name: Isabella Practice/Company/Residency	Program:	Email: Virginia Tec	isaley@carilionclinic.org h Carilion			
Authors	Author 1:Isabella Saley,Author 3:David CalderyAuthor 5:Blayne PattonAuthor 7:		Author 2: Author 4: Author 6: Author 8:	Jessica Katzer, DPM Kelly Kugach, DPM			
Purpose	weeks of IV antibiotics for res	sidual soft tissue or bone infect his study is to evaluate re-amp	tion, respective utation rates in	ebridement with 2 weeks of antibiotics or 6 ly. This is deemed a weak recommendation due patients with negative vs positive (residual OM) utation.			
Methodology	secondary to diabetic foot infe method, pathology results, and size using an alpha level of 59	Data was collected for 116 patients who underwent digital, partial ray, or transmetatarsal amputations for osteomyelitis secondary to diabetic foot infections at a single institution. The data included demographics, laboratory findings, diagnosis method, pathology results, antibiotic treatment, and subsequent procedures. Power analysis estimated the required sample size using an alpha level of 5% and power level of 0.8. The association between having histologically positive margins and the risk of returning to the OR within 1 year was tested using Chi-Square analysis.					
Procedures							
Results	antibiotics. 33% (33/99) of pa patients with positive margins	99 of the 116 patients had negative margins for osteomyelitis and 17 patients had positive margins and 6 weeks of IV antibiotics. 33% (33/99) of patients with negative margins had a more proximal amputation within 1 year. 64% (11/17) of patients with positive margins and IV antibiotics returned for re-amputation. We found a statistically significant association between positive margins and the risk of re-amputation despite the recommended 6 weeks of IV antibiotic therapy. (p-value of 0.04635)					
Discussions				; however, this study shows aggressive resection ction and improving patient prognosis.			
Format	Scientific						
<b>Case Rpt Followup</b>	12						
Student Club	Not a Student Club Poster						
Classification	Diabetic Foot						
Level of Evidence	Level III						
Authors/Financial D	Disclosures						
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Submission ID	05-01106	05-01106 Ref ID Sci-11				
Title	0	Staged Treatment of the Infected Hindfoot and Ankle: An Algorithmic Approach to Septic Fusion				
Submit Date	08/29/2023					
Correspondent	Last Name:	Stone				
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	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	The aim of th and peri-tala	•	ate outcomes of staged sep	tic fusion in pat	ients with severe deformity of the hindfoot/ankle	
Methodology	2016-2022 w amputation w	as performed. Patie vere included. Dem	ents with a minimum of 12	month follow-u	ged septic fusion of the hindfoot/ankle between p and previously recommended a below knee a and complications were recorded. The nd described.	
Procedures						
Results	are outlined f collapse. 9/10 achieved sep in 6/16 patien	for each patient. Av 6 patients underwer tic fusion with exte	erage follow-up was 28.5 n nt tibiotalocalcaneal fusion rnal fixation alone. Delaye up, limb preservation was	nonths (range, 1 , 7/16 patients u d wound healing	trated. Reconstructive stages and complications 3 - 58). 7/16 patients presented with talar nderwent tibiocalcaneal fusion. 9/16 patients g was the most common complication, occurring 16 patients. All patients who achieved limb	
Discussions	independence paramount to patients. Ulti	Non-traumatic lower extremity amputation is directly associated with high mortality, poor quality of life and loss of independence. Stabilization of the hindfoot/ankle in the setting of severe deformity and peri-articular infection is paramount to limb preservation. Using the aforementioned algorithm, salvage of a functional limb was achieved in 75% of patients. Ultimately, this study provides a reproducible approach to treating limb-threatening deformities with concomitant infection of the hindfoot and ankle.				
Format	Scientific					
Case Rpt Followup	28					
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Reconstruct	tion			
Level of Evidence	Level IV					
Authors/Financial l	Disclosures					
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Submission ID	05-01115 Ref ID Sci-1					
Title		Optimal Calcaneal and Distal Tibial Autograft Harvest Trajectory: A Computed Tomography Analysis of Regional Bone Density				
Submit Date	08/30/2023					
Correspondent	Last Name: Casciato					
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	Author 7:		Author 8:			
Purpose	complication rate, harvesti	ng with a trephine-like device p	rovides a quick	ins a useful adjunct procedure. With a low means to obtain graft. The purpose of this study ral calcaneal and medial distal tibial trephine		
Methodology	Indirect bone mineral dens frontal plane (anterior, cen	A retrospective analysis of 30 adults with normal foot and ankle CT scans was performed. Demographic data was recorded. Indirect bone mineral density using CT-derived Hounsfield units (HU) of calcaneal and distal tibial autograft sites, at three frontal plane (anterior, central, posterior) and transverse plane (superior, midline, and inferior) positions, were collected. An Analysis of Variance test followed by post-hoc testing was used to compare the densities.				
Procedures						
Results	superior (247.01±72.08HU calcaneal planes, respectiv orientations maintained the	The average age was 44.87 $\pm$ 13.34 years across 12 male and 18 females. The posterior (228.6 $\pm$ 84.70HU; p = 0.009) and superior (247.01 $\pm$ 72.08HU; p < 0.001) orientations maintained the greatest density among the frontal and transverse calcaneal planes, respectively. The posterior (291.17 $\pm$ 107.7HU; p < 0.001) and inferior (274.1 $\pm$ 106.9HU; p < 0.001) orientations maintained the greatest density among the frontal and transverse distal tibial planes, respectively. The posterior-superior calcaneus (268.10 $\pm$ 70.64HU) and posterior-inferior distal tibia (325.61 $\pm$ 106.67HU) maintained the denset bone.				
Discussions	•			ould orient harvesters in the posterior and ia, orientation should be directed in the posterior		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Biomechanics and Anaton	у				
Level of Evidence	Level III					
Authors/Financial D	lisclosures					
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Submission ID	05-01116 Ref ID Sci-1					
Title		Cost Efficacy Comparison and the Clinical Importance of Sequencing Lateral Ankle Stabilization Techniques: A Comparative Study				
Submit Date	08/30/2023					
Correspondent	Last Name: Babu					
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	Practice/Company/Reside	ency Program:		cine Wheeling Hospital Foot And Ankle urgical Fellowship		
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	augmentation anchoring	kits (with/without arthroscopy) ha ne of a traditional method with th	ve emerged. Th	Gould repair but newer techniques like is study aims to compare the cost efficacy, and explore the economic advantages of		
Methodology	We retrospectively analyzed the costs for: Group A (10 2-polyester-nonabsorbable sutures), Group B (augmentation kits), and Group C (augmentation kits with arthroscopy) done in a single facility between 2021-2022. We compared procedure- related material costs, hospital charges, operating room and ancillary costs and considered operating room time. AOFAS scores were recorded preoperatively and at 12 months postoperatively for Group A (N = 32).					
Procedures						
Results	charges. Group C materia		nowever, incurre	.00, reaching upto \$4260.75 with hospital ed higher total charges due to longer operating		
Discussions	This study emphasizes the cost efficacy of a traditional Broström-Gould while significantly improving lateral ankle instability. Balancing material costs, hospital charges, and operating room time is essential for cost-effectiveness evaluation. Moreover, the study underscores the importance of avoiding the "last procedure first" approach by advocating for sequenced intervention strategy. Beginning with the traditional method, allow surgeons to have revisional options, safeguarding against unforeseen complications during the recovery process. Further research is needed to better understand the correlation between clinical effectiveness and economic factors in lateral ankle stabilization procedures.					
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poste	r				
Classification	Rearfoot and Ankle Reco	nstruction				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01123			Ref ID Sci-1123		
Title	Methodology for A	A Comparative Retrospective Analysis: Mini Open Vs Percutaneous Incisional Methodology for Ankle Open Reduction with Internal Fixation When Utilizing Fibular Intramedullary Rod Fixation				
Submit Date	08/30/2023					
Correspondent	Last Name: Dong Full Name: Johnny Practice/Company/Reside	ency Program:	Email: Cooperman E	johnnydong101@gmail.com Barnabas Medical Center		
Authors	Author 1:Elias LogAuthor 3:Aamir AhAuthor 5:Andre ReAuthor 7:Author 7:	med	Author 2: Author 4: Author 6: Author 8:	Jay Bhuta Jayson Choi		
Purpose				study is to assess the fracture patterns and xation in order to establish standard of care.		
Methodology				ation that were performed between 2022-2023 onal approach, fracture pattern and age.		
Procedures						
Results	9/11 individuals underwe	The investigatory cohort comprised of 3 male and 8 female. 2/11 individuals underwent a percutaneous approach while 9/11 individuals underwent a mini-open approach. 5/9 patients had unsuccessful percutaneous reduction attempts that required mini open approach. The ankle fractures were classified: 5/11 as SER 4, 4/11 as SER 2, 1/11 as SAD 2, and 1/11 as PER 4.				
Discussions	Fibular rods are a great option for fibula ORIF as they maintain length while providing stability comparable to plate and screw fixation. Semi-long term functional outcomes in patients who underwent fibular rod ORIF are positive. Due to elevated incidence rate of unsuccessful percutaneous reductions, we recommend the mini open reduction approach be formally instituted as the prevailing standard of care when performing fibular ORIF procedures employing the fibular nail.					
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poste	r				
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial D	isclosures Email:					
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Submission ID	05-01127 Ref ID S			Ref ID Sci-1127			
Title		A Retrospective Comparative Analysis of In-Office vs. Operating Room Percutaneous Tendo-Achilles Lengthening: A study of 65 Limbs					
Submit Date	08/30/2023						
Correspondent	Last Name:	Karman					
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	Practice/Con	npany/Residency Program:	New York P College	resbyterian Queens/ Weill Cornell Medical			
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Purpose	forefoot ulce	rations as well as trans metatarsal stump ulco	erations. The aim	ucing forefoot pressure, preventing and healing of this study is to provide insight into the ning in both an in-office and operating room			
Methodology	65 limbs from 64 patients undergoing percutaneous tendo-achilles lengthening from 2018-2022 at a large New York City teaching hospital were included in this retrospective comparative study. The average follow up time was 24 months. Patients were divided into an in-office and operating room cohort. Using non-parametric statistical analysis, demographics, comorbidities, ASA classification, indication for surgery, post-operative pain/functional status, post-op device use, intraop/postop complication, need for revision, readmission rate, and mortality rate were analyzed.						
Procedures							
Results	complication Mortality rat	ical success rate was 93.8% (61), with 4 Post is included achilles rupture (n=1), hematoma es between both groups at 1 year follow up v und ASA levels were similar in distribution a	(n=1), plantar he vere equal at 0%.	eel ulcer (n=1), wound dehiscence (n=1). Demographics, comorbidities, surgical			
Discussions	Based on our results, we conclude that in-office tendo-achilles lengthening can be considered a safe and effective alternative than performing this procedure inpatient. Our study shows similar outcomes in terms of morbidity, complications and need for revisional surgery with comparable demographics, comorbidities, ASA classifications and indication for surgery among the two cohorts.						
Format	Scientific						
<b>Case Rpt Followup</b>	24						
Student Club	Not a Studen	t Club Poster					
Classification	Wound Care/	/Infectious Diseases					
Level of Evidence	Level III						
Authors/Financial Di	isclosures						
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Submission ID	05-01136				Ref ID Sci-1136		
Title	Hindfoot Alignment H	Hindfoot Alignment Effect on Midfoot Charcot Reconstruction Outcomes					
Submit Date	08/30/2023						
Correspondent	Last Name: Parkman Full Name: Liliya, M Practice/Company/Residency l	Program:	Email: MedStar	liliya.parkman	@medstar.net		
Authors			Author 2: Author 4: Author 6: Author 8:	Caitlin Zarick, Christopher E.	ts, DPM, MPH DPM, FACFAS Attinger, MD :s, DPM, AACFAS		
Purpose	To evaluate the effect of hindfore Charcot reconstruction.	To evaluate the effect of hindfoot alignment on 210 patients with midfoot Charcot neuroarthropathy that underwent Charcot reconstruction.					
Methodology	Inclusion criteria encompassed adults over 18 with midfoot Charcot, who underwent midfoot Charcot reconstruction from 2004-2021. Preoperative hindfoot alignment was categorized into valgus, neutral, and varus using the Saltzman view. Hindfoot alignment was based on the most distal part of the calcaneus location in relation to the longitudinal axis of the tibia, neutral is in line, varus is medial, and valgus is lateral. Patients' hindfoot alignment was assessed for its effects on midfoot chercot reconstruction. Multivariate logistic regression evaluated the effect of hindfoot alignment on reconstructive outcomes.						
Procedures							
Results	In patients with valgus position, the odds of pin tract infection was 4.2 times higher (4.237, 95% 1.165 to 15.406), new site of Charcot collapse was 4.9 times higher (4.920, 95% 1.093 to 22.156), hardware failure was 3.5 times higher (3.454, 95% X 1.260 to 9.468) than neutral position. The odds of osteomyelitis was 5.3 times higher (5.319, 95% 1.156 to 24.390) for patients in valgus position than varus position. In patients with varus position, the odds of pin tract infection were 5.8 times higher (5.750, 95% 1.28% 0.1477) than neutral position.						
Discussions	Varus and valgus hindfoot alignment propagated worse complications than neutral position in patients with midfoot Charcot. Hindfoot malalignment in patients who underwent reconstruction may stimulate further Charcot breakdown and post-operative infection including hardware failure, pin tract infections, and osteomyelitis. Evaluation of hindfoot alignment is important to mitigate postoperative complications in midfoot Charcot reconstruction.						
Format	Scientific						
<b>Case Rpt Followup</b>	54.36						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstrue	ction					
Level of Evidence	Level III						
Authors/Financial Dis	sclosures						
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		Member of a medical public board	ation or editorial	governing	Editorial board for Podiatry today		
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Submission ID	05-01138				Ref ID Sci-1138
Title	Incidence of knot ir lateral ankle instab	ritation of Arthrobrost ility	rom techni	ique for mai	nagement of chronic
Submit Date	08/30/2023				
Correspondent	Last Name: Adam Full Name: Abraham Practice/Company/Residen	cy Program:	Email: Henry Ford M		um@gmail.com
Authors	Author 1: Abraham Z Author 3: Author 5: Author 7:	Adam	Author 2: Author 4: Author 6: Author 8:	Brian G Lode	r DPM FACFAS CWS
Purpose	Ankle sprains continue to be one of the most common sports injuries with nearly 20% leading to chronic lateral ankle instability. While the majority of symptoms subside with conservative management consisting of functional rehabilitation with peroneal muscle strengthening, proprioception training and bracing, approximately 10% will continue to have persistence of instability necessitating the need for surgical correction. several surgical techniques have been described, consisting open and arthroscopic repairs. Recently, knotless anchors have been advocated in arthroscopic repair due to the incidence of irritable knots. Presented here is incidence of knot irritation with arthroscopic modified brostrom-Gould repair.				
Methodology	46 patients undergoing arthroscopic modified brostrom-gould repair were included in this study from 2016 to 2021. Patients were assessed and included based on positive talar tilt, anterior translation and lateral ankle instability. Postoperatively, patients were kept non-weight bearing for 2-3 weeks and then transitioned to CAM boot. At 6 weeks postoperatively, patients were transitioned to an ankle brace in normal shoegear. Patients were followed post operatively in clinic and PROMIS scores were recorded and incidence of irritable knots. Retrospective chart review, Arthroscopic modified brostrom-gould via Arthrobrostrom using 17 Depuy Mitek Gryphon, 29 Arthres Suture pushlock				
Procedures					
Results	PROMIS and patient report	ted surveys. 0.022% (1/46) repor	ted irritable har	dware requiring	hardware removal.
Discussions	Arthroscopic modified bros incidence of knot irritation.	strom-gould with knotted repair i	s a safe, and rel	iable treatment o	option for CLAI with very low
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Arthroscopy				
Level of Evidence	Level III				
Authors/Financial Di	isclosures				
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CWS		Member of a medical publicat	ion or editorial	governing board	Reviewer JFAS, Editorial board FASTRAC

Submission ID	05-01141			Ref ID Sci-1141		
Title		Comparing Intra-Operative and Post-Operative Radiographic Measurements in Congenital Flexible Flatfoot Deformity				
Submit Date	08/30/2023					
Correspondent	Last Name: Lobos					
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	Practice/Company/Resider	cy Program:	West Penn H	ospital/Allegheny Health Network		
Authors	Author 1: Emily Lob		Author 2:	Matthew Diamond, DPM		
		zariti, DPM, FACFAS	Author 4:			
	Author 5: Author 7:		Author 6: Author 8:			
Purpose	radiography is critical in as bearing radiographs in an i study was to quantify diffe	ssessing adequate deformity corre ntra-operative setting has the pote	ection. However ential to lead to ad first weight b	nar surgical reconstruction. Intra-operative ;, the inability to reliably simulate weight suboptimal correction. The purpose of this eaering post-operative radiographic		
Methodology	Intra-operative simulated v Radiographic measuremen	veight bearing radiographs were c ts assessed included talo-navicula	compared to first or coverage ang	cedures from a single surgeon were reviewed. st post-operative weight bearing radiographs. le (TNCA), anterior-posterior (AP) talus-1st on angle (CIA), and Meary's angle.		
Procedures						
Results	A total of 11 feet were included in our study. Mean time to first post-operative weight bearing radiographic imaging was 61.46 days. There were no statistically significant differences found between intra- and post-operative radiographs for all measurements assessed: (1) TNCA (-0.1 vs 1.327 deg, $p = 0.230$ ), (2) T-1MT (7.273 vs 7.40 deg, $p = 0.948$ ), (3) CCA (6.336 vs 8.391 deg, $p = 0.194$ ), (4) CIA (22.77 vs 21.28 deg, $p = 0.168$ ), and (5) Meary's angle (4.418 vs 1.168 deg, $p = 0.056$ ).					
Discussions		lifferences in any radiographic most structive surgery suggesting possi		nen comparing intra- and post-operative imaging of intra-operative radiography.		
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recon	struction				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01144			Ref ID Sci-1144		
Title		Assessing the Prevalence, Nature, and Trends of Physician-Industry Financial Ties Among Foot and Ankle Surgery Key Opinion Leaders				
Submit Date	08/30/2023					
Correspondent	Last Name: Casciato Full Name: Dominick J ( Practice/Company/Residenc	Casciato DPM AACFAS y Program:	Email: Orlando VA I	dominickeasciato@gmail.com Aedical Center		
Authors	Author 1:Dominick J (Author 3:Author 5:Author 7:	Casciato DPM AACFAS	Author 2: Author 4: Author 6: Author 8:	Christopher F Hyer DPM MS FACFAS		
Purpose	e Foot and ankle surgery key opinion leaders (KOLs) maintain the authority and following to influence surgeons. Members of the American College of Foot and Ankle Surgeons (ACFAS) board of directors (BOD) and Annual Scientific Conference (ASC) share this responsibility as KOLs when planning educational content. The purpose of this investigation is to describe the relationship between these KOLs and industry.					
Methodology	A review of CMS Open Payments consulting fee data among ACFAS BOD and ASC committee members from 2015-2021 was performed. Citations from peer-reviewed publications were recorded for each member following a PubMed search. The threshold for statistical significance was set at $p \le 0.05$ .					
Procedures						
Results	Among the 44 KOLs assessed, the total CMS payment value paid was \$20,182,794.29. The greatest proportion of payment value prior and following KOLs serving on committees or boards belonged to consulting fees (31%) and royalty/licensing (45%), respectively. There existed a statistically significant change in the proportion of KOLs receiving at least one payment after serving in the royalty or license ( $p$ =0.002) and education ( $p$ <0.001) and acquisitions ( $p$ =0.01) groups. There existed a statistically significant difference between consulting fee value between both periods ( $p$ =0.008), with 64% of KOLs who received payments before and after committee appointment receiving a 50% increase in average consulting payment value compared to before serving on a BOD/committee.					
Discussions				To maintain an ethical governance, ses compensatory benefits where none existed		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Epidemiology/Population St	udy				
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Biomet

Submission ID	05-01145					Ref ID Sci-1145
Title		Cost of Hospitalization for Proximal Lower Extremity Amputation versus Charcot Arthropathy				
Submit Date	08/31/2023					
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Authors	Author 1: Author 3: Author 5: Author 7:	Hye R. Kim, DPM Lauren M. Christie, DI Yolanda R. Marshall, I		Author 2: Author 4: Author 6: Author 8:	Nicholas Perfet Avery M. Thon D. Scot Malay,	
Purpose	amputation th	he difference between tot irough the tibia, femur, or arthrodesis. The secondar	hip disarticulation) ve	ersus MLEA w	ith Charcot foot v	ersus patients admitted for
Methodology	underwent M	9 National Inpatient Samp LEA and those with Char arsal joints. Statistical and	cot arthropathy that ur	nderwent isolat	ted or combined fu	dentify patients that ision of the ankle, intertarsal,
Procedures						
Results	underwent ar were \$146,21 hospitalized 7	The MLEA cohort included 14,064 patients, the Charcot foot cohort included 9,758 patients, 299 (3.1%) of which underwent arthrodesis. Average total charges for the MLEA cohort were \$164,656.55, those for the Charcot foot cohort were \$146,212.88 ( $p = 0.13$ ), and those for Charcot arthrodesis were \$118,319.14 ( $p < 0.01$ ). The MLEA cohort was hospitalized 7.7 days longer than the overall Charcot cohort ( $p < 0.01$ ), and 4.2% of the MLEA cohort died during the hospitalization compared to 1.0% of the overall Charcot cohort ( $p < 0.01$ ).				
Discussions	associated wi dataset repres	Our findings indicate statistically significant cost differences between admission charges, length of stay, and mortality, associated with MLEA and Charcot foot and Charcot foot reconstruction. An advantage of this cohort study is that the dataset represents 97% of the US inpatient population, whereas limitations include those related to coding differences, and it is possible that some procedures were conducted prior to the admission.				
Format	Scientific					
Case Rpt Followup	)					
Student Club	Not a Student					
Classification	Diabetic Foot					
Level of Evidence	Level III					
Authors/Financial						
Full Name:	Email:		Disclosure(s) selected			Disclosed Organisation(s): Marlinz Pharma
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Submission ID	05-01153			Ref ID Sci-1153		
Title	Diabetes-related m	Diabetes-related major and minor amputation risk during the COVID-19 pandemic				
Submit Date	08/30/2023					
Correspondent	Last Name: Dadkhah					
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	Practice/Company/Resider	ncy Program:	White Memo	rial Medical Center		
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose		to analyze the relationship betwe		k of worse outcomes with the effects of e aim of this study is to assess the effects of the		
Methodology	hospital in East Los Angel	We conducted a 2-year retrospective cohort study of all diabetic patients admitted for a foot lesion at a 353-bed teaching hospital in East Los Angeles. Amputation during admission was the main outcome measure, with level of amputation as an additional outcome measure.				
Procedures						
Results	Amputation rates have fall 22.75% to 19.07%, rates o	en from 37.08% to 32.45% from 2	2019 to 2021. I I from 5.06% to	ring 2019 and 493 consults during 2021. Rates of minor amputations decreased from 9 4.87%, and rates of major amputations		
Discussions	problems resulting in more		ns. In our speci	ith a deleterious effect on diabetes-related foot fic population, amputation rates have decreased. ement of diabetic foot ulcers.		
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level II					
Authors/Financial D	isclosures					
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Submission ID	05-01162			Ref ID Sci-1162	
Title	Iatrogenic Medial Malleolar Fracture and Stress Fracture Considerations in Total Ankle Joint Replacement: A Multicenter Retrospective Study				
Submit Date	08/31/2023				
Correspondent	Last Name: Ekladios Full Name: Joshua M. Ek Practice/Company/Residency	ladios DPM MS Program:	Email: Florida Ortho	josh.eklad76@gmail.com opedic Foot & Ankle Center	
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Purpose	osteoarthritis. Acute and later complication that may arise d multicenter retrospective stud	at postoperative stress fractures luring joint resection, especially ly highlighting considerations f	of the medial in y during implar for iatrogenic m	tion for primary or post-traumatic tibiotalar nalleolus, however, pose a common potential tation of the tibial component. This is a tedial malleolar fractures during and after TAR th (MMW), and prophylactic tibial fixation.	
Methodology	measured as the distance betw standard AP ankle radiograph	159 patients undergoing primary TARs from 2016-2022 were selected from multiple institutions. MMW (mm) was measured as the distance between the tibial tray component placement and the medial malleolus' outer cortex using standard AP ankle radiographs intraoperatively and postoperatively. Demographics included BMI, age, and implant type. Prophylactic medial malleolar screw fixation was also recorded.			
Procedures					
Results	Average MMW of the 148 patients without fracture was 11.12 mm. Average MMW was 9.43 mm in the 11 patients who suffered intraoperative medial malleolus fracture (n = 7) or developed postoperative stress fracture (n = 4). This difference in MMW between the two groups was statistically significant ( $p < 0.05$ ). Prophylactic tibial screw fixation was also associated with a lower complication rate. 23% of all Cadence TAR systems developed either a latent stress fracture or more commonly, intraoperative acute fracture of the medial malleolus. Mean follow-up, age, and BMI were 20.9 months, 64.4 years, and 30.4, respectively.				
Discussions	Our data demonstrates that a shorter MMW may predispose TAR patients to higher probability of intraoperative or postoperative stress fracture of medial malleoli, which can effectively be combated and prevented with prophylactic tibial screw fixation.				
Format	Scientific				
Case Rpt Followup	21				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstru-	uction			
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
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Submission ID	05-01165			Ref ID Sci-1165		
Title	Predictor	Predictors of Amputation in Native Americans Presenting with Critical Limb Ischemia				
Submit Date	08/30/2023					
Correspondent	Last Name: Full Name: Practice/Com	Tarricone Arthur apany/Residency Program:	Email: University o	tarria01@outlook.com f Texas Southwesters		
Authors	Author 1: Author 3: Author 5: Author 7:	Arthur Tarricone DPM MPH Allen Gee Lawrence A. Lavery DPM MPH	Author 2: Author 4: Author 6: Author 8:	Karla De La Mata Mehmet Suludere MD		
Purpose	Determine pr	edictors of amputation and mortality for Nativ	e Americans pr	esenting with critical limb threatening ischemia		
Methodology	between Janu Native Amer at pre-defined	Consecutive patients with critical limb threatening ischemia who received endovascular intervention at a single center between January 2021 and December 31 2022 were included. Patients were included in the study if they self-identified as Native American and presented with ischemic gangrene. Patients were followed for 1 year following ischemic presentation at pre-defined increments of 1, 3, 6 months and 1 year. Amputations were divided into minor (below ankle) and major (above ankle). Death as determined through social security index or through chart review.				
Procedures						
Results	minor amput ,mortality sta revealed sign [CI:1.15,4.39 . p=0.006) . U disease ( OR: [CI:1.11,4.35 6.23, p=0.04]	287 patients presented with ischemic gangrene. The amputation rate 15.6% (45/287) with 32 Major amputation (n=32) and minor amputation (n=13). The mortality rate 17% (49/287). The participants were separated based on amputation ,mortality status , and binary wound closure . Baseline characteristics were similar between groups . Univariate analysis revealed significant differences in the following variables for amputations : coronary artery disease (OR:2.25 [CI:1.15,4.39], p=0.01), Zero Arteries to the foot (OR=4.04 [CI:1.70,9.60], p=-01), and Wagner 5 (OR:3.04 [CI:1.58,5.84]				
Discussions		amputations native and include CAD, Run of re lung disease and heart failure	f arteries, and V	Vagner classification 5. Risk factors for mortality		
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Studen	t Club Poster				
Classification	Epidemiolog	y/Population Study				
Level of Evidence	Level III					
Authors/Financial D	oisclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		

Submission ID	05-01169				Ref ID Sci-1169	
Title	Augment	Anterior Talofibular and Calcaneofibular Ligament Reconstruction with Augmentation: A Novel Technique and Retrospective Case Series in the Active-Duty Military Population				
Submit Date	08/30/2023					
Correspondent	Last Name:	Parkman				
	Full Name:	Liliya M Pa	rkman, DPM	Email:	liliya.parkman@medstar.net	
	Practice/Con	npany/Residend	cy Program:	MedStar		
Authors	Author 1:	Collin Mizu	io, DPM, FACFAS	Author 2:	Liliya M Parkman, DPM	
	Author 3:	Haoning Hu	ı, DPM	Author 4:		
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	emphasizes a preserving jo with intraope	The primary aim is to present a new surgical technique for repairing the ATFL and CFL with augmentation in a manner that emphasizes anatomical fidelity. This technique aims to restore ligament stability by repairing the ATFL and CFL, while preserving joint biomechanics and minimizing over-constraining risk. A secondary aim is to compare preoperative talar tilt with intraoperative talar tilt after ATFL repair and augmentation. We hypothesized that under anesthesia when inherent guarding during stress exam is removed, laxity to the lateral ankle secondary to CFL compromise may persist.				
Methodology	Patients had a talar tilt was	Chart review of 36 patients who underwent lateral ankle ligament reconstruction (LALR) were retrospectively analyzed. Patients had a preoperative MRI to assess ligament damage and other ancillary injuries. Preoperative and intraoperative talar tilt was documented. The LALR and ancillary procedures were performed by a single surgeon, between November 2020 and October 2022, at a single center. The patients followed the same post-operative protocol.				
Procedures						
Results	28 patients with significant improvement (p<0.001) self-reported outcomes including pain, functionality, alignment, activities of daily living and sports subscale. 71% of patients had returned to active duty and 21% had separated for reasons unrelated to their injury. Nearly half of patients demonstrated increased talar tilt preoperatively. Intraoperative varus tilt was present in 76% of patients.					
Discussions	Lateral ankle reconstruction with the described technique is a promising procedure in the active-duty military. This novel technique will offer a measurable and reproducible method to address ankle instability in the general and athletic population.					
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Recons	truction			
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01172				Ref ID Sci-1172	
Title	Intramedullary Use of Antibiotic Coated Threaded Rods in Cases of Lower Extremity Osteomyelitis					
Submit Date	08/30/2023					
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Purpose	The treatment of osteomyelit successfully used in the treat of antibiotic coated intramed	tis in the lower extremity contin ment of osteomyelitis through t ullary threaded rods to treat low ting bone and wound healing.	ues to challeng he concept of i	nduced membrai	ne. Our study showcases the use	
Methodology		Seven consecutive patients who had tibiotalar calcaneal fusions with retrograde placement of an antibiotic coated threaded rod were identified. All patients were placed in vertical weight-bearing external fixators.				
Procedures						
Results	(56 to 147) and nail swap wa	Average age of patients 50.4 years old (31-64 years old). 2/7 were female. Average time in external fixator was 95.57 days (56 to 147) and nail swap was attempted around 97.57 days status-post application of the antibiotic coated threaded rod. Average follow up was 595.14 days. All limbs were without wounds and present at final follow-up.				
Discussions	The use of an intramedullary antibiotic coated threaded rod as a means of offering stabilization while treating an infection has shown promise in promoting the formation of an induced membrane, allowing for fusion, and eradicating the infection. In cases of infected ankle joint nonunions, the induced membrane can improve vascularity, stimulate bone regeneration and adjacent tissue healing. Our long term functional and clinical outcomes, along with our rate of limb salvage support the use of antibiotic coated rods as a reliable limb salvage technique.					
Format	Scientific	Scientific				
Case Rpt Followup	19	19				
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dise	ases				
Level of Evidence	Level III					
Authors/Financial Di	isclosures					
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Submission ID	05-01180			Ref ID Sci-1180			
Title	Comparative Study of Intraoperative Findings versus Radiographic Findings of Metatarsophalangeal Joint Arthritis						
Submit Date	08/30/2023						
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Authors	•	ari, DPM, PGY-2 DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Kaina A. Louis-Charles, DPM, PGY-2			
Purpose	metatarsophalangeal joint. Clin intraoperative findings relative classification system. When de examination findings is crucial	There is a paucity of studies correlating radiographic findings with visualized intraoperative joint damage in the first metatarsophalangeal joint. Clinical presentation and physical exam may differ from radiographic findings. A comparison of intraoperative findings relative to the Coughlin-Shurnas classification was performed to determine relevance of the classification system. When deciding between joint-salvage and joint-destructive procedures, relying on physical examination findings is crucial. Inconsistencies between radiographic findings and intraoperative presentation highlight the need for a fresh approach to address hallux rigidus.					
Methodology	surgeon. Standard radiographic patient. Hallux rigidus severity	Fourteen patients who underwent first metatarsophalangeal joint fusion were selected. All surgeries were performed by one surgeon. Standard radiographic imaging and intraoperative photographs of the metatarsal heads were collected for each patient. Hallux rigidus severity was assessed per radiograph according to the Coughlin-Shumas classification. The extent of articular degeneration was calculated by comparing chondral injury area to the metatarsal head's total area.					
Procedures							
Results	Articular degeneration ranged from 1.2% to 100% amongst the patients. Seven were classified as stage two, five as stage one, and two as stage three and four. Stage one had a degeneration range of 1.4% to 85.2%, stage two ranged from 1.2% to 100%, and stages three and four ranged from 8.13% to 75.5%.						
Discussions	The current study suggests that radiographs may not reliably determine the extent of clinical arthrosis in the first metatarsophalangeal joint, necessitating the need for a novel classification system which places less of an emphasis on radiographic findings and instead favors thorough clinical examination and advanced diagnostic imaging.						
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Student Club Poster						
Classification	Forefoot Reconstruction						
Level of Evidence	Level III						
Authors/Financial l	Disclosures						
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Submission ID	05-01195			Ref ID Sci-1195		
Title	Inter-Metatar Surgery	sal Angle Correction v	vith Minimally I	nvasive Bunion Correction		
Submit Date	08/31/2023					
Correspondent	Last Name: Alla	and				
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		thew Gorski, DPM	Author 4:	Kristine Hoffman, DPM		
		rgan Jerabek, DPM	Author 6:			
	Author 7:		Author 8:			
Purpose		study is to investigate the initia rection among 24 surgical patie		ion of the inter-metatarsal angle after minimally		
Methodology	were done by a sing December 2022. Al	Our study looks at a total of 24 patients who all underwent minimally invasive bunionectomy procedures. All procedures were done by a single provider at one hospital system. The cases were all done between the dates of November 2021 and December 2022. All patients have a minimum of 2 to 3 month follow up. The inter-metatarsal angle of each patient was measured on radiographs pre-operatively, immediately post-operatively, and again at most recent follow up.				
Procedures						
Results		We found that the inter-metatarsal angle was significantly reduced with the use of minimally invasive bunionectomy procedure as seen on the the immediate post operative films as well as on the final follow up imaging for each patient.				
Discussions	We conclude that the minimally invasive bunion surgical procedure consistently shows significant and maintained inter- metatarsal angle correction. Because maintained inter-metatarsal angle correction is one of the pillars of bunion correction, we conclude that minimally invasive bunion correction procedures are a viable and appropriate option for inter-metatarsal angle reduction.					
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club	Poster				
Classification	Forefoot Reconstru	ction				
Level of Evidence	Level IV					
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Submission ID	05-01196			Ref ID Sci-1196		
Title		nee Amputation: Does Length Pr		lidfoot Amputation Relative to the Always Equate to Function		
Submit Date	08/30/2023					
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	Practice/Com	npany/Residency Program:	The Univers Antonio	ity of Texas Health Science Center at San		
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	Author 5:	Christopher, E, Attinger, MD	Author 6:	Karen, K, Evans, MD		
	Author 7:	John, S, Steinberg, DPM FACFAS	Author 8:	Jayson, N, Atves DPM FACFAS		
Purpose Methodology	residual foot, proposed as a midfoot amp We performe transtibial) w defined as co validated pati	Despite allowing for a significant amount of length preservation which, in principle, allows for increased use of the residual foot, the Chopart and Lisfranc amputations are controversial and, as a result, the below-knee-amputation has been proposed as a more predictable level of amputation. We seek to evaluate the functional benefits of length preservation in midfoot amputation, despite the perceived controversies that are associated with their use. We performed a comparative retrospective analysis of 79 unilateral ambulatory amputees (5 Lisfranc, 10 Chopart, 64 transtibial) who were evaluated at Georgetown University Hospital between June 2021 to June 2023. Outcomes were defined as complications (major and minor), rates of limb salvage, assessment of residual function and quality of life using validated patient reported outcome measures. Appropriate statistical analysis were used and significance was determined apriori as $p \le 0.05$ .				
Procedures						
Results	The average age of our cohort was $60.6 \pm 13.2$ years with an average Charlson Comorbidity Index of $5.0 \pm 2.8$ . At a mean follow-up duration of 844.9 days (range, 27-4967), a higher incidence of minor complications within Chopart amputations was noted (p=0.02), but not major complications (p=0.07). Patient reported outcomes pertaining to functionality and quality of life demonstrated Chopart and Lisfranc amputations are equivalent and, in some instances, superior to proximal amputation (p>0.05).					
Discussions	functionality	analysis and contrary to dogmatic beliefs, Ch and are equivalent with respect to access to re nd should be attempted when reasonable, espe	asonable qualit	y of life, suggesting that length preservation is		
Format	Scientific					
Case Rpt Followup	70					
Student Club	Not a Studen	t Club Poster				
Classification	Diabetic Foo	t				
Level of Evidence	Level III					
	_					

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Submission ID	05-01201 Ref ID Sci-120				
Title	Radiographic Outcomes Regarding Hardware Failure in Midfoot Charcot Neuroarthropathy Reconstruction				
Submit Date	08/30/2023				
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	Author 7:		Author 8:		
Purpose				ated with high failure rates. The aim of this study owing surgical corrections of midfoot Charcot.	
Methodology	22 reconstructions with isolated midfoot Charcot neuroarthropathy in a single staged approach were retrospectively identified. Inclusion criteria consisted of isolated fixation of the deformity, minimum follow-up time of 1 year with routine post operative evaluations. Radiographs were reviewed preoperatively and at 3,6,9, and 12 months. Lateral talar-1st metatarsal angle, cuboid drop height and hardware failure, with comparison between fixation types (intramedullary fixation, internal fixation, combination) were assessed. Hardware failure was defined as having breakage, loosening, and/or removal. Age, sex, body mass index, laterality, comorbidities, post-operative complications, hardware type, and time to failure were collected.				
Procedures					
Results	20/22 reconstructions resulted in hardware failure, with average post-operative failure occurring at 10.9 months. When evaluating lateral talar-1st metatarsal angle and cuboid drop height, both showed statistically significant improvement between pre-operative and 3-month post-operative values ( $p = 0.02, 0.006$ ). There was no statistical significance between fixation types or pre-operative and 12-month post-operative values ( $p = 0.53, 0.35$ ). The average time to weight bear was 3.5 months with failure occurring ~7.5 months later ( $p=0.026$ ).				
Discussions	Radiographic outcomes demonstrate 90% of isolated midfoot Charcot neuroarthropathy reconstructions fail within 11 months regardless of internal midfoot fixation. Most hardware failure complications were preceded by weightbearing. Further research is warranted to determine if alternative surgical procedures including staging, external fixation, or hindfoot arthrodesis can help mitigate the morbidity associated with isolated midfoot Charcot surgery.				
Format	Scientific				
Case Rpt Followup	12				
Student Club	Not a Student Club Pos	ster			
Classification	Rearfoot and Ankle Re	construction			
Level of Evidence	Level III				
	a la guna				
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Submission ID	05-01204			Ref ID Sci-1204	
Title	Utility or Futility of Calcaneus Retention in the Treatment of Heel Ulcerations in Nonambulatory Patients: A Retrospective Analysis of Total and Partial Calcanectomies in Palliative Limb Salvage				
Submit Date	08/30/2023				
Correspondent	Last Name:	Verdin			
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Purpose Methodology	due to the per removal of the it reduces boo heel soft tissu	rsistent pressure, poor soft tissue envelope, an te calcaneus is a worthwhile intervention as of ny pressure, allows for increased rates of prin ue-bone interface.	nd underwhelmir pposed to retain nary closure due	an continue to be a continuous point of failure g vascularity. With this in mind, we posit total ing the problematic bone, especially considering to the availability of more tissue, and increases ersity Hospital were retrospectively identified.	
Wethouology	Demographic, preoperative, intraoperative, and post operative data were collected. Primary outcomes were defined as complications, rates of limb salvage and proximal amputation, and mortality. Data was analyzed and significance was set aprior as $p < 0.05$ .				
Procedures					
Results	63 patients (33 males, 30 females) were identified. 76% (48/63) and 23.8% (15/63) has a partial and total calcanectomy, respectively. Average age was $63.7 \pm 14$ . There were no differences (p>0.05) in terms of preoperative vascular, hematologic, and microbiological characteristics. Operatively, there was no difference in number of debridement or frequency or type of closure (p>0.05). Postoperatively, outcomes and complication profiles were not noted to be significantly different (p>0.05).				
Discussions	While there does not appear to be a significant difference in retaining the problematic calcaneus in nonambulatory patients, we conclude that total resection of the calcaneus should be considered a safe alternative to a partial calcanectomy, especially considering that is may result in increased soft tissue availability and increased rate of primary closure, which has been documented to be significantly associated with positive outcomes.				
Format	Scientific				
Case Rpt Followup	15				
Student Club	Not a Studen	t Club Poster			
Classification	Diabetic Foo	t			
Level of Evidence	Level III				
Level of Evidence	20.0111				

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Submission ID	05-01213 Ref ID Sci-12					
Title	Outcomes of Transi for Closure	Outcomes of Transmetatarsal Amputation with a Modified Technique Utilizing Muscle for Closure				
Submit Date	08/31/2023					
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Purpose		to compare results of transmeta novel closure method involving				
Methodology	Retrospective comparative study. Inclusion criteria: subjects who underwent TMA by a single surgeon from September 2019 to June 2021. Exclusion criteria: subjects who were lost to follow-up and subjects who had a TMA for emergent source control with plan for BKA during the same hospitalization. Group 1 consisted of patients who received vascular intervention whereas Group 2 did not. Following TMA with dissection method preserving plantar soft tissue between the metatarsal bones (Terashi et al, 2011), the foot was closed in a layered fashion using plantar intrinsic muscles to cover the metatarsal stumps.					
Procedures						
Results	49 feet were identified and eleven were excluded. Group 1 included 20 feet and Group 2 included 18 feet. 50% of subjects in Group 1 healed compared to 72% in Group 2. 35% of Group 1 remained healed at 1 year compared to 66% in Group 2. 35% of Group 1 went on to receive a major amputation in the form of below or above-the-knee amputation compared to 6% in Group 2.					
Discussions	The results of this study show a higher percentage of healing for transmetatarsal amputations using this novel method in patients without peripheral vascular disease than previously reported in literature. This study shows promising results for this method for TMA, specifically in patients without PVD.					
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot	Diabetic Foot				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-01219 Ref ID Sci-12					
Title		The Chopart Amputation with Double Tendon Transfer as a Functional Amputation for High-Risk Limb Salvage				
Submit Date	08/30/2023					
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Purpose	tendon (AT) and the extens		. We hypothesiz	putation with a transfer of both the anterior tibial ze, that the Chopart amputation, with appropriate on and significant tissue loss.		
Methodology	A retrospective chart review was conducted for seventeen Chopart amputation patients from November 2019 to December 2021 at a single center, performed by a single surgeon. Binary logistic regression analysis was conducted to assess the preoperative characteristics associated with minor complications, major complications, and progression to above-the-knee or below-the-knee amputation. In addition, the post-operative functional status was compared to preoperative levels in the amputees.					
Procedures						
Results	In this cohort, 9/17 patients (52.94%) experienced minor wound dehiscence, while 7/19 patients (41.18%) required repeat operating room debridement or hospital admission. Only 3/17 Chopart amputees progressed to a BKA/AKA (82% limb salvage rate). All patients with successful Chopart amputations maintained their preoperative ambulatory status. Post-operatively, for every unit increase in HbA1c, the odds of a minor complication increased by 78.8%. A history of peripheral arterial disease/ critical limb ischemia and revascularization showed a statistically significant association of progression to BKA/AKA (P=0.015, P=0.042, respectively).					
Discussions		ggests that a Chopart amputation with a history of PAD/CLTI app		ate tendon balancing, is a durable and functional gher risk for limb loss.		
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
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Submission ID	05-01220	05-01220			Ref ID Sci-1220	
Title	•	Analysis of Vitamin D Levels in the Veteran Population who Underwent Podiatric Surgical Intervention				
Submit Date	08/31/2023					
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	Author 7:			Author 8:		
Purpose	We present a surgical inter		dy comparing Vitamin D level	s in the Vetera	n population prior to osseous and ligamentous	
Methodology	intervention. levels. Data v	A retrospective analysis of Vitamin D levels obtained from 71 Veteran's prior to osseous and ligamentous surgical intervention. Standards set by the American Association of Clinical Endocrinologists were used to determine appropriate levels. Data was collected from 2020-2022. For Vitamin D value under 30, a short course of Vitamin D supplementation was prescribed.				
Procedures						
Results	checked prior were prescrib	In the Veteran population of 71 patients who had osseous and ligamentous procedures, 48 Veterans had their Vitamin D checked prior to surgery and 31% of those individuals were found to have suboptimal Vitamin D levels. These patients were prescribed a short course of Vitamin D supplementation to take in the interim prior to surgery. After optimization, there were no major complications noted post operatively.				
Discussions	present that le fewer compli	It is appreciated that Vitamin D plays an important role in all phases of fracture healing. In this retrospective study we present that low pre-operative Vitamin D levels that are treated with proper Vitamin D supplements are correlated with fewer complications. Proper vitamin D Supplementation depending on patient's pre-operative vitamin D levels can promote stronger callus formation, superior biomechanical properties of bone and decreased rates of delayed/ non-union.				
Format	Scientific					
Case Rpt Followup	25					
Student Club	Not a Studen	t Club Poster				
Classification	Epidemiolog	y/Population Stu	dy			
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-01222				Ref ID Sci-1222
Title		tive Pain Ma Ankle Surger	U U	ally Inject	ed Dexamethasone Phosphate in
Submit Date	08/30/2023				
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	Practice/Comp	any/Residency Pr	rogram:	Silicon Valle Fellowship	y Rearfoot and Ankle Reconstruction
Authors	Author 1: Author 3: Author 5: Author 7:	Chandler Ligas,	se DPM AACFAS DPM AACFAS ss, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Tung V Dao, DPM AACFAS Samantha Wiliams, DPM AACFAS
Purpose	consumption,	and complication		ed pre-surgical	ective visual analog scale (VAS) scores, opioid site injections with local anesthetic and 4 mg of
Methodology		type of medication			After surgery, patients were asked to record their eet during the immediate (0-72 hour) post-
Procedures					
Results	Eight hundred twenty-one patients were enrolled in the study, of which 40 patients met inclusion criteria. At 0-24 hours post-operatively, VAS scores averaged 2.75; 24-48 hours VAS scores averaged 2.25; and at 48-72 hours VAS scores averaged 1.65. One hundred twenty-one total oxycodone pills were reported to be taken throughout the first 72-hours post operatively; this averaged 1 of 3 oxycodone pills consumed per patient. Rearfoot and ankle procedures accounted for 29% (35) versus forefoot and midfoot procedures accounted for 71% (86) of total oxycodone pills taken. There were 3 minor complications observed in the post-operative course.				
Discussions	pain scores and	Our study demonstrates that Dexamethasone sodium phosphate as an adjunct in local anesthetic is efficacious in lowering pain scores and opioid consumption in the immediate post-operative period without increasing complication rates in foot and ankle surgery.			
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student	Club Poster			
Classification	Rearfoot and A	Ankle Reconstruct	tion		
Level of Evidence	Level III				
Authors/Financial D	isclosures				
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Submission ID	05-01226	05-01226				
Title		Statistical comparison between the numbers of diabetic-related minor and major amputations, before and after the State lock-down due to the COVID-19 Pandemic: A regional study				
Submit Date	08/30/2023					
Correspondent	Last Name: Vaishnav					
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	Practice/Company/Residen	cy Program:	Tucson Med	ical Center		
Authors	Author 1: Lily Nguye	n, DPM	Author 2:	Kairavi V Vaishnav, DPM		
	Author 3: Erika TC H	uston, DPM FACFAS	Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	amputations monthly at a n	onprofit regional hospital, before	e and after the s	ee) and minor (toe and transmetatarsal) tate lock-down due to the COVID-19 pandemic. utations after the lockdown given the delayed		
Methodology	after the mayor announced 3/31/2022. Data was collect	We compared the number of diabetic patients who had minor and major amputations at Tucson Medical Center, before and after the mayor announced a local emergency (3/17/2020). The time period included in the study was was 4/1/2018 to 3/31/2022. Data was collected and processed through the EMR Epic Slicer Dicer program. The pre and post lockdown numbers were analyzed using a paired T-test, correlation, and regression coefficient.				
Procedures						
Results	which demonstrated that th the lockdown, but this was	We found that the overall number of minor amputations did increase after the lockdown. However, the p-value was 0.41 which demonstrated that this increase was not statistically significant. The number of major amputations decreased after the lockdown, but this was also not statistically significant with a p-value of 0.15. The correlation and regression also showed that the trend of the number of major and minor amputations remained steady from 2018 to 2022.				
Discussions	showed no significant diffe	Although there was an interruption to the medical care of patients with diabetes during the COVID-19 pandemic, our study showed no significant difference in the number of amputations before and after the lockdown in the setting of a local hospital. It may be beneficial to incorporate multiple hospitals in future studies in order to obtain more diverse and robust samples.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level II					
Authors/Financial D	visclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01238			Ref ID Sci-1238	
Title	Defining the Clinically Significant Low Lying Peroneus Brevis Muscle Belly				
Submit Date	08/31/2023				
Correspondent	Last Name: Ahmed Full Name: Ali, S, Ahm Practice/Company/Residence	<i>,</i>	Email: Kentucky Ind	dkaliahmed@gmail.com liana Foot and Ankle Specialists	
Authors	Author 1:Hans, HumrAuthor 3:Amanda, DeAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Paul, Klutts, DPM	
Purpose	The low-lying peroneus brevis muscle belly (LLPBMB) is an anatomical variation in which the myotendinous junction of the peroneus brevis descends lower than its typical position along the lateral aspect of the fibula, sometimes extending the level of the ankle joint. Many studies have been published on the potential of LLPBMB leading to further lateral ankle pathology, however none have shown an exact measured cut off point for surgical resection in the symptomatic patient. The authors aim to propose a cut-off point for resection of the muscle belly based on a review of existing literature.				
Methodology	Existing literature consisted of clinical and anatomic studies examining normal and pathologic peroneal tendons, with a total of 20 studies reviewed. Studies discuss various peroneal tendon pathology and their relationship to the LLPBMB.				
Procedures					
Results	Upon review of the literature, it was determined that there has been no documented anatomic cut-off point for the LLPBMB. From the literature, the authors propose that a peroneus brevis muscle belly should be considered for surgical resection if the myotendinous junction is within 3 cm of the distal tip of the lateral malleolus if symptomatic and in the presence of other lateral ankle pathology.				
Discussions	Various authors have suggested that there is little to no correlation between the presence of the LLPBMB because many are asymptomatic and undiagnosed. However, other studies have shown that it can exacerbate other lateral ankle pathology, furthering the over-crowding phenomenon that occurs within the superior peroneal retinaculum, which may lead to peroneal subluxation and tearing				
Format	Scientific				
<b>Case Rpt Followup</b>	0				
Student Club	Not a Student Club Poster				
Classification	Biomechanics and Anatomy	7			
Level of Evidence	Level III				
Authors/Financial Di	sclosures				
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Submission ID	05-01243 Ref ID Sci-124.					
Title	Hindfoot Position Co	orrection Effect on Exi	t Velocity in Collegiat	e Baseball Players		
Submit Date	08/31/2023					
Correspondent	Last Name: Ahmed Full Name: Ali, S, Ahme Practice/Company/Residency	,	Email: dkaliahmed@ Kentucky Indiana Foot and A	•		
Authors	Author 1:Hans, HumriAuthor 3:Amanda DenAuthor 5:Heather KeepAuthor 7:Heather Keep	zik, DPM	Author 2:Paul, Klutts,Author 4:Chad MillerAuthor 6:Author 8:	DPM		
Purpose	specifics of the role of the su	The biomechanics of baseball have been well documented including the role of the posterior kinetic chain. However the specifics of the role of the subtalar joint, further, the use of corrective hindfoot devices have not been examined. The authors hypothesize that the use of corrective shoe gear which promotes a neutral hindfoot will have an effect on exit velocity.				
Methodology	A baseline hindfoot position of 38 collegiate level baseball players was evaluated on the field using a pressure mat system (RAPID-Sports, Cleveland, OH, USA) along with the corresponding exit velocity (YakkerTech, Phoenix, AZ, USA) of an average of three swings with no corrective shoe gear. The players then took another three swings with the hindfoot position in a corrected position using the corrective shoe gear (SQUAIRZ, Windham, NH, USA), and the corrected exit velocity was also measured. A t-test was conducted with the obtained data to determine the statistical significance between the data sets.					
Procedures						
Results		layers were examined. 60.5% o locity with corrective shoe gear		statistically significant		
Discussions	The nature of the posterior chain has been examined, however under the confine of baseball, the literature is sparse. This study has shown there is a correlation between a neutral hindfoot with batting exit velocity, which has implications about the role of the subtalar joint in the various phases of the baseball swing. From this data, the position of the hindfoot joint should be considered when training athletes for improved performance.					
Format	Scientific					
Case Rpt Followup	0					
Student Club	Not a Student Club Poster					
Classification	Biomechanics and Anatomy					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-01249 Ref ID Sci-124					
Title	-	Incidence of patients that receive intercuneiform screw fixation while undergoing first metatarsal-cuneiform arthrodesis				
Submit Date	08/31/2023					
Correspondent	Last Name: Somma Full Name: Jessica, M, So Practice/Company/Residency	,	Email: Phoenixville	jsomma07@gmail.com Hospital Residency		
Authors	Author 1: Jason, Miller,	, DPM, FACFAS ner, DPM, PGY3	Author 2: Author 4: Author 6: Author 8:	John Marshall, DPM, Fellow Jessica Somma, DPM, PGY2		
Purpose	undergo a first metatarsal-cur study is to compare if there is	The purpose of this study is to compare the incidence of intercuneiform instability and the percentage of patients that undergo a first metatarsal-cuneiform arthrodesis which also require intercuneiform fixation. A secondary purpose of our study is to compare if there is any loss of correction without intercuneiform fixation vs with. To our knowledge, there is no other study comparing these results.				
Methodology	exclusion criteria, 287 under	Retrospective clinical analysis from 8/2018-2/2023 with the CPT codes 28730, 28740, 28297 resulted in 343 patients. After exclusion criteria, 287 underwent a first TMTJ arthrodesis utilizing multiple systems from 8/2018-2/2023. Pre-operative and post-operative radiographs were compared.				
Procedures						
Results				s required intercuneiform fixation. Secondarily, with or without intercuneiform fixation.		
Discussions	Patients who undergo a first TMTJ arthrodesis most often have a component of hypermobility. We aimed to answer the question of how many patients remain unstable in the tarsal joints without intercuneiform fixation. Our retrospective study shows only 20% of patients are stable with first TMTJ fixation alone. Interestingly, bilateral cases did not always require the same intercunieform fixation bilaterally. Our findings suggest that the standard technique of first TMTJ fixation alone may not be a stable enough construct for many hypermobile patients. There may be a decreased incidence of intercuneiform fixation in patients that would benefit from fixation.					
Format	Scientific					
<b>Case Rpt Followup</b>	60					
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01250			Ref ID Sci-1250		
Title		Comparison of clinical outcomes in acute ankle fracture open reduction internal fixation with and without ankle arthroscopy: Preliminary Case Series				
Submit Date	08/31/2023					
Correspondent	Last Name: Abergel Full Name: Paz Aberge Practice/Company/Resider	el, DPM, AACFAS, MPH ney Program:	Email: Orthopaedic	pabergel93@gmail.com Institute Brielle Orthopaedics		
Authors	•	el, DPM, AACFAS, MPH lawell, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Sara Yancovitz DPM, AACFAS		
Purpose	articular pathology. Our st fixation (ORIF) with and v	Ankle arthroscopy in management of acute ankle fractures is not routine, though it is a useful tool for addressing intra- articular pathology. Our study aims to assess the clinical outcomes of patients who underwent ankle open reduction internal fixation (ORIF) with and without adjunctive ankle arthroscopy. To our knowledge, there are no studies directly comparing patients outcomes of these two groups.				
Methodology	without arthroscopy. Varia	A retrospective review of 50 patients who underwent ankle fracture ORIF, 25 of which also had arthroscopy, and 25 without arthroscopy. Variables evaluated include tourniquet time, post-operative pain management, time to initiate physical therapy (PT), time to transition to normal shoegear, and complications.				
Procedures						
Results	group (52.44 v. 57.52 days	When comparing the two groups, the arthroscopy group initiated PT on average 5 days earlier than the non-arthroscopy group ( $52.44 \text{ v}$ . $57.52 \text{ days}$ , $p = 0.249$ ), had an average lower morphine miligram equivalent (MME) per day ( $55.20 \text{ v}$ . $58.16$ , $p = 0.737$ ), and transitioned into normal shoe gear on average 11 days earlier than the non-arthroscopy group ( $55.20 \text{ v}$ . $56 \text{ days}$ , $p = 0.737$ ).				
Discussions	shoe gear as well as less us not have the adjunctive pro-	The preliminary results of this study demonstrates shorter time to initiate physical therapy and transitioning into normal shoe gear as well as less use of post-operative opioids in the ORIF with arthroscopy group in comparison to those who did not have the adjunctive procedure. While this study demonstrates statistical significance in only one of the our variables, time to transition into normal shoe gear, this can be attributed to the small sample size and further research is needed to validate significance.				
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Arthroscopy					
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01259			Ref ID Sci-1259		
Title	Chronic Post Traur diagnosis	Chronic Post Traumatic Compartment Syndrome in the Lower Extremity: a novel diagnosis				
Submit Date	08/31/2023					
Correspondent	Last Name: Acciani Full Name: Alyse L Acc Practice/Company/Residen	ciani, DPM, MPH cy Program:	Email: Hennepin He	alyse.acciani@gmail.com ealthcare		
Authors	Author 1: Alyse L Ace Author 3: Author 5: Author 7:	ciani, DPM MPH	Author 2: Author 4: Author 6: Author 8:	Lance M Silverman, MD		
Purpose		• 11		ent of chronic pain in patients with a history of ent pressures not exacerbated by exertion.		
Methodology	trauma, subsequent chronic with mal-reductions, and ne	A retrospective review via ICD-10 codes was completed. Patients were included if they had a history of lower extremity trauma, subsequent chronic lower extremity pain, and that had a compartment and fascial release by one surgeon. Patients with mal-reductions, and neuromas were excluded. A post surgical survey was performed no earlier than 12 months after surgery. Minimal and open compartment and fascial release in lower extremities were performed.				
Procedures						
Results	relief with daily activity; 16	Pre-fasciotomy pressures measured at rest varied from 15-47 mmHg. Of the 20 patients, 17 reported 100% symptomatic relief with daily activity; 16 reported 100% relief with activity, including high intensity exercise. Good to excellent results were reported in a patient survey conducted, and 100% of the patients report willingness to have the surgery again given their relief in symptoms.				
Discussions	besides being labeled as chi theme among this population initial results exhibit promise	Patients in this review presented with intractable pain that seems to be recalcitrant to standard medical interventions, and besides being labeled as chronic pain, did not fall into a clear category of exertional compartment syndrome. The common theme among this population was the history of lower extremity trauma with chronic pain at rest and with activity. The initial results exhibit promising improvement in chronic pain, and the quality of symptom relief did not seem to degrade over time in the postoperative period and on the final outcome survey.				
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial Di	isclosures					
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Submission ID	05-01262 Ref ID Sci-1262					
Title	Prevention of majo	Prevention of major amputations at hospitals with a podiatric hospitalist on staff				
Submit Date	08/31/2023					
Correspondent	Last Name: Acciani					
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	Practice/Company/Residen	cy Program:	Hennepin H	ealthcare		
Authors	Author 1: Alyse L Ace	ciani, DPM, MPH	Author 2:	Maren Elze, DPM, FACFAS		
	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose		ooked to quantify the reduction i a podiatric hospitalist (PH) on s	• •	ations (above or below knee amputation) at a		
Methodology	There were 191 patients treated by a PH during January 1 and December 31 in 2019, for a total of 270 surgeries. These patient charts were reviewed in the 3.5 years following and assessed for major amputation and/or death. Diabetes, renal disease, peripheral vascular disease, gangrene, and tobacco use were evaluated. Above and below knee amputation rates were evaluated in the year prior (2018) to a full time PH and the years following (2019-2020). Limb salvage procedures versus major amputations were reviewed.					
Procedures						
Results		ge procedures performed by one 57 major amputations in 2018,		12 month period on 191 patients. Prior to a full in 2019, and 50 in 2020.		
Discussions	particular with a multidiscip continuously demonstrated amputations that result in lo presented here demonstrate	Though the PH is a relatively new concept, limb salvage programs are becoming more commonplace throughout the US, in particular with a multidisciplinary team approach. The benefits of a multidisciplinary approach to limb salvage, are continuously demonstrated through peer reviewed research and outcomes data. Despite this, there continues to be major amputations that result in loss of function and independence, and subsequently increased morbidity and mortality. The data presented here demonstrates a 17% reduction in major amputations once a full time PH was on staff and their approach to limb salvage was implemented, providing quantitative support for this role in major hospital systems.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
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Submission ID	05-01266				Ref ID Sci-1266	
Title	Titanium I	Rates of Nonunion Following Tibiotalocalcaneal Arthrodesis using 3D-Printed Titanium Implants with Intramedullary Nail Fixation and Proposed Novel Grading System for Fusions				
Submit Date	08/31/2023					
Correspondent		Kalil Nathan J Ka my/Residenc	,	Email: The Reconst	nathankalildpm@gmail.com uction Institute at The Bellevue Hospital	
Authors		•	DPM, AACFAS ander, DPM, MS, FACFAS	Author 2: Author 4: Author 6: Author 8:	Nathan Kalil, DPM	
Purpose	tibiotalocalcane advancements i allograft. The p	Reconstruction of severe talus pathology often requires either talectomy and tibiocalcaneal (TC) arthrodesis or tibiotalocalcaneal (TTC) arthrodesis through the diseased talus. When excision or replacement of the talus is required, advancements in 3D-printed implants allows this to be completed with potentially better success compared to bulk allograft. The purpose of this study is to more clearly define and propose a fusion criterion based grading system and apply it to a series of 3D-printed titanium cages.				
Methodology	implant and IM and time to wei	Data was collected from 10 patients with severe talar pathology who underwent TTC fusion with a custom 3D-printed implant and IM nail fixation. Implant type, fixation, adjunctive procedures, comorbidities, complications, time to healing, and time to weightbearing were recorded. We then proposed a grading system based on spinal fusion literature which was used to predict long-term outcomes.				
Procedures						
Results	used to assign l	Average follow up was 18.7 months. Primary outcome measure was successful fusion. The proposed grading system was used to assign levels of fusion from radiographs and CT obtained at an average 3 months of follow up. 7 of 10 patients achieved Level 1 or 2 fusion based on these criteria and deemed successful.				
Discussions	proposed gradin demonstrated 3	There is currently no guidance to determine adequate fusion when using 3D printed implants for osseous deficits. The proposed grading system is the first to define fusion criteria when using 3D implants. When applied to our series, it demonstrated 3D printed talar cages with IM nail fixation for complex talar pathology is reliable and reproducible with acceptable fusion rates. Larger studies are required for validation.				
Format	Scientific					
<b>Case Rpt Followup</b>	18.7					
Student Club	Not a Student C	lub Poster				
Classification	Rearfoot and A	nkle Reconst	truction			
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01274 Ref ID Sci-127					
Title	MLS and REMY las	MLS and REMY laser to augment proven nail therapy regimen				
Submit Date	08/31/2023					
Correspondent	Last Name: Shao					
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	Practice/Company/Residency	Program:	One Brookly	n Health, Foot and Ankle Surgery		
Authors	Author 1: Zhisheng Sha	o, DPM	Author 2:	Emily Seo		
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	Author 5: Julia Fireston	e, BS	Author 6:	Kristin Titko, DPM		
	Author 7: Peter Mollica	, DPM	Author 8:			
Purpose	The purpose of this study is to augmented with proven nail t		sers for their ef	ficacy in treating fungal nails while being		
Methodology	REMY and 17 MLS laser tree Elimination criteria includes l Each nail was evaluated based fungal). Therefore, 30/30 repu	Thirty candidates in each laser treatment category were obtained over the past 4 years (6/2019-6/2023). Twenty-three REMY and 17 MLS laser treatment patients were deemed suitable based on pre- and post-treatment nail morphology. Elimination criteria includes loss to follow-up, slow growth of nails, or an inability to assess due to extenuating factors. Each nail was evaluated based on the scale 1-3 ( $1, <50\%$ of nail appears fungal; $2, =50\%$ appears fungal; $3, >50\%$ appears fungal). Therefore, 30/30 represent a complete recovery or completely normal appearance of nails. Unpaired student t test was applied to analyze the statistical differences based on percent change.				
Procedures						
Results	improvements overall, with the continue with proven nail treat	All patients reported improvements in nail morphology. Those with the poorest initial evaluations reported the greatest improvements overall, with the best improvements of 15/30 from the initial (0/30). Nearly all patients (85%) agreed to continue with proven nail treatment regimen and noted general satisfaction to extreme satisfaction of results. Clinical significance is strongly noted across use of both lasers, with little noted difference between the two types (p=0.262).				
Discussions	analysis does not reveal relev	Clinical relevance remains strong for the use of either MLS or REMY laser with proposed nail treatments, and statistical analysis does not reveal relevant differences between the two. Future studies may be aim at comparing these treatments with more traditional single oral or topical treatments as an internal control to validate.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Disea	ses				
Level of Evidence	Level II					
Authors/Financial D	isologunos					
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Submission ID	05-01282			Ref ID Sci-1282		
Title	The Effect on Podia	The Effect on Podiatric Surgery before, during, and after the COVID-19 Pandemic				
Submit Date	08/31/2023					
Correspondent	Last Name: Coker					
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	Practice/Company/Residen	cy Program:	Boston Medi	cal Center		
Authors	Author 1: David L Co	ker	Author 2:	Hau Pham		
	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	lives and preventing hospita and elective surgeries were after the pandemic. We revi	al overflow. At our institution, sta postponed. As a result, it is noted	rting from Mar that more wou	9 pandemic in 2020 were essential to saving ch 2020 to March 2021, all patient clinic visits ind-related surgeries were performed during and s after the pandemic to evaluate the effect of		
Methodology	We reviewed all surgeries at our institution from March 2017 through March 2023. We included elective and wound- related surgeries: Toe Amputations, Transmetatarsal Amputations, Chopart and Lisfranc Amputations, Wound debridement, and Incision and drainage.					
Procedures						
Results	from April 2017 to March 2 COVID-19) (15.5% decrea	The Department of Podiatry performed 4390 surgeries from April 1, 2017, to March 31, 2023. There were 2379 surgeries from April 2017 to March 2020 (pre-COVID-19), while there were 2011 surgeries from April 2020 to March 2023 (post-COVID-19) (15.5% decrease). The number of wound-related surgeries increased from 845 to 898 (35.5% to 44.7%) when comparing pre and post-COVID-19. There was a jump in wound-related surgery in 2020; it went down in 2021 but jumped back in 2022.				
Discussions		elated surgery affects the COVID ge years after the beginning of the		It affected wound care and continues to affect		
Format	Scientific					
Case Rpt Followup	0					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dis	eases				
Level of Evidence	Level II					
Authors/Financial D	isclosures					
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Submission ID	05-01289 Ref ID Sci-128					
Title		Prevalence of Non-traumatic Lower Extremity Amputation by Geographical Location and Seasonal Variation in the United States: A Population Study				
Submit Date	08/31/2023					
Correspondent	Last Name:	Kim				
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	Practice/Comp	any/Residency Program	1:	Penn Presby	terian Medical Center	
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	Author 5:	D. Scot Malay, DPM,	MSCE, FACFAS	Author 6:		
	Author 7:			Author 8:		
Purpose	To ascertain po seasonal variat		ce of lower extremity a	amputation in	the United States by geographical location and	
Methodology	lower extremit and by season	2019 National Inpatient Sample (NIS) data and ICD-10 procedure codes were used to identify patients that underwent lower extremity amputation (LEA). The prevalence of NTLEA was compared by the nine U.S. Census Bureau Divisions and by season of the year. Comorbidities were identified using ICD-10 diagnosis codes. Descriptive and inferential statistical analyses were undertaken.				
Procedures						
Results	LEA in the U.3 (0.63%) of am The lowest pre- highest season p<0.001 for m	The NIS included 35,915 LEA patients, including 21,762 patients minor and 14,153 major amputations. The prevalence of LEA in the U.S. was 0.51% for all LEAs, 0.31% for minor and 0.20% for major amputation. The highest prevalence (0.63%) of amputation was observed in the East South Central region, 0.35% for minor and 0.28% for major amputation. The lowest prevalence (0.41%) was observed in the North East, 0.27% for minor and 0.15% for major amputation. The highest seasonal prevalence (OR: 1.045, $p < 0.001$ ) was observed in the summer for all amputations, with OR: 1.06, $p < 0.001$ for minor amputation. The lowest seasonal prevalence (OR: 1.045, $p < 0.001$ ) for all amputations was observed in winter, and no statistically significant difference was noted for major LEA by season.				
Discussions	advantage of t		ents 97% of the US in	patient popula	veen geographic regions and seasons. An tion, whereas limitations include those related s.	
Format	Scientific					
Case Rpt Followup	)					
Student Club	Not a Student	Club Poster				
Classification	Epidemiology	Population Study				
Level of Evidence	Level III					
Authors/Financial	Disclosures					
Full Name:	Email:		Disclosure(s) selected	1:	Disclosed Organisation(s)	
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Submission ID	05-01290 Ref ID Sci-1					
Title		Syndesmotic Stabilization as an Adjunct to Total Ankle Replacement and its Impact on Correction and Stability				
Submit Date	08/31/2023					
Correspondent	Last Name: abigail					
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	Practice/Company/Residen	cy Program:	NOMS Ankle	and Foot Care Centers		
Authors	Author 1: Hannah, C,	Abigail, DPM AACFAS	Author 2:	Holly, N, Zucchero DPM		
	Author 3: Lawrence, 1 FACFAOM	D, Didomenico, DPM, FACFAS, , CWS	Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	is done as a standalone pro	cedure, the authors hypothesize the increased degree of correction at	nat the addition	d-stage ankle arthritis. While traditionally this of syndesmotic stabilization will allow for a This study aims to evaluate the radiographic		
Methodology	lateral transfibular approach were used to determine rate	h and syndesmotic stabilization u	sing two fully t hetic fracture,	nkle replacement using fixed bearing TAR via a hreaded 4.0mm screws. Radiographic outcomes gutter impingent, aseptic loosening, subsidence, joint, and prosthetic alignment.		
Procedures						
Results		trate the addition of syndesmotic of pre-operative deformities.	fixation allows	for greater stabilization of the prosthetic and a		
Discussions	prosthetic. This adjunct allo		cal option for h	tion with TAR enhances stability of the igher levels of ankle arthritis, as defined by ction.		
Format	Scientific					
Case Rpt Followup	24					
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Recons	struction				
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01292				Ref ID Sci-1292	
Title	Renal Fai	Renal Failure and Impact on 30-day Complication Rates for Ankle Fracture ORIF				
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Corley Kristina Cor pany/Residenc	•	Email: Weil Foot & .	kristina.corley@weil4feet.com Ankle	
Authors	Author 1: Author 3: Author 5: Author 7:	Kristina Cor Rachel Albri	ley, DPM ight, DPM, MPH, FACFAS	Author 2: Author 4: Author 6: Author 8:	Jonathan Hook, DPM, FACFAS Adam Fleischer, DPM, MPH, FACFAS	
Purpose	To determine internal fixati		p between renal status and pos	toperative compl	lications following ankle fracture open reduction	
Methodology	CPT codes. R Secondary ou	enal disease w tcome variable	as defined as Cr >2.0 or dialys as included wound dehiscence,	is. The primary ovenous thrombo	le fracture ORIF between 2014 and 2019 using outcome variable was wound infection. embolism, reoperation and readmission. e obtained and compared between groups.	
Procedures						
Results	A total of 33,293 patients underwent ankle ORIF. A high proportion of patients on dialysis experienced wound complications including wound infection (12% vs. 3%) and wound dehiscence (1% vs. 0.3%). However, in the multivariable analysis, dialysis was not associated with risk of wound complications. The significant risk factors for wound dehiscence included age (OR 1.02; 95% CI 1.01-1.04), current smoker (OR 1.87; 95% CI 1.21-2.90), and diabetes (OR 1.64;95%CI 1.04-2.61). The significant risk factors for wound infection included age (OR 1.01; 95% CI 1.00-1.02), outpatient surgery (OR 0.74; 95% CI 0.57-0.97), current smoker (OR 1.58; 95% CI 1.20-2.08) and black race (OR 1.96; 95% CI 1.05-3.65).					
Discussions	reduction inte presence of p	Patients with renal disease were not associated with increased 30 day complication rates following ankle fracture open reduction internal fixation. End stage renal disease patients are known for having a unique profile of wounds given the presence of proteinuria, peripheral edema, low serum albumin levels, and abnormal electrolyte abnormalities. However, in the acute setting with ankle fractures, no association was noted.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student	Club Poster				
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial Di			<b>B</b>			
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01294			Ref ID Sci-1294		
Title		ri-Articular Cyst Form sty with Average 4 Yea		ssociated Outcomes prior to Total		
Submit Date	08/31/2023					
Correspondent	Last Name: Connoll Full Name: Elizabe Practice/Company/Resi	th Connolly DPM	Email: JFK Medica	tay.bergstrom@gmail.com l Center		
Authors	Author 3: Elizabe	Clancy DPM, FACFAS th Connolly DPM Stringham DPM	Author 2: Author 4: Author 6: Author 8:	Taylor Bergstrom DPM JiHae Kim DPM		
Purpose	Purpose: This is a preva the setting of total ankle		incidence of peri-a	articular bone cysts and associated outcomes in		
Methodology	inclusion was 1 year. Pa	Retrospective review of 81 limbs prior to total ankle arthroplasty were identified. The minimum follow-up time for inclusion was 1 year. Patient demographics, complications, revisions, zone affected, resection margins, ancillary procedures, cyst location, number of cysts, and follow up time were evaluated.				
Procedures						
Results	common zones being 1,	2,5,9. Resection margins were a	ffected by cysts in	, 5 out of 81 limbs under went revision with the 57% of limbs, 43% of resection margins were v up was 4 years with a range of 1 - 10 years		
Discussions	reconstruction can bette	Preoperative planning in the setting of total ankle replacement is imperative to avoid complications. CT imaging with 3D reconstruction can better identify problematic cysts that leads to revision surgery and/or ancillary procedures. This study identified the most common zones predictive of revision surgery in total ankle arthroplasty.				
Format	Scientific					
<b>Case Rpt Followup</b>	48					
Student Club	Not a Student Club Pos	ter				
Classification	Rearfoot and Ankle Rea	construction				
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01305			Ref ID Sci-1305		
Title	A Predictive Model for Threatening Ischemia			e Setting of Chronic Limb- • Intervention		
Submit Date	08/31/2023					
Correspondent	Last Name: Cheung					
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	Author 7:	, , ,	Author 8:	FSCAI, FSVM		
Purpose	The purpose of this study is to o threatening ischemia (CLTI) fol			at 30 days in the setting of chronic limb- VI).		
Methodology	included. Sixty-three preproced constructed for 30-day outcome	Patients undergoing PVI for CLTI in 2017 and 2018 in the Medicare-linked Vascular Quality Initiative (VQI) were included. Sixty-three preprocedural variables were included in random survival forest (RSF) models. RSF models were constructed for 30-day outcomes in the training sample (80%) and evaluated in the testing sample (20%). Predictive variables were ranked based on frequency that caused branch splitting nearest to the root node.				
Procedures						
Results	days while the death rate without amputation rate at 30 days was were lost to follow up. The RSF	A total of 10,114 patients (mean age 72 +/- 11, 59% male, 74% white) were included. The amputation rate was 6.8% at 30 days while the death rate without an amputation was 4.2%, and 0.4% of the patients were lost to follow up. The major amputation rate at 30 days was 3.0%, while the rate of death without major amputation was 4.3%, and 0.4% of the patients were lost to follow up. The RSF model identified a prior major amputation, chronic kidney disease stage 5, and an urgent PVI procedure as the most important variables for predicting 30-day amputation following PVI.				
Discussions	amputation at 30-days following at 30-day were prior major amp	Using data from the Medicare-linked VQI registry, our group identified the most important variables for predicting amputation at 30-days following a PVI using RSF models. The most important variables for predicting major amputations at 30-day were prior major amputations, CKD stage 5, and an urgent PVI procedure. Our work provides a foundation for determining important considerations in determining the risk for a major amputation within 30 days following a PVI.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Epidemiology/Population Study	y				
Level of Evidence	Level I					
Authors/Financial D	Disclosures					
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Submission ID	05-01311			Ref ID Sci-1311		
Title	Minimally Invas	Minimally Invasive Zadek Osteotomy: Structures at Risk				
Submit Date	08/31/2023					
Correspondent	Last Name: Schwal Full Name: Anthor Practice/Company/Res	y J Schwab, DPM, MS	Email: Inova Fairfa	anthonyjschwab7@gmail.com x Medical Campus		
Authors		y, J Schwab, DPM, MS Creech, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Miriam Niktash, DPM		
Purpose	tendinopathy without t		nsection. The aim o	e treatment of Haglund's deformity and Achilles f this study is to identify safe zones for		
Methodology	degree angle perpendic the calcaneus. Distance wing of the osteotomy	A Minimally Invasive Zadek osteotomy was performed on 10 cadaveric specimens. The osteotomy was performed at a 45 degree angle perpendicular to the calcaneal tuberosity while ensuring an apex of 5-10 mm dorsal to the plantar cortex of the calcaneus. Distance (in mm) from the posterior and anterior hinge was measured from the most superior and inferior wing of the osteotomy to the following: sural nerve, peroneal tendon sheath, tibialis posterior tendon, flexor digitorum longus tendon, tibial nerve/artery/vein, and flexor hallucis longus tendon.				
Procedures						
Results	mm mm (range 5.4-13. tendinous structures wa	Average distance to the sural nerve and peroneal tendon sheath from the most inferior aspect of the posterior wing was 6.65 mm mm (range 5.4-13.2) and 23.26 mm (range 20.3-25.7) with no injury to either structure. No medial neurovascular or tendinous structures was injured as a result of this osteotomy with the tibial nerve being closest to the posterior wing at an average of 24.34 mmm (range 20.2-28.3).				
Discussions	to adjacent tendinous a	nd neurovascular structures at b	oth the medial and	to be a safe procedure without significant trauma lateral aspect of the osteotomy. To our invasive approach to Zadek osteotomy.		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Pos	ter				
Classification	Rearfoot and Ankle Re	construction				
Level of Evidence	Level V					
Authors/Financial Di	sclosures					
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Submission ID	05-01316				Ref ID Sci-1316		
Title	Transvers	The Incidence of Wound Healing Complications Following Use of a Vertical versus Transverse Incision for Strayer Gastrocnemius Recession: A Retrospective Comparative Study					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com		Christie, DPM, AACFAS cy Program:	Email: Orthopedic I	laur.m.christie@gmail.com foot and Ankle Center		
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Purpose	gastrocnemiu	A retrospective cohort study with the primary aim of comparing the incidence of wound complications following Strayer gastrocnemius recession (SGR) using either a vertical or transverse incision, was conducted. The secondary aim was to explain complications in terms of patient exposures.					
Methodology	wound dehise	ence and sura		led demographic	m 3-month follow up. Outcomes included , comorbidity, and surgical risk factors.		
Procedures							
Results	thigh tourniqu 0.0002). Non Greenland ser	The cohort's median age was 51 years, BMI 29.1, and 54.6% were female. No sural nerve injuries were observed. Use of a thigh tourniquet protected against dehiscence, whereas 57.1% that did not use a tourniquet experienced dehiscence ( $p = 0.0002$ ). None of the horizontal incisions showed dehiscence, whereas 28.6% of the vertical incisions did ( $p = 0.0144$ ). A Greenland sensitivity analysis revealed the effect estimate for the horizontal incision to resist (the odds ratio [OR] did not change >10%) the potential influence of a hypothetical variable up to an OR of nearly 7 for the unmeasured confounder by the automatic structure of the structure of the horizontal incision of the structure of the horizontal influence of a hypothetical variable up to an OR of nearly 7 for the unmeasured confounder by					
Discussions	likely related could be relat	to orientation ed to less intra	of the incision parallel to relaxe	ed skin tension l iced operative ti	ected against wound dehiscence. This effect was ines. The protective effect of the tourniquet me. These findings could be used to develop		
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Student	Club Poster					
Classification	Rearfoot and	Ankle Recons	truction				
Level of Evidence	Level III						
Authors/Financial D	isclosures						
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):		
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Grant/Research funding

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Submission ID	05-01320			Ref ID Sci-1320			
Title	Utility of Neutroph Patients with Diabe		atio in Predict	ing 30-Day Readmissions in			
Submit Date	08/31/2023						
Correspondent	Last Name: Tirabassi						
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	Practice/Company/Residen	cy Program:	Rochester G	eneral Hospital			
Authors	Author 1: Nathan C T	irabassi, DPM	Author 2:	Anjni P Patel, DPM			
	Author 3: Garrett L L	aMontagne, DPM	Author 4:	Tayler A Thomas, DPM			
	Author 5: Juan A Cas	illo, DPM	Author 6:	Tyler L Coye, DPM			
	Author 7:		Author 8:				
Purpose		liabetic foot infections (DFI	). Being able to iden	te ratio (NLR) in relation to 30-day readmission ntify high-risk patients and predict outcomes d rates of readmission.			
Methodology	May, 1, 2019, and June, 1, the NLR in distinguishing multivariate logistic regress	The study utilized electronic health records to investigate a cohort of 139 patients who were admitted for DFIs between May, 1, 2019, and June, 1, 2022. The area under the curve (AUC) was calculated to quantify the discriminatory power of the NLR in distinguishing between patients who were readmitted within 30 days and those who were not. Furthermore, multivariate logistic regression analysis was conducted to assess whether the NLR could independently predict 30-day readmission after adjusting for other potential confounding variables.					
Procedures							
Results	DFIs. An AUC value of 0.5		ts of the multivariat	ed within 30 days of their initial admission for e analysis revealed the NLR did not retain its			
Discussions	admitted with diabetic foot between patients who were	In conclusion, this study found that the NLR ratio had limited predictive value for 30-day readmission among patients admitted with diabetic foot infections. The AUC of 0.562 indicated that the NLR had only marginal ability to discriminate between patients who were readmitted within 30 days. Further research with larger sample sizes and consideration of additional predictive markers, including NLR, is warranted to enhance the accuracy of readmission risk prediction in this patient population.					
Format	Scientific						
Case Rpt Followup	14						
Student Club	Not a Student Club Poster						
Classification	Epidemiology/Population S	Study					
Level of Evidence	Level IV						
Authors/Financial	Disclosures						
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Submission ID	05-01322			Ref ID Sci-1322		
Title	Minimally Invasive Subtalar and Talonavicular Joint preparation for Hindfoot Arthrodesis: Structures at Risk					
Submit Date	08/31/2023					
Correspondent	Last Name: Schwab					
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	Practice/Company/Residency	y Program:	Inova Fairfa	x Medical Campus		
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	Author 3: Tara McElro	y, DPM, MPH	Author 4:	Corine Creech, DPM , FACFAS		
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	operative pain, and a smaller	r incision throughout the proced s to define at risk anatomic strue	ure leading to	tageous in regard to operative time, post decreased rates of incisional dehiscence. The ubtalar and talonavicular joint prep so that safe		
Methodology	Talonavicular (TN) joints in 10 cadaveric specimens were denuded of cartilage with a 3x30 mm Shannon burr at portals 1 cm medial and 1 cm lateral to the dorsal aspect of talonavicular joint. Additionally, the posterior subtalar joint (STJ) was denuded of cartilage through a portal adjacent to the sinus tarsi with the aforementioned Shannon burr directed posteriorly. Distance (in mm) to the sural nerve and peroneal tendon sheath were measured laterally and distance to the dorsalis pedia artery, medial dorsal cutaneous nerve, and deep peroneal nerve dorsally.					
Procedures						
Results	After STJ prep, average distance to the sural nerve and peroneal tendon sheath from burr entry site was 34.21 mm (range 32.96-36.56) and 14.123 mm (range 12.97-14.99) respectively. After TN joint prep from medial and lateral portals, the average distance to the dorsalis pedis artery, medial dorsal cutaneous/deep peroneal nerve were 13.31 mm (range 12.44-14.01), 11.54 mm (range 9.11-12.57), and 17.14 (range 14.43-20.21), respectively. No structures were transected after dissection.					
Discussions	Minimally invasive hindfoot joint preparation is a safe alternative to traditional open joint preparation and spares soft tissue trauma to vital neurovascular and tendinous structures. To our knowledge this is the first study looking into structures at risk for this specific procedure.					
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconst	ruction				
Level of Evidence	Level V					
Authors/Financial D	isologuros					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-01329 Ref ID Sci-1329					
Title		A Comparative Radiographic Analysis of Lapidus Bunionectomy Procedures: Traditional Plate and Screws vs. Instrument-Guided System				
Submit Date	08/31/2023					
Correspondent	Last Name:	Sato				
	Full Name: Practice/Con	Shane T Sato, DPM npany/Residency Program:	Email: Cambridge	stsato@challiance.org Health Alliance		
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Purpose	there has bee precision and	The Lapidus bunionectomy is a well-established surgical technique for treating moderate to severe hallux valgus. Recently, there has been growing interest in utilizing instrument-guided systems to perform this procedure, aiming to enhance precision and minimize complications. This study aims to compare the radiographic outcomes of Lapidus bunionectomy procedures using a traditional plate and screws technique with those using an instrument-guided system.				
Methodology	Retrospective analysis included patients undergoing Lapidus bunionectomy from January 2017 to December 2021. Groups were traditional plate and screws (Group A) and instrument-guided system (Group B). Radiographs were assessed for hallux valgus angle, intermetatarsal angle, and tibial sesamoid position. Statistical tests included paired t-tests and independent t-tests					
Procedures						
Results	months. Rad intermetatars postoperative groups (p-va	ographic analysis demonstrated a statistic al angle (p-value <0.001) as well as chang ely. Additionally, there was a statistically s	ally significant redu e in tibial sesamoid ignificant differenc cally significant diff	e in intermetatarsal angle between the two ference in radiographic outcomes between the		
Discussions	Lapidus bunionectomy procedures using both techniques effectively corrected hallux valgus deformity. The instrument- guided system showed a slight advantage in achieving optimal intermetatarsal angle correction. Further research is needed for comprehensive assessment of complications, functional outcomes, and patient satisfaction.					
Format	Scientific					
<b>Case Rpt Followup</b>	4					
Student Club	Not a Studen	t Club Poster				
Classification	Forefoot Reconstruction					
Level of Evidence	Level III					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
	· · · · 1 . 11	1/337 1	1			

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Submission ID	05-01333				Ref ID Sci-1333	
Title	Efficacy of	Efficacy of Radiofrequency Ablation of Inter-metatarsal Neuromas				
Submit Date	08/31/2023					
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	Practice/Com	pany/Residenc	y Program:	UPMC Cent Residency	ral PA Podiatric Medicine and Surgical	
Authors	Author 1:	Preston M. J	ensen, DPM	Author 2:	Megan F. Kimmel, DPM	
	Author 3:	Jeffrey A. M	larks, DPM	Author 4:		
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	neuromas. Us	sing a minimall	ly invasive procedure with	few risks and a very	equency ablation for treatment of inter-metatarsal y short recovery. Prior studies are limited with ts, varying techniques and short follow up.	
Methodology	no prior proce confirmed wi post procedur and overall p	The dorsal-interdigital approach was used for 67 patients receiving treatment from 2011-2022. Inclusion criteria required no prior procedures or treatments including nerve sclerosing injections. Target nerves were located anatomically and confirmed with direct nerve stimulation. Treatment was administered by one provider in office. Onset and duration of relief post procedure, as well as patient's current pain was recorded utilizing the VAS scale. Complications, further treatment, and overall patient satisfaction were recorded. Satisfaction was measured by asking if the patient would recommend this treatment to a friend or family member.				
Procedures						
Results	-		the inclusion criteria, 50 p ). Follow-up time mean 80	*	low up. Fourteen (28%) male, 36 (72%) female, nonths).	
Discussions	compared to patient popula complete reso	open surgical e ation using lon olution of their	xcision for the treatment of g-term follow-up and patie	f interdigital neuron ent satisfaction with after undergoing on	fewer complications and minimal recovery nas. Our study attempted to evaluate a larger treatment. Of 50 participants, 41 (82%) had e treatment of RFA. Overall satisfaction with ted or reported.	
Format	Scientific					
Case Rpt Followup	60					
Student Club	Not a Studen	t Club Poster				
Classification	Neurological	Peripheral Ner	ve Disorders			
Level of Evidence	Level III	*				
Authors/Financial D	isclosures					
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01334				Ref ID Sci-1334
Title	The Use of	of Polycap	rolactone and Polyure	ethane-urea	for Plantar Plate Repair
Submit Date	08/31/2023				
Correspondent	Last Name:	Heidtmann			
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	Practice/Con	npany/Residen	cy Program:	Highlands-P Residency	resbyterian/ St. Luke's Podiatric Surgical
Authors	Author 1:	ALEXAND	RA HEIDTMANN	Author 2:	Ronnie Pollard, DPM, FACFAS
	Author 3:	Brett Sachs,	, DPM, FACFAS	Author 4:	
	Author 5:			Author 6:	
	Author 7:			Author 8:	
Purpose	is to assess th	ne surgical outo			al postoperative outcomes. The aim of this study econstruction with the use of a combination of
Methodology	All patients u Minimum fol	inderwent soft llow-up was 12	tissue reconstruction using a c	ombination of p	rs confirmed by magnetic resonance imagining. olycaprolactone and polyurethane-urea polymers. lateral surgical procedures, follow-up time, and
Procedures					
Results	reported pain	improvement		llow-up. Prolon	a to plantar plate reconstruction. All patients ged edema and stiffness at the second
Discussions	plantar plate procedure. Tl	The utilization of a novel approach involving the combination of polycaprolactone and polyurethane-urea polymers for plantar plate reconstruction has shown promising results in addressing the challenges associated with this intricate surgical procedure. The study outcomes underscore the potential benefits of this technique, as evidenced by satisfactory postoperative pain levels and position of the joint at a one-year follow-up period.			
Format	Scientific				
Case Rpt Followup	13				
Student Club	Not a Studen	t Club Poster			
Classification	Forefoot Rec	onstruction			
Level of Evidence	Level III				
Authors/Financial D	isclosures				
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):
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Submission ID	05-01343				Ref ID Sci-1343		
Title		Comparing Clinical Characteristics and Short-Term Outcomes Between Geriatric and Non-Geriatric Patients Undergoing Charcot Reconstruction					
Submit Date	08/31/2023						
Correspondent	Last Name: Casciato Full Name: Dominick, J, Cascia Practice/Company/Residency Progra		Email: d	doinickcasciato( aryland Medica			
Authors	Author 1:     Dominick Joseph Ca       Author 3:     Gregory Aubertin D       Author 5:     Robert Mendicino D       Author 7:     Author 7:	PM	Author 4:	Shehryar Raja D Karen Kirkham Jacob Wynes DF			
Purpose	Maintaining an acceptable quality or challenge when treating an aging po decision making when considering l clinical characteristics and short-tern	pulation. In those with Cl mb preservation versus a	narcot neuroarthr mputation. The j	opathy, wounds	and infection complicate nvestigation is to describe the		
Methodology	Demographics, medical history, defe were collected. Descriptive statistics	A retrospective chart review of patients who underwent Charcot reconstruction from 2016-2022 was conducted. Demographics, medical history, deformity type, surgical intervention, discharge planning and short-term complications were collected. Descriptive statistics were calculated, and clinical characteristics and short-term outcomes were compared between the non-geriatric (N) and geriatric (G) cohorts using Student's t-test or Chi-squared test with odds ratios (OR).					
Procedures							
Results	osteomyelitis (p=0.15) did not signi (p=0.31), though the geriatric group discharge to nursing facilities did di	Overall, 103 patients were reviewed for final analysis. Charcot deformity type ( $p=0.48$ ), incidence of wounds ( $p=0.47$ ) and osteomyelitis ( $p=0.15$ ) did not significantly differ between groups. Prolonged admission was independent of geriatric statu ( $p=0.31$ ), though the geriatric group showed age-related pathology including delirium and urinary tract infections. While discharge to nursing facilities did differ between groups (G 45% versus N 17%; OR: 3.99, $p=0.01$ ), baseline function did not ( $p=0.12$ ). The 30-day emergency-visit/readmission (G 23% versus N 6%; OR 4.47, $p=0.03$ ) and mortality rates (G 9% versus N 6%; OR 4.47, $p=0.03$ ) and $p=0.03$ .					
Discussions		Prior to geriatric Charcot reconstruction, consideration should be given to age-related comorbidities. Risks versus benefits of reconstruction and subsequent hospitalization and complications should be discussed at length.					
Format	Scientific						
Case Rpt Followup	)						
Student Club	Not a Student Club Poster						
Classification	Rearfoot and Ankle Reconstruction						
Level of Evidence	Level III						
Authors/Financial							
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Submission ID	05-01348			Ref ID Sci-1348	
Title	Hallux Interphala Population	ngeal Joint Arthrodesis	Complicati	on Rates in the Diabetic	
Submit Date	08/31/2023				
Correspondent	Last Name: Yang				
	Full Name: Guang Yar Practice/Company/Resider	n, DPM, AACFAS ncy Program:	Email: Emory Midto	graspace05@gmail.com wn Foot & Ankle Surgical Fellowship	
Authors	•	ıg, DPM AACFAS d A. Sharif, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Marina R. Tony, DPM AACFAS	
Purpose	as well as arthritis. Diabet Complication rates for 1st	es poses many difficult potential of MPJ fusions in diabetics is well of aims to assess the success and co	complications for locumented, ho	to address hallux abductus or malleus deformity, or any foot and ankle surgeon, however. wever to our knowledge, research lacks that of s of 1st IPJ arthrodesis in the diabetic	
Methodology	39 patients were included from a multicenter clinic. 16 patients were diabetic and 23 were nondiabetic. Patient demographics included HbA1c levels, BMI, tobacco use, and peripheral neuropathy. Fusion was determined radiographically at 6 months with X-rays with follow-up of at least 12 months.				
Procedures					
Results	diabetics had complication		ol, there was an	cations (56.30%). Only 2 of the 23 non- average complication rate of 23.10% and	
Discussions	Although performing elective foot and ankle procedures in diabetics has its own risks well known to the surgeon, some are to relieve a chronic non-healing wound. A 1st IPJ fusion can eliminate recurring hallux pressure ulceration that could potentially lead to a more serious complication, such as osteomyelitis. Standard open approach was performed in all patients for joint prep. Given our results, alternative treatment options should be considered to treat chronic ulceration of the hallux, such as a minimally invasive approach to accomplish a similar surgical outcome.				
Format	Scientific				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Diabetic Foot				
Level of Evidence	Level IV				
Authors/Financial Di	sclosures				
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Submission ID	05-01350			Ref ID Sci-1350
Title	Three-Dimensiona Series	l Navigation Assisted P	ediatric Fo	ot and Ankle Surgery: A Case
Submit Date	08/31/2023			
Correspondent	Last Name: Sakkab Full Name: Ramez S. S Practice/Company/Resider	Sakkab, DPM, AACFAS ncy Program:	Email: Phoenix Foo	rasakkab@gmail.com t & Ankle Institute
Authors	Author 1:Hafsah DeAuthor 3:Ryan O'ShAuthor 5:Author 7:	· · · · · · · · · · · · · · · · · · ·	Author 2: Author 4: Author 6: Author 8:	Ramez Sakkab, DPM, AACFAS Scott Shoemaker, MD
Purpose	intraoperative visualization	n and guidance. CAS via cone be	am computed to	nsional navigation (TDN) to optimize omography (CBCT) has progressed in o demonstrate a series of TDN for pediatric foot
Methodology	• •	/II), comorbidities, previous surg		eria including a minimum of 1 year follow-up. atisfaction score, time to return to sport, and
Procedures				
Results	age was 12.6 years (Range satisfied, 26.7 satisfied. Re (Range: 1 - 16.96), dose 1.	e: 7-18). Average follow-up was 1 eturn to sport was at mean 10.9 w	3.7 months (Ra reeks (Range: 9 , and fluoroscop	illing, and 7 for tarsal coalition resection. Mean nge: 12- 24). Patients were 73.3% very 6 - 18). Mean exposure time was 3.8 seconds bic dose gap 365.6 mGy/cm2 (Range: 116.7 -
Discussions	drilling is direct and in rea mGy/cm2) is similar to tha Orthop Traumat: Surg Res	l-time. The radiation time and do at reported in hindfoot and ankle	sage wherein for pathology with ors as they are n	g. Visualization of coalition resection and OCD r pediatric tarsal coalitions and talus OCDs (365 mini-C arm (8.7 cGy/cm2,Guyonnet et al. 2017 ot in the operating theater during CBCT spin.
Format	Scientific			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Student Club Poster			
Classification	Arthroscopy			
Level of Evidence	Level IV			
Authors/Financial D	visclosures			
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Submission ID	05-01359			Ref ID Sci-1359		
Title	Validatio	Validation and expansion of the Nicholson achilles tendinosis classification				
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Com	Biscorner Brady N. Biscorner, DPM, PGY-3 apany/Residency Program:	Email: Tower Healt Phoenixville	bbiscorner@gmail.com h Podiatric Medicine & Surgery Residency at Hospital		
Authors	Author 1: Author 3: Author 5: Author 7:	Jason R. Miller, DPM, FACFAS Brady N. Biscorner, DPM, PGY-3	Author 2: Author 4: Author 6: Author 8:	John E. Marshall IV, DPM, Fellow Tavin B. Morgan, DPM, PGY-2		
Purpose	The purpose Tendinosis.	of the present scientific study is to validate an	nd expand the Ni	cholson classification system for Achilles		
Methodology	June 2022. O of follow up with prior sur on the classif	ver this 2 year period only patients diagnosed were included. Patients with both insertional rgical intervention were excluded. Patients M ication system proposed by Nicholson in 200 and conservative vs surgical treatment. The	d with achilles te and non-insertio IRI images were 17. Patients were	treated for achilles tendinosis from June 2020 to ndinosis with an MRI and a minimum of 1 year nal achilles tendinosis were included. Patients reviewed and each patient was classified based stratified based on type of tendinosis, Nicholson e measure was resolution of achilles tendon pain		
Procedures						
Results	an MRI avail			osis were identified. Of these, 131 patients had 33 Type 2 and 42 type 3 achilles tendons were		
Discussions	resolution of tendinosis are tendinosis is	results the Nicholson classification is predic achilles tendon pain for both insertional and e very likely to have resolution of their sympl insertional or non-insertional. Patients with ty th conservative treatment alone regardless of	non-insertional A toms with conser ype 3 tendinosis	vative treatment regardless of whether their are unlikely to have resolution of their		
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Reconstruction				
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		

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Submission ID	05-01362				Ref ID Sci-1362	
Title	Multicenter Study of Distal Metatarsal Minimally-Invasive Osteotomy (DMMO) vs. Open Weil Osteotomy					
Submit Date	08/31/2023					
Correspondent	Last Name:	Heidtmann				
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	Practice/Company/Residency Program: Highlands-Presbyterian/ St. Luke's Podiatric Surgica Residency				resbyterian/ St. Luke's Podiatric Surgical	
Authors	Author 1:	Alexandra I	Heidtmann, DPM	Author 2:	Brett Sachs, DPM, FACFAS	
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	Author 5:			Author 6:	-	
	Author 7:	: Author 8:				
Purpose	order to gene	This study aims to make a retrospective and multicenter comparison of the open Weil osteotomy and DMMO procedures in order to generate robust data that are capable of defending one technique over the other when functional outcomes and complications are compared.				
Methodology	recent operat prolonged ed	Data was collected retrospectively from patients who underwent a Weil Osteotomy or DMMO procedure from the most recent operation and traced back until completion of 60 patients. Postoperative radiographs, complications including prolonged edema, recurrent metatarsalgia, metatarsophalangeal dislocation "floating toe", metatarsophalangeal stiffness, malunion/nonunion and wound complications were recorded.				
Procedures						
Results	Pain improvement was statistically significant in both groups. Patient satisfaction was higher in the DMMO group. The most common complication of the Weil osteotomy was metatarsophalangeal dislocation "floating toe". The complication rate was higher in the Weil osteotomy group.					
Discussions	The most common procedure performed today worldwide is the weil osteotomy. Although this procedure provides a high satisfaction rate, there is also a high rate of complications including floating toe (30%), metatarsophalangeal stiffness, plantar translation of the metatarsal head and transfer metatarsalgia. With the advance of medicine started to surge in the literature. One of these modifications is the distal metatarsal minimally-invasive osteotomy (DMMO). Literature has suggested that the DMMO presents a decreased rate of complications compared to the weil osteotomy, in specific, avoiding the infamous "floating toe."					
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level III					
Authors/Financial Disclosures						
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Submission ID	05-00681				Ref ID Sci-681		
Title	Comparison of clinical and radiographic results of 1st toe nitinol staple arthrodesis when performed in conjunction with metatarsal osteotomy or tarsometatarsal fusions.						
Submit Date	08/24/2023	08/24/2023					
Correspondent	Last Name: Massa Full Name: Dr. Eric Massa, Practice/Company/Residency Pr		Email: Ankle and Fo	emassa6@yah ot Associates	000.com		
Authors	Author 1: Dr. Eric Massa, Author 3: Author 5: Author 7:	DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:	Mark Moldav:	sky, MS		
Purpose		Retrospective study comparing patient reported outcomes and radiographic data of metatarsal osteotomy (MO) and tarsometatarsal fusion (TMT) when performed in conjunction with 1st toe nitinol staple fixation.					
Methodology	Hallux Valgus Angle (HVA), Int	44 patients were included. Pre-op and post-op VAS FA, and fusion grade were assessed as well as pre-op and post op Hallux Valgus Angle (HVA), Intermetatarsal Angle (IMA), and Interphalangeal Angle (IPA). Ist and 2nd follow ups were 3-4 and 6-8 weeks, respectively. Student t-test assuming equal variance ( $p\leq 0.05$ ) to determine significant differences.					
Procedures							
Results	In addition to staple fixation, 22 patients underwent a 1st MO and 22 patients underwent a 1st TMT. The average age and BMI were $63.2\pm9.3$ , $29.6\pm5.5$ , $4M/18F$ and $57.5\pm14.8,27.1\pm5.8$ , $5M/17F$ in the MO and TMT, respectively. VAS-FA scores had a significant improvement (p $\leq 0.05$ ) (MO $38.9\pm17.6$ , $17.3\pm9.2$ ; TMT $41.7\pm20.9$ , $21.1\pm13.0$ ). Fusion grades were $70\pm20\%$ and $98\pm4\%$ in the MO compared to $83\pm16\%$ and $98\pm5\%$ in the TMT at 1st and 2nd follow up. Both groups had a significant reduction (p $\leq 0.05$ ) in pre-op to post-op HVA (MO $15.8\pm5.20$ , $3.9\pm3.20$ ; TMT $21.3\pm13.70$ , $6.9\pm5.20$ ) and IMA (MO $13.9\pm3.20$ , $8.7\pm3.00$ ; TMT $17.0\pm2.20$ , $8.4\pm2.70$ ) while not showing a significant change in IPA (p $\geq 0.05$ ) (MO $5.4\pm3.60$ , $5.0\pm2.10$ ; TMT $3.5\pm3.00$ , $4.7\pm3.00$ ).						
Discussions	Using nitinol staple fixation for Akin osteotomies in conjunction with metatarsal osteotomies or 1st TMT fusions, are effective in improving clinical and radiographic outcomes.						
Format	Scientific						
Case Rpt Followup							
Student Club	Not a Student Club Poster						
Classification	Forefoot Reconstruction						
Level of Evidence	Level III						
Authors/Financial I	Disclosures						
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):		
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Submission ID	05-00686			Ref ID Sci-686		
Title	Instagram and the Podiatry Residency Match					
Submit Date	06/28/2023					
Correspondent	Last Name: Russo Full Name: Ashley Practice/Company/Residency I	Program:	Email: NYU Long I	russo.ashley@gmail.com Island School of Medicine		
Authors	Author 1:Ashley T. RussAuthor 3:Chinyere OkpaAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Raymond G. Ferguson, Jr., DPM Shahidul Islam, DrPH, MPH		
Purpose		This study aims to evaluate the presence and use of Instagram among podiatry residency programs in the tri-state area and its impact on the 2023 match process.				
Methodology	Council on Podiatric Medical Education approved residency programs in the tri-state area were evaluated for the presence of an Instagram account and metrics including number of posts, number of followers, usage of highlights, usage of reels, and date of last post (to determine account activity). Programs were also analyzed for regional or national ranking (as per the U.S. News & World Report) and total number of adult hospital beds (a proxy for facility size, staff support, and resources). Programs were then evaluated to determine if they entered Match Phase II (MPII), otherwise known as "the scramble." Descriptive statistics were calculated and associations were measured using Kruskal-Wallis Rank Sum and Exact Test, Chi-Squared Test, and Fisher's Exact Test.					
Procedures						
Results	Our findings reveal that podiatry residency programs with an Instagram account are less likely to enter MPII (p = 0.006). Individual Instagram metrics have no effect on MPII. Programs that are regionally or nationally ranked are more likely to have an Instagram account. The total number of adult hospital beds alone and regional or national ranking alone has no effect on MPII.					
Discussions	Our study suggests that podiatry residency programs without an Instagram account should consider establishing one, and those with an account should keep their page current, as Instagram may be an impactful resource for prospective applicants in the match process.					
Format	Scientific	Scientific				
Case Rpt Followup						
Student Club	Not a Student Club Poster	Not a Student Club Poster				
Classification	Epidemiology/Population Study					
Level of Evidence	Level II					
Authors/Financial D	Disclosures					
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Submission ID	05-00691 Ref ID Sci-691					
Title	Open Reduction Vs Closed Nailing for Geriatric Ankle Fractures					
Submit Date	07/10/2023					
Correspondent	Last Name:     Meyer       Full Name:     Cameron       Practice/Company/Residency Program:     University of Pittsburgh Medical Center					
Authors		ameron M .achel War	leyer, DPM ner, DPM	Author 2: Author 4: Author 6: Author 8:	Krishnan Perumbala, DPM Jeffrey Manway, DPM, FACFAS	
Purpose		The purpose of this study is to compare outcomes of patients treated with closed intramedullary nailing to those of open reduction and internal fixation (ORIF) for management of geriatric ankle fracture.				
Methodology	Formal IRB was approved through our institution. 112 geriatric ankle fractures were reviewed between 2010-2022 managed by an individual provider at our academic based medical center. Patients were included if they were 65 years or older, met desired current procedural terminology code, and minimum follow-up of 3 months and managed by single foot and ankle surgeon. Age, Sex, Fixation, time to weight bear, number of comorbidities, smoking history, revision, mortality, complication, and follow up time were evaluated.					
Procedures						
Results	Closed nailing cohort revealed average age 84 years, time to weightbearing 5.2 weeks, follow up 24 weeks, comorbidities 4.5, complication rate 28.5% (n=4), smoking 14.3% (n=2), revision rate 0.07% (n=1), and mortality 43.0% (n=6). Open reduction internal fixation cohort revealed average age 73 years, weightbearing time 6.5 weeks, follow up 37.7 weeks, comorbidities 4.8, complication rate 21.8% (n=21), smoking 36.7% (n-36), revision rate 0.04% (n=4), and mortality rate 12% (n=12).					
Discussions	Closed nailing for geriatric ankle fractures allowed for earlier time to weightbearing compared to conventional ORIF. However, it also coincided with increased age, mortality, and greater complication rate. Despite its high complication rate both fixation types required minimal revisions. In the correct patient closed nailing can be a valuable tool for geriatric ankle fracture fixation. Larger long term functional outcomes are warranted however challenging due to this older population.					
Format	Scientific	Scientific				
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Trauma	Trauma				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-00692 Ref ID Sci-692						
Title	Healthca	Healthcare Disparities with Charcot Reconstruction					
Submit Date	07/10/2023						
Correspondent	Last Name: Full Name: Practice/Com	Meyer Cameron npany/Residend	cy Program:	Email: University o	meyerc4@upmc.edu f Pittsburgh Medical Center		
Authors	Author 1: Author 3: Author 5: Author 7:	Cameron M Chase Kiefe Jeffrey Man	•	Author 2: Author 4: Author 6: Author 8:	Amanda Marshall, DPM Rachel Warner, DPM		
Purpose		of this study w ittsburgh area.	as to compare incidence and	I management of ch	arcot neuroarthropathy among minorities within		
Methodology	We retrospectively reviewed 120 patients from two hospitals, as part of a major academic teaching center between 2013- 2022. One hospital is located in the downtown (inner city) while the other in the suburban Pittsburgh area. Patients were managed by the same attending as referral or initial consultation for diagnosis of Charcot neuroarthropathy of the foot and ankle. Patient selection was performed via international classification of disease code 10 (ICD 10) associated with Charcot's Joint of the foot.						
Procedures							
Results	demographic groups; howe intervention o similar distril wounds, and	Our population was comprised of 87.5% (n=105) non-minority whites, 73% (n=88) located in suburban areas. Similar demographic data were observed among racial groups. Operative management occurred equally (47%) among racial groups; however, it was greater in city (53% vs 45%) and specifically higher levels of reconstruction (78%). Staged intervention occurred 14.3% in minority groups and 7.6% in Caucasians. Among inner-city and suburban cohort there were similar distributions of gender, age, body mass index, diabetes and smoking. City cohort revealed greater hemoglobin A1C, wounds, and osteomyelitis at 8.17%, 65.6%, and 31.13% respectively. Mortality rates among suburban cohort were in fact greater than inner-city 24% vs 16% respectively.					
Discussions	Race does not influence diagnosis or management of charcot foot. With the same provider, innercity treatment did appear to have a greater incidence of reconstruction and lower mortality. One influence may be access to healthcare and community education. More prospective studies are warranted to better understand the influence racial and geographic differences have on management of charcot foot.						
Format	Scientific						
<b>Case Rpt Followup</b>							
Student Club	Not a Studen	t Club Poster					
Classification	Epidemiolog	y/Population S	tudy				
Level of Evidence	Level III						
Authors/Financial D	visclosures						
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Submission ID	05-00698 Ref ID Sci-698					
Title	Charcot 1	Charcot Neuroarthropathy in Diabetic Populations in Texas				
Submit Date	07/06/2023					
Correspondent	Last Name: Full Name: Practice/Com	Cole Katelyn Alexis Cole, B.S. npany/Residency Program:	Email: UTMB John	kaacole@utmb.com Sealy School of Medicine		
Authors	Author 1: Author 3: Author 5: Author 7:	Katelyn A. Cole, B.S.	Author 2: Author 4: Author 6: Author 8:	Daniel C. Jupiter, Ph.D.		
Purpose		stigate the epidemiologic trends of diabetic Cha		us and life-threatening complications. This study propathy in Texas, and the impact age has on		
Methodology	State Health procedures p patients who diagnosis wa (proximal to from inpatier	ve analysis of publicly available, deidentified d Services. This Hospital Discharge Data Public erformed in inpatient encounters in all hospitals had at least one diagnosis for diabetes, and at 1 is the patient's primary diagnosis. Amputations ankle) Data extracted included diagnoses, race, nt data, and census data. Rates were calculated p 'total counts per year was performed against th	Use Data set co s in Texas. Usine east one for Ch were coded as and gender. R per 1000 popul	ontains information on conditions diagnosed and ng ICD-9/ICD-10 codes we extracted data for narcot's ankle or foot. We noted if the Charcot either minor (ankle or below) or major ates of Charcot were estimated using counts ation and standardized by age. A Poisson		
Procedures						
Results	downward tru age group. Ra reinforces thi When age gro age groups ha minor, in pati than tripled f	ates in the 18-44 group are increasing; more that is trend, with significant increases in the incider oup is included in the regression, all years, exce ave increased rates relative to the 18-44 age group	nd counts of C an doubling fro nce rate ratio c ept 2007 show oup. It was also tation rate mor	harcot closely resembles the trends in the 45-64 m 2006 to 2016. Poisson regression for all CN ompared to 2006 for each year from 2008-2016. a significant increase relative to 2006, and all observed that amputations, both major and e than doubled and minor amputation rate more		
Discussions	This study provides insights into trends of Diabetic Charcot neuroarthropathy in Texas. Our results highlight that in recent years there has been an overall increase in age-standardized rates of CN diagnoses. The increasing rates of CN and amputations highlight the need for further research and standardized strategies for diagnosis and management.					
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Studen	t Club Poster				
Classification	Epidemiolog	y/Population Study				
Level of Evidence	Level III					
Authors/Financial Di Full Name:	sclosures Email:	Disclosure(s) selected:		Disclosed Organisation(s):		

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Submission ID	05-00700 Ref ID Sci-700					
Title	Effects of Deltoid re	Effects of Deltoid release on Varus Ankle with Total Ankle Arthroplasty				
Submit Date	08/28/2023					
Correspondent	Last Name: Kim Full Name: Jae Yoon Practice/Company/Residency	y Program:	Email: Kaiser North	jaeyoon.kim1210@gmail.com ıbay Consortium		
Authors	Author 1:     Jae Yoon, Ki       Author 3:     Caroline Ko,       Author 5:     Shiyun Zhu,       Author 7:     Shiyun Zhu,	DPM	Author 2: Author 4: Author 6: Author 8:	Frances Svidler, DPM Danny, Choung, DPM		
Purpose	The goal of the study is to qu immediate post-op, at 1 year		ase during tota	ankle arthroplasty (TAA) for varus ankle at		
Methodology	than 1 year follow-up within review was performed on we	A retrospective cohort study was performed on patients who had TAA from January 2010 to December 2019 with greater than 1 year follow-up within the Kaiser database. 496 charts were reviewed, and 45 patients were included. A radiographic review was performed on weightbearing AP ankle taken pre-operatively, post-operatively, at 1 year, and 2 year follow-up. Two sample t-tests were used to evaluate the differences between non-Deltoid release and Deltoid release groups.				
Procedures						
Results	Before surgery, tibiotalar angles were 10.7 (SD=5.49) for non-Deltoid release group and 14.9 (SD=7.17) for Deltoid release groups, differing significantly (p=0.04). Post-surgery, angles were 2.8 (SD=2.83) and 2.6 (SD=0.71) with no significant difference (p=0.4). Reduction in tibiotalar angles was significant in both groups: non-Deltoid release group by 7.9 (p<.001), Deltoid release group by 12.8 (p<.001). Deltoid release group's angular correction exceeded non-deltoid group's reduction by $4.95$ (95% CI: -9.03, -0.87), but small sample size limited confounding factors' consideration. The sole statistical difference in tibiotalar angle reduction was between Non-Deltoid and Deltoid release groups from post- to pre-surgery. There was no significant difference in tibiotalar angle measures between the two groups at other time points.					
Discussions		ieved statistically significant va oughout 2 years follow up with		and the correction was maintained without the		
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconstr	ruction				
Level of Evidence	Level III					
Authors/Financial Di						
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Submission ID	05-00705 Ref ID Sci-70:					
Title		A novel technique to correct varus deformity of the ankle by changing the order of osteotomies in transfibular total ankle arthroplasty: a surgical technique and case series				
Submit Date	07/14/2023					
Correspondent	Last Name:	Yano				
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	Practice/Con	npany/Residency Program:	Department University	of Orthopedic Surgery, Tokyo Women's Medical		
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	Author 5:	Ken Okazaki	Author 6:			
	Author 7:		Author 8:			
Purpose	technique to between the	Coronal plane deformity of >15° is a relative contraindication for total ankle arthroplasty (TAA). Authors made a novel technique to correct severe tibiotalar varus deformity of the ankle by pre-cutting the distal tibia to avoid an impingement between the tibia and talus. The aim of this study was to evaluate the radiographical and clinical outcomes after this new surgical technique.				
Methodology	2022, 16 case the tibiotalar talus relative	Among the cases in which transfibular TAA was performed using this new technique from November 2019 to October 2022, 16 cases with preoperative coronal plane varus deformity of >15° were selected for study. The coronal angulation of the tibiotalar joint was assessed preoperatively and postoperatively using the tibiotalar angle (TTA). The position of the talus relative to the tibia was assessed using the tibiotalar ratio (TTR). For the clinical assessment, the self-administered foot evaluation questionnaire (SAFE-Q) was used preoperatively and at the last follow-up to evaluate clinical outcomes.				
Procedures						
Results	[IQR; 19.0, 2 significant di	The median follow-up duration was 12.4 (Interquartile range [IQR]; 6.8, 29.2) months. The preoperative median TTA (20.3 [IQR; 19.0, 24.2])° decreased significantly at the latest follow-up (1.9 [IQR; 0.1, 4.3])° ( $p < 0.01$ ). Although there was no significant difference in the TTR during the study periods, the number of the cases within the normal range increased from 8 (50.0%) preoperatively to 11 (68.8%) at the latest follow-up. All subscales of SAFE-Q improved significantly at the latest follow-up.				
Discussions		The new surgical technique in transfibular TAA can correct severe coronal-plane tibiotalar varus deformity without additional procedures and achieve satisfactory clinical outcomes.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Studen	tt Club Poster				
Classification	Rearfoot and	Ankle Reconstruction				
Level of Evidence	Level IV					
Authors/Financial Di						
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Submission ID	05-00708			Ref ID Sci-708		
Title		Does weight bearing status play a role in the incidence of a symptomatic VTE in patients treated surgically and conservatively for an acute Achilles tendon rupture?				
Submit Date	08/11/2023					
Correspondent	Last Name: Kim					
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	Practice/Company/Residen	cy Program:	Kaiser North	hbay Consortium		
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	Author 5: Liisa, L, Ly	on	Author 6:			
	Author 7:		Author 8:			
Purpose		te of a symptomatic venous emb th early weight-bearing (EWB)		fter an acute Achilles tendon rupture (ATR) al weight-bearing (TWB).		
Methodology	in Northern California Kai	This retrospective case-control study identified patients with an ATR that was managed within 10 days of the initial injury in Northern California Kaiser from January 2015 to January 2021. Exclusion criteria included: final follow-up within 2 months, previous symptomatic VTE's, pregnancy, anticoagulation medication, and previously treated with ATR.				
Procedures						
Results	A cohort of 2776 patients was identified and a random subset of 300 patients were selected for the study. Among the 206 patients meeting the criteria, seven developed VTE; five were from the EWB group while two were from the TWB group. Additionally, 177 of the 206 patients had documented range of motion protocols with four of them developing a VTE. Two of the VTE patients were in the early range of motion group while the other two were in the traditional range of motion group. When comparing surgical versus conservative management, six of the 122 patients that were treated conservatively experienced a DVT.					
Discussions	not clearly illustrate the po		ng and range of	s lower than the reported at 3.4%. This study did motion of VTE incidence. Unexpectedly, the surgical group.		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Physical Therapy/Rehabilit	ation				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-00710			Ref ID Sci-710		
Title		l utility of nasal screen tremity wound culture		elation of positive nasal		
Submit Date	07/19/2023					
Correspondent	Last Name: Harada Full Name: Arden M. Ha Practice/Company/Residenc		Email: ardenharada Jefferson Health Northeast	@gmail.com		
Authors	Author 1: Arden M. Ha Author 3: Author 5: Author 7:	arada DPM	Author 2: Robert Nort Author 4: Author 6: Author 8:	on DPM		
Purpose	in lower extremity wound cu	vas to determine the predictive v ltures. Secondarily, this study a verage for lower extremity wou	imed to identify if nasal swab	in screening for positive MRSA could be a useful result in		
Methodology	system servicing the Norther patient population was identi component of MRSA PCR. I and normal (negative) results	A retrospective chart review was conducted between January 2021 to July 2022 at 3 campuses within a single hospital system servicing the Northeast Philadelphia area. Using the electronic medical record data review system (SlicerDicer), patient population was identified as final MRSA PCR and categories included active infection for MRSA and lab component of MRSA PCR. Data was separated by nasal source and lower extremity source along with abnormal (positive) and normal (negative) results. Statistical analysis was performed using Microsoft Excel to calculate the predictive values between the two groups of specimen sources.				
Procedures						
Results	abnormal (positive) and 313	normal (negative) in nasal grou 69 normal. Positive predictive	p. 90 total patients were ident			
Discussions	extremity sources. While nas	In this study, nasal MRSA PCR screening was helpful less than half of the time (PPV 49.05%) to predict MRSA in lower extremity sources. While nasal MRSA screening is a standard for isolation protocols, the guidance of lower extremity wound treatments including antibiotics should be based on cultures obtained from the lower extremity source.				
Format	Scientific					
<b>Case Rpt Followup</b>	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dise	ases				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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AS S				
ain Igh ation				
nce from led and				
Among 40 patients, the average midfoot radiation exposure and fluoroscopy times were $9.5\pm5.39$ mGy and $256.64\pm130.67$ seconds, respectively. There existed no statistically significant difference in radiation exposure (p=0.32) or fluoroscopy times (p=0.71) among the different midfoot constructs. There existed a statistically significant relationship between radiation exposure with weight (p=0.01) and body mass index (p=0.03) and number of stages (p=0.04). Similarly, a relationship existed between fluoroscopy time with weight (p=0.02), body mass index (p=0.03), and number of beams/screws (p=0.003).				
Due to the complexity of Charcot reconstruction coupled with multiple robust types of fixation, surgeons must remain cognizant of fluoroscopy usage, and apply the As Low as Reasonably Achievable principles when able. With such levels of sustained radiation, providers who routinely perform Charcot reconstruction should consistently practice wearing personal protective equipment to protect against radiation.				
isation(s):				
th &				

Submission ID	05-00769				Ref ID Sci-769	
Title		Implementation of a Multimodal Analgesia Pathway in Forefoot Surgery: A Retrospective Case Series				
Submit Date	08/02/2023					
Correspondent	Last Name: Black					
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Authors	Author 1:Alexandra EAuthor 3:Sara J. HylaAuthor 5:Author 7:	3lack Ind, PharmD, BCCCP	Author 2: Author 4: Author 6: Author 8:	Son Tran, DF Amanda Qui	PM AACFAS sno, DPM FACFAS	
Purpose					foot surgery. We hypothesize nsumption and improved patient	
Methodology	Patients that underwent first ray surgery received Acetaminophen 975mg PO and Celecoxib 400mg PO pre-operatively. Intra-operatively, a Mayo block was administered containing 1mL Dexamethasone with 14mL 0.5% Ropivacaine prior to incision. Post-operatively, patients were prescribed Meloxicam 15mg qAM for 14 days and Acetaminophen 500mg or 650mg Q6H for 14 days. A detailed pre-operative, intra-operative and post-operative protocol was established with the assistance of a multi-disciplinary team involving pharmacy, anesthesiology and podiatry. Patients completed a questionnaire at initial post-operative visit, evaluating need for rescue medication, emergency room visits, medication side effects, and visual analogue scale scores.					
Procedures						
Results	had a first metatarsophalang	an age of 47 were included. 5 pa geal joint fusion, and 1 underwer rrse effects. Reported low visual	nt a distal metata	arsal cheilecton	y. 0/7 patients required opioids,	
Discussions		algesia pathway in forefoot surg nption. Further studies should in procedures.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D						
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Submission ID	05-00810			Ref ID Sci-810		
Title		No Seasonal Variance Found Between Peripheral Arterial Disease and Infection- Related Transmetatarsal Amputations				
Submit Date	08/03/2023					
Correspondent	Last Name: Kipp					
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	Practice/Company/Residen	cy Program:	Atrium Healt	n Wake Forest Baptist		
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	Author 5: Ashleigh W	/. Medda DPM, FACFAS	Author 6:			
	Author 7:		Author 8:			
Purpose	literature that the most com winter. The purpose of this	mon season for diabetic-related	amputations is s s a trend betwee	emity amputation. It has been reported in the pring, whereas non-diabetic amputations in the n the pathology necessitating a transmetatarsal		
Methodology	A retrospective chart review was conducted to identify patients who underwent a transmetatarsal amputation for infection, peripheral arterial disease, or infection in the setting of peripheral arterial disease between January 1, 2020, and December 31, 2021, at a single Level 1 academic medical trauma center. 86 patients with 87 operative extremities were included in this study.					
Procedures						
Results	occurred (p=0.96). Howeve		cant difference	son that the transmetatarsal amputations n hypertension between the seasons (p=0.029). all (p=0.0017).		
Discussions	infection and analyses the s peripheral arterial disease a did however have statistica	This is the first study to our knowledge that breaks down the causes of amputations between peripheral arterial disease and infection and analyses the seasonal variance between the two. We found no statistically significant difference between peripheral arterial disease and infection related transmetatarsal amputations based on seasonal variance. Non-cardiac CRP did however have statistically significantly higher values in the fall. We recommend future studies investigate the seasonal variance URP levels.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
Authors/Financial Di	sclosures					
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Submission ID	05-00829				Ref ID Sci-829	
Title		Post-Operative Magnetic Resonance Evaluation of Anterior Talofibular Ligament following Arthroscopic Brostrom Procedure: Analysis and Outcomes of 40 Repairs at 12 Months				
Submit Date	08/07/2023					
Correspondent	Last Name: Ba	dell				
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	Practice/Company	Residency	Program:	Florida Orth	opedic Foot & Ankle Center	
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	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	fails, surgical corre evaluation of the a	Lateral ankle sprains are one of the most common orthopedic injuries throughout the body. When conservative treatment fails, surgical correction is often performed using either open or arthroscopic techniques. We hypothesize that MRI evaluation of the arthroscopic Brostrom repair will show intact repair and normal thickness of the anterior talofibular ligament (ATFL) at 1 year, with statistically significant improvement of patient satisfaction scores.				
Methodology	as well as compari radiologist perform institution all perfo operative Foot Fur	Post-operative MRI was utilized at minimum 1-year follow-up to evaluate the integrity of the arthroscopic brostrom repair, as well as comparison of ATFL thickness to literature validated average thickness. A musculoskeletal fellowship trained radiologist performed all MRI reads. In addition, three fellowship trained foot and ankle specialists from a single institution all performed measurements of the ATFL. Surgical satisfaction, Karlsson-Peterson (KP), and pre and post- operative Foot Function Index (FFI), American Orthopedic Foot and Ankle (AOFAS) hindfoot scores, and Visual Analog Scale (VAS) were also measured using unpaired t-tests.				
Procedures						
Results	Pre-operative FFI, respectively. Surgi	All repairs were shown to be intact at minimum 1-year follow-up via MRI evaluation, with ATFL thickness of 2.11mm. Pre-operative FFI, AOFAS, and VAS were 54.9, 46.4, and 7.1 respectively. Post-Operative scores were 11.0, 91.7, and 1.3 respectively. Surgical satisfaction was 88.2, KP was 75.3. Pre and post-operative scores were shown to be statistically significant, $p < 0.05$ . No significant difference in demographic data was observed at 1 year.				
Discussions			rs evidence that the arthroscopi normal thickness at 1 year post-		air provides patients with good outcomes as	
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student Clul	Poster				
Classification	Rearfoot and Ankl	e Reconstr	uction			
Level of Evidence	Level IV					
Authors/Financial Di	sclosures					
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Submission ID	05-00836				Ref ID Sci-836	
Title		A Comparative Radiographic Analysis of Subtalar Joint Arthrodesis Fixation: Traditional Static Screw Fixation vs. Nitinol Continuous Compression Screw				
Submit Date	08/16/2023					
Correspondent	Last Name:	Babu				
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	Practice/Com	pany/Residen	cy Program:		ine Wheeling Hospital Foot And Ankle urgical Fellowship	
Authors	Author 1:	Sriya, S, Ba	ıbu, DPM, AACFAS	Author 2:	Austin, W, Vonasek, DPM, AACFAS	
	Author 3:	Varsha Aulu	uru, DPM	Author 4:	Mark H. Hofbauer, DPM, FACFAS	
	Author 5:			Author 6:		
	Author 7:			Author 8:		
Purpose	taken for initi screw fixation	The aim of this study is to determine a superior fixation method for subtalar joint (STJ) arthrodesis by comparing the time taken for initiation of bony union between two-screw static fixation (SSF) versus single nitinol continuous compression screw fixation (CCSF). Determining superior fixation will help optimize postoperative recovery, facilitate weight-bearing, and expedite patients' return to normal activities.				
Methodology	A retrospective analysis was conducted on a cohort of 14 patients with STJ arthritis secondary to rigid rearfoot deformities (ages 30-80) who underwent STJ arthrodesis by a single surgeon, receiving two headless 7.0mm screws (SSF, n=7) or a single nitinol screw (CCSF, n=7). Postoperative radiographs were examined by the surgeon to assess time taken for signs of STJ bony union visualization.					
Procedures						
Results	to 7 weeks fo 0.004773). The union (p = 0.0	Postoperatively, initial signs of union on radiographs were observed from 6.5 weeks to 14 weeks for the SSF group and 6 to 7 weeks for the CCSF group. The results indicate a significant difference between the two groups (t-value= $3.07959$ , p = $0.004773$ ). The CCSF group exhibited a significantly narrower range in weeks required to observe radiographic bony union (p = $0.0203$ ). The SSF group also showed radiographic signs of bone resorption and had one delayed union, and one surgical dehiscence noted.				
Discussions	undergoing S static fixation	CCSF demonstrates shorter time to begin bony union, suggesting superiority in promoting early healing for patients undergoing STJ arthrodesis. It offers predictable healing times and greater reproducibility of union. Bone resorption from static fixation increases risk of pseudoarthrosis, which can be combated by nitinol continuous compression. Considering the cost implications of nitinol is crucial in clinical decision-making.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Recons	struction			
Level of Evidence	Level III					
Authors/Financial D			$\mathbf{D}^{\mathbf{C}}$			
Full Name:	Email:		Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-00837			Ref ID Sci-837
Title		ght Bearing Status on H rthrodesis: A Correlatio		irst Metatarsal
Submit Date	08/10/2023			
Correspondent	Last Name: Mosseri Full Name: Ashley, V, M Practice/Company/Residence	Mosseri, DPM, MS, AACFAS cy Program:	Email: ashley.mos Ankle and Foot Associates	sseri@gmail.com s, LLC.
Authors	Author 1: Ashley, V, M Author 3: Author 5: Author 7:	Mosseri, DPM, MS, AACFAS	Author 2: Lee, M, H Author 4: Author 6: Author 8:	lad, DPM, FACFAS
Purpose	The postoperative management of First Metatarsal phalangeal joint (MPJ) arthrodesis is aiming to allow patients to resume normal activities at the earliest. We present an analysis between the time of which patients began full weight bearing in a shoe (FWB) in relation to complete fusion after first metatarsal phalangeal joint (MPJ) arthrodesis (TTF).			
Methodology	A retrospective analysis looking at 186 feet that underwent MPJ arthrodesis were included. Patients' FWB (weeks), TTF (weeks), fixation technique, and comorbidities were evaluated. The healing rate of the joint was measured through radiographic assessments. A t-test was performed comparing the surgeon's evaluation of complete fusion as well as the primary author to avoid bias. One way ANOVA Regression test was performed to assess if there is a significant correlation between TTF and time to FWB. Statistical significance was set at the 5% (p<0.05) level.			
Procedures				
Results	Amongst the 186 feet, fixation consisted of 48 with Dorsal Plate, 93 with Dorsal plate and Interfragmentary screw, 6 with interfragmentary screw and 28 with other. No significant difference found between rate to fusion and fixation technique. Mean FWB was 7.9 weeks and mean TTF was 9.55 weeks. A moderate positive correlation between TTF and FWB (0.4469). The study suggests the correlation to be significant (F-value= 45.93, p-value= 0.412).			
Discussions	Early weight bearing may positively influence MPJ arthrodesis healing rate and allows patients to resume normal activities sooner. The early introduction of controlled weight bearing appears to promote bone remodeling and facilitate joint fusion, leading to quicker recovery and improved functional outcomes.			
Format	Scientific			
<b>Case Rpt Followup</b>				
Student Club	Not a Student Club Poster			
Classification	Forefoot Reconstruction			
Level of Evidence	Level III			
Authors/Financial Di	sclosures			
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):
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Submission ID	05-00841			Ref ID Sci-841		
Title		A Retrospective Analysis of Fixation Methods for First MPJ Arthrodesis: A Comparative Study on Fusion Rates in 147 Patients				
Submit Date	08/10/2023					
Correspondent	Last Name: Mosseri Full Name: Ashley, V, M Practice/Company/Residence	Mosseri, DPM, MS, AACFAS cy Program:		ashley.mosseri@gmail.com Associates, LLC.		
Authors	Author 1: Ashley, V, M Author 3: Author 5: Author 7:	Mosseri, DPM, MS, AACFAS	Author 2: Author 4: Author 6: Author 8:	Lee, M, Hlad, DPM, FACFAS		
Purpose	controversial which fixation		with for fusion ra	al treatment for hallux rigidus and it's te. Our aim is to compare three different adergoing MPJA.		
Methodology	A comprehensive review of medical records from our private practice group from July 2019 to December 2023. The study population comprised 147 patients who underwent MPJA using one of three fixation methods: (1) interfragmentary screws, (2) dorsal plate and interfragmentary screw, (3) dorsal plate. The primary outcome measure was the rate of fusion, assessed through radiographic evidence. T test was performed to assess if there is a significant correlation between time to arthrodesis and method of fixation. Statistical significance was set at the 5% ( $p<0.05$ ) level.					
Procedures						
Results	147 feet collected each group (104 female, 43 male) had an average RF of: Plate fixation (n=48) 9.02 weeks, Plate and interfragmentary screw fixation (n=93) 12.534 weeks and Interfragmentary screws (n=6) 9.833 weeks. A significant difference between the rate of fusion among the three fixation methods was not appreciated (P value 0.325).					
Discussions	Findings suggest there is no significant difference in fixation technique for metatarsal phalangeal joint arthrodesis. Other factors need to be taken into consideration such as comorbidities and post operative protocol (early weight bearing). Further studies with larger sample sizes and taking into consideration other factors is warranted to corroborate and extend these findings.					
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level III					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-00849				Ref ID Sci-849
Title		Two-Year Outcomes After Total Ankle Replacement with a Novel Fixed-Bearing Implant by a Single Surgeon Non-consultant or Inventor			
Submit Date	08/16/2023				
Correspondent	Last Name: Ekladios Full Name: Joshua M. Ek Practice/Company/Residency	cladios DPM MS / Program:	Email: Florida Orth	josh.eklad76@ opedic Foot & An	-
Authors		cladios DPM MS ttom DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Jay S. Badell I	DPM AACFAS
Purpose	Historically the designs of ea	Total ankle arthroplasty continues to gain popularity amongst surgeons and patients as an alternative to arthrodesis. Historically the designs of early implants were plagued with complications and frequently abandoned. Since that time the procedure and materials have undergone significant advancements in both surgical approach as well as design and function of the available implants.			
Methodology	40 consecutive patients who received a semi-constrained prosthesis with a unique fixed bearing polyethylene insert were identified. Minimum follow up was two years. Demographic, social, and past medical data was retrospectively reviewed. Concomitant procedures were also recorded. Radiographic analysis included lateral ankle radiograph post-operative range of motion with maximum dorsiflexion and maximum plantarflexion. Clinical outcomes included VAS, FFI and AOFAS scores.				
Procedures					
Results	Lateral radiographs taken at minimum two year follow-up showed mean maximum dorsiflexion of 11.8 degrees and plantarflexion of 13.9 degrees. VAS, FFI, and AOFAS scores improved from 8.1, 92.9, and 44.8 to 1.4, 15.3, and 90.1 post-operatively, respectively. A total of 2.5%(n=1) required revision surgery for poly failure, 5.0%(n=2) underwent local wound care in the office setting for slow healing incisions post-operatively and healed without complication. Overall survivorship was 97.5% at the average follow up of 2 years.				
Discussions	Although this is a small samp	l survivorship from 90-100% w ole size, our data shows a 97.5% significant functional outcome s	% survivorship	at two years post-	operatively with favorable
Format	Scientific				
<b>Case Rpt Followup</b>	24				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconstr	ruction			
Level of Evidence	Level IV				
Authors/Financial Dis	sclosures				
	Email:	Disclosure(s) selected:			Disclosed Organisation(s):
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Submission ID	05-00854			Ref ID Sci-854	
Title		Incision Healing and Time to Weightbearing With and Without Use of Adhesive Retention Suture in Total Ankle Arthroplasty			
Submit Date	08/30/2023				
Correspondent	Last Name: Ekladios Full Name: Joshua M. E Practice/Company/Residenc	kladios DPM MS y Program:	Email: Florida Ortho	josh.eklad76@gmail.com opedic Foot & Ankle Center	
Authors		kladios DPM MS ottom DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Jay S. Badell DPM AACFAS	
Purpose	Total ankle arthroplasty (TAA) is a useful treatment option for end-stage post-traumatic or primary ankle arthritis. A common complication however is dehiscence of the anterior incision. Weightbearing is also usually recommended once the incision is fully healed. Adhesive suture retention devices (ASRDs) can assist with linear closure of surgical and traumatic wounds under tension. This retrospective comparative study evaluates the use of ASRDs on TAA patients' incision healing time and time to full weightbearing.				
Methodology	50 TAA patients between 2021 and 2023 were divided equally into 2 groups: with and without ASRDs. Demographics included age, BMI, implant technique, comorbidities, complications, and adjunctive soft tissue/osseous balancing procedures. Results calculated included healing time of the incision, time to full weightbearing, and incision length (cm). Preoperative and postoperative AOFAS, FFI, and VAS scores were also recorded.				
Procedures					
Results	Mean follow-up for the group without ASRDs was 27.7 months, and 4.3 months in the group with ASRDs. Mean incision healing time and return to weightbearing was 37.1 days (SD 4.65) in the group without ASRDs, with average incision length 9.1 cm (SD 1.995). Mean healing time was 19.9 days (SD 3.29), with average incision length 7.4 cm (SD 0.764), in the group with ASRDs. This shows a statistically significant decrease ( $p < 0.05$ ) in incision length, healing time, and return to weightbearing in the ASRD group. There was statistically significant improvement ( $p < 0.05$ ) of postoperative AOFAS, VAS, and FFI scores when compared to preoperative values within either group.				
Discussions	Our data demonstrates utiliz healing time.	ing ASRDs on TAA incisions ca	n greatly help	decrease time to full weightbearing and incision	
Format	Scientific				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Reconst	ruction			
Level of Evidence	Level IV				
Authors/Financial Dis					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-00859			Ref ID Sci-859	
Title		Chronic Heavy Alcohol Consumption Impairs the Ability of Demineralized Bone Matrix to Support Osteoinduction			
Submit Date	08/16/2023				
Correspondent	Last Name: Hair Full Name: Amida Kuah Practice/Company/Residency F	Program:	Email: Hospital Epis	amidakuah@gmail.com copal San Lucas Ponce	
Authors	Author 1:Amida Hair KuAuthor 3:Russell T. TurnAuthor 5:Author 7:		Author 2: Author 4: Author 6: Author 8:	Urszula T. Iwaniec PhD Carlos Arroyo DPM	
Purpose		nisms: by lowering osteoindue	ctive capacity, p	r graft incorporation and bone healing by two botentially by reducing deposition of growth aling.	
Methodology	We performed 3 experiments using 2 osteoinduction models. The first was a demineralized allogeneic bone matrix model in which DBM was harvested from donor rats fed a control diet or an ethanol diet and then implanted into recipient rats fed control or ethanol diets. The second model, a critical size bone defect was created in fibula of recipient rats, and DBM implants harvested from control or ethanol-fed donors were used to close the defect.				
Procedures					
Results	IGF-1 was 38% lower in bone matrix harvested from ethanol-fed rats compared to control rats. DBM bone volume was 23% lower in DABM recovered 6 weeks following implantation into rats fed control diet. Bone volume was greatest in DBM from control donor rats implanted into control recipient rats, intermediate in DBM from control donor rats implanted into ethanol-consuming recipient rats and lowest in DABM from ethanol-consuming donor rats implanted into ethanol-consuming recipient rats. Ethanol consumption by donor resulted in 9% lower DBM bone volume whereas PTH treatment resulted in 35% higher DBM bone volume in the critical size defect model.				
Discussions		Alcohol consumption may impair osteoinduction in allographs and this negative outcome may be worsened by alcohol intake during graft incorporation and bone healing. PTH administration acts in part by increasing skeletal production of IGF-1			
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Biomechanics and Anatomy				
Level of Evidence	Level I				
Authors/Financial E					
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Carlos Arroyo DPM	carroyoromeu@gmail.com	I/We have nothing to disclo	se		

Submission ID	05-00866			Ref ID Sci-866
Title		esamoid Frontal Plane A Frontal Plane Rotation	9 (	A) for Accurate Quantification apidus Bunionectomy
Submit Date	08/24/2023			
Correspondent	Last Name: Gahr Full Name: Kamden Practice/Company/Residen	cy Program:	Email: Rush Univers	kamdengahr22@gmail.com sity Medical Center
Authors	Author 1:Paz AbergeAuthor 3:Author 5:Author 7:Author 7:	I, DPM, AACFAS, MPH	Author 2: Author 4: Author 6: Author 8:	Howard A Stone DPM FACFAS
Purpose		solute quantitative frontal plane c mity during a Lapidus Bunionecto		operatively in patients who have g a newly created angle - Sesamoid Frontal
Methodology	A retrospective review of 41 patients with a total of 60 feet who did not have HAV deformity. Of the patients, 30 were female and 11 were male, totaling 42 female feet and 18 male feet. The average age was 45 years old. AP and Axial Sesamoid x-rays were evaluated. All images were taken by the same x-ray technician. Four measurements were studied: The Tibial sesamoid position, IM angle, HAV angle, and Sesamoid Frontal Plane Angle (SFPA). The SFPA measures the angle perpendicular to the bisection of the sesamoids. Inclusion criteria: patients without an HAV deformity with skeletally maturity. Exclusion criteria included any juveniles, abnormal HAV angle, IM angle, SFPA, or tibial sesamoid position (TSP).			
Procedures				
Results	60 total feet in 41 patients A 86.92 °	Average HAV angle- 7.72 ° Avera	ige IM Angle- 6	5.96 ° Average TSP- 2.88 ° Average SFPA-
Discussions	This study calculated the proposed Sesamoid Frontal Plane Angle (SFPA) in 60 feet without HAV deformity. We are confident this angle is an adequate representation of normal frontal plane rotation within patients without HAV. TSP, HAV, and IM angles in our patient population are within accepted degrees and positions for patients without HAV deformity. A comparison between a patients foot with HAV deformity and the accepted 87 degree SFPA angle can be used pre- operatively to quantify how much frontal plane correction is needed given this angle intraoperatively during a Lapidus procedure.			
Format	Scientific			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Student Club Poster			
Classification	Forefoot Reconstruction			
Level of Evidence	Level III			
Authors/Financial Di	sclosures			
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Submission ID	05-00877			Ref ID Sci-877	
Title	CT scanographic a	nalysis of sympto	natic limb lengt	h discrepancy	
Submit Date	08/15/2023				
Correspondent	Last Name: Fleischman Full Name: Alex,Scott,I Practice/Company/Residen	Fleischman, DPM cy Program:	Email: Stony Brook	Alex.Fleischman@stonybrookmedicine.edu University Hospital	
Authors	Author 1:Alex, S, FleAuthor 3:Wendy, YouAuthor 5:Author 7:	ischman, DPM ng, DPM	Author 2: Author 4: Author 6: Author 8:	Michael, An, DPM	
Purpose	longer left limb than right l accurate CT scanogram dur with symptomatic LLD thro	Studies suggested that most, but not a significant amount, of symptomatic limb length discrepancy (LLD) cases have a longer left limb than right limb. Such studies employed the use of a tape measure or plain radiographs instead of the more accurate CT scanogram during analysis. Therefore, this study aims to confirm the determined side dominance of patients with symptomatic LLD through CT scanogram. Additionally, this study will determine if femoral and/or tibial length is responsible for the LLD side dominance.			
Methodology	and December 2017 were r	400 veterans who received a CT scanogram with a diagnosis of LLD and associated symptoms between December 2007 and December 2017 were retrospectively reviewed. The length of the femur, tibia, and total length of both limbs were recorded. Scanograms were excluded if surgery to the lower extremities were performed.			
Procedures					
Results	(p<0.05, left=47.70cm, righ (p>0.05, left=38.25cm, righ	The average age of analyzed patients was 62 years old. The left femur was significantly longer than the right femur ( $p<0.05$ , left=47.70cm, right=47.62cm). The left tibia was greater than, but not significantly, longer than the right tibia ( $p>0.05$ , left=38.25cm, right=38.22cm). The total left limb was significantly longer than the right limb ( $p<0.05$ , left=85.95cm, right=85.85cm).			
Discussions	the femoral length different	The data in this report confirms the side dominant findings reported in similar studies. Additionally, this study notes that the femoral length differential is the significant osseous component contributing to the LLD. This conclusion warrants further discussion of conservative treatment of LLD tailored to the femur.			
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Biomechanics and Anatomy	y			
Level of Evidence	Level II				
Authors/Financial					
Full Name:	Email:	Disclosure(s		Disclosed Organisation(s):	
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Submission ID	05-00894			Ref ID Sci-894	
Title		Clinical trial to evaluate the effectiveness of joint range of motion measurement using AI related 3D sensor			
Submit Date	08/18/2023				
Correspondent	Last Name: lee				
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	Practice/Company/Residen	cy Program:	Chungnam na	ational University Sejong Hospital	
Authors	Author 1: gisoo lee		Author 2:	Brain K. Hong	
	Author 3:		Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	measurements have been m	Measurement of joint range of motion is an important area in diagnosis and treatment. However, until now, most of the measurements have been made using conventional devices. Therefore, this study measured using the 3D sensor-based artificial intelligence (AI) related device to validate that it is non-inferior compared to the conventional measurement method, Goniometer.			
Methodology	people who visited our hos using the 3D sensor-based consecutively, and the valu	pital. One group was measured us artificial AI-related device. The 3	sing a Goniome D sensor-based of the Goniome	subjects. This study was conducted on 60 ter device, while the other group was measured artificial AI-related device measured twice ter device were measured once each by two lyzed.	
Procedures					
Results	There was no significant difference in almost results in the shoulder and hip joints in the two groups. However, while there were no significant differences between twice values by the 3D sensor-based artificial AI-related device, there were significant differences between the values measured by using the Goniometer device. However, the values of the shoulder joint by using the 3D sensor-based artificial AI-related device have errors in adduction motion.				
Discussions		The measurement of the range of motion of a joint using the 3D sensor-based artificial AI related device is considered a good method to make up the measurement method using conventional devices.			
Format	Scientific				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Biomechanics and Anatom	у			
Level of Evidence	Level III				
Authors/Financial D	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-00896			Ref ID Sci-896	
Title	Pain Control Meth	ods after Ankle Fractur	e Surgery	with a Peripheral Nerve Block	
Submit Date	08/18/2023				
Correspondent	Last Name: Lee				
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	Practice/Company/Residen	ncy Program:	Chungnam n	ational University Sejong Hospital	
Authors	Author 1: gisoo lee		Author 2:	Brian K. Hong	
	Author 3:		Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	combined with dexamethas	This study aimed to compare the post-operative pain control efficacy of peripheral nerve blocks with ropivacaine/lidocaine combined with dexamethasone and peripheral nerve blocks with only ropivacaine and added patient-controlled analgesia in patients with ankle fractures.			
Methodology	This study included patients aged 20–70 years surgically treated for ankle fractures. The patients were divided into group A ( $n = 35$ ), wherein pain was controlled using patient-controlled analgesia after lower extremity peripheral nerve block, and group B ( $n = 35$ ), wherein dexamethasone was combined with the anesthetic solution during peripheral nerve block. In both groups, ropivacaine/lidocaine were used as the anesthetic solution for peripheral nerve block, and this peripheral nerve block was performed just before ankle surgery for the purpose of anesthesia for surgery. Pain (visual analog scale), patient satisfaction, and side effects were assessed and compared between the two groups.				
Procedures					
Results	A postoperatively. The effe	The patients' demographic data were similar between groups. Pain scores were significantly lower in group B than in group A postoperatively. The effect of pain control due to the continuation of anesthesia was also significantly prolonged. Satisfaction scores were significantly higher in group B. There were no anesthesia-related complications in either group.			
Discussions	Dexamethasone as adjuvan nerve blocks for patients w		ely control pai	n when performing surgery using peripheral	
Format	Scientific				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Neurological/Peripheral No	erve Disorders			
Level of Evidence	Level II				
Authors/Financial D	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-00897			Ref ID Sci-897		
Title	Invasive Bunion Sur	Complications Associated with a Stemmed Intramedullary Device for Minimally Invasive Bunion Surgery: Analysis of the Food and Drug Administration Manufacturer and User Facility Device Experience Database				
Submit Date	08/19/2023					
Correspondent	Last Name: Roukis Full Name: Thomas S Ro Practice/Company/Residency	ukis, DPM, PhD, FACFAS <sup>7</sup> Program:	Email: UF Health Ja	Thomas.Roukis@jax.ufl.edu cksonville		
Authors		Szajna, DPM ino, DPM, MS, FACFAS	Author 2: Author 4: Author 6: Author 8:	Thomas S. Roukis, DPM, PhD, FACFAS		
Purpose	data demonstrating an accept FDA 510k cleared device. Us	Novel stemmed intramedullary devices for minimally invasive bunion surgery have been released for use without clinical data demonstrating an acceptable incidence of complications. The FDA MAUDE database contains complications for each FDA 510k cleared device. Use of this database to explore complications associated with a stemmed intramedullary device for minimally invasive bunion surgery has not been performed. We sought to analyze these complications.				
Methodology	The FDA MAUDE database MINIbunion® 3D Minimally		rom inception to	o 24 May 2023 for complications specific to the		
Procedures						
Results	(77.2%). Hardware complica and dehiscence/infection (17.	tions occurred in 77.1% and co	nsisted of screw d in 62.9% with	occurred during the post-operative period v breakage (31.5%), mal/non-union (19.9%), n the most common reasons being screw/loose		
Discussions	Screw breakage, mal/non-uni submissions. This device app responsible for the incision d drawn from the data, this stud	Our analysis of the FDA MAUDE database for complications specific to this device has identified consistent problems. Screw breakage, mal/non-union, and dehiscence/infection were responsible for revision surgery in nearly two-thirds of submissions. This device appears to have limited stability. The incisional approach and osteotomy techniques are likely responsible for the incision dehiscence/infections encountered. While no direct conclusions regarding this system can be drawn from the data, this study demonstrates the potential need for a number of design modifications to reduce the known complications encountered with its use.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction Level IV					
Level of Evidence						
Authors/Financial D Full Name:	isclosures Email:	Disalogura(s) salagtad		Disalogad Organization (a);		
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Jason A. Piraino, DPM, MS, FACFAS	Jason.Piraino@jax.ufl.edu	I/We have nothing to disclos	e			

Submission ID	05-00899 Ref ID Sci-899					
Title	NSAIDs E cases	NSAIDs Effect on Lapidus Arthrodesis Nonunion Rate: A Retrospective Review of 101 cases				
Submit Date	08/31/2023					
Correspondent	Last Name: Full Name: Practice/Comp	Mason Avery, J, Mason any/Residency F		Email: Ascension S	•	016@gmail.com
Authors	Author 1: Author 3: Author 5: Author 7:	Avery, J, Mason Ryan, M, Murp	n, DPM hy, DPM, FACFAS	Author 2: Author 4: Author 6: Author 8:		tterson, DPM, FACFAS, CWPS odenizer, DPM, FACFAS
Purpose	Due to an incre affecting surgi	Lapidus arthrodesis has been widely used in foot and ankle surgery for the treatment of hallux abductovalgus deformity. Due to an increase in opioid usage amongst Americans, the pursuit of alternative pain management options, while not affecting surgical outcomes, is priority. The goal of the present retrospective study was to analyze if using NSAIDs (ibuprofen) as postoperative analgesics increased the incidence of nonunion rates for Lapidus arthrodesis.				
Methodology	All procedures for postoperati	A retrospective review was performed on 101 patients who underwent Lapidus arthrodesis from January 2017 to July 2022. All procedures were performed by 3 board certified surgeons using plate and screw fixation. Patients received ibuprofen for postoperative analgesic and were non weight-bearing for 6 weeks. Radiographs were reviewed by the surgeons at 6 months to determine union vs non union. Covariates included sex, age, diabetes, nicotine usage and BMI.				
Procedures						
Results	immediate or p	The overall nonunion rate observed was 6.9% or 7 patients. Of the 7 patients, all were female with four having a history of immediate or previous nicotine usage and 1 was diabetic. Two patients went onto revision due to recurrence and pain with successful arthrodesis.				
Discussions	supports NSAl which work as historical rang	The overall nonunion rate was 6.9% or 7 patients. Patients were treated with ibuprofen as primary analgesic. Literature supports NSAIDs as a contraindication to postoperative analgesic for arthrodesis given its inhibition of prostaglandins which work as an inflammatory mediator. The retrospective study showed a nonunion rate of 6.9% which is inline with historical ranges of 3.5-12% for nonunion rates with Lapidus. The authors conclude that NSAIDs may be used for postoperative analgesic following Lapidus arthrodesis with no increase in nonunion rates.				
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student	Club Poster				
Classification	Forefoot Reco	nstruction				
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
Full Name:	Email:		Disclosure(s) selected:			Disclosed Organisation(s):
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Submission ID	05-00905	05-00905 Ref ID S				Ref ID Sci-905
Title		Nitinol Memory Staple System for Akin osteotomies at the Hallux: Radiographic and Patient Reported Outcome Measures				
Submit Date	08/24/2023					
Correspondent	Last Name: Full Name: Practice/Com	Massa Dr. Eric Massa, I pany/Residency Pr		Email: Ankle and F	emassa6@ya oot Associates	hoo.com
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	Author 5: Author 7:	Mark Moldavsky	y, M.S.	Author 6: Author 8:		
Purpose	friendly and p	provide initial dyna				pe memory staples are user eported VAS outcomes review
Methodology	as well as Ha	64 patients from three sites were included. Pre-op and post-op Foot and Ankle VAS and patient satisfaction were assessed as well as Hallux Valgus Angle (HVA), Intermetatarsal Angle (IMA), and Interphalangeal Angle (IPA). Follow up was 8 weeks post-surgery. Student t-test assuming equal variance (p≤0.05) was used to determine significant differences.				
Procedures						
Results	and 7 (11%) patient had 21 and a Weil os with the surge IMA, and IPA	15 (23%) patients were male and 49 (77%) were female with an average BMI of 28.72±7.89. 3 patients (5%) were smokers and 7 (11%) were diabetic. 22 patients also underwent a 1st metatarsal osteotomy, 26 patients had a first TMT fusion, 1 patient had 2nd and 3rd Hammertoe fixation, 1 patient underwent a Lapidus procedure along with 2nd hammertoe fixation and a Weil osteotomy, and 14 patients had no associated procedures. All 64 patients reported post operative satisfaction with the surgery. Pre-op to Post Op VAS scores improved from 44.2±19 to 21.8±11.8 (p≤0.05). Pre-op and post-op HVA, IMA, and IPA angles are 18.64±11.490, 5.97±4.380 (p≤0.05); 14.02±4.210, 7.53±3.200 (p≤0.01); and 5.90±5.400, 5.97±3.730 (p≥0.05) respectively.				
Discussions			y at the Hallux was effect f FA VAS and a 100% pa			radiographic parameters. There
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student	t Club Poster				
Classification	Forefoot Rec	onstruction				
Level of Evidence	Level III					
Authors/Financial I	Disclosures					
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Submission ID	05-00908 Ref ID S					
Title		Novel Cross Screw with Staple for first MTP Joint Arthrodesis Compared to Dorsal Plate fixation: Retrospective Clinical and Radiographic Evaluation				
Submit Date	08/28/2023					
Correspondent	Last Name: Arndt					
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	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	Retrospective study investigating MTP joint. Dorsal plating (DP) g		a compressive r	iitinol staple (CS	+S) for arthrodesis of the 1st	
Methodology	Pre- and post-op VAS were assessed as well as Hallux Valgus Angle (HVA), Intermetatarsal Angle (IMA), Interphalangeal Angle (IPA) Dorsiflexion Angle (DFA), and distance of fibular sesamoid (DFS). Student t-test assuming equal variance (p≤0.05) to determine significance.					
Procedures						
Results	40 patients in the DP group age 65.3±8.4, 12M (30%), 28F (70%), BMI 30.4±6.2 were included. In the CS+S group 14 patients were included age 66.64±8.4, 5M (36%), 9F (64%), BMI 25.0±3.8. DP had a follow up time of 4±3months with 95% fusion rate; CS+S had 100% fusion rate at a follow up of 1.9±2months. Pre and Post-op DP and CS+S VAS scores were (7.9±0.9; 1.3±1) and (8.0±0.8; 0.7±0.9), respectively (p≤0.05). Pre and post-op HVA, IMA, IPA, DFA and DFS for DP are [1.9±4].1.256, 8.32±7.19 o (p≤0.05); and 12.82±2.65mm, 12.35±2.62mm (p≥0.05); respectively. Pre and post-op HVA, IZ0 (p≤0.05); 22.59±9.210, 23.71±7.410 (p≥0.05); and 12.82±2.65mm, 12.35±2.62mm (p≥0.05); 10.54±4.430, 7.98±2.790 (p≤0.05); 11.99±6.280, 14.47±5.220 (p≥0.05); 22.26±8.900, 22.44±8.970 (p≥0.05); and 13.24±2.17mm, 12.13±1.56mm (p≥0.05) respectively.					
Discussions	Both CS+S and DP groups resul smaller incision, less hardware in				ic parameters. CS+S is a	
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level III					
Authors/Financial D	Disclosures					
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Submission ID	05-00909 Ref ID S					
Title		Complication rate of PIPJ arthrodesis utilizing bio-integrative implant fixation: a retrospective review				
Submit Date	08/30/2023					
Correspondent	Last Name: Adloo					
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	Practice/Company/Residence	cy Program:	University F	oot and Ankle Institute		
Authors	Author 1: Milad, Adlo	o, DPM, MS	Author 2:	Babak, Baravarian, DPM, FACFAS		
	Author 3:		Author 4:			
	Author 5:		Author 6:			
	Author 7:		Author 8:			
Purpose	Hammertoe fixation has evolved from traditional Kirschner wire to include a variety of implants, however, most are still metallic with well-known disadvantages. The aim of this study is to assess the complication rate of a bio-integrative fiber-reinforced implant for proximal interphalangeal joint arthrodesis.					
Methodology	Gender, laterality, age, follo	83 feet with implantation of bio-integrative fixation were identified. The minimum follow-up time for inclusion was 1 year. Gender, laterality, age, follow-up time, removal, revision, and exchange were evaluated. Standard radiographs of the foot were analyzed at 6-8 weeks to assess bony union.				
Procedures						
Results				atients were included. Average age was 62. No of bone healing 6-8 weeks post-operatively.		
Discussions	or other non-integrative imp	The use of a bio-integrative fiber-reinforced implant for PIPJ arthrodesis has comparable outcomes to traditional fixation or other non-integrative implants for hammertoe correction, without the associated negative risks. Use of this implant offers patients an option to minimize pin-tract infection and hardware complication risks.				
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
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Submission ID	05-00910			Ref ID Sci-910
Title	Interim Analysis of a P Patient Outcomes Follo Early Weightbearing			
Submit Date	08/21/2023			
Correspondent	Last Name: McAleer Full Name: Jody Peter McA Practice/Company/Residency Pr	· · · ·	mail: jmcaleer@jc: fferson City Medical Grou	
Authors		ister, DPM, FACFAS Ar , MS Ar	uthor 2: Robert Santr uthor 4: Avneesh Chh uthor 6: uthor 8:	
Purpose	This study's goal is to assess the arthrodesis system for hallux va weightbearing.			
Methodology	This is an interim analysis of a prospective multicenter study on patients with symptomatic HV and no prior HV surgery. Patients were treated with an instrumented 1st TMT procedure through a mini-open approach (≤4cm dorsal incision which is approximately 50% smaller than the standard approach) using biplanar plating with protected early weightbearing. Radiographic triplanar correction, patient-reported outcomes (VAS and MOxFQ), and forefoot circumference were assessed through 6- and 12-month follow-up.			
Procedures				
Results	Eighty-eight patients (mean [SD] age: 41.0 [12.4] years) underwent a mini-open 1st TMT arthrodesis. Mean (SD) primary incision length was 3.5 (0.27) cm. Mean (SD) time to weightbearing in boot (N=84) and return to unrestricted activity (N=65) were 8.1 (6.1) days and 3.5 (0.8) months, respectively. Statistically significant improvements from baseline in HVA, IMA, and TSP radiographic measures (N=81) and VAS pain score (N=82) were observed as early as 6 weeks and maintained through 6 months (N=50 and 51, respectively). Statistically significant improvements across all MOxFQ domains were observed at 6 months (N=51) post-procedure. Mean (SD) change in forefoot circumference at 6 months (N=49) and 12 months (N=12) was -0.9 (1.3) cm and -1.5 (0.9) cm, respectively.			
Discussions	The results of this prospective, multicenter study on a mini-open 1st TMT system with early weightbearing demonstrated statistically significant improvements in radiographic correction, patient-reported outcomes, and forefoot circumference.			
Format	Scientific			
Case Rpt Followup	12			
Student Club	Not a Student Club Poster			
Classification	Forefoot Reconstruction			
Level of Evidence	Level III			
Authors/Financial D	Disclosures			
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):
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Submission ID	05-00911			Ref ID Sci-911	
Title		Safety and Efficacy of Carbon-Dioxide Insufflation in Arthroscopic Cartilage Restoration Procedures of the Ankle			
Submit Date	08/31/2023				
Correspondent	Last Name: Arena Full Name: Thomas C. Practice/Company/Residen	Arena, DPM, AACFAS cy Program:		c.arena@gmail.com constructive Foot and Ankle Fellowship	
Authors	Author 1: Thomas C. Author 3: Author 5: Author 7:	Arena	Author 2: Alan Author 4: Author 6: Author 8:	Ng, DPM, FACFAS	
Purpose	insufflation during arthrosc both the dry environment a	The purpose of this study was to examine the adverse effects, safety profile, and efficacy of utilizing carbon dioxide insufflation during arthroscopic cartilage restoration procedures in the ankle joint. Carbon dioxide insufflation provides both the dry environment and capsular distention necessary for improved visualization while performing arthroscopic cartilage resurfacing within the ankle joint.			
Methodology	procedures with the assistant	The study is comprised of a retrospective chart review of patients who underwent arthroscopic cartilage restoration procedures with the assistance of carbon dioxide insufflation. All procedures were performed by the senior author (AN) and all included subjects had a minimum of three-month follow up.			
Procedures					
Results		t patients undergoing arthroscop results with minimal side effects		procedures with CO2 insufflation had rm followup.	
Discussions	insufflation in arthroscopy for adverse effects to the pa prior studies examining CC concerns for patient safety.	To the author's knowledge, no prior studies have examined the safety profile and efficacy of utilizing carbon dioxide insufflation in arthroscopy of the ankle joint. This technique is widely used in laparoscopic surgery with minimal concern for adverse effects to the patient. Scant literature exists documenting this technique in joint arthroscopy, however the few prior studies examining CO2 insufflation in knee and shoulder arthroscopy have yielded positive results with minimal concerns for patient safety. Our study demonstrates that use of CO2 insufflation in the ankle is safe and efficacious, and can help yield better results in cartilage restoration procedures where visualization and a dry environment is paramount.			
Format	Scientific				
<b>Case Rpt Followup</b>					
Student Club	Not a Student Club Poster				
Classification	Arthroscopy				
Level of Evidence	Level III				
<b>Authors/Financial D</b>	visclosures				
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Submission ID	05-00913			Ref ID Sci-913	
Title	Functional Outco Implants	Functional Outcomes of Total Talus Replacements with Custom 3D Printed Metallic Implants			
Submit Date	08/31/2023				
Correspondent	Last Name: Arena Full Name: Thomas ( Practice/Company/Resid	C. Arena, DPM, AACFAS ency Program:		om.c.arena@gmail.com Reconstructive Foot and Ankle Fellowship	
Authors		uyen, DPM, AACFAS DPM, FACFAS hn, MD		homas C. Arena, DPM, AACFAS ieith Jacobson, DPM, FACFAS	
Purpose				here are any differences or benefits to s a total ankle replacement and concomitant	
Methodology	surgical candidates follow ankle fusion. The patient	This study consisted of a retrospective case series from 12/2018 - 7/2023 reviewing TTRs for patients considered good surgical candidates following talar damage/bone loss who had exhausted standard treatment options besides amputation or ankle fusion. The patient series consisted of patients receiving a naked total talus, total talus + total ankle arthroplasty, naked total talus + subtalar fusion, and total talus + total ankle arthroplasty + subtalar fusion.			
Procedures					
Results		from 12/2018 - 12/2022 were inc of motion in the majority of patien	*	s were observed in ambulatory status,	
Discussions	damage to the talus for ir provides a compelling all	The described total talus surgery and surgical combination are shown to be a safe and effective treatment option following damage to the talus for improving mechanical stability, range of motion, and decreased pain. Though this new technology provides a compelling alternative to more traditional surgical treatments such as amputation or ankle arthrodesis, further studies are required to optimize outcomes in these challenging cases.			
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poste	r			
Classification	Rearfoot and Ankle Reco	nstruction			
Level of Evidence	Level III				
Authors/Financial D					
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Submission ID	05-00914			Ref ID Sci-914	
Title		Second-Look Arthroscopy Following Arthroscopic Cartilage Restoration with a Cartilage Allograft			
Submit Date	08/31/2023				
Correspondent	Last Name: Arena				
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Purpose	cartilage in short-term foll	This study looks to characterize in a qualitative manner the incorporation and morphology of juvenile particulated allograft cartilage in short-term followup of patients undergoing second-look arthroscopy. The study secondarily evaluates patient- reported outcome measures after arthroscopic cartilage restoration procedures.			
Methodology	reasons after undergoing p Visual appearance of oster	This study consists of a retrospective chart review of patients who underwent second-look arthroscopy for a myriad of reasons after undergoing primary arthroscopic cartilage restoration procedures with juvenile particulated allograft cartilage. Visual appearance of osteochondral lesions was scored using the modified Outerbridge classification systems. Patient- reported outcome measures were reported using post-operative VAS scores and whether or not the patient would undergo the same procedure again.			
Procedures					
Results		xamined demonstrated an improve sification systems. Most patients rocedure again.			
Discussions	require a malleolar osteoto similar ability to debride ti arthroscopic OCL resurfac available describing morpi	Traditional open methods of treating osteochondral lesions of the talus can result in significant patient morbidity, as they require a malleolar osteotomy to access the lesion. Arthroscopic resurfacing procedures offer less patient morbidity with similar ability to debride the lesion and resurface with cartilage allograft. Prior studies have demonstrated efficacy of arthroscopic OCL resurfacing in regards to patient-reported outcome measures. However, there is a paucity of literature available describing morphology of cartilage allograft after arthroscopic resurfacing. Our study demonstrates a significant improvement in lesion morphology and patient outcomes following arthroscopic debridement and resurfacing with a			
Format	Scientific				
<b>Case Rpt Followup</b>					
Student Club	Not a Student Club Poster				
Classification	Arthroscopy				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-00923 Ref ID S					
Title		Retrospective comparison of Standard Wound Care vs Amniotic Membrane for treatment of Diabetic Foot Ulcers				
Submit Date	08/30/2023					
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	Author 5: Mark Moldavs	•				
	Author 7:	Author 8:				
Purpose	The healing rate of diabetic for (AM).	ot ulcers when treated with standard wour	nd care (SWC) comj	pared to amniotic membrane		
Methodology	wound associated with CPT co 15275 was used in conjunction	A retrospective chart review of patients with type II diabetes was performed. SWC was defined as debridement of the wound associated with CPT codes 11042, 11043, 11045, 97597 or 97610. AM treatment was defined when CPT code 15275 was used in conjunction with an AM graft code. Wound surface area measurements were taken after debridement. The average change in ulcer surface area / week is reported. Mann-Whitney U-test was used to determine significance.				
Procedures						
Results	10 patients were included (3M, 7F) with an average BMI of 33.23±6.73. 10 ulcers were treated with SWC and AM; 9 ulcers were treated with SWC alone for a total of 19 ulcers. The average age of the patients when treatment began was $(66.74\pm10.56.18  of the ulcers were non-pressure while 1 was a pressure ulcers. 17 were on the forefoot, 2 on the hindfoot. The average change in ulcer surface area for the SWC and AM groups is -0.68 \pm 0.94 cm2/week and -0.09 \pm 0.49 cm2/week (p\leq 0.05).$					
Discussions	large standard deviation which	In the multisite retrospective study, AM group showed a significantly better healing rate than SWC. Both groups have a large standard deviation which highlights the difficulty of treating diabetic foot ulcers. Larger sample sizes are needed to better understand the efficacy of AM on diabetic foot ulcers.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Diseas	es				
Level of Evidence	Level III					
Authors/Financial D	Disclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Submission ID	05-00929				Ref ID Sci-929	
Title		Vacuum Assisted Bone Marrow Curettage with Implantation of Antibiotic Bone Substitute for Treatment of Osteomyelitis and Limb Salvage				
Submit Date	08/30/2023					
Correspondent	Last Name: Amjad					
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	Practice/Company/Residen	cy Program:	Yale New Ha	wen Health		
Authors	Author 1: Uzair Amja	ıd	Author 2:	Alexander Fi	ried, DPM	
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	Author 5: Michael I.	Gazes, DPM, MPH, FACFAS	Author 6:			
	Author 7:		Author 8:			
Purpose		e technique utilizing an "egg-she ium sulfate and calcium phospha				
Methodology	A retrospective cohort study was performed focusing on patients with osteomyelitis treated at a single institution from January 2017- January 2021. The inclusion criteria included patients with foot ulcers and osteomyelitis who underwent surgical cancellous bone resection with vacuum assisted bone windowing with application of antibiotic impregnated calcium sulfate and phosphate and at least 12 months of follow up after interventions in the tibia, calcaneus, talus, navicular, and cunciforms. Exclusion criteria consisted of patients with severe peripheral vascular disease (occlusion of 3 vessels PT, AT, PR) who were unable to be revascularized.					
Procedures						
Results		this case series. With an average yound free and cleared of osteom				
Discussions	bone. This technique can be is especially beneficial in c	This innovative technique of debridement removes infected osteomyelitic cancellous bone while preserving the cortical bone. This technique can be particularly useful in the setting of osteomyelitis and attempts at limb salvage. This approach is especially beneficial in cases of osteomyelitis where cortical integrity is not compromised. Preserving the calcaneus, a primary weight-bearing bone, allows for entire foot preservation without the requirement for proximal amputation or prosthesis				
Format	Scientific					
Case Rpt Followup	12					
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Dis	seases				
Level of Evidence	Level IV					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:			Disclosed Organisation(s):	
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Submission ID	05-00930 Ref ID Sci-9					
Title		Comparative study of rheumatoid arthritis and non-rheumatoid arthritis forefoot deformities				
Submit Date	08/28/2023					
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	Author 3:	Koichiro Yano	Author 4:	Akihumi Yamada		
	Author 5:	Minaka Suzuki	Author 6:	Ken Okazaki		
	Author 7:		Author 8:			
Purpose	rheumatoid a studies have	g described as a digital deformity, the morphol rthritis (RA) and non-rheumatoid arthritis (nou undertaken a comparative analysis between th we meticulously examined the distinctive attril	n-RA) exhibit s e two. To ascert	ubstantial distinctions. Nevertheless, only a few tain an appropriate treatment strategy for toe		
Methodology	hospitals from cases compris	A total of 293 cases who underwent surgical intervention for forefoot deformities at our medical facility and its affiliated hospitals from 2013 to 2019 were encompassed in this study. 139 cases comprised patients afflicted with RA, while 154 cases comprised non-RA patients. Our assessment encompassed variables such as gender, age, preoperative load-bearing foot X-ray, and the Self-Administered Foot Evaluation Questionnaire (SAFE-Q) administration.				
Procedures						
Results	Lesser's meta (HVA) exhib non-RA case	The non-RA cases demonstrated a significantly advanced age compared to the RA cases. Furthermore, the prevalence of Lesser's metatarsophalangeal joint dislocation was significantly higher among the RA cases. The Hallux valgus angle (HVA) exhibited a substantial increase in RA cases, whereas the intermetatarsal angle displayed a significant increase in non-RA cases. Moreover, RA patients exhibited a reduction in the calcaneal pitch angle. The SAFE-Q outcomes did not exhibit any variations between the two groups.				
Discussions		The RA cases exhibited a significantly higher incidence of Lesser's dislocations and a greater HVA. The longitudinal arch of the foot was notably impaired among the RA cases, while the transverse arch was significantly compromised in the non-RA cases.				
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Studen	Not a Student Club Poster				
Classification	Biomechanic	es and Anatomy				
Level of Evidence	Level III	-				
Authors/Financial D	liselosuros					
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Submission ID	05-00941 Ref ID Sci-9				
Title	Bedside Deep Bone Biopsy: A Pilot Study to Determine Safety and Efficacy				
Submit Date	08/23/2023				
Correspondent	Last Name: Wynn Full Name: Lindsay Wy Practice/Company/Residen		Email: University o	shortmlindsay@gmail.com f Florida College of Medicine- Jacksonville	
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Purpose	The gold standard for diagnosing osteomyelitis is a deep bone biopsy. This procedure is most commonly performed in the operating room. Unfortunately, many patients with suspected osteomyelitis are too medically ill to allow for procurement of deep bone biopsies in the operating room. Since the steps involved in obtaining deep bone biopsies are straightforward, we sought to determine if these procedures could instead be safely obtained at bedside.				
Methodology	We performed an electronic medical records review to identify all patients who underwent deep bone biopsy from the foot for concern of osteomyelitis at our level 1 trauma center. Only patients who underwent deep bone biopsy at bedside were included. The technique involved a sterile skin preparation, isolation of the foot from the bedding with sterile drapes, infiltration of local anesthesia, and a Jamshidi needle to obtain the bone biopsy which was sent for histopathological and microbiological analyses.				
Procedures					
Results	A total of 10 patients (14 bones) met our inclusion criteria. Bones biopsied included the calcaneus, metatarsals, and proximal phalanges. Pathogens grown included Corynebacterium, Candida lusitaniae, Enterococcus, Proteus vulgaris, and Coagulase negative staphylococcus. Complications (n=1) included fracture during the procedure.				
Discussions	Our pilot study data supports the safety and efficacy of performing a bedside deep bone biopsy to confirm osteomyelitis in patients unsafe to undergo this procedure in the operating room. The ability to definitively confirm osteomyelitis and the causative organism makes this approach an attractive alternative to magnetic resonance imaging.				
Format	Scientific				
Case Rpt Followup	12				
Student Club	Not a Student Club Poster				
Classification	Wound Care/Infectious Diseases				
Level of Evidence	Level IV				
Authors/Financial Disclosures					
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Submission ID	05-00944 Ref			Ref ID Sci-944	
Title	The Incidence of Occult Osteomyelitis Confirmed via Bone Biopsy at the Time of Elective Ankle Fracture Hardware Removal				
Submit Date	08/23/2023				
Correspondent	Last Name: Wilmot				
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	Practice/Company/Residency	/ Program:	University of	Florida Health Jacksonville	
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	Author 3: John S. Ande	rson, DPM, FACFAS	Author 4:	Teddy M. Musselman, DPM, FACFAS	
	Author 5: Jason A. Pira	ino, DPM, MS, FACFAS	Author 6:		
	Author 7:		Author 8:		
Purpose	Elective hardware removal following open reduction with internal fixation (ORIF) of ankle fractures is commonplace. One potential cause for painful hardware is occult osteomyelitis. The gold standard for diagnosing osteomyelitis remains bone biopsy with histopathological and microbiological analyses. We sought to determine the incidence of occult osteomyelitis following ORIF of closed ankle fractures.				
Methodology	We performed an electronic medical records review of all deep hardware removals following ORIF of closed ankle fractures at our level 1 trauma center between July 2014 and July 2023. Current procedural terminology codes were used to isolate cases that underwent both ankle hardware removal and deep bone biopsy. All clinical and operative notes, radiographic imaging studies, pathology reports, and microbiology results were reviewed for each patient. Only patients who had previously undergone ORIF of a closed ankle fracture without infectious indications at the time of hardware removal were included.				
Procedures					
Results	A total of 510 patients were reviewed with 25 meeting our inclusion criteria. Three patients (12%) had a biopsy proven diagnosis of osteomyelitis.				
Discussions	Our results are disconcerting and suggest that providers should routinely obtain deep bone biopsies at the time of elective ankle hardware removal regardless of concern for underlying infection. This is especially true if staged surgeries are planned, since occult osteomyelitis can result in devastating complications if not identified and promptly treated.				
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial Disclosures					
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Submission ID	05-00950 Ref ID Sci-			Ref ID Sci-950		
Title	Minimally Invasive Chevron/Akin Complications: Analysis of the MAUDE Database					
Submit Date	08/24/2023	08/24/2023				
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Authors	Author 1:Alexsandra, R,Author 3:Jason, A, PiraiAuthor 5:Author 7:	, Szajna, DPM no, DPM FACFAS	Author 2: Author 4: Author 6: Author 8:	Thomas, S, Roukis, DPM PhD FACFAS		
Purpose	valgus. Although many public Device Experience (MAUDE)	The Minimally Invasive Chevron/Akin (MICA) technique has received much attention for surgical correction of hallux valgus. Although many publications exist, few focus on complications encountered. The Manufacturer and User Facility Device Experience (MAUDE) database contains complications for each FDA 510k cleared device. Use of this database to explore complications associated with the industry leading MICA system has not been performed. We sought to analyze these complications.				
Methodology	The MAUDE database was reviewed from inception to August 21, 2023 for complications specific to the Stryker Corporation PROstep™ MICA® system.					
Procedures						
Results	A total of 49 unique reports were identified between September 2017 and December 2022. Most complications occurred intra-operatively (80%), with the most common being burr breakage (51%), screw head breakage (22.5%) and missing instrumentation/unsterile packaging (12.2%). Reports were submitted at a median of 28 days by either the Wright Medical Group (77.5%) or Stryker Corporation (22.5%).					
Discussions	We have identified consistent intra-operative and manufacturing problems with this system. It is concerning that no MAUDE reports have been submitted since December 27, 2022 because manufacturers are required to submit complications to the MAUDE within 30 days of becoming aware of the event. It is unlikely that all intra-operative complications have been resolved given the frequency and volume they were occurring at between 2017 and 2022. While no direct conclusions regarding this system can be drawn from the data, this study demonstrates the potential need for product changes to reduce the complications identified in the MAUDE database.					
Format	Scientific					
Case Rpt Followup						
Student Club	Not a Student Club Poster	Not a Student Club Poster				
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial Disclosures						
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Submission ID	05-00960 Ref ID Sci-960				
Title	Time to Weightbearing in Weber B Ankle Fractures Fixated With and Without an Interfragmentary Screw				
Submit Date	08/25/2023				
Correspondent	Last Name:     Barbe       Full Name:     Madeleine, DPM       Practice/Company/Residency Program:     University of Pennsylvania Health System				
Authors	Author 1:Christopher Berkelbach, DPMAuthor 2:Madeleine Barbe, DPMAuthor 3:Spencer Monaco, DPM, FACFASAuthor 4:Author 5:Author 6:Author 7:Author 8:				
Purpose	Weber B ankle fractures have traditionally been fixated with an interfragmentary screw with a neutralization plate, but some newer evidence has shown that plate alone fixation has not been inferior and has some benefits, such as better bony contact and less potential irritation of the peroneal tendons. We aim to determine if there are significant differences between these groups in time to protected weightbearing, time to beginning physical therapy, and time to weightbearing in a sneaker.				
Methodology	This retrospective comparative study found 53 patients since May 2019 who underwent surgical correction of a Weber B ankle fracture with interfragmentary screw + neutralization plate ( $n = 22$ ) vs. plate alone ( $n = 31$ ). Other characteristics analyzed included sex, age, time of follow up, comorbidities, ASA status, race, cause and timing of injury, and use of syndesmotic fixation.				
Procedures					
Results	The interfragmentary screw + plate group progressed slightly faster than the plate alone group did in time to protected weightbearing (5.7 days), time to beginning physical therapy (4.2 days), and time to weightbearing in a sneaker (5.2 days), although none of these differences were statistically significant. The plate alone group had significantly more obese patients ( $p = 0.016$ ), as well as higher incidence of SER IV fractures ( $p = 0.011$ ) and fractures requiring syndesmotic fixation ( $p = 0.008$ ).				
Discussions	While a small difference was detected in time to weightbearing between the groups, this difference was not statistically significant. The delay in weightbearing and delay in beginning physical therapy in the plate alone group may be explained by the higher incidence of obesity and higher incidence of fractures requiring syndesmotic fixation in this group.				
Format	Scientific				
Case Rpt Followu	•				
Student Club	Not a Student Club Poster Trauma				
Classification Level of Evidence					
Authors/Financia	I DISCIOSURES Email: Disclosure(s) selected: Disclosed Organisation(s):				
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Submission ID	05-00964				Ref ID Sci-964
Title	The Role	of Computed Ton	nography in the	Surgical I	Management of Ankle Fractures
Submit Date	08/25/2023				
Correspondent	Last Name: Full Name: Practice/Com	Ivey Jacob Ivey, DPM ipany/Residency Program	1:	Email: AdventHeal	jacob.ivey011@gmail.com h East Orlando Residency Program
Authors	Author 1: Author 3: Author 5: Author 7:	Jacob Ivey, DPM Amber M. Shane, DPM	M, FACFAS	Author 2: Author 4: Author 6: Author 8:	Christopher Reeves, DPM, FACFAS
Purpose		This study aims to demonstrate whether preoperative CT scans should be considered for malleolar fractures or if radiographs alone are sufficient for appropriate preoperative planning.			
Methodology	This survey-based study asked participants to choose their preferred method of fixation for any lateral malleolar, medial malleolar, and posterior malleolar fractures based on blinded images of radiographs and CT scans of the same ankle fractures. The surveys also asked surgeons if any syndesmotic or deltoid repair would be indicated based on the images alone. The answers given for each radiograph were compared to those given for the corresponding CT scan to see what preferred methods of fixation changed, if any.				
Procedures					
Results	difference in		terior malleolar fractur	es. There was	or medial malleolar fractures. There was a no statistical difference between radiographs
Discussions	Optimal utilization of preoperative CT scans for management of malleolar fractures has remained incompletely defined. Although a CT certainly provides "more detail" about the fracture morphology, it is unclear how often these additional details concretely change surgical management, especially the type of internal fixation. In that light, demonstrating the impact of x-rays vs CT imaging in preoperative planning and surgical management can be valuable to practicing surgeons. This survey study highlights that most ankle fractures can be appropriately treated with radiographs alone. However, when a posterior malleolar fracture is present, a CT scan might aid in preoperative planning.				
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Studen	t Club Poster			
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial	Disclosures				
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Submission ID	05-00965			Ref ID Sci-965	
Title	Inter- and Intra-rater metatarsus adductus a	reliability of the Plumbline: A lassessment	novel radiog	raphic method of	
Submit Date	08/25/2023				
Correspondent	Last Name: McAleer				
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	Author 7: Mark Easley, M	D Author 8:	W.Bret Smith,	DO, MS, FAOAO	
Purpose	that attempts to correlate the pro-	urement used to assess metatarsus adductus esence of MTA with the need to correct it in a- and inter-rater reliability of the PL and see	conjunction with	hallux valgus (HV). Our	
Methodology	Seven surgeons assessed 20 unique weightbearing preoperative AP radiographs; of which three assessed them at two timepoints four weeks apart. Inter-rater reliability for PL and SA measurements were calculated using a mixed effects model with restricted maximum likelihood estimation. Intra-rater reliability for PL and SA measurements were calculated using the Pearson correlation coefficient.				
Procedures					
Results	slightly higher than for the PL ( upon the PL. The intra-rater rel	Inter-rater reliability is considered excellent (&:amp;gt;0.90) for both techniques, with reliability for SA being slightly higher than for the PL (0.96 vs 0.95, respectively). All surgeons agreed on the presence or absence of MTA based upon the PL. The intra-rater reliability is considered excellent (>0.90) for both PL and SA within each reader, with intra-rater reliability for SA being slightly higher than that for PL (a range of 0.95 to 0.99 versus a range of 0.92 to 0.96, respectively).			
Discussions	The PL is a useful clinical tool to guide surgeons to correction of MTA with HV. Our dataset confirms that the technique provides a high level of intra- and inter-rater reliability. It predicts the need for MTA correction when HV correction is planned and is easily interpreted.				
Format	Scientific				
<b>Case Rpt Followup</b>	0				
Student Club	Not a Student Club Poster				
Classification	Forefoot Reconstruction				
Level of Evidence	Level III				
Authors/Financial l	Disclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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		Grant/Research funding	Exactech
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Submission ID	05-00967			Ref ID Sci-967	
Title	0 0	ect of Preoperative Vi oot and Ankle Surger		evels on Incision Healing	
Submit Date	08/25/2023				
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	Practice/Company/Residency	Program:	Loyola Univ STATES - M	ersity Medical Center - Maywood, IL UNITED aywood, IL	
Authors	Author 1: Mahak Lalan	i	Author 2:	Christina Staskiewicz, DPM	
	Author 3: Katherine Du	x, DPM	Author 4:		
	Author 5:		Author 6:		
	Author 7:	Author 8:			
Purpose		he relationship between preope oing elective foot and ankle su		D levels and post-operative incision healing	
Methodology	This retrospective review analyzed patient data obtained from the Loyola University Medical Center Electronic Medical Record from January 2010 until August 2023. Inclusion criteria included elective foot and ankle surgeries where clinicians obtained preoperative vitamin D levels in patients older than 18 years old. Exclusion criteria included diabetic patients with HbA1c >7%; patients with pedal ulcerations present at time of surgery; a diagnosis of peripheral arterial disease, end-stage renal disease, peripheral neuropathy, and emergent surgeries. Data were analyzed by t-tests and ANOVA; statistical significance was defined as p<0.05.				
Procedures					
Results		er preoperative vitamin D leve		vels had a positive correlation with incision kely to have wound healing complications	
Discussions				ot and ankle surgeons check preoperative min D level may influence postoperative	
Format	Scientific				
Case Rpt Followup	156				
Student Club	Not a Student Club Poster				
Classification	Epidemiology/Population Stu	ıdy			
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-00970			Ref ID Sci-970	
Title	•	ture Stabilization Syster he FDA MAUDE Databa	•	epair: An Analysis of	
Submit Date	08/25/2023				
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	Author 3: Jason A. Pi	raino, DPM, MS, FACFAS	Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	The optimum technique to address disruption of the distal-tibiofibular syndesmosis associated with ankle fractures remains elusive. Modern fixation systems attempt to replicate the natural balance between mobility and stability afforded by the native syndesmotic complex. Unfortunately, complications associated with newer systems available for use remain unknown. We reviewed the FDA MAUDE (Manufacturer and User Facility Device Experience) database for complications associated with a specific dynamic screw-suture construct for syndesmotic stabilization that remains in clinical use.				
Methodology	The FDA MAUDE databas FIBULINK™ Syndesmosis	e was analyzed for submissions de s Repair System.	enoting complications submitt	ed for the Depuy Synthes Inc.	
Procedures					
Results	One hundred unique reports were identified. The most reported complication was hardware failure (47%). The most frequent failures involved intra-operative breakage of device components (15%) followed by post-operative failure to maintain syndesmotic reduction (12%). The individual components of the system responsible for hardware failure were associated with the suture (29%), drill (13%), tensioning cap (10%) and tibial screw (9%). Revision was reported to be 15% which consisted of loss of syndesmotic reduction, device incompatibility with the fibular side plate, and post-operative pain.				
Discussions	Our analysis of the FDA MAUDE database for complications of the FIBULINK <sup>™</sup> Syndesmosis Repair System has identified consistent hardware failure related problems with each component of the device. The findings suggest that further studies are necessary to evaluate ways of reducing such complications associated with this dynamic screw-suture stabilization system.				
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial Di	isclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Thomas S. Roukis, DPM, PhD, FACFAS	thomas.roukis@jax.ufl.edu	Member of a medical publication	on or editorial governing boar	Foot and Ankle Surgery: d Techniques, Reports and Cases (FASTRAC)	
Issan A. Dinsing DDM MC		Intellectual Property rights own	ned	Temple university	
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Submission ID	05-00976			Ref ID Sci-976	
Title	Intraoperative use of foot: A Technique Gu		for amput	ation in acute frostbite of the	
Submit Date	08/26/2023				
Correspondent	Last Name: Wireman				
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	Practice/Company/Residency	Program:	University of	Louisville Health	
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	Author 5:		Author 6:		
	Author 7: Author 8:				
Purpose	The use of indocyanine green angiography (ICGA) has been utilized in general surgery, vascular surgery, plastic surgery, and wound care to help improve decision making and aid surgeons in the intra-operative setting. Specifically, ICGA has been shown to aid in the assessment of tissue perfusion and vascular trauma guiding therapy and aiding in decision making for efforts in limb salvage and amputation. There is paucity in the literature regarding using ICGA for determining level of amputation for frostbite patients.				
Methodology	Eight total patients including 12 total feet were subject to frostbite. Majority of the patients were subject to housing insecurities during colder months. This study is a retrospective study of the outcomes of using indocyanine green angiography in an acute frostbite setting to determine the level of amputation versus waiting on demarcation. Each patient underwent the indocyanine green angiography preoperatively to establish the level of perfusion. This level was marked and amputated at that level. In each case osseous tissue was resected to allow for primary skin closure.				
Procedures					
Results	Nine out of the 12 feet healed revision which went on to hea		ion. Three feet	in two patients returned for more proximal	
Discussions				severe frostbite, which traditionally could take infection risk and increased timing of finite	
Format	Scientific				
Case Rpt Followup	15				
Student Club	Not a Student Club Poster				
Classification	Wound Care/Infectious Disea	ises			
Level of Evidence	Level V				
Authors/Financial Dis	sclosures				
Full Name:					
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Submission ID	05-00980			Ref ID Sci-980
Title		lullary Use of an Antibiotic Synt tting of Osteomyelitis	thetic Bone	Filler after Metatarsal Resection
Submit Date	08/27/2023			
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Authors	Author 1: Author 3: Author 5: Author 7:	Michael Sweeney DPM Alden Simmons DPM Nicholas Laco DPM AACFAS	Author 2: Author 4: Author 6: Author 8:	Brandon Kitchens DPM Taylor Hale DPM
Purpose	metatarsal or	we describe the technique of applying an intr transmetatarsal amputation with the intentio ad its consequences.		biotic synthetic bone void filler (ASBVF) after a dual osteomyelitis and preventing infection
Methodology		ue guide provides a reproducible way to appl nitial surgical intervention.	y an antibiotic de	elivery system to a transmetatarsal amputation at
Procedures				
Results		livery systems are a well researched and high plication directly to the infected region.	nly affective. The	e flowable and injectable nature of the ASBVF
Discussions	The technique described above for introducing antibiotic synthetic bone void filler into a potential colonized intramedullary canal of a metatarsal is to prevent reoperation secondary to residual osteomyelitis. Further studies will be needed to fully elucidate the effectiveness of this technique and its role in helping prevent diabetic infection and amputation.			
Format	Scientific			
<b>Case Rpt Followup</b>	12			
Student Club	Not a Studen	tt Club Poster		
Classification	Diabetic Foo	ot		
Level of Evidence	Level V			
Authors/Financial Di	sclosures			

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Submission ID	05-00986			Ref ID Sci-986		
Title		The effect of minimally invasive hallux valgus osteotomy and fixation techniques on proximal first metatarsal position following surgical correction.				
Submit Date	08/27/2023					
Correspondent	Last Name: Meyr Full Name: Andrew J. Mey Practice/Company/Residency 1	лт, DPM FACFAS Program:	Email: Temple Univ	ajmeyr@gmail.com ersity		
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Purpose		al fragment is unquestionably	lateralized dur	s deformity have grown in contemporary ing the procedure, the aim of this study is to aft and base.		
Methodology	The radiographs of a consecutive series of minimally invasive hallux valgus surgical corrections were reviewed (n=30). Standard transverse plane radiographic parameters were investigated (first intermetatarsal angle, hallux valgus angle, tibial sesamoid position) in addition to several measurements relative to the stationary 2nd metatarsal bisection (hallux proximal phalanx distance, medial tibial sesamoid distance, first metatarsal shaft proximal to the osteotomy) and 2nd metatarsal- medial cunciform diastasis.					
Procedures						
Results	Statistically significant decreases were observed with the first intermetatarsal angle (12.11 vs. 6.56; p<0.001), hallux valgus angle (24.72 vs. 8.71; p<0.001) and sesamoid position (4.34 vs. 2.245; p<0.01). A significant decrease was observed of the 2nd metatarsal – hallux proximal phalanx distance (34.96 vs. 32.34; p<0.001) but not the 2nd metatarsal – tibial sesamoid distance (31.56 vs. 30.99; p=0.433). A significant increase was observed in the distance between the 2nd metatarsal and the proximal 1st metatarsal at the level of the osteotomy (19.85 vs. 21.50; p=0.003), but not with diastasis between the 2nd metatarsal and metala cunciform (3.08 vs. 2.94; p=0.614).					
Discussions		gus correction. As medial cune	iform diastasis	f the proximal first metatarsal following did not correspondingly increase, this motion lation.		
Format	Scientific					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction					
Level of Evidence	Level IV					
Authors/Financial I	Disclosures					
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		Member of a medical publication or editorial governing board	JFAS			

Submission ID	05-00998			Ref ID Sc	i-998
Title	Parallax and Distort	ion in Fluoroscopy Un	its		
Submit Date	08/27/2023				
Correspondent	Last Name: Brown Full Name: Joseph R Bro Practice/Company/Residency		Email: OhioHealth (	joey.brown2@ohiohealth.com rant Medical Center	
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Purpose	The purpose of this study was level 1 trauma center.	The purpose of this study was to investigate the prevalence and degree of parallax/distortion in large fluoroscopy units at a level 1 trauma center.			
Methodology	Two types of C-arm models were evaluated, including: 1) round image intensifiers and 2) flat plate detectors (FPD). A square plexiglass grid with embedded wire at ½ inch intervals was created, with a round metal washer secured centrally. The grid was placed 16 inches from the image intensifier. A metal BB was secured to the center of the X-ray tube. Fluoroscopic images were obtained until the BB and washer were "center-center". A straight blade served as a fiducial marker to ensure there was no off-axis angulation. Standard anterior-posterior and lateral views were obtained. Several variables and scenarios were tested to rule out any extrinsic influences. Images were printed and the patterns of parallax were identified.				
Procedures					
Results	All 11/11 (100%) of fluoroscopy units had some degree of parallax/distortion. We noted three different patterns of parallax, including: sigmoidal, converging, and diverging patterns. FPD units had less apparent parallax/distortion, however 2/3 (66%) were off-axis in relation to the fiducial marker.				
Discussions	All fluoroscopy units had varying degrees and patterns of parallax/distortion. We noted less overall distortion in FPDs. However, some of these units may produce images that are off-axis. This research has important implications for improving the accuracy of intraoperative fluoroscopy. Surgeons should understand the limitations of fluoroscopy and how to combat parallax/distortion to improve surgical outcomes and reduce patient morbidity.				
Format	Scientific				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Biomechanics and Anatomy				
Level of Evidence	Level V				
Authors/Financial D	isclosures				
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Submission ID	05-01014			Ref ID SR-1014	
Title	Comparison of Akin os and minimally invasive			e Lapidus arthrodesis	
Submit Date	08/28/2023				
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	Author 3: Andrew J. Meyr,	DPM FACFAS	Author 4:		
	Author 5:		Author 6:		
	Author 7:		Author 8:		
Purpose	The objective of this systematic r procedure and minimally invasiv			between the Lapidus	
Methodology	A standardized review of the published literature was performed with the following selection criteria: prospective and retrospective cohort analyses, published after the year 2000, peer-reviewed, including at least 100 subjects, non-duplicated data sets, and including an objective reporting of the performance of additional procedures. One search was performed of the Lapidus procedure and a separate search was performed of minimally invasive osteotomy and fixation techniques.				
Procedures					
Results	osteotomies. Four investigation of 1616 procedures and 614 (38.0%	Six investigations of the Lapidus procedure met selection criteria to include 1201 procedures and 474 (39.5%) Akin osteotomies. Four investigation of minimally invasive osteotomy and fixation techniques met selection criteria to include 1616 procedures and 614 (38.0%) Akin osteotomies. This difference was not found to be statistically significant with a two-tailed chi-squared test ( $p=0.4341$ ).			
Discussions	Results of this investigation do n procedure and minimally invasiv correction might be achieved bet potential for considerable selectic analysis within this type of study	e osteotomy and fixation tec ween the two procedure type on bias across included meth	hniques. This might indicate the s. With that said, critical reader	at comparable metatarsal s might recognize the	
Format	Systematic Review				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Forefoot Reconstruction				
Level of Evidence	Level III				
Authors/Financial I	Disclosures				
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		Member of a medical publi board	ication or editorial governing	JFAS	

Submission ID	05-01078			Ref ID SR-1078		
Title	Analyzing Novel Trea Gangrenosum	Analyzing Novel Treatment Modalities for Recurrent and Resistant Pyoderma Gangrenosum				
Submit Date	08/30/2023					
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	Author 3: Neil Upadhya	ay, DPM	Author 4:	Joshua Magno, DPM		
	Author 5: Lauren Hill, I	DPM	Author 6:			
	Author 7:		Author 8:			
Purpose	Current initial treatment relie	s on immunosuppressants, with	n corticosteroid	ith varied presentations and patient courses. s being the cornerstone; however, recurrence is to identify efficacious treatment options of		
Methodology	identify articles. We followed	A systematic review of studies published in Pubmed, Medline, and CINHAL databases from 2018 to 2022 was used to identify articles. We followed standard methodology for performing a systematic review using PRISMA guidelines. Studies that did not focus on the lower extremity were excluded.				
Procedures						
Results	92 articles were initially foun	id and 16 total were included. A	All studies were	clinical level of evidence 4.		
Discussions	treatment algorithm, particula and resistant PG. There are pr	Based on our review, there is sufficient data on novel treatment options for recurrent and resistant PG. There is no set treatment algorithm, particularly in high level evidence settings; therefore, there is no gold-standard treatment for recurrent and resistant PG. There are promising results with second-line treatments using TNF-a inhibitor or IL-17 inhibitor. High level evidence studies and comparisons geared toward treatment algorithms would be beneficial in future studies for further evaluation.				
Format	Systematic Review					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Disea	ises				
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-01124					Ref ID SR-1124		
Title		Does surgical excision of infected bone with clear margins improve clinical outcomes in diabetic foot osteomyelitis: A Systematic Review and Meta-Analysis						
Submit Date	08/31/2023							
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Purpose	Investigate the diffe associated clinical of		n positive and negative bo	ne margins in	the treatment of th	ne diabetic foot and the		
Methodology	published from data	We performed a meta-analysis and searched PubMed, Scopus, and Google Scholar to identify peer reviewed papers published from database inception. We followed standard methodology for performing meta-analysis using PRISMA guidelines. Case reports, small case series, review articles, abstracts, and non-English articles were excluded.						
Procedures								
Results	our review. This rep primary outcome w	Eleven citations were initially assessed for eligibility. Seven studies that used pathology of bone margins were included in our review. This represented 512 patients with DFO. 311 had clean bone margins and 201 had dirty bone margins. The primary outcome was defined as healing rate and secondary outcomes were defined as amputation, re-ulceration, reinfection, and antibiotic duration. Data was analyzed using a random-effects model.						
Discussions	There was no difference in healing (OR 0.51 95% CI 0.114-2.247, P=0.29) or re-infection (OR=1.97, 95% CI 0.86-4.54, p = 0.086) based on the presence of residual bone infection. People with residual bone infection had longer antibiotic treatment ( $32.5+/-21.7$ vs. $20.05+/-21.4$ days, 95% CI=3.62-22.52, P=0.0271), and were more likely to have amputation (OR =3.91 95% CI=2.82-5.43, P=0.0001). Our results suggest that the presence of residual bone infection does not impact wound healing or re-infection in patients with diabetic foot osteomyelitis.							
Format	Systematic Review							
<b>Case Rpt Followup</b>								
Student Club	Not a Student Club	Poster						
Classification	Diabetic Foot							
Level of Evidence	Level II							
Authors/Financial I	Disclosures							
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Submission ID	05-01142 Ref ID SR-1142						
Title	Post Treatment Pes P	Post Treatment Pes Planus in Setting of Lisfranc Injury: A Systematic Review					
Submit Date	08/30/2023						
Correspondent	Last Name: Webb Full Name: Brady, M, Web Practice/Company/Residency 1		Email: Rochester Ge	bradymwebb71@yahoo.com eneral Hospital			
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Purpose	The purpose of this study is to interventions regarding Lisfrar			incidence of pes planus with different types of lso be investigated.			
Methodology	conducted to identify articles t followed standard methodolog	A systematic review of studies published in PubMed, Google Scholar and Cochrane library through July 2023 was conducted to identify articles that evaluated pes planus as a complication following treatment of a Lisfranc injury. We followed standard methodology for performing a systematic review using PRISMA guidelines. Individual case reports, literature reviews and studies that did not discuss pes planus as a complication were excluded.					
Procedures							
Results	retrospective comparative stud feet were found to have post tr	1701 articles were identified and five studies were included representing 97 patients and 98 feet. One study was a level III retrospective comparative study while the others were level IV case series. Thirty-eight percent (37/98) of the examined feet were found to have post traumatic pes planus after treatment. In studies that recorded pain and foot deformity outcomes, there was a calculated VAS score of 6.7 (n=14) for patients with acquired pes planus compared to 3.5 (n=10) in patient's without.					
Discussions	average VAS scores compared	As illustrated by patient follow up scores, patients with post treatment pes planus reported worse outcomes according to average VAS scores compared to their peers. Evaluation of the patient's medial longitudinal arch should be considered prior to choosing interventions in treatment of Lisfranc injuries.					
Format	Systematic Review						
Case Rpt Followup	12						
Student Club	Not a Student Club Poster						
Classification	Trauma						
Level of Evidence	Level III						
Authors/Financial E	Disclosures						
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Submission ID	05-01147			Ref ID SR-1147		
Title	Gunshot Wounds t Analysis	to the Forefoot in a Leve	l 1 Trauma	a Center: A Retrospective Cohort		
Submit Date	08/30/2023					
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Purpose	This study aims to assess t	the morbidity/epidemiology of GS	W's to the fore	foot at a level 1 trauma hospital.		
Methodology	forefoot; defined as the an	Emergency department visits at Detroit Receiving Hospital from 2000-2019 were analyzed isolating GSW's to the forefoot; defined as the anatomical region distal to the tarsometatarsal joints (inclusion criteria). Data derived included sample size meeting inclusion criteria, gender, ethnicity, age, and length of stay (4 ranges/with or without surgical intervention).				
Procedures						
Results	represented White (14.899) 47 individuals, 24 spent 0- 14 stayed 2-3 days (29.799)	47 individuals were included, (44 males (93.62%)/3 females (6.38%)). 39 represented African American (82.98%), 7 represented White (14.89%), and 1 represented Other (2.13%). Ages ranged from 15-64 (average 28.68/median 26). Of the 47 individuals, 24 spent 0-1 days at the hospital (51.1%) (5 required surgical intervention 20.83% and 19 did not 79.17%). 14 stayed 2-3 days (29.79%). 7 stayed 4-7 days (14.89%). Lastly, 2 patients stayed >8 days (4.26%). All patients that stayed over 2 days required intervention. The average length of stay was 2.43 days (median 1 day).				
Discussions	chance of non-operative m 28.68) males (93.62%) rep	nanagement (40.43%) requiring a l	ength of stay b of individuals	ows that forefoot injuries have a significant etween 0-1 days (51.1%). Young (mean age affected by GSW's to the forefoot. Further foot.		
Format	Systematic Review					
<b>Case Rpt Followup</b>	228					
Student Club	Not a Student Club Poster					
Classification	Trauma					
Level of Evidence	Level IV					
Authors/Financial D	visclosures					
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Submission ID	05-01171				Ref ID SR-1171	
Title		Total Ankle Arthroplasty in the Varus & Valgus ankle: A Systematic Review of Current Concepts				
Submit Date	08/30/2023					
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	Practice/Con	npany/Residend	cy Program:	HCA Westsie	de Regional Medical Center	
Authors	Author 1:	Dhavel Cha	uhan, DPM	Author 2:	Ohm Raj, B.S.	
	Author 3:	Dr. Steven S	Spinner, DPM	Author 4:	•	
	Author 5:		•	Author 6:		
	Author 7:			Author 8:		
Purpose	assessing its	We aim to review recent literature on total ankle arthroplasty with varus or valgus malalignment beyond 15 degrees, assessing its feasibility and effectiveness. While a 15-degree deformity was considered the limit, newer evidence indicates surgeons are operating on alignments surpassing this threshold.				
Methodology	articles were	chosen that dis	scussed TAA in Varus and valgus	s deformities, 5	were gathered. For the systematic review, 10 of which highlighted malignments exceeding risons and no content over a decade old.	
Procedures						
Results	deformity yie	In general, the P value indicating differences in cohorts comparing minor malignment or no deformity to greater degrees of deformity yielded no significant difference. Parameters measuring patient-reported outcomes and clinical evaluation yielded significant improvement in larger deformities with varying levels of reoperation rates.				
Discussions	primary optic	on. Though sor	ne papers indicate that concomita	ant procedures	15 degrees of deformity as being a feasible may be indicated, those who undergo TAA with the short-to-medium-term follow-up.	
Format	Systematic R	eview				
Case Rpt Followup						
Student Club	Not a Studen	t Club Poster				
Classification	Rearfoot and	Ankle Recons	truction			
Level of Evidence	Level III					
Authors/Financial D Full Name:	Isclosures Email:		Disalagura(a) salaatad:		Disalogad Organisation(a);	
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Submission ID	05-01174			Ref ID SR-1174		
Title	Importance of Early D Pyogenes	Importance of Early Diagnosis of Necrotizing Fasciitis caused by Streptococcus Pyogenes				
Submit Date	08/30/2023					
Correspondent	Last Name: Baxter Full Name: Nicole R Baxter, Practice/Company/Residency Pr		Email: Emory Deca	nbaxter459@gmail.com tur		
Authors	Author 1:Nicole R BaxterAuthor 3:Angela S Moon,Author 5:Emily A HermesAuthor 7:Author 7:		Author 2: Author 4: Author 6: Author 8:	Neil S Upadhyay, DPM Kush H Patel, DPM Robin H Dretler, MD		
Purpose	To emphasize the importance of Understanding the clinical symp			coccus pyogenes induced necrotizing fasciitis. norbidity and mortality rates.		
Methodology	articles discussing streptococcus	A systematic review of studies published in Medline and CINAHL databases from 2017 to June 2023 was used to identify articles discussing streptococcus pyogenes NF. We followed standard methodology for performing a systematic review using PRISMA guidelines. Studies that did not focus on the lower extremity were excluded.				
Procedures						
Results	pyogenes. Most studies were clir	A total of 559 articles were identified and 12 were included representing 336 lower extremity NF by streptococcus pyogenes. Most studies were clinical levels with a few retrospective studies. The time to diagnosis and outcomes (debridement, amputation, death) were analyzed.				
Discussions	Most cases with poor outcomes l and pathology results leads to an debridement are essential. Morta	There is a focus on combined clinical and laboratory results for the prompt diagnosis of NF by streptococcus pyogenes. Most cases with poor outcomes had either delayed diagnosis or a compromised host. Timely diagnosis using clinical, labs and pathology results leads to an improved outcome for patients with NF. Prompt therapy of IV antibiotics and debridement are essential. Mortality rates used to be as high as 70-80%; analyzing the results of the studies, mortality rate has decreased to 24.11%, which is significant. Rapid diagnosis is key.				
Format	Systematic Review					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Wound Care/Infectious Diseases					
Level of Evidence	Level III					
Authors/Financial I	Disclosures					
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Submission ID	05-01199			Ref ID SR-1199			
Title	1 1	Bisphosphonate and Teriparatide use for Lower Extremity Stress Fractures and Nonunions: A Systematic Review					
Submit Date	08/31/2023						
Correspondent	Last Name: Patel						
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Authors	-	Patel, DPM 2. Onyenma, DPM	Author 2: Author 4: Author 6: Author 8:	Brady M. Webb, DPM Paul J. Merkel, DPM			
Purpose	Our aim for this study is stress fractures of the lo		cute use of bisphosphor	nates and teriparatide to treat nonunions and			
Methodology	conducted to identify ar fractures. PRISMA guid	A systematic review of studies published in Pubmed, Google Scholar and Cochrane library through July 2023 was conducted to identify articles that evaluated the use of bisphosphonates or teriparatide to treat nonunions and stress fractures. PRISMA guidelines utilized. Studies that evaluated bisphosphonate or teriparatide use as treatments for injuries not related to the lower extremity were excluded.					
Procedures							
Results	evaluating bisphosphon	ates (levels III and IV) foun aratide studies (levels II, III	d increased bone miner	6 nonunions and stress fractures. Studies al density with significant reduction of bone ally significant reductions in healing time in both			
Discussions	fractures of the lower ex determine if the use of the conservative or surgical	The use of bisphosphonate and teriparatide both illustrate unique benefits in the acute treatment of nonunions and stress fractures of the lower extremity, with few documented negative side effects. Bone quality assessment is reasonable to determine if the use of bisphosphonate is warranted. Teriparatide has been shown to be effective in conjunction with conservative or surgical treatment. The use of bisphosphonates and teriparatide in the acute setting is an effective intervention in nonunions and stress fractures of the lower extremity.					
Format	Systematic Review						
Case Rpt Followup	12						
Student Club	Not a Student Club Pos	ter					
Classification	Trauma						
Level of Evidence	Level III						
Authors/Financial	Disclosures						
Full Name:	Email:	Disclosure(s) se	elected:	Disclosed Organisation(s):			
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Submission ID	05-01209			Ref ID SR-1209		
Title	Calcaneal Tube & Surgical Ma		es: A Systema	tic Review of Fixation Techniques		
Submit Date	08/31/2023					
Correspondent	Last Name: Badil Full Name: Karis Practice/Company/R	sa J. Badillo, DPM	Email: University o	badillokj2@upmc.edu f Pittsburgh Medical Center		
Authors		ssa Badillo, DPM nne Vesce, DPM	Author 2: Author 4: Author 6: Author 8:	Emily Zink, DPM Jeffrey Manway, DPM		
Purpose	There is currently no established consensus regarding the optimal fixation construct and surgical approach for calcaneal tuberosity fractures. The purpose of this systematic review is to assess different fixation methods and how they relate to complication and surgical outcomes.					
Methodology	that evaluated fixatio cadaver or animal mo fractures or achilles t	n constructs of calcaneal tuberosity odels, had patients under the age of	/ fractures. PRISM 18, intra-articular nmary estimates fo	e databases was conducted to identify articles A guidelines were followed. Studies using fractures, or patients who had concomitant r mean visual analog scale (VAS), mean AOFAS tudies.		
Procedures						
Results	We identified 31 studies including 208 patients (200 surgically treated calcaneal tuberosity fractures). 19/31 (61%) of authors utilized screw fixation as primary or part of their fixation construct. Regarding surgical complication rate, 45.1% of studies reported a post-operative complications. Only 32.2% of studies reported postoperative AOFAS Scores, the average was 86.44.					
Discussions	Despite fixation meth	nod, these fractures continue to den	nonstrate significar	ntly high complication rates.		
Format	Systematic Review					
Case Rpt Followup						
Student Club	Not a Student Club P	oster				
Classification	Trauma					
Level of Evidence	Level III					
Authors/Financial D	isclosures					
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):		
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Jeffrey Manway, DPM	Manwayjm@upmc.edu	I/We have nothing to discl	lose			

Submission ID	05-01223			Ref ID SR-1223	
Title				imb Peripheral Neuropathy Peripheral Neuropathy: A	
Submit Date	08/31/2023				
Correspondent	Last Name: Abraham Full Name: David, P, Abrahar Practice/Company/Residency Pro		Email: Barry Univer	david.abraham@mymail.barry.edu sity School of Podiatric Medicine	
Authors	Author 1:David, P, AbraharAuthor 3:Riley, Westover, IAuthor 5:Author 7:	3S #	Author 2: Author 4: Author 6: Author 8:	Faraazullah, Quadri, BS Antonio, Fernandez, MD	
Purpose	Compare the efficacy of Peripher neuropathy.	al Nerve Stimulation vs the st	tandard of ca	are (gabapentin) when treating peripheral	
Methodology	Peripheral nerve stimulation", "P	eripheral neuropathy PNS", "	Peripheral N	23. Terms like "Peripheral neuropathy leuropathy Gabapentin", and "Peripheral aluated were design, patient details, outcomes,	
Procedures					
Results				roximately 1929 cases of peripheral neuropathy t-amputation or diabetic neuropathy.	
Discussions	PNS offers a more effective appro over gabapentin in treating lower	There is a noticeable difference in the effectiveness of PNS versus gabapentin in treating lower limb peripheral neuropathy. PNS offers a more effective approach for chronic peripheral neuropathy than gabapentin. PNS appears to have an edge over gabapentin in treating lower limb peripheral neuropathy. Its consistent positive outcomes position PNS as a potentially preferred long-term treatment option, though further research is recommended.			
Format	Systematic Review				
<b>Case Rpt Followup</b>	0				
Student Club	Not a Student Club Poster				
Classification	Neurological/Peripheral Nerve D	isorders			
Level of Evidence	Level III				
Authors/Financial I	Disclosures				
Full Name:	Email:	Disclosure(s) selected:		Disclosed Organisation(s):	
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Submission ID	05-01235			Ref ID SR-1235	
Title		etic Cyst Formation in ts: A Systematic Review		neration Fixed-Bearing Total	
Submit Date	08/31/2023				
Correspondent	Last Name: Miner Full Name: Samantha A Practice/Company/Residen	A. Miner, DPM AACFAS cy Program:	Email: Upperline He	dr.sam.miner@gmail.com ealth Inc	
Authors		A. Miner, DPM, AACFAS artucci, DPM, AACFAS	Author 2: Author 4: Author 6: Author 8:	Marina R. Tony, DPM, AACFAS	
Purpose	The purpose of this system TARs.	atic review was to identify the ra	ate of periprosth	etic cyst formation in the newest generation of	
Methodology	An extensive search strategy via an electronic database initially captured 118 citations that were evaluated for relevance. Abstract screening produced 10 articles to be read in entirety, of which, 6 articles studying 569 implants met inclusion criteria for analysis. Prevalence of periprosthetic cyst formation was recorded for each study and a weighted average was obtained. Progression to osteolysis and need for revision were also collected when available.				
Procedures					
Results	the Infinity, Cadence, and			4.8%). Rates of periprosthetic cyst formation in respectively. Need for revision and progression	
Discussions	Our review demonstrates similar rates of periprosthetic lucency in patients with fourth-generation fixed-bearing TARs overall when compared to earlier implant systems. Despite the evolution of TAR implants over the past decade, periprosthetic cyst formation remains an impending risk for failure. In an effort to improve survivorship, future studies must strive to understand risk factors associated with the development of periprosthetic cysts.				
Format	Systematic Review				
<b>Case Rpt Followup</b>	12				
Student Club	Not a Student Club Poster				
Classification	Rearfoot and Ankle Recons	struction			
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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Submission ID	05-01253				Ref ID SR-1253		
Title	Efficacy o	Efficacy of 3D Implanted Bone Models for Reconstructive Surgery					
Submit Date	08/31/2023						
Correspondent	Last Name: Full Name: Practice/Com		Keane, DPM cy Program:	Email: Emory Univ	slkeane@emory.edu ersity School of Medicine		
Authors	Author 1: Author 3: Author 5: Author 7:	Spencer Ke Shivani Pate Peter Talisse	el, DPM	Author 2: Author 4: Author 6: Author 8:	Adrianne Ross, DPM Justin Carney, DPM		
Purpose	3D printed im further surgica			ankle reconstru	ctive surgery and may prove beneficial for		
Methodology	Systematic review was conducted to evaluate the efficacy and different modalities of use for 3D implanted bone models. Per PRISMA guidelines, research was conducted on this new technology. Cadaveric studies were excluded. Statistical analysis of patients who would need secondary surgery following a 3D implant were included.						
Procedures							
Results	A retrospective analysis and multiple case studies were included. Indications for implant included bone loss, nonunion, avascular necrosis, Charcot arthropathy, failed total ankle replacement, osteomyelitis, osteonecrosis and congenital deformities. The retrospective analysis included 39 patients who received 3D printed implants with minimum follow up of 1 year. 74% of the 3D implants remained in vivo and provided successful patient outcomes. 13 of 39 patients required secondary surgery. Neuropathy was a statistically significant risk factor for subsequent surgery. Case studies utilized custom 3D printed implants for salvage after navicular, calcaneal and ankle fractures. All included studies show positive patient outcomes.						
Discussions					aluable for potential in Podiatric Reconstructive y have been seen and warrant further study.		
Format	Systematic Re	eview					
Case Rpt Followup Student Club Classification Level of Evidence	Not a Student Diabetic Foot Level III						
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reter Tallsse, Drivi	ptalisse@gmail.	com	I/We have nothing to disclose	;			

Submission ID	05-01257			Ref ID SR-1257	
Title	Efficacy of Nerve Tra Nerve Palsy	Efficacy of Nerve Transfers in Improving Function in Patients with Common Peroneal Nerve Palsy			
Submit Date	08/31/2023				
Correspondent	Last Name: Hogan Full Name: Steven Practice/Company/Residency I	Program:	Email: Emory Unive	steven.michael.hogan@gmail.com ersity School of Medicine	
Authors	Author 1:Steven HoganAuthor 3:Maddy Boyle,Author 5:Shivani Patel, IAuthor 7:		Author 2: Author 4: Author 6: Author 8:	Gifferd Ko, DPM Ayanda Dube, DPM Neil Upadyhay, DPM	
Purpose	The purpose of this review aim transfers in patients with comm		s an alternative	to conservative treatment or solitary tendon	
Methodology	of common Peroneal nerve pal were excluded. Studies were ir	A systematic review was conducted to evaluate the efficacy of tibial nerve transfers for restoring ankle dorsiflexion in cases of common Peroneal nerve palsy. PRISMA guidelines were followed for this review. Animal model and cadaver studies were excluded. Studies were included that used BMRC standard for dorsiflexion and listed time to surgical intervention. All patients included had at least 6 months follow up.			
Procedures					
Results				rage time to surgery was 7.1 months. 27/61 M2. 11/61 were graded as M1. 19/61 did not	
Discussions	mechanism of injury may play	Nerve transfers in isolation for common Peroneal nerve palsy provide inconsistent ankle dorsiflexion. Time to surgery and mechanism of injury may play a critical role in restoration of ankle dorsiflexion in patients undergoing tibial nerve transfer. Further study is warranted, and nerve transfer with concomitant tendon transfer may be of interest in restoring functional ankle dorsiflexion.			
Format	Systematic Review				
<b>Case Rpt Followup</b>					
Student Club	Not a Student Club Poster				
Classification	Neurological/Peripheral Nerve	Disorders			
Level of Evidence	Level IV				
Authors/Financial I	Disclosures				
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Submission ID	05-01295 Ref ID SR-1						
Title	0	Assessing the Potential Noninferiority of Oral Antibiotics in the Treatment of Osteomyelitis: A Systematic Review					
Submit Date	08/31/2023						
Correspondent	Last Name: Pham Full Name: Vi Xua Practice/Company/Res	in Pham, BS, MS Email: jidency Program: Samuel M	vi.pham@samuelmerritt.edu 4erritt University College of Podiatric Medicine				
Authors	Author 1:Vi XuaAuthor 3:Gil PaAuthor 5:Author 7:	in Pham, BS, MS Author 2: iz, BS Author 4: Author 6: Author 8:					
Purpose	This study examines the comparison to intraver	ne literature on the inferiority or lack thereof of us nous.	sing oral antibiotics to treat osteomyelitis in				
Methodology	intravenous antibiotics	A systematic review was conducted in July 2023 utilizing Pubmed to identify articles pertaining to oral antibiotics and intravenous antibiotics for the treatment of osteomyelitis. PRISMA guidelines were used and the GRADE score was implemented to assess for bias. Cadaver and animal studies were excluded.					
Procedures							
Results		6094 articles were populated in the initial search with 65 articles being deemed eligible based on inclusion criterias based on filters. Upon review of the abstracts, 3 articles were included representing approximately 1,416 cases of osteomyelitis.					
Discussions	The field would benefit from more RCTs reviewing the potential noninferiority of oral antibiotics as well as determining the time period in which taking oral antibiotics may be as effective as IV. The literature does support that oral antibiotics may result in similar outcomes after discharge for patients with osteomyelitis; however, more data is needed to establish a treatment regimen.						
Format	Systematic Review						
<b>Case Rpt Followup</b>							
Student Club	Not a Student Club Po	ster					
Classification	Wound Care/Infectiou	s Diseases					
Level of Evidence	Level III						
Authors/Financial I	Disclosures						
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Submission ID	05-01341			Ref ID SR-1341		
Title	0	Limb Salvage with Partial Calcanectomy Procedures and Use of External Fixator Devices: A Systematic Review and Meta-Analysis				
Submit Date	08/31/2023					
Correspondent	Last Name: McElroy Full Name: Tara, Clare, I Practice/Company/Residenc	McElroy, DPM, MPH y Program:	Email: Inova Fairfa	tmcelroy2021@gmail.com x Medical Campus		
Authors	Author 1:     Tara, McElro       Author 3:     Anthony, Scl       Author 5:     Hozaifa, Anj       Author 7:     Pyrsi, Sara, I	um, DPM	Author 2: Author 4: Author 6: Author 8:	Gregory, Rose, DPM David, Siegel, DPM Lauren, Weisel, DPM Creech, Corine, DPM, FACFAS		
Purpose	The purpose of this study is external fixation plays in imp		tial calcanector	ny procedures in limb salvage and the role		
Methodology	January 2004 to date. Inclusi retrospective studies, and cas	A systematic review was conducted under PRISMA guidelines of studies published in Pubmed and Google Scholar from January 2004 to date. Inclusion criteria entailed partial calcanectomy procedures in randomized controlled trials, retrospective studies, and case series. Exclusion criteria entailed patients under 18, articles not in English, and total calcanectomy. A Fischer exact test was used to compare salvageability rates with and without the use of the external fixator.				
Procedures						
Results	fixator use. Overall limb salv	1026 articles were identified for partial calcanectomy procedures. A total of 11 studies were included, 3 with external fixator use. Overall limb salvage rate was 79.52%, with 91.4% before 2 years versus 77.97% at 3 years or after. With the addition of an external fixator device, limb salvage rate was 96% compared to 79.8% without (p<0.05).				
Discussions		Long term limb salvage rates for partial calcanectomy procedures are less promising after three years; however, the addition of an external fixation devices appears to improve limb salvage rates.				
Format	Systematic Review					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III					
Authors/Financial D	isclosures					
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Submission ID	05-01360		Ref ID SR-1360				
Title		Investigating Early Functional Weight Bearing Following Achilles Tendon Rupture Repair: A Systematic Review					
Submit Date	08/31/2023						
Correspondent	Last Name: Sandhu						
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	Author 5:	Au	thor 6:				
	Author 7:	Au	thor 8:				
Purpose		The study aims to explore early functional weight bearing rehabilitation following achilles tendon rupture repair in comparison to the standard of care.					
Methodology	bearing following achilles tend	A systematic review of PubMed was conducted in July 2023 to identify articles that discussed early functional weight bearing following achilles tendon repair from January 2013 to July 2023. The standard methodology of doing a systematic review with PRISMA guidelines was used. Cadaver studies and animal studies were excluded.					
Procedures							
Results	Upon initial search, there were patients represented in this stu		ed for the systematic review. There are approximately 1672				
Discussions	age, athletic background, and	Although early functional weight bearing rehabilitation appears promising, there may be limitations to the studies such as age, athletic background, and severity of rupture. Functional weight bearing has shown benefits in healing acute achilles tendon ruptures, but there is a need for more research to determine how early is appropriate.					
Format	Systematic Review						
<b>Case Rpt Followup</b>							
Student Club	Not a Student Club Poster						
Classification	Soft Tissue/Tumor						
Level of Evidence	Level III						
Authors/Financial I	Disclosures						
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Submission ID	05-00707 Ref ID S				
Title	Screw Characteristics for Intramedullary Fixation of the Jones Fractures and Associated Outcomes: A Systematic Review.				
Submit Date	07/17/2023				
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Authors	Author 1:Daniel D LowAuthor 3:Sam Wier, DFAuthor 5:Ronald AdelnAuthor 7:	PM	Author 2: Author 4: Author 6: Author 8:	Sean Grambart, DPM, FACFAS Vanessa Adelman, DPM	
Purpose	We examined complication ra		rs and cannulat	n intramedullary fixation of the Jones fracture. ted versus solid screws. Also, we measured	
Methodology				earch relevant databases, resulting in 4,376 on, 8 studies were included in the review.	
Procedures					
Results	All studies included 233 subjects with 23 complications. Screw diameter sizes ranged from 4.0mm-6.5mm. Comparing smaller screws (4.0mm & 4.5mm) to larger diameter screws (5.0mm, 5.5mm, & 6.5mm), no significant difference was found in complication rates (p=.226). Comparison between cannulated and solid screws involved 149 cannulated and 84 solid screws, with 12 complications for cannulated and 11 for solid screws, and no significant difference in complication rates (p=.214). The mean time to RTP for all screw sizes was 8.3 weeks, with 7.7 weeks for 4.0mm, 7.9 weeks for 4.5mm, 9.2 weeks for 5.5mm, and 7.1 weeks for 6.5mm. No significant difference was found comparing each screw diameter and time to RTP.				
Discussions	Screw diameter size and cannulation versus solid screws are not associated with complication rate or early RTP. Nonetheless, surgeons should still select the largest screw, based on torque during taping, ensuring osseous purchase				
Format	Systematic Review				
Case Rpt Followup					
Student Club	Not a Student Club Poster				
Classification	Forefoot Reconstruction Level III				
Level of Evidence					
Authors/Financial D Full Name:	visclosures Email:	Discharge () schools			
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Submission ID	05-00721		Ref ID SR-721			
Title		Accuracy and Precision Reporting in Diabetic Foot Osteomyelitis Biomarker Diagnostic Literature: A Systematic Review and Meta-Analysis				
Submit Date	07/22/2023					
Correspondent	Last Name: Coye					
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	Practice/Company/Residency Prog	gram: University of	of Texas Southwestern			
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	Author 5: Lawrence Lavery,	DPM Author 6:				
	Author 7:	Author 8:				
Purpose			used for reporting results of diagnostic accuracy tamined variations in precision reporting of these			
Methodology	studies reporting results for bioma were screened and information on	Relevant diagnostic accuracy studies were selected from MEDLINE, Scopus, and Cochrane databases. We examined only studies reporting results for biomarkers in diagnosing diabetic foot osteomyelitis. The structured abstracts of these studies were screened and information on accuracy measures and precision were extracted from the full texts of 19 relevant studies reporting results for 50 biomarkers. We examined				
Procedures						
Results	36/50 (72%) biomarkers and likeli Diagnostic odds ratios were report	Sensitivity or specificity was used for reporting the results in 49/50 (98%) biomarkers. Predictive values were reported for 36/50 (72%) biomarkers and likelihood ratios in 19/50 (38%). Area under the curve (AUC) was reported in 35/50 (70%). Diagnostic odds ratios were reported in none of the studies. Regarding precision estimates, confidence intervals were reported for sensitivity for 33/50 (66%) of biomarkers, 9/50 (18%) for specificity, and 23/50 (46%) for AUC.				
Discussions	biomarkers in diagnosing osteomy	There is a significant amount of variability in how results are reported and summarized in diagnostic accuracy studies for biomarkers in diagnosing osteomyelitis in the diabetic foot. It is crucial to establish a consensus regarding the most effective approaches for reporting test accuracy study results in this research area.				
Format	Systematic Review	Systematic Review				
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Diabetic Foot					
Level of Evidence	Level III	Level III				
Authors/Financial	Disclosures					
Full Name:	Email:	Disclosure(s) selected:	Disclosed Organisation(s):			
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Submission ID	05-00869				Ref ID SR-869		
Title	Incidence Review	Incidence of Complications After Minimally Invasive Lapidus Surgery: A Systematic Review					
Submit Date	08/14/2023						
Correspondent	Last Name:	Thompson					
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	Author 3:	Andrew D. Elliot	it, DPM, JD	Author 4:			
	Author 5: Author 7:			Author 6: Author 8:			
_							
Purpose	Determine th	e incidence of comp	olications currently rep	oorted in minimally	invasive Lapidus procedure.		
Methodology	Items for sys tarsometatars considered. S	A systematic review of electronic databases and relevant peer-reviewed sources as outlined by the Preferred Reporting Items for systematic Reviews and Meta-Analyses guidelines. Studies that included MIS technique of Lapidus (or tarsometatarsal fusion), used fixation, had a minimum average follow up of 6 months, and included complications were considered. Some of the studies included patients with concomitant procedures. The included studies did not report on comorbidities. Cadaveric studies and non-English studies were excluded.					
Procedures							
Results	commonly re				of complications was 12.3% ( $n=20$ ) and the most on ( $n=5$ ), deformity recurrence ( $n=3$ ), and		
Discussions	first ray requ literature for	This updated minimally invasive approach provides a safe and reproducible surgical option to correct deformities of the first ray requiring tarsometatarsal fusion with an incidence of complications lower than what is currently reported in the literature for the open variations of the procedure. The minimally invasive approach should be taken into consideration when planning surgery of the first ray.					
Format	Systematic R	Leview					
<b>Case Rpt Followup</b>	0						
Student Club	Not a Studen	t Club Poster					
Classification	Forefoot Rec	onstruction					
Level of Evidence	Level III						
Authors/Financial I	Disclosures						
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Submission ID	05-00957			Ref ID SR-957		
Title		Outcomes and Complications Associated With Lateral Column Lengthening Using Porous Titanium Wedges for Flexible Flatfoot Deformity Correction: A Systematic Review				
Submit Date	08/24/2023					
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Purpose	This systematic review aims (LCL) using porous titaniun		s and complicat	tions associated with lateral column lengthening		
Methodology	Systematic Reviews and Me searched. Publications with articles and those that did no	A standard methodology for performing a systematic review was followed using PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analysis) guidelines. PubMed, Google Scholar, OVID, Enbase, and Cochrane were searched. Publications with at minimum 1-year follow-up, and LCLs performed with PTWs were included. Non-English articles and those that did not perform LCL with PTWs were excluded. 508 articles were identified. 7 studies met the inclusion criteria following review by the authors.				
Procedures						
Results	246 LCLs (236 patients) using PTWs were reported. The FAAM Activities of Daily Living (ADL) score measured at 80.45 (80.0-80.9) post-operatively. FAAM Sports subscale measured post-operatively at 58.5 (50.0-66.9). VAS pain score decreased from 5.45 (5.0-5.9) pre-operatively to 2.43 (1.6-3.0) post-operatively. Major complications including non-union, reoperation, deep infection, chronic regional pain syndrome (CRPS) was 2.1% (5/236). A total complication rate was found to be 15.2% (36/236).					
Discussions	The evidence from this systematic review suggests that LCL with PTWs can be an effective and viable option for correcting flexible flatfoot deformities. The use of PTWs appears to offer comparable functional results and complication rates to traditional allograft or autograft wedges.					
Format	Systematic Review					
Case Rpt Followup						
Student Club	Not a Student Club Poster					
Classification	Rearfoot and Ankle Reconst	ruction				
Level of Evidence	Level IV					
Authors/Financial Di	isclosures					
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Submission ID	05-00995			Ref ID SR-995		
Title		Outcomes of Surgical Management of Hallux Abductovalgus with Concomitant Metatarsus Adductus Deformity: A Systematic Review with Meta-Analysis				
Submit Date	08/27/2023					
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Purpose	To evaluate the literature on concomitant metatarsus addu		nd treatment str	ategies of hallux abductovalgus (HAV) with		
Methodology	2023 was performed. Standa operative management of HA	A systematic review of studies published in Pubmed, Medline, Cochrane, and OVID databases between January 2003-June 2023 was performed. Standard PRISMA guidelines were followed. Studies with a minimum of 1 year follow-up and operative management of HAV with MA were included. The mean radiographic outcomes, patient reported outcome measure scores, and complication rates were calculated.				
Procedures						
Results	279 articles were initially identified. 8 articles met the inclusion criteria, for a total of 237 feet. 5 studies were level 3, while 3 studies were level 4 evidence. Procedures undertaken exhibited substantial heterogeneity across studies, revealing the lack of a standardized approach. The intermetatarsal, hallux valgus, and metatarsus adductus angles were all statistically significantly improved. Recurrence occurred in 12.2% of patients, necessitating revision in 1.7%. Total complication rate was 7.2%, with nonunion as the primary complication (1.7%). The mean AOFAS score improved from 53.4 preoperatively to 88.8 postoperatively (p<0.00001) in 5 studies (n=117 feet). The mean postoperative VAS score was 1.4 in 3 studies (n=108 feet).					
Discussions	No "gold standard" treatment exists for surgical management of HAV with MA. However, favorable functional outcomes with a low reoperation rate can be expected. HAV with concomitant MA can be successfully treated with a combination of arthrodesis and osteotomy procedures.					
Format	Systematic Review					
<b>Case Rpt Followup</b>						
Student Club	Not a Student Club Poster					
Classification	Forefoot Reconstruction	Forefoot Reconstruction				
Level of Evidence	Level III					
<b>Authors/Financial D</b>	isclosures					
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Submission ID	05-00997			Ref ID SR-997	
Title	Outcomes of Pantalar Dislocations: A Systematic Review				
Submit Date	08/27/2023				
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Purpose	Limited literature is availab	le on outcomes in pantalar dislo	cations.		
Methodology	A systematic review of studies published in Pubmed, Medline, Cochrane, and OVID databases between January 2003- April 2023 was performed to identify articles evaluating outcomes following treatment of pantalar dislocations. Standard PRISMA guidelines were followed. Studies with a minimum of 1 year follow-up, patient reported outcome measures (PROMs), and mention of complications were included. The mean complication rate, secondary operation rate, and PROM scores were calculated based on the included articles.				
Procedures					
Results	were level 4 evidence. Oper reduction with external fixa 11.3% (7/62) infections. 19.	n dislocations (40/62; 65%) were tion (n=12). Complications inclu 4% (12/62) required a secondar	more common ided 30.6% (19 y operation. Th	or a total of 62 pantalar dislocations. All studies 1. The most common treatment was open 1/62) osteonecrosis, 17.7% (11/62) arthritis, and e pooled mean AOFAS score was 75.8 (66.7 to 5.3 to 45.0) in 2 studies (n=37 patients).	
Discussions	Surgeons managing lower extremity trauma should be aware of pantalar dislocations, the management of these injuries and the outcomes to appropriately counsel patients prior to intervention. Although high complication rates can be expected with pantalar dislocations, functional outcomes are acceptable at short term follow-up.				
Format	Systematic Review				
<b>Case Rpt Followup</b>					
Student Club	Not a Student Club Poster				
Classification	Trauma				
Level of Evidence	Level IV				
Authors/Financial D	isclosures				
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