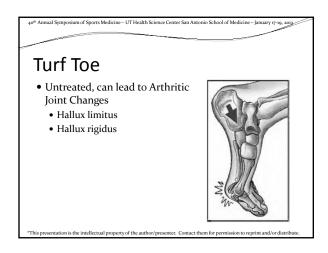
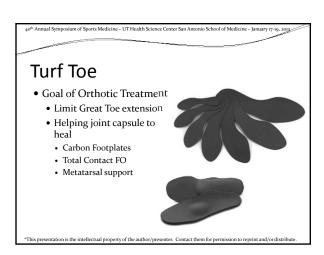
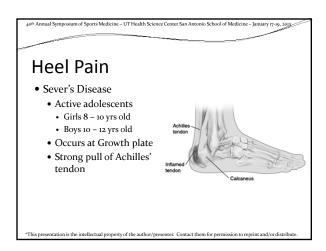
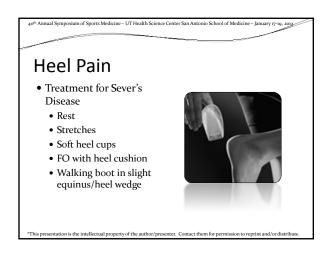
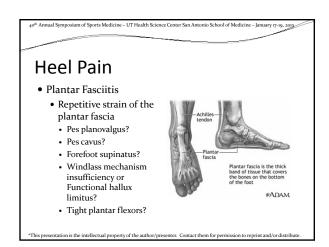
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Foot & Ankle Orthoses	
for the Athlete	
Seth O'Brien, CP, LP	
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Financial Disclosure	
Mr. Seth O'Brien has no relevant financial relationships with commercial interests to	
disclose.	
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Turf Toe	
Common in athletes playing on firm, artificial turf	
Forceful extension of 1st MTP joint	
• Injury to the joint capsule	
ž (d)	
in the same of the	



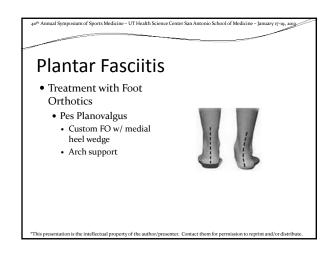


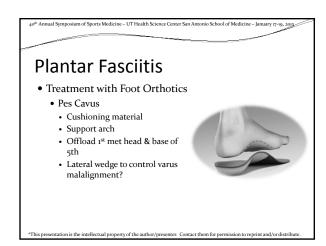


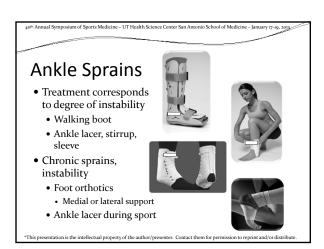


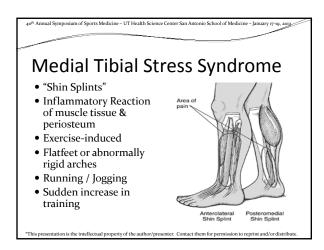


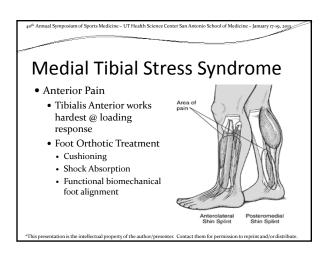


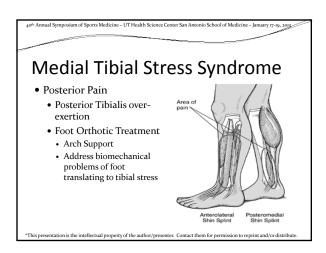


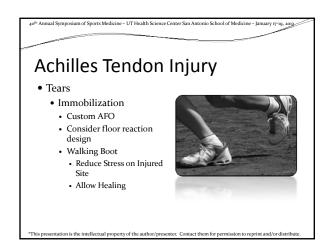


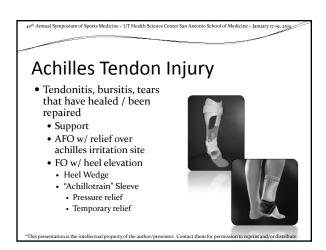


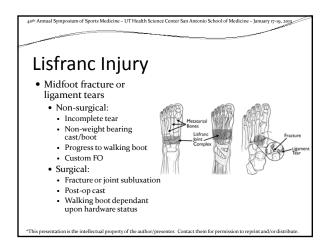


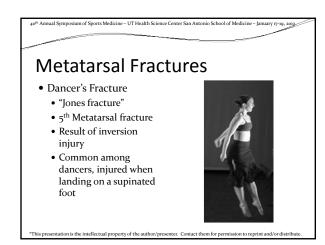


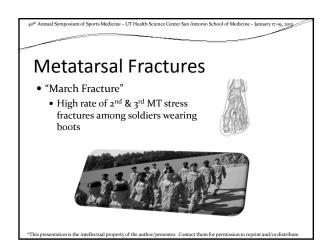


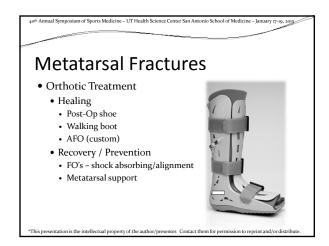












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"Low Risk" Stress Fractures	
<ul><li>Not as Likely to progress to complete fracture</li><li>Usually heals without complication</li></ul>	
<ul> <li>2<sup>nd</sup> Metatarsal Diaphysis</li> <li>Base of 5<sup>th</sup> Metatarsal</li> </ul>	
Posterior tibial shaft	
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"Low Risk" Stress Fractures	
<ul><li> Treatment includes:</li><li> Pneumatic sleeves – aircast type / gel</li></ul>	
<ul><li>Post-op shoe</li><li>Walking boot</li></ul>	
<ul><li> Total contact FO</li><li> Carbon foot plates</li></ul>	
	-
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// L D: L // C	
"High Risk" Stress Fractures • More likely to progress to complete fracture	
• Risks:	
<ul><li>Deformity due to malunion</li><li>Avascular necrosis</li><li>High incidences:</li></ul>	
<ul><li> Fign incidences:</li><li> Delayed union</li><li> Non-union</li></ul>	

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## "High Risk" Stress Fractures

- Tibial anterior cortex
- Medial malleolus
- Talus
- Navicular
- Proximal diaphysis of 5<sup>th</sup> metatarsal

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"High Risk" Stress Fractures

May require surgical intervention
Immobilization, non-weight bearing
Consider custom PTB
AFO
Patten bottom
Off-loading AFO
Solid ankle AFO
Total contact FO

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## **Preventative Treatment**

- Custom Foot Orthotics
  - Semi-rigid design / Total contact
  - Puff / EVA materials
    - Cork posting
  - Extra firm material posting
  - Sport design / Low profile
  - Thin, lightweight, flexible
    - Posted w/ EVA or similar material = shock absorption
    - Consider off the shelf type FO  $\,$
    - Accommodate boney prominences
    - $\bullet\,$  Can be padded for extra cushioning

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## **Conclusions**

- Orthotic treatments for sports-related injuries are diverse
- Biomechanical problems contributing to injury or developing as a result of injury are often treatable w/ functional orthoses
- "Whole Person" perspective is important in treating sports injuries

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