ACFAS INTERMEDIATE LEARNING PATHWAY:
Trauma 2 – Rearfoot: Soft tissue, Navicular, Calcaneus, & Talus

Learning Objectives of this Pathway:
- Describe fractures/dislocations of the navicular including etiology, anatomy, clinical workup, common patterns/classifications, surgical approach(es), fixation, and unique complications.
- Describe fractures/dislocations of the calcaneus including etiology, anatomy, clinical workup, common patterns/classifications, surgical approach(es), fixation, and unique complications.
- Describe fractures/dislocations of the talus including etiology, anatomy, clinical workup, common patterns/classifications, surgical approach(es), fixation, and unique complications.
- Describe soft tissue injuries and areas of particular risk of the rearfoot including the anatomy, surgical approach(es), specific complications.
- Understand the significance of soft-tissue assessment and management in surgical timing and specific surgical technique(s) used to decrease risk of complication.
- Understand patient comorbidities and risk factors relevant to surgical decision making.

Day 1: Soft Tissue

Clinical Sessions:
Deltoid Ligament: When and How Do We Repair?

Surgical Techniques:
None

Podcasts:
Deltoid Ligament Injuries

E-Book Chapters:
Trauma eBook
Ch2: Soft-Tissue Envelope: Assessment and Timing

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The learning pathways are divided into basic, intermediate, and advanced categories.

Pathways have been organized into specific topics that have a variety of educational materials from the ACFAS On Demand course content. They also include journal articles with links primarily from the Journal of Foot and Ankle Surgery (JFAS).
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**Journal Articles:**

- Compartment Syndrome of the Foot: An Evidence-Based Review
- Sequelae of Underdiagnosed Foot Compartment Syndrome after Calcaneal Fractures

**Outside Journal Articles:**

- The Pathophysiology, Diagnosis and Current Management of Acute Compartment Syndrome
- Vascularity of the Lateral Calcaneal Flap: A Cadaveric Injection Study
- Fracture Blisters: Clinical and Pathological Aspects
- Blisters Associated with Lower-Extremity Fracture: Results of a Prospective Treatment Protocol

**Day 2: Navicular**

**Clinical Sessions:**
None

**Surgical Techniques:**
Open Reduction Internal Fixation of Navicular Fracture (Tuberosity and Body)

**Podcasts:**
None

**E-Book Chapters:**
- Trauma eBook
- Ch8: NavicularFractures

**Journal Articles:**

- Navicular Stress Fracture Outcomes in Athletes: Analysis of 62 Injuries
- Results of Treatment of 22 Navicular Stress Fractures and a New Proposed Radiographic Classification System
- A Unique Procedure for Treatment of Osteochondral Lesions of the Tarsal Navicular: Three Cases in Athletes
- Complete Medial Dislocation of the Tarsal Navicular without Fracture: Report of a Rare Injury
- Relationship of the Dorsalis Pedis Artery to the Tarsal Navicular
- Navicular Body Fractures: Computerized Tomography Findings and Mechanism of Injury
- Vascularized Scapular Free Bone Graft after Nonunion of a Tarsal Navicular Stress Fracture: A Case Report
- Custom-Made Total Talonavicular Replacement in a Professional Rock Climber
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**Day 3: Talus (excluding OCDs – see separate topic)**

**Clinical Sessions:**

* Talar Neck Fractures: Pitfalls in Treatment

**Surgical Techniques:**

* Open Reduction Internal Fixation of Talar Neck Fracture

**Podcasts:**

None

**E-Book Chapters:**

* Trauma eBook
  * Ch 9: Osteochondral Fractures and Injuries of the Talus

**Journal Articles:**

* (Encourage to Review) - JFAS Collections: Talus Fracture
* Talar Body Fractures
* Talar Neck Fractures and Rates of Avascular Necrosis
* Lateral Process Fracture of the Talus: A Case Series and Review of the Literature
* Open Talus Fractures: Early Infection and Its Epidemiological Characteristics
* Talar Neck Fractures Treated Using a Highly Selective Incision: A Case-Control Study and Review of the Literature
* The Results of Physical, Radiologic, Pedobarographic, and Quality-of-Life Assessments in Patients with Surgically Treated Intraarticular Calcaneus Fractures
* Operatively Treated Talus Fractures: Complications and Survivorship in a Large Patient Sample
* Complications of Talar Neck Fractures by Hawkins Classification: A Systematic Review

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**Day 4: Calcaneus**

**Clinical Sessions:**

* Calcaneal Fracture: Decision Making

**Surgical Techniques:**

* Open Reduction Internal Fixation of Calcaneal Fracture

**Podcasts:**

* Calcaneal Fracture
* Calcaneal Fracture Management Open vs Closed
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