American College of Foot and Ankle Surgeons®

ACFAS ADVANCED LEARNING PATHWAY: Osteochondral Defects – Treatment Options

Learning Objectives of this Pathway:

- Describe the role of OCD morphology for decision making and surgical approach
- Describe various treatment options for OCDs
- Understand the role and limitations of ankle arthroscopy in management of OCDs
- Describe the arthroscopic OCD classification and clinical relevance in surgical decision making
- Describe the difference of non-tissue vs. tissue transplantation procedures
- Describe advantages and disadvantages utilizing arthroscopy vs. open arthrotomy

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Day 1: Morphology and Decision Making

Clinical Sessions

- Osteochondral Lesions of the Talus: Does Size of Repair Matter?
- Does Size Matter: What the Evidence Really Suggests
- Location, Location, Location: Outcomes Based on Location

Podcasts:
Osteochondral Lesions of the Talar Dome

E-Book Chapters:
Trauma eBook
Ch 9: Osteochondral Fractures and Injuries of the Talus

Outside Journal Articles:

- Subchondral Pathology: Proceedings of the International Consensus Meeting on Cartilage Repair of the Ankle
- Osteochondral Lesions of the Talus: Predictors of Clinical Outcome
- Return to Sports After Surgical Treatment of Osteochondral Defects of the Talus: A Systematic Review of 2347 Cases

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The ACFAS learning pathways are a tool to be used by residency directors, fellowship directors and school faculty to aid with didactic learning during the COVID-19 crisis. They are not intended to replace a curriculum, but to supplement student and resident education during this time of need.

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).

Day 2: Role of Arthroscopy & Microfracture

Clinical Sessions

- Talar Microfracture and Chondral Resurfacing
- Is Microfracture the Gold Standard?

Surgical Techniques
Arthroscopic Microfracture of OLTs

Podcasts:
None

E-Book Chapters:
Arthroscopy eBook
Ch 6: Arthroscopic Treatments of Ankle Osteochondral Lesions

Journal Articles:

- Arthroscopic Bone Grafting of Talar Bone Cyst Using Posterior Ankle Arthroscopy
- Arthroscopic Treatment of Osteochondral Lesions of the Talus Utilizing Juvenile Particulated Cartilage Allograft: A Case Series
- Arthroscopic Treatment of Osteochondral Lesions of the Talus Using Juvenile Articular Cartilage Allograft and Autologous Bone Marrow Aspirate Concentration
- Fixation of a Posteromedial Osteochondral Lesion of the Talus Using a Three-Portal Posterior Arthroscopic Technique

Day 3: OATs & Allografts

Clinical Sessions:

- OATS and Fresh Osteochondral Allograft Transplantation: When Do They Work?
- Allografts for OLT

Surgical Techniques:
Treatment of Osteochondral Defects

Podcasts:
None

E-Book Chapters:
None

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Journal Articles:

- Osteochondral Allograft Transplantation Surgery for Osteochondral Lesions of the Talus in Athletes
- Vascularized Medial Femoral Condyle Autografts for Osteochondral Lesions of the Talus: A Preliminary Prospective Randomized Controlled Trial
- Complications of En Bloc Osteochondral Talar Allografts and Treatment of Failures: Literature Review and Case Report

Outside Journal Articles:
The Role of Demineralized Allograft Subchondral Bone in the Treatment of Talar Cystic OCD Lesions That Have Failed Microfracture

Day 4: Emerging Techniques

Clinical Sessions:
Autologous Chondrocyte Implantation: Where are We with Cost and Outcomes?
Importance of Emerging Techniques

Podcasts:
None

E-Book Chapters:
None

Journal Articles:

- Treatment of a Focal Articular Cartilage Defect of the Talus with Polymer-Based Autologous Chondrocyte Implantation: A 12-Year Follow-Up Period
- Autologous Chondrocyte Implantation for Talar Osteochondral Lesions: Comparison Between 5-Year Follow-Up Magnetic Resonance Imaging Findings and 7-Year Follow-Up Clinical Results
- Functional Medium-Term Results After Autologous Matrix-Induced Chondrogenesis for Osteochondral Lesions of the Talus: A 5-Year Prospective Cohort Study
- Predictors of Osteochondral Lesions of the Talus in Patients Undergoing Broström-Gould Ankle Ligament Reconstruction

Outside Journal Articles:

- Arthroscopic Autologous Chondrocyte Implantation in the Ankle Joint
- Tissue Bioengineering in the Treatment of Osteochondritis Dissecans of the Talus in Children With Open Physis: Preliminary Results
- Management of Hepple Stage V Osteochondral Lesion of the Talus with a Platelet-Rich Plasma Scaffold

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