



**American  
College of  
Foot and Ankle  
Surgeons®**

## **ACFAS INTERMEDIATE LEARNING PATHWAY: Lapidus - Treatment Options and Complications**

### **Learning Objectives of this Pathway:**

- Understand the indications for Lapidus Arthrodesis
- Recognize and understand the possible complications of Lapidus Arthrodesis
- Understands various fixation methods for Lapidus Arthrodesis
- Understand the biomechanics related to Lapidus Arthrodesis

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### **Day 1:**

#### JFAS Journal Articles:

- [A Multicenter, Retrospective Study of Early Weightbearing for Modified Lapidus Arthrodesis](#)
- [Intraoperative Evaluation of Medial Intercuneiform Instability After Lapidus Arthrodesis: Intercuneiform Hook Test](#)
- [Enhanced Lapidus Arthrodesis: Crossed Screw Technique With Middle Cuneiform Fixation Further Reduces Sagittal Mobility](#)
- [Effects of the Lapidus Arthrodesis and Chevron Bunionectomy on Plantar Forefoot Pressures](#)

#### Clinical Sessions (individual):

- [Hallux Valgus: 1st Metatarsal Osteotomy vs. Lapidus - Bunion Correction](#)
- [Hallux Valgus: 1st Metatarsal Osteotomy vs. Lapidus - Lapidus for Hallux Valgus](#)

### **Day 2:**

#### Clinical Sessions (full course):

[Dissecting and Debating the Lapidus](#)

### **Day 3:**

#### JFAS Journal Articles:

- [Rate of Nonunion after First Metatarsal-Cuneiform Arthrodesis Using Joint Curettage and Two Crossed Compression Screw Fixation: A Systematic Review](#)
- [Can We Abandon Saw Wedge Resection in Lapidus Fusion? A Comparative Study of Joint Preparation Techniques Regarding Correction of Deformity, Union Rate, and Preservation of First Ray Length](#)

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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).*

- [Structures at Risk From an Intermetatarsal Screw for Lapidus Bunionectomy: A Cadaveric Study](#)

**Podcasts:**

- [Lapidus Patient Decision Making](#)
- [Lapidus Techniques](#)

**Day 4:**

**JFAS Journal Articles:**

- [Biomechanical Characteristics of Biplane Multiplanar Tension-Side Fixation for Lapidus Fusion](#)
- [Stability of Locking Plate and Compression Screws for Lapidus Arthrodesis: A Biomechanical Comparison of Plate Position](#)
- [Intraoperative Simulated Weightbearing Lateral Foot Imaging: The Clinical Utility and Ability to Predict Sagittal Plane Position of the First Ray in Lapidus Fusion](#)

**Podcasts:**

[Lapidus Controversies](#)

**Clinical Sessions (individual):**

[Getting Out of a Mess: When Lapidus Won't Reduce](#)

**Additional Outside Journal References**

[Evolution of Thinking of the Lapidus Procedure and Fixation.](#)

Li S, Myerson MS.

Foot Ankle Clin. 2020 Mar;25(1):109-126. doi: 10.1016/j.fcl.2019.11.001. Epub 2019 Dec 16. Review.

[Maintenance of Correction of the Modified Lapidus Procedure With a First Metatarsal to Intermediate Cuneiform Cross-Screw Technique.](#)

Langan TM, Greschner JM, Brandão RA, Goss DA Jr, Smith CN, Hyer CF.

Foot Ankle Int. 2019 Dec 26:1071100719895268. doi: 10.1177/1071100719895268. [Epub ahead of print]

[Outcome of the modified Lapidus procedure for hallux valgus deformity during the first year following surgery: A prospective clinical and gait analysis study.](#)

Moerenhout K, Chopra S, Crevoisier X.

Clin Biomech (Bristol, Avon). 2019 Jan;61:205-210. doi: 10.1016/j.clinbiomech.2018.12.017. Epub 2018 Dec 20.

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[A cone beam CT based 3D-assessment of bony forefoot geometry after modified Lapidus arthrodesis.](#)

Scheele CB, Christel ST, Fröhlich I, Mehlhorn A, Walther M, Hörterer H, Harrasser N, Kinast C. Foot Ankle Surg. 2019 Dec 5. pii: S1268-7731(19)30204-8. doi: 10.1016/j.fas.2019.11.006. [Epub ahead of print]

[Return to Sports and Physical Activities After the Modified Lapidus Procedure for Hallux Valgus in Young Patients.](#)

MacMahon A, Karbassi J, Burket JC, Elliott AJ, Levine DS, Roberts MM, Deland JT, O'Malley MJ, Yu J, Mancuso CA, Ellis SJ.

Foot Ankle Int. 2016 Apr;37(4):378-85. doi: 10.1177/1071100715617750. Epub 2015 Nov 17.

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