



Winter Meeting 2022

February 17-20, 2022
Phoenix, Arizona



Join Program Chairs Daniel Guss, MD, MBA, and Casey J. Humbyrd, MD, MBE, for the in-person AOFAS Winter Meeting, February 17-20, 2022, at the Pointe Hilton Tapatio Cliffs in Phoenix, Arizona. This smaller meeting offers stimulating foot and ankle symposia, clinical case reviews, and small-group education in an environment that encourages discussion and interaction. With a program that includes both established and emerging leaders in the field, you'll broaden your perspective and discover new approaches to challenging foot and ankle conditions.

Target Audience

This educational program is designed for experienced foot and ankle orthopaedic surgeons, generalist orthopaedic surgeons interested in expanding their scope of practice to foot and ankle, and advanced allied health practitioners who work in foot and ankle care.

Educational Objectives

At the conclusion of this course, learners should be able to:

- Assess current clinical trends and emerging surgical techniques in orthopaedic foot and ankle surgery
- Describe current research in foot and ankle disorders and their applications to clinical practice
- Identify ways to avoid potential complications in foot and ankle procedures
- Determine and apply strategies to improve patient outcomes

Statement of Need

A need for this educational activity has been determined based on previous course evaluations and the AOFAS educational curriculum. The content of this course was based on current issues and topics provided by AOFAS membership and leadership. For more information on the AOFAS CME mission, visit aofas.org/education.

Accreditation & Credit

The American Orthopaedic Foot & Ankle Society (AOFAS) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians. AOFAS designates this live activity for a maximum of **14.0 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Participants are required to submit a completed evaluation form at the end of the course in order to receive CME credit.

Disclosure

AOFAS attests that the purpose of this course is solely to educate attendees on the topic and not promote the business/product in any way. AOFAS requires all instructors, planners, and other individuals in a position to control or influence the content of an educational activity to disclose all relevant financial relationships or affiliations during the past 12 months with any commercial interest (any entity producing, marketing, re-selling, or distributing healthcare goods and services consumed by, or used on patients). All identified conflicts of interest must be resolved and the education content vetted by AOFAS for fair balance, scientific objectivity, and appropriateness. AOFAS also requires faculty to disclose when off-label/unapproved uses of a product are discussed in a CME activity. AOFAS attests that the persons responsible for the development of this educational activity did so independently and were not influenced by commercial supporters. All financial disclosures will be provided to meeting attendees in the final program materials.

Disclaimer

The material presented in this continuing medical education activity has been made available by the American Orthopaedic Foot & Ankle Society (AOFAS) for educational purposes only. This material is not intended to represent the only, nor necessarily the best, methods or procedures appropriate for the medical situation discussed, but rather is intended to present an approach, view, statement, or opinion of the authors or presenters, which may be helpful or of interest to other practitioners. Methods, techniques, and procedures demonstrated and views and opinions expressed by speakers, presenters, and faculty are their own, and do not necessarily represent those of AOFAS, nor does presentation on the program represent or constitute endorsement or promotion by AOFAS. AOFAS expressly disclaims any warranties or guarantees, expressed or implied, and shall not be liable for damages of any kind in connection with the material, methods, information, techniques, opinions, or procedures expressed, presented, or demonstrated.



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Registration Fees

Registration includes:

- Scientific Sessions & Evening Fireside Chats
- Welcome Reception on Thursday evening
- Dinner on Friday evening
- Breakfast on Friday, Saturday, and Sunday
- Lunch on Friday and Saturday

Guest Registration includes the Welcome Reception on Thursday evening, Dinner on Friday evening, and the Closing Breakfast on Sunday morning.

	<u>Through January 20</u>	<u>After January 20</u>
AOFAS Active, Candidate, International, Emeritus, or Honorary Member	\$950	\$1,050
AOFAS International Member	\$850	\$950
AOFAS Allied Health/Associate Member	\$600	\$700
Orthopaedic Resident or Fellow (Member and Nonmember)	\$650	\$750
Medical Student	\$650	\$750
Nonmember Physician	\$1,250	\$1,350
Nonmember International Physician	\$900	\$1,000
Nonmember Allied Health	\$650	\$750
Podiatrist	\$1,250	\$1,350
Industry	\$1,250	\$1,350
Guest	\$55	\$55
Guest Under 21	\$35	\$35



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Registration and Cancellation Policies

Requests for refunds must be received in writing at the AOFAS Executive Office by email, fax, or mail by the deadlines shown below. A \$100 processing fee will apply to all refunds.

Email: registration@aofas.org

Fax: 847-692-3315

Mail: 9400 West Higgins Road, Suite 220, Rosemont, IL 60018

January 20, 2022: Last day to receive 100% refund minus \$100 processing fee

February 3, 2022: Last day to receive 50% refund minus \$100 processing fee

No refunds will be issued after February 3.

Housing

Pointe Hilton Tapatio Cliffs

11111 North 7th Street
Phoenix, Arizona 85020 USA

Room Rate: \$259/night (plus tax and resort fee)

Deadline: January 20, 2022, or when the room block is full, whichever comes first

Reservations: [Book your room online](#) or call the hotel at 1-800-947-9784 and ask for the AOFAS Winter Meeting room block.



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Program

Schedule, speakers, and topics subject to change.

THURSDAY, FEBRUARY 17

5:00 – 6:30 pm

Practice Management and Coding

Moderator: David I. Pedowitz, MD, MS

RUC/CPT and Policy Update

Peter G. Mangone, MD

Review of Modifiers and Bundling Coding

Tye J. Ouzounian, MD; Seth W. O'Donnell, MD

Employed Physician Payment Models: Academic

Michael C. Aynardi, MD

Employed Physician Payment Models: Hospital System

David M. Beck, MD

Employed Physician Payment Models:

Large Multispecialty Groups

Jason W. Rudolph, MD

Employed Physician Payment Models:

Private Equity Employment

Sudheer C. Reddy, MD

Q&A: Where Do You Need Help in Coding?

6:30 – 8:30 pm

Welcome Reception in Exhibit Hall

FRIDAY, FEBRUARY 18

6:00 – 7:00 am

Breakfast/Networking

7:00 – 8:00 am

MIS and Open: When to Use the Burr, When to Use the Saw, When to Use Both

**Moderators: Rebecca A. Cerrato, MD, and
Selene G. Parekh, MD, MBA**

I Took a Course or Two – Now What?

Patrick J. Maloney, MD

What I'm Still Going to Do Open

MaCalus V. Hogan, MD, MBA

What I Learned Across the Pond

Lorena Bejarano-Pineda, MD

Complications

A. Holly Johnson, MD

MIS Algorithm: How I Approach It – Past, Present, Future
TBD

Discussion

8:00 – 9:00 am

Advice to My Younger Self

**Moderators: Casey J. Humbyrd, MD, MBE, and
Daniel Guss, MD, MBA**

Panelists:

Judith F. Baumhauer, MD, MPH, MS

Christopher W. DiGiovanni, MD

Bruce J. Sangeorzan, MD

David B. Thordarson, MD

***Support for this session is provided by an educational grant
from Paragon 28.***



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9:00 – 10:00 am

Deformity: How Do I Make Crooked Straight?

**Moderators: Bryan D. Den Hartog, MD, and
Ashish Shah, MD**

Flatfoot in People Too Young to Vote: When/If/How
Jacob R. Zide, MD

Forefoot Adductus: When/If/How
Mohamed Mokhtar Abd-Ella, MD

Tibial Deformity
Jesse F. Doty, MD

Equinovarus/CMT: Do I Wait Until They're Symptomatic?
Max P. Michalski, MD

Friggin' Deltoid: My Fusion Looks Like the Leaning Tower
of Pisa!
Cesar de Cesar Netto, MD, PhD

Discussion

10:00 – 10:30 am

Break

10:30 – 11:30 am

Degenerative: It's All Worn Out

**Moderators: L. Daniel Latt, MD, PhD, and
Timothy R. Daniels, MD**

1st MTP Arthritis Revisited: When Do I Fuse, When Do I
Replace, What Do I Now Do Differently?
Pamela C. Luk, MD

Freiberg's and Lesser MPT Arthritis
Rachel J. Shakked, MD

The Naviculocuneiform Arthritis: Patterns and Approaches
Christopher E. Gross, MD

Coalitions in Adults
Elizabeth A. Martin, MD

Dipple vs. Triple
Meghan Kelly, MD, PhD

Discussion

11:30 am – 12:30 pm

Trauma

**Moderators: Eric M. Bluman, MD, PhD, and
James R. Ficke, MD**

Planning for the Future Arthritis: Incisions and Approaches
Tonya L. Dixon, MD, MPH

Diversity and Lisfranc: It's Not Just the 2nd TMT
Natalie R. Danna, MD

Knowing When to Walk Away: I Don't Operate on This
Anymore
Lara C. Atwater, MD

The Fifth Metatarsal Fracture: Cavus, Adductus, Chronic,
and All the Other Things I Wish Weren't There
TBD

The Other Tarsal Bones: Navicular, Cuneiform, and Cuboid
Kamran S. Hamid, MD, MPH

Discussion

12:30 – 2:30 pm

Industry Sessions (optional)

12:30 – 1:30 pm

Lunch/Networking in the Exhibit Hall

1:30 – 5:30 pm

AFTERNOON BREAK

5:30 – 6:30 pm

Albatross Award

6:30 – 8:00 pm

Dinner Event



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SATURDAY, FEBRUARY 19

6:00 – 7:00 am

Breakfast/Networking

7:00 – 8:00 am

Sports: Problems I Hate (Ahem, Strongly Dislike)

**Moderators: Jeffrey D. Seybold, MD, and
Thomas M. Hearty, MD, DPT**

Turf Toe and Sesamoids: Cast 'em or Fix 'em – The NFL Experience and Other Pearls
Gregory R. Waryasz, MD

Lesser Toes: Synovitis and Instability
Paul G. Talusan, MD

The "Non-Talus" OCD: 1st MTP and Plafond
Eric I. Ferkel, MD

Achilles: You Treated 'em and They're Weak – Now What?
Kelly K. Hynes, MD

Heel Pain in Runners: What Happens After Boot and PT?
Niall A. Smyth, MD

Discussion

Support for this session is provided by an educational grant from Paragon 28.

8:00 – 9:00 am

Concurrent Research Paper Sessions

Paper Session 1A: Ankle Arthritis

Moderator: Alan Y. Yan, MD

Relationship of Axial Alignment and Patient-Reported Outcomes in Patients with Total Ankle Arthroplasty Under Weightbearing CT Scan
Carolina Avilés Espinoza, MD; Consuelo Carrasco; Valentina P. Burckhardt Bravo; Cristobal Varela; Eric G. Gana; Diego Herreros; Mario I. Escudero, MD; Manuel J. Pellegrini, MD

Subtalar Joint Behavior After Total Ankle Arthroplasty
Carolina Avilés Espinoza, MD; Consuelo Carrasco; Valentina P. Burckhardt Bravo; Cristobal Varela; Diego Herreros; Eric G. Gana; Manuel J. Pellegrini, MD

What Are the Injuries That Lead to Post-Traumatic Ankle Osteoarthritis? A Long-Term Retrospective Analysis of 533 Patients

Chris Cycosz, MD; Nacime S. Mansur, MD; Matthieu Lalevée, MD; William J. Lorentzen; Eli C. Auch, BS; Natalie Glass, PhD; Kepler Carvalho, MD; Phinit Phisitkul, MD; John E. Femino, MD; Donald D. Anderson; Cesar de Cesar Netto, MD, PhD

Chemoprophylaxis Is Cost-effective in Total Ankle Arthroplasty

Brandon J. Martinazzi, BS; Gregory Kirchner; Vincenzo Bonaddio; Kristen M. Manto, BS; Chris M. Stauch, BS; Zachary Koroneos, BS; Michael C. Aynardi, MD; Paul J. Juliano, MD

Increased Complication and Hardware Removal Rates with Headed Screws in Ankle or Subtalar Arthrodesis

Evan Bailey; Caroline P. Hoch; Jonathan B. Goodloe, MD; Daniel J. Scott, MD, MBA; Christopher E. Gross, MD

Discussion

Paper Session 1B: AAFD

**Moderators: Thomas G. Harris, MD, and
Joseph S. Park, MD**

Predictors of Deformity in Patients with Progressive Collapsing Foot Deformity and Valgus of the Ankle

Nacime S. Mansur, MD; Matthieu Lalevée, MD; Victoria Vivtcharenko, BS; Kepler Carvalho, MD; Kevin N. Dibbern, PhD; Jonathan T. Deland, MD; Scott J. Ellis, MD; John E. Femino, MD; Cesar de Cesar Netto, MD, PhD

Does Tibialis Posterior Dysfunction Correlate with Overall Foot Deformity in Progressive Collapsing Foot Deformity?

Matthieu Lalevée, MD; Nacime S. Mansur, MD; Kepler Carvalho, MD; Jennifer S. Walt, MD; Victoria Vivtcharenko, BS; Tutku Tazegul, BBME; Francois Lintz, MD, MSc, FEBOT; Kevin N. Dibbern, PhD; Cesar de Cesar Netto, MD, PhD

Surgical Correction of Peritalar Subluxation and Patient-Reported Outcomes: A Prospective Comparative Outcome Study in Flexible Progressive Collapsing Foot Deformity

Kepler Carvalho, MD; Cesar de Cesar Netto, MD, PhD; Nacime S. Mansur, MD; Matthieu Lalevée, MD; Francois Lintz, MD, MSc, FEBOT; Kristian Buedts, MD; Andrew J. Goldberg, OBE, MD, FRCS(Tr&Orth); Jonathan T. Deland, MD; John E. Femino, MD; Donald D. Anderson; Jennifer S. Walt, MD; Kevin N. Dibbern, PhD

Return to Physical Activity following Flatfoot Reconstruction
Robert Fuller; Stephanie K. Eble; Jonathan Day, MD; Lavan Rajan; Agnes D. Cororaton; Jonathan T. Deland, MD; Scott J. Ellis, MD

Program continues on next page



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Ability of the Posterior Tibial Tendon to Restore Foot Alignment in Progressive Collapsing Foot Deformity: A Computational Study
Hamed Malakoutikhah, PhD(c); Erdogan Madenci, PhD; L. Daniel Latt, MD, PhD

Discussion

9:00 – 10:00 am

Concurrent Research Paper Sessions

Paper Session 2A: Potpourri

Moderators: Anthony Ndu, MD, and Thomas H. Lee, MD

Nerve Complications after Regional Anesthesia in Foot and Ankle Surgery Avoiding the Popliteal Fossa
Ania Bartholomew; Michael Ciesa; Tyler Slone; Nicholas A. Cheney, DO; Brian C. Clark

Influence of Weight-Bearing Computed Tomography in the New Staging System of Progressive Collapsing Foot Deformity Classification

Nacime S. Mansur, MD; Hee Young Lee; Amanda Ehret; Matthieu Lalevée, MD; Caleb J. Iehl, BS; Kepler Carvalho, MD; Mark S. Myerson, MD; Kristian Buedts, MD; Francois Lintz, MD MSc FEBOT; Cesar de Cesar Netto, MD, PhD

Optimizing the Impact of Your Foot and Ankle Research: Publication Trends in the Orthopedic Literature

Michael A. Hewitt; Sara E. Buckley, DO; Mingjie Zhu, DAOM, MPH; Shuyuan Li, MD, PhD; Mark S. Myerson, MD; Kenneth J. Hunt, MD

Investigating the Presence of Connective Tissue Progenitor Cells within the Retrocalcaneal Bursa

Anna Jorgensen; Owen P. Karsmarsi; Benjamin C. Hawthorne; Mary Beth McCarthy; Francine Zeng; Jillian L. Mazzocca; Lauren E. Geaney, MD

Intra and Interobserver Reliability of the New Classification System of Progressive Collapsing Foot Deformity

Hee Young Lee; Nacime S. Mansur, MD; Matthieu Lalevée, MD; Kevin N. Dibbern, PhD; Mark S. Myerson, MD; Scott J. Ellis, MD; John E. Femino, MD; Cesar de Cesar Netto, MD, PhD

Discussion

Paper Session 2B: Forefoot

Moderators: Irvin Oh, MD, and Daniel K. Moon, MD, MBA

The Influence of Concomitant Hammertoe Correction on Postoperative Outcomes in Patients Undergoing Hallux Valgus Correction

Lavan Rajan; Robert Fuller; Jiaqi Zhu; Tonya W. An, MD; Scott J. Ellis, MD

Do Preoperative PROMIS Scores Predict Postoperative Outcomes in Hallux Rigidus Patients Undergoing Cheilectomy?

Lavan Rajan; Matthew S. Conti; Robert Fuller; Agnes D. Cororaton; Scott J. Ellis, MD

Early Outcomes of Minimally Invasive Percutaneous Chevron/Akin Osteotomy for Symptomatic Hallux Valgus Deformity

Naji S. Madi, MD; Jacob R. Braunstein, MD; Amanda N. Fletcher, MD, MS; George Doumat; Selene G. Parekh, MD, MBA

Effect of Prior Joint-sparing Surgery on Outcomes of First Metatarsophalangeal Joint Fusion for Treatment of Hallux Rigidus

Lavan Rajan; Robert Fuller; Jiaqi Zhu; Scott J. Ellis, MD

Metatarsal Head Resection: Patient-Reported Outcomes in Patients Suffering from Rheumatoid Arthritis

Chad Willis; Ashish Shah, MD; Zachary Littlefield; Matthew Young; Kevin S. Luque-Sanchez; Srihari R. Prahad; Pallavi Nair; Sunhith Donti; Sean Young

Discussion

10:00 – 10:30 am

Break

10:30 – 11:30 am

Concurrent Research Paper Sessions

Paper Session 3A: Sports

Moderators: Peter G. Mangone, MD, and Bopha Chrea, MD

Role of the Lateral Ankle Ligaments in the Vertical Stability of the Fibula

Jorge Filippi, MD, MBA; Paulina Gutierrez; Rony A. Silvestre; Gonzalo F. Bastias, MD; Jose Ignacio Quezada Morales; Rodrigo Melo, MD; Gerardo Munoz, MD, CAE; Natalio R. Cuchacovich Mikenberg, MD



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Biomechanical Comparison of Fibertape Device versus Cannulated Screw for Ligamentous Lisfranc Injury in a Cadaveric Model

Zachary Koroneos, BS; Kristen M. Manto, BS; Brandon J. Martinazzi, BS; Chris M. Stauch, BS; Shawn M. Bifano, MD; Gregory Lewis, PhD; Michael C. Aynardi, MD

No Difference in Return to Duty between Minimally Invasive, Percutaneous Achilles Tendon Repair, and Nonoperative Functional Rehabilitation in Active Duty Military Members

Jordan Tropf; Andres S. Piscocoya; Alexander Lundy; Sarah Nelson; Tobin T. Eckel, MD

Realignment Surgery for Failed Osteochondral Autologous Transplantation in Osteochondral Lesions of the Talus Associated with Malalignment

Jaeyoung Kim, MD; Jesse Seilern und Aspang; Kim Ji-Beom, MD; Jonathan Day, MD; Oliver Gagné, MD; Woo-Chun Lee, MD

Success Rate of Non-Operative Treatment of Insertional Achilles Tendinitis

Bryce F. Kunkle; Nicholas A. Baxter; Caroline P. Hoch; Alexander Caughman; John Barcel; Daniel J. Scott, MD, MBA; Christopher E. Gross, MD

Discussion

Paper Session 3B: Trauma

Moderators: Robert R. Gorman, MD, and Ross A. Benthien, MD, MPH

Impact of Weber B Fracture Displacement on Medial Clear Space Volume: How Much Displacement Matters?

Rohan Bhimani, MD, MBA; Marguerite A. Mullen; Soheil Ashkani-Esfahani, MD; Gregory R. Waryasz, MD; Gino Kerkhoffs, MD; Christopher W. DiGiovanni, MD; Daniel Guss, MD, MBA

Osteochondral and Ligament Injury Patterns in Ankle Fractures: A Prospective Multi-center Study

Dominic S. Carreira, MD; Daniel B. Shaw; Thomas G. Harris, MD; Kirk A. McCullough, MD; Christopher D. Kreulen, MD, MS; RobRoy Martin; Jorge I. Acevedo, MD

Inclusion of a Visual Aid Improves Surgeon and Trainee Accuracy when Evaluating Images for Ankle Syndesmosis Repair

Chloe L. Baratta, BS; Jose L. Zermeno Salinas; Karley D. Baringer; Jennifer A. Nichols; Christopher W. Reb, DO

Maximizing the Accuracy and Speed of the Detection of Isolated Syndesmotic Instability using Artificial Intelligence in Weight-bearing CT Interpretation

Soheil Ashkani-Esfahani, MD; Reza Mojahed-Yazdi; Rohan Bhimani, MD, MBA; Gregory R. Waryasz, MD; Christopher W. DiGiovanni, MD; Daniel Guss, MD, MBA

Locked IMNs Provides Superior Functional Outcomes and Lower Complication Rates Than Plate Fixation of Distal Fibula Fractures: A Systematic Review and Meta-analysis of Comparative Studies

Ahmed K. Attia, MD; Aly Fayed; Karim Mahmoud Khamis, MBBCh; Sameh (Sam) A. Labib, MD; Umur Aydogan, MD; Paul J. Juliano, MD

Discussion

11:30 am – 1:00 pm

Ask the Expert All-Stars: Expert-led Discussion on Top Cases from the AOFAS "Ask the Expert" Sessions
Moderator: Amgad M. Haleem, MD, PhD

Panelists:

Michael S. Aronow, MD
John T. Campbell, MD
Christopher P. Chiodo, MD
J. Chris Coetzee, MD
Bruce E. Cohen, MD
J. Kent Ellington, MD, MS
Richard D. Ferkel, MD
Kenneth J. Hunt, MD
John G. Kennedy, MD
Harold B. Kitaoka, MD
Sandra E. Klein, MD
Simon Lee, MD
James E.W. Meeker, MD
Vinod K. Panchbhavi, MD
Judith W. Smith, MD, MBA

Support for this session is provided by an educational grant from Foot Innovate.

1:00 – 5:00 pm

AFTERNOON BREAK

5:00 – 6:00 pm

Team Building and Kids Night

Competitive Legos vs. Play-doh
Trivia

6:00 – 7:00 pm

Resident Scholar Meet & Greet



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SUNDAY, FEBRUARY 20

7:00 – 8:30 am

The First Rule of Fight Club Is You Do Not Talk About Fight Club

Biologics: Special Sauce or All About the Benjamins?
Sheldon S. Lin, MD; James R. Holmes, MD

TAR: "Ain't No Deformity High Enough" –
One Step vs. Two Step
Mark E. Easley, MD; Anish R. Kadakia, MD

8:30 – 10:00 am

Farewell Breakfast