

# 34<sup>th</sup> Annual Baltimore Limb Deformity Course

Thursday, August 22 – Saturday, August 24, 2024

(as of 7/15/24)



Four Seasons Hotel Baltimore  
Baltimore, Maryland, USA



Rubin Institute for  
Advanced Orthopedics

**CARE BRAVELY**

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## Course Chairmen

**Philip McClure, MD**

**John Herzenberg, MD**

## LLRS Liaison

**David Podeszwa, MD**

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## Directors

**Michael Assayag, MD**

**Christopher Bibbo, DO**

**Janet Conway, MD**

**Noman Siddiqui, DPM**

**Shawn Standard, MD**

**Endorsed by:**



### Invited Faculty and Lab Assistants

<b>Talal Abalkhail, MBBS</b>	Riyadh, Saudi Arabia
<b>Hummira Abawi, DPM</b>	Baltimore, Maryland
<b>Marcel Abouassaly, MD</b>	Calgary, Canada
<b>Elhanan Bar-On, MD</b>	Tel Aviv, Israel
<b>Samantha Bark, DPM</b>	Galion, Ohio
<b>Anil Bhawe, PT</b>	Baltimore, Maryland
<b>James Blair, MD</b>	Atlanta, Georgia
<b>Patrick Bosch, MD</b>	Albuquerque, New Mexico
<b>Alexander Cherkashin, MD</b>	Dallas, Texas
<b>Brett Crist, MD</b>	Columbia, Missouri
<b>Ronald Delanois, MD</b>	Baltimore, Maryland
<b>Matthew Deren, MD</b>	Cleveland, Ohio
<b>Mark Eidelman, MD</b>	Haifa, Israel
<b>Jamie Ferguson, MB ChB</b>	Oxford, United Kingdom
<b>Nando Ferreira, MB ChB</b>	Stellenbosch, South Africa
<b>Jill Flanagan, MD</b>	Atlanta, Georgia
<b>Jeanne Franzone, MD</b>	Wilmington, Delaware
<b>David Frumberg, MD</b>	New Haven, Connecticut
<b>Christine Goodbody, MD</b>	Philadelphia, Pennsylvania
<b>David Gottlieb, DPM</b>	Baltimore, Maryland
<b>Connor Green, MB BCh</b>	Dublin, Ireland
<b>Matthew Greenblatt, DPM</b>	West Palm Beach, Florida
<b>Vache Hambardzumyan, MD</b>	Peterborough, New Hampshire
<b>Roberto Hernandez-Irizarry, MD</b>	Atlanta, Georgia
<b>Mark Huang, MD</b>	Hamilton, New Zealand
<b>Aaron Huser, DO</b>	West Palm Beach, Florida
<b>Saad Ilyas, MBBS</b>	Lahore, Pakistan
<b>Christopher Iobst, MD</b>	Columbus, Ohio
<b>Jessica Knight, DPM</b>	Chicago, Illinois
<b>Iara Lacerda, MD</b>	Danville, Pennsylvania
<b>Guido LaPorta, DPM</b>	Binghamton, NY
<b>Paul Matuszewski, MD</b>	Lexington, Kentucky
<b>James McWilliam, MD</b>	White Plains, New York
<b>Kelsey Millionig, DPM</b>	Des Moines, Iowa
<b>Mark Myerson, MD</b>	Denver, Colorado
<b>Scott Nelson, MD</b>	Loma Linda, California
<b>Jennifer Monaco, DPM</b>	Columbus, Georgia
<b>L. Reid Boyce Nichols, MD</b>	Wilmington, Delaware
<b>Basilia Nwankwo, MD</b>	Washington, DC
<b>Robert O'Toole, MD</b>	Baltimore, Maryland
<b>Christof Radler, MD</b>	Vienna, Austria
<b>Jessica Rivera, MD</b>	New Orleans, Louisiana
<b>Daniel Ruggles, DO</b>	Miami, Florida
<b>Mikhail Samchukov, MD</b>	Dallas, Texas
<b>Sanoj Shahul, MD</b>	Baltimore, Maryland
<b>William Terrell, MD</b>	Marietta, Georgia
<b>Kevin Tetsworth, MD</b>	Brisbane, Australia
<b>Ahmed Thabet, MD</b>	El Paso, Texas

**Rishi Thakral, MD**  
**Indresh Venkatarayappa, MD**  
**Francisco Violante, Jr., MD**  
**Philip Wrotslavsky, DPM**  
**Jeffrey Young, MD**

Oklahoma City, Oklahoma  
Dayton, Ohio  
São Paulo, Brazil  
San Diego, California  
Stanford, CA

## Day 1: Thursday, August 22

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6:00–7:00	<u>Registration, Breakfast, and Visit with Corporate Partners</u>	<i>Marine Room and Grand Ballroom Pre-function, Level 2</i>
7:00–7:25	Welcome <i>Philip McClure, MD, or John Herzenberg, MD, and Ronald Delanois, MD</i>	<i>Grand Ballroom, Level 2</i>
7:25–7:45	Introduction to Deformity Planning Concepts: The Apex/Axis Method and MAP the ABCs <i>Shawn Standard, MD</i>	
7:45–8:05	Bone Ninja Sensei Introduction <i>Shawn Standard, MD</i>	
8:05–8:15	Alphabet Soup of Limb Alignment (Frontal Plane): MAD, LDFA, MPTA, LDTA, MPFA, LPFA, and JLCA <i>L. Reid Boyce Nichols, MD</i>	
8:15–8:30	Frontal Plane Measurements on Normal Bones (Planning Workshop) <i>Janet Conway, MD</i>	
8:30–9:15	Assessment of Limb Alignment: Frontal Plane MAP ( <u>M</u> Measure Mechanical Axis Deviation, <u>A</u> nalyze Joint Angles, <u>P</u> ick the Bone) (Planning Workshop) <i>Philip McClure, MD, or Michael Assayag, MD</i>	
9:15–9:45	<u>Health Break and Visit with Corporate Partners</u>	<i>Grand Ballroom Pre-function, Level 2</i>
9:45–10:15	ABCs of Deformity Correction: How to Approach Deformity Analysis and Osteotomy Planning <i>Shawn Standard, MD</i>	<i>Grand Ballroom, Level 2</i>
10:15–11:05	Tibia: Frontal Plane Single-level Deformities (Planning Workshop) <i>Michael Assayag, MD</i>	
11:05–11:50	Tibia: Frontal Plane Double-level Deformities (Planning Workshop) <i>Jill Flanagan, MD</i>	
11:50–12:05	It Looks Good, but Does It Feel Better? <i>Brett Crist, MD</i>	
12:05–12:40	<u>Boxed Luncheon and Visit with Corporate Partners</u>	<i>Grand Ballroom Pre-function, Level 2</i>
12:20–12:40	Disaster Response <i>Elhanan Bar-On, MD</i>	<i>Grand Ballroom, Level 2</i>
12:40–12:45	Head to Designated Afternoon Labs	
12:45–5:00	Thursday Afternoon Labs:	

### Groups A-1 and A-2:

12:45–2:45	Six-axis External Fixation 4 Lab: Malunion and Valgus Deformity Facilitators: <i>James Blair, MD; Matthew Deren, MD; Connor Green, MB BCh; and James McWilliam, MD</i> Lab Assistants: <i>Vache Hambardzumyan, MD and Sanoj Shahul, MD</i>	<i>Azure &amp; Indigo Rooms, Level 2</i>
2:45–3:00	Head to Next Lab	
3:00–5:00	Six-axis External Fixation 2 Lab: Blount Disease	<i>Grand Ballroom B, Level 2</i>

Facilitators: *Jill Flanagan, MD; Jeanne Franzone, MD; Scott Nelson, MD, and Daniel Ruggles, DO*

Lab Assistants: *Marcel Abouassaly, MD; Connor Green, MB BCh; Ahmed Thabet, MD; and Jeffrey Young, MD*

### **Group B-1:**

12:45–2:45     TBA *Sienna Room, Level 2*  
Facilitators: *TBA*  
Lab Assistants: *TBA*

2:45–3:00     Head to Next Lab

3:00–5:00     Hexapod/Nail Workshop: Ankle Fusion *Cobalt Ballroom 1, Level 2*  
Facilitators: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD; Kelsey Millonig, DPM; David Podeszwa, MD; Mikhail Samchukov, MD; and Philip Wroslavsky, DPM*

### **Group B-2:**

12:45–2:45     Hexapod/Nail Workshop: Ankle Fusion *Cobalt Ballroom 1, Level 2*  
Facilitators: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD; Kelsey Millonig, DPM; David Podeszwa, MD; Mikhail Samchukov, MD; Ahmed Thabet, MD; and Philip Wroslavsky, DPM*

2:45–3:00     Head to Next Lab

3:00–5:00     TBA *Sienna Room, Level 2*  
Facilitators: *TBA*  
Lab Assistants: *TBA*

### **Groups C-1 and C-2:**

12:45–1:45     Fixator-assisted Plating Lab: Distal Femoral Valgus Deformity *Marine Room, Level 2*  
Facilitators: *Elhanan Bar-On, MD; Patrick Bosch, MD; Janet Conway, MD; Brett Crist, MD; Roberto Hernandez-Irizarry, MD; and Paul Matuszewski, MD;*  
Lab Assistants: *Talal Abalkhail, MBBS; and Marcel Abbouassaly, MD*

1:45–1:55     Head to Next Lab

1:55–3:55     Six-axis External Fixation 1 Lab: Fracture with Translation, *Cobalt Ballroom 2, Level 2*  
Equinus Deformity, and Valgus Deformity  
Facilitators: *Mark Eidelman, MD; Jamie Ferguson, MB ChB; Aaron Huser, DO; Christopher Iobst, MD; Christof Radler, MD; and Kevin Tetsworth, MD*  
Lab Assistants: *James Blair, MD; Nando Ferreira, MB ChB; Mark Huang, MD; Iara Lacerda, MD; Rishi Thakral, MD; and Indresh Venkatarayappa, MD*

3:55–4:00     Head to Next Lab

4:00–5:00     Small Canal Solutions with Intramedullary Nails *Grand Ballroom A, Level 2*  
Facilitators: *Michael Assayag, MD; Elhanan Bar-On, MD; and Shawn Standard, MD*  
Lab Assistants: *Jill Flanagan, MD; Jeanne Franzone, MD; Christine Goodbody, MD; Vache Hambardzumyan, MD; L. Reid Nichols, MD; Basilia Nwankwo, MD; and Jessica Rivera, MD*

5:00–5:15     Coffee Break *Cobalt Ballroom Pre-function, Level 2*

5:15–5:20     Head to Case Presentation Sessions

5:20–7:00      **Case Presentations**

**Pediatric Orthopedics**

**Moderators: Philip McClure, MD, and L. Reid Boyce Nichols, MD**

*Grand Ballroom A, Level 2*

**Expert Panel: Shawn Standard, MD; Connor Green, MB BCh; and Jill Flanagan, MD**

5:20–7:00      Case Calamities: Show Us What You’ve Got  
*Presentations by faculty and participants*

**Adult Orthopedic Deformities – Moderators: Michael Assayag, MD, and Janet Conway, MD**

*Azure Room, Level 2*

**Expert Panel: Brett Crist, MD, and Robert O’Toole, MD**

5:20–7:00      Case Calamities: Show Us What You’ve Got  
*Presentations by faculty and participants*

**Foot and Ankle – Moderator: Noman Siddiqui, DPM**

*Grand Ballroom B, Level 2*

**Expert Panel: Christopher Bibbo, DO; Mark Myerson, MD; and Saad Ilyas, MBBS**

5:20–7:00      Case Calamities: Show Us What You’ve Got  
*Presentations by faculty and participants*

7:15–9:15      **Welcome Dinner** (*ticket required*)

*Splash Pool Terrace, Level 4*

## Day 2: Friday, August 23

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6:15–7:00	<u>Breakfast and Visit with Corporate Partners</u>	Grand Ballroom Pre-function, Level 2
7:00–7:05	Announcements <i>Philip McClure, MD</i>	Grand Ballroom, Level 2
7:05–7:15	Tibia Review Planning Exercises <i>Philip McClure, MD</i>	
7:15–7:30	Alphabet Soup of Limb Alignment (Sagittal Plane): PDFA, PPTA, SJLA, ADTA, and SMAA <i>Philip McClure, MD</i>	
7:30–8:00	Sagittal Plane Measurements (Planning Workshop) <i>Philip McClure, MD</i>	
8:00–8:45	Tibia: Sagittal Plane Deformities (Planning Workshop) <i>Michael Assayag, MD</i>	
8:45–9:10	Tibia: Introduction to the Oblique Plane <i>Shawn Standard, MD</i>	
9:10–9:30	Tibia: Oblique Plane Deformities (Planning Workshop) <i>Janet Conway, MD</i>	
9:30–9:45	Physical Exam of Limb Deformities <i>Janet Conway, MD</i>	
9:45–10:15	<u>Health Break and Visit with Corporate Partners</u>	Grand Ballroom Pre-function, Level 2
10:15–12:45	<i>Please visit one of the two breakout sessions listed below:</i>	
	<b>Breakout Session 1: Focus on Foot and Ankle Deformities</b>	
10:15–11:00	Preoperative Foot and Ankle Deformity Planning <i>Noman Siddiqui, DPM</i>	Grand Ballroom B, Level 2
11:00–11:35	Complex Deformity and Acute Deformity Correction Principles <i>Mark Myerson, MD</i>	
11:35–12:10	Complex Deformity Planning and Gradual Correction with Ilizarov Device <i>Saad Ilyas, MBBS</i>	
12:10–12:45	Gradual Correction of Complex Midfoot Deformity/Hindfoot Deformity with Gradual Correction <i>Guido LaPorta, DPM</i>	
	<b>Breakout Session 2: Focus on Femoral Deformities and Limb Length Discrepancy (Pediatric and Adult Orthopedics)</b>	
10:15–11:15	Femur: Frontal Plane Single-level Deformities (Planning Workshop) <i>Scott Nelson, MD</i>	Grand Ballroom A, Level 2
11:15–11:55	Femur: Frontal Plane Double-level Deformities (Planning Workshop) <i>Scott Nelson, MD</i>	
11:55–12:45	Femur and Knee: Sagittal Plane Femur (Planning Workshop) <i>Shawn Standard, MD</i>	

12:45–1:15 Luncheon and Visit with Corporate Partners

*Grand Ballroom Pre-function, Level 2*

1:15–1:25 Head to Designated Afternoon Labs

1:25–5:30 Friday Afternoon Labs:

**Groups A-1 and A-2:**

- 1:25–2:25 Six-axis External Fixation 5 Lab: Mid-shaft Tibial Deformity *Marine Room, Level 2*  
Facilitators: *Janet Conway, MD; Christopher Bibbo, DO; James Blair, MD; Brett Crist, MD; Matthew Deren, MD; Roberto Hernandez-Irizarry, MD; and Paul Matuszewski, MD*  
Lab Assistants: *Talal Abalkhail, MBBS; Marcel Abouassaly, MD; Patrick Bosch, MD; Vache Hambardzumyan, MD; and Rishi Thakral, MD*
- 2:25–2:30 Head to Next Lab
- 2:30–5:30 Six-axis External Fixation 1 Lab: Fracture with Translation, *Cobalt Ballroom 2, Level 2*  
Valgus Deformity, and Blount Disease  
Facilitators: *Janet Conway, MD; Mark Eidelman, MD; Aaron Huser, DO; Christof Radler, MD; and Kevin Tetsworth, MD*  
Lab Assistants: *Talal Abalkhail, MBBS; Jamie Ferguson, MB ChB; Nando Ferreira, MB ChB; Vache Hambardzumyan, MD; Mark Huang, MD; Iara Lacerda, MD; Jessica Rivera, MD; Indresh Venkatarayappa, MD; and Nando Ferreira, MB ChB*

**Groups B-1 and B-2:**

- 1:25–3:25 Six-axis External Fixation 4 Lab: Post-traumatic Valgus Malunion *Azure & Indigo Rooms, Level 2*  
Facilitators: *Hummira Abawi, DPM and Guido LaPorta, DPM*  
Lab Assistants: *Samantha Bark, DPM; Matthew Greenblatt, DPM; Jessica Knight, DPM; Jennifer Monaco, DPM; and Philip Wroslavsky, DPM*
- 3:25–3:30 Head to Next Lab
- 3:30–5:30 Six-axis External Fixation 2 Lab: Miter Frame *Grand Ballroom B, Level 2*  
Facilitators: *Michael Assayag, MD; Guido LaPorta, DPM; and Noman Siddiqui, DPM;*  
Lab Assistants: *Hummira Abawi, DPM; Jessica Knight, DPM; Kelsey Millonig, DPM; Jennifer Monaco, DPM; and L. Reid Nichols, MD*

**Group C-1:**

- 1:25–3:25 Six-axis External Fixation 3 Lab: Blount Disease *Cobalt Ballroom 1, Level 2*  
Facilitators: *Alexander Cherkashin, MD*  
Lab Assistants: *David Frumberg, MD; Christopher Iobst, MD; Scott Nelson, MD; Mikhail Samchukov, MD; William Terrell, MD; and Francisco Violante, Jr., MD*
- 3:25–3:30 Head to Workshop



3:30–5:30	Internal Lengthening Nail Workshop Facilitators: <i>Philip McClure, MD, and Daniel Ruggles, DO</i> Lecturers: <i>Mark Eidelman, MD; John Herzenberg, MD; Christof Radler, MD; and Shawn Standard, MD</i>	<i>Vermillion, Level 4</i>
<b><u>Group C-2:</u></b>		
1:25–3:25	Internal Lengthening Nail Workshop Facilitators: <i>Michael Assayag, MD, and Philip McClure, MD</i> Lecturers: <i>John Herzenberg, MD; Mark Eidelman, MD; Christof Radler, MD; Daniel Ruggles, DO; and Shawn Standard, MD</i>	<i>Vermillion, Level 4</i>
3:25–3:30	Head to Next Lab	
3:30–5:30	Six-axis External Fixation 3 Lab: Blount Disease Facilitators: <i>Alexander Cherkashin, MD</i> Lab Assistants: <i>David Frumberg, MD; Christopher Iobst, MD; Scott Nelson, MD; Mikhail Samchukov, MD; William Terrell, MD; and Francisco Violante, Jr., MD</i>	<i>Cobalt Ballroom 1, Level 2</i>
6:00	Depart Hotel for Faculty Dinner ( <i>invitation only</i> )	<i>Four Seasons Hotel, Lobby</i>

## Day 3: Saturday, August 24

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6:15–7:00 Breakfast and Visit with Corporate Partners

*Grand Ballroom Pre-function, Level 2*

*Please visit one or more of the three breakout sessions listed below:*

7:00–10:15 **Breakout Session 1: Adult Orthopedic Specialists**

7:00–9:30 **Breakout Session 2: Foot and Ankle Specialists**

7:00–9:30 **Breakout Session 3: Pediatric Orthopedic Specialists**

*See details of each session below:*

### **Breakout Session 1: Adult Orthopedic Specialists**

*Vermillion, Level 4*

- 7:00–7:15 Osseointegration: Where Are We Now?  
*Kevin Tetsworth, MD*
- 7:15–7:30 Deformity Correction and Total Joint Arthroplasty  
*Matthew Deren, MD*
- 7:30–7:45 Periprosthetic Fractures and Nonunions  
*Brett Crist, MD*
- 7:45–8:00 One State Treatment of Infected Nonunions  
*Nando Ferreira, MB ChB*
- 8:00–8:15 Cosmetic Stature Lengthening: Not Taboo Anymore  
*Michael Assayag, MD*
- 8:15–8:30 Limb Salvage in the Polytrauma Patient  
*James Blair, MD*
- 8:30–8:45 Head to Workshop
- 8:45–10:15 Retrograde Femoral Nail Lengthening Workshop  
Facilitator: *William Terrell, MD*

*Sienna Room, Level 2*

10:15–10:30 Health Break and Visit with Corporate Partners

*Grand Ballroom Pre-function, Level 2*

### **Breakout Session 2: Foot and Ankle Specialists**

*Grand Ballroom B, Level 2*

- 7:00–7:20 Soft-tissue Defect Reconstruction in Foot and Ankle Deformities  
*Christopher Bibbo, DO*
- 7:20–7:40 Minimally Invasive Cavus Deformity Correction  
*Noman Siddiqui, DPM*
- 7:40–8:00 Arthroeresis... When and Why  
*Guido LaPorta, DPM*

8:00–8:20	International Neurogenic Feet, Stirrup Method, and Other Complex Cases <i>Saad Ilyas, MBBS</i>
8:20–8:45	Biomechanics of Foot and Ankle <i>Anil Bhavé, PT</i>
8:45–9:15	Charcot Deformity Correction via Minimally Invasive Surgery <i>James McWilliam, MD</i>
9:15–9:30	Discussion

### **Breakout Session 3: Pediatric Orthopedic Specialists**

*Grand Ballroom A, Level 2*

7:00–7:20	Acute Correction of Tibia Vara <i>Philip McClure, MD</i>
7:20–7:35	Extramedullary Lengthening of the Femur: Tips and Tricks <i>Shawn Standard, MD</i>
7:35–7:50	Multiple Hereditary Exostosis: Treatment of the Elbow/Forearm <i>Aaron Huser, DO</i>
7:50–8:05	Mastering Surgical Hip Dislocation for Slipped Capital Femoral Epiphysis (SCFE) <i>Connor Green, MB BCH</i>
8:05–8:20	Update on Deformity in Osteogenesis Imperfecta <i>Jeanne Franzone, MD</i>
8:20–8:35	What to do with Poor Regenerate Bone <i>David Frumberg, MD</i>
8:35–8:50	Unlocking the Complex Congenital Knee <i>Shawn Standard, MD</i>
8:50–9:05	Deformity in X-linked Hypophosphatemic Rickets <i>Jill Flanagan, MD</i>
9:05–9:20	Femoral Head Reduction Osteotomy <i>Connor Green, MB BCH</i>
9:20–9:30	Discussion

### **9:30–10:30 Health Break and Visit with Corporate Partners**

*Grand Ballroom Pre-function, Level 2*

10:30–10:40	Femur Review: Planning Exercises <i>Daniel Ruggles, DO</i>	<i>Grand Ballroom, Level 2</i>
10:40–11:05	Contracture Management and the Latest Advances in Physical Therapy <i>Anil Bhavé, PT</i>	
11:05–11:25	Radiology Considerations <i>Janet Conway, MD</i>	
11:25–11:45	Surgeon Wellness <i>Christopher Iobst, MD</i>	
11:45–11:55	Discussion	

11:55–12:05 Closing Remarks and Exhibitor Contest Drawing  
*Philip McClure, MD, or John Herzenberg, MD*

12:05–12:25 Luncheon (grab lunch and return to the Grand Ballroom)

*Grand Ballroom Pre-function, Level 2*

12:25–12:40 Limb Reconstruction in the Low-resource Environment  
*Saad Ilyas, MBBS*

12:40–12:45 Groups A and B: Head to Afternoon Lab

12:40–1:15 Group C: Head to Afternoon Lab

12:45–5:00 **Groups A and B: Saturday Afternoon Labs**

**Group A-1:**

12:45–2:45 Six-axis External Fixation 3 Lab: Tibial Malunion Software Workshop *Cobalt Ballroom 1, Level 2*  
Facilitators: *Alexander Cherkashin, MD*  
Lab Assistants: *David Frumberg, MD; Christopher Iobst, MD; Kelsey Millonig, DPM; Mikhail Samchukov, MD; William Terrell, MD and Philip Wrotslavsky, DPM*

2:45–3:00 Head to Workshop

3:00–5:00 Internal Lengthening Nail Workshop *Vermillion, Level 4*  
Facilitator: *Michael Assayag, MD*  
Lecturers: *Mark Eidelman, MD; John Herzenberg, MD; Philip McClure, MD; Christof Radler, MD; and Daniel Ruggles, DO*

**Group A-2:**

12:45–2:45 Internal Lengthening Nail Workshop *Vermillion, Level 4*  
Facilitator: *Michael Assayag, MD*  
Lecturers: *Mark Eidelman, MD; John Herzenberg, MD; Philip McClure, MD; Christof Radler, MD; and Daniel Ruggles, DO*

2:45–3:00 Head to Next Lab

3:00–5:00 Six-axis External Fixation 3 Lab: Tibial Malunion Software Workshop *Cobalt Ballroom 1, Level 2*  
Facilitators: *Alexander Cherkashin, MD*  
Lab Assistants: *David Frumberg, MD; Christopher Iobst, MD; Kelsey Millonig, DPM; Mikhail Samchukov, MD; William Terrell, MD and Philip Wrotslavsky, DPM*

## **Groups B-1 and B-2:**

12:45–1:45 Six-axis External Fixation 5 Lab: Ankle Varus and Recurvatum *Marine Room, Level 2*  
Facilitators: *Guido LaPorta, DPM, and Noman Siddiqui, DPM*  
Lab Assistants: *Hummira Abawi, DPM; Samantha Bark, DPM; David Gottlieb, DPM; Jessica Knight, DPM; and Kelsey Millonig, DPM*

1:45–2:00 Head to Next Lab

2:00–5:00 Six-axis External Fixation 1 Lab: Fracture with Translation, *Cobalt Ballroom 2, Level 2*  
Varus Deformity, and Rotational Deformity  
Facilitators: *Christopher Bibbo, DO, and Noman Siddiqui, DPM*  
Lab Assistants: *Hummira Abawi, DPM; Samantha Bark, DPM; David Gottlieb, DPM; Matthew Greenblatt, DPM; Jessica Knight, DPM; and Jennifer Monaco, DPM*

5:00 Groups A and B: Conclusion

12:40–1:15 Group C: Head to Afternoon Lab

1:15–5:30 **Group C: Saturday Afternoon Labs**

## **Group C-1:**

1:15–3:15 Six-axis External Fixation 2 Lab: Malunion with Procurvatum *Grand Ballroom A, Level 2*  
Facilitators: *Jeanne Franzone, MD*  
Lab Assistants: *Talal Abalkhail, MBBS; Marcel Abouassaly, MD; Christine Goodbody, MD; Vache Hambardzumyan, MD; and Jessica Rivera, MD*

3:15–3:30 Head to Next Lab

3:30–5:30 Superhip Procedure with Infant Locking Cannulated Blade Plates *Azure & Indigo Rooms, Level 2*  
and Extensions Osteotomies Lab  
Facilitators: *John Herzenberg, MD; Shawn Standard, MD; and Elhanan Bar-On, MD*  
Lab Assistants: *Jill Flanagan, MD; Aaron Huser, DO; Basilia Nwankwo, MD; Ahmed Thabet, MD; and Jeffrey Young, MD*

## **Group C-2:**

1:15–3:15 Superhip Procedure with Infant Locking Cannulated Blade Plates *Azure & Indigo Rooms, Level 2*  
and Extensions Osteotomies Lab  
Facilitators: *John Herzenberg, MD; Shawn Standard, MD; and Elhanan Bar-On, MD*  
Lab Assistants: *Jill Flanagan, MD; Aaron Huser, DO; Basilia Nwankwo, MD; Ahmed Thabet, MD; and Jeffrey Young, MD*

3:15–3:30 Head to Next Lab

3:30–5:30 Six-axis External Fixation 2 Lab: Malunion with Procurvatum *Grand Ballroom A, Level 2*  
Facilitators: *Jeanne Franzone, MD*  
Lab Assistants: *Marcel Abouassaly, MD; Christine Goodbody, MD; Vache Hambardzumyan, MD; Jessica Rivera, MD; and Ahmed Thabet, MD*

5:30 Group C: Conclusion