

ELLER

Essentials of Lower Extremity Reconstruction

Program Chairs



Dr. David Podeszwa is a Professor of Orthopedic Surgery in the Department of Orthopedic Surgery at the University of Texas Southwestern Medical Center and serves as the Clinical Director of the Center for Excellence in Limb Lengthening and Reconstruction at Scottish Rite for Children in Dallas, TX. He is also Co-Director of the Controversies in Pediatric Limb Reconstruction symposium held at Scottish Rite for Children.



Philip K. McClure, MD, FAOS, is Assistant Director of the International Center for Limb Lengthening where he is a board-certified orthopedic surgeon specializing in limb lengthening and reconstruction. His practice focuses on children and adults who require limb reconstruction and/or lengthening due to trauma, infection, congenital conditions and genetic syndromes.

Dr. McClure serves as the director of the intensive one-year Limb Reconstruction Fellowship Program at the ICLL. He also co-chairs the annual Baltimore Limb Deformity Course where over 250 surgeons come to Baltimore to be trained in limb lengthening and deformity correction.

For more information, visit llrs.org

Questions? Contact info@llrs.org or wrobins@lifebridgehealth.org

ELLER

Essentials of Lower Extremity Reconstruction

January 2026

The Essentials of Lower Extremity Reconstruction course presents the basics of deformity analysis and external fixation constructs with a focus toward senior residents and orthopedic fellows. The course has collected faculty from across the country with expertise in deformity analysis and correction, with a focus on the applications of advanced deformity correction to common orthopedic pathology in the lower extremity. The importance of thorough clinical and radiographic evaluation is highlighted in relation to arthroplasty, sports reconstruction, trauma and pediatric orthopedics. Hands-on sawbone labs are designed to highlight the principles of stable external fixation and reconstruction, with interactive sessions reviewing a comprehensive system for deformity analysis and reconstruction.



Essentials of Lower Extremity Reconstruction is presented by a partnership between Limb Lengthening and Reconstruction Society and the Baltimore Limb Deformity Course, LifeBridge Health.



Day 1

7:15–7:55 a.m.	Course Check-in
7:15–7:55 a.m.	Continental Breakfast and Visit with Corporate Partners – Woodlawn
7:55–8:00 a.m.	Introduction and Objectives – <i>Philip K. McClure, MD</i>
8:00–8:15 a.m.	Case-Based Lecture: Power of Deformity Correction and Frame Skills – <i>Christopher A. Iobst, MD</i>
8:15–8:25 a.m.	What Is Straight? Coronal Analysis and Nomenclature – <i>John G. Birch, MD</i>
8:25–8:35 a.m.	What Is Straight? Sagittal Analysis and Nomenclature – <i>Jill C. Flanagan, MD</i>
8:40–9:25 a.m.	Lab: Normal Frontal and Sagittal Plane Measurements – <i>L. Reid Nichols, MD</i>
9:30–9:45 a.m.	Assessment of Malalignment (MAD and APEX) – <i>David Podeszwa, MD</i>
9:45–10:00 a.m.	Case Discussion: Multiply Failed ACL Reconstruction with Symptomatic Instability – <i>Michael Assayag, MD</i>
10:00–10:15 a.m.	Case Discussion: Arthroplasty vs. Osteotomy for Deformity Correction – <i>J. Spence Reid, MD</i>
10:15–10:30 a.m.	Deformity Correction and Total Knee arthroplasty: How Much is Too Much? – <i>Matt Deren, MD</i>
10:30–10:50 a.m.	Break and Visit with Corporate Partners – Woodlawn
10:50–11:10 a.m.	Deformity Principles in Trauma: Joint Line Angles for Periarticular Fractures – <i>Michael Assayag, MD</i>
11:10 a.m.–12:00 p.m.	Lab: Tibial Frontal Plane/Single-Level Deformities – <i>Marie Gdalevitch, MD</i>
12:00–12:20 p.m.	Bisector Line/Osteotomy Rules with Bone Ninja – <i>Philip K. McClure, MD</i>
12:20–1:10 p.m.	Lunch and Visit with Corporate Partners – Woodlawn
12:35–1:10 p.m.	Luncheon Presentation: History of Ilizarov – <i>Alexander Cherkashin, MD</i>
	Woodlawn
1:10–1:30 p.m.	Case-Based Lecture: Introduction to Ring Fixation – <i>J. Spence Reid, MD</i>
1:30–2:00 p.m.	Lecture: Frame Stability (Lucite Lab Models) – <i>Mikhail Samchukov, MD</i>
2:00 – 3:15 p.m.	Hands-On Lab: Frame Stability with Anatomic Limitations – <i>L. Reid Nichols, MD</i>
3:15–3:35 p.m.	Break and Visit with Corporate Partners – Woodlawn
3:35–3:50 p.m.	Fixator Assisted Techniques for Deformity Correction – <i>Marie Gdalevitch, MD</i>
3:50–4:40 p.m.	Lab: Femur Frontal Plane/Single-Level Deformities – <i>Elizabeth Hubbard, MD</i>
4:40 – 5:40 p.m.	Lab: Fixator Assisted Plating of the Distal Femur – <i>Philip K. McClure, MD</i>
5:30 to 5:45 p.m.	Questions/Evaluation – <i>All Faculty</i>
5:45 p.m.	Adjourn for Day – Dinner On Your Own

Registration

The course is FREE for Senior Residents (PGY3-5), Pediatric Fellows, and Trauma Fellows

Register at llrs.org

Participants must send a letter stating they are currently a Resident or Fellow to info@llrs.org

Questions? Contact info@llrs.org or wrrbins@lifebridgehealth.com

Day 2

7:30–8:00 a.m.	Continental Breakfast and Visit with Corporate Partners – Woodlawn
8:00–8:05 a.m.	Introduction and Objectives – <i>David Podeszwa, MD</i>
8:05–8:20 a.m.	Corticotomy/Osteotomy Techniques – <i>Jill C. Flanagan, MD</i>
8:20–8:40 a.m.	OR Set-up for Ring Fixation Cases – <i>Christopher A. Iobst, MD</i>
8:40–9:00 a.m.	Advanced Concepts: Double-Level, Oblique Plane, Sagittal Plane Case Discussion – <i>Philip K. McClure, MD</i>
9:00–9:15 a.m.	Case Discussion: Trauma – <i>J. Spence Reid, MD</i>
9:15–9:30 a.m.	Impact of Deformity on Sports Reconstruction – <i>Henry Ellis, MD</i>
9:30–9:45 a.m.	Principle-Based Cases in Pediatrics – <i>John G. Birch, MD</i>
9:45–10:00 a.m.	Case-Based Deformity Principles in the Foot and Ankle – <i>Marie Gdalevitch, MD</i>
10:00–10:25 a.m.	Break and Visit with Corporate Partners – Woodlawn
10:25–12:00 p.m.	Hands-On Lab: Fixation Options for Pilon Frame Bridged to Foot – <i>Michael Assayag, MD</i>
12:00–12:45 p.m.	Lunch and Visit with Corporate Partners – Woodlawn
12:15–12:30 p.m.	Luncheon Presentation: Where To Go From Here – <i>Elizabeth Hubbard, MD</i>
12:45–1:05 p.m.	Case Discussion: Bone Defect – <i>Michael Assayag, MD</i>
1:10–2:20 p.m.	Hands-On Lab: Bone Transport Frame – <i>J. Spence Reid, MD, All Faculty</i>
2:20–2:50 p.m.	Break and Visit with Corporate Partners – Woodlawn
2:50–4:05 p.m.	Hands-On Lab: Mid-Tibial Fracture: Rings First Ilizarov Build and Hexapod Transition – <i>Marie Gdalevitch, MD</i>
4:10–4:30 p.m.	Clinical Management of Patient in a Frame – <i>Alexander Cherkashin, MD</i>
4:30–4:45 p.m.	Case Based Review: Power for Deformity Correction and Frame Skills – <i>Jill C. Flanagan, MD</i>
4:45–5:00 p.m.	Questions/Evaluation – <i>All Faculty</i>
5:00 p.m.	Adjourn

Objectives

1. Describe the components of deformity analysis of the lower extremity;
2. Plan basic deformity correction (i.e., single-level, coronal plane);
3. Employ the concepts of stable circular frame construction for the application in deformity correction, bone lengthening, and fracture cases;
4. Construct a basic stable tibial circular frame (deformity, trauma, transport); and
5. Explain the basics of regenerate bone formation along with the concepts for basic regenerate care.