

Limb Lengthening and Reconstruction Society

Association for the Study and Application of the Methods of Ilizarov–North America

Agenda

Friday – July 16, 2021

7:15 a.m. Registration Opens

7:15–8:00 a.m. Continental Breakfast – **Visit Corporate Partners**

8:00–8:05 a.m. Welcome/Introduction/Disclosure

Session I: Internal Lengthening Nails I

Moderator: Kevin Louie, MD

8:05–8:11 a.m. Radiographs of 366 Removed Limb Lengthening Nails Reveal Differences in Bone Abnormalities Between Different Nail Types
Christopher A. Iobst, MD

8:12–8:18 a.m. Radiographic Changes following Lengthening with Nail
Aaron Huser, DO

8:19–8:25 a.m. Biopsy Confirmed Focal Osteolysis in a Stainless–Steel Lengthening Device* – *Philip K. McClure, MD*

8:26–8:32 a.m. Clinical Compatibility of Magnetic Resonance Imaging with Magnetic Intramedullary Nails* – *Lee Zuckerman, MD*

8:33–8:41 a.m. Discussion

Session II: Internal Lengthening Nails II

Moderator: J. Spence Reid, MD

8:42–8:48 a.m. Complications in Elective Removal of 271 Bone Lengthening Nails
Christopher A. Iobst, MD

8:49–8:55 a.m. Intramedullary Distraction Osteogenesis followed by Osseointegration for Amputees with Short Residual Femurs
Jason Shih Hoellwarth, MD

8:56–9:02 a.m. The Incidence and Management of Deep Vein Thrombosis and Pulmonary Embolism following Cosmetic Stature Lengthening with Steel Weightbearing Intramedullary Nails
Jason Shih Hoellwarth, MD

9:03–9:09 a.m. Implantable Nail Lengthening in Patients with Enchondromatosis
Aaron Huser, DO

9:10–9:18 a.m. Discussion

**indicates remote presentation*

Session III: Osseointegration

Moderator: S. Robert Rozbruch, MD

- 9:19–9:25 a.m. Osseointegration following Lower Limb Amputation due to Malignant Cancer – *Jason Shih Hoellwarth, MD*
- 9:26–9:32 a.m. Transtibial Osseointegration Confers Mobility Benefits with Limited Complications* – *Munjed Al Muderis, MB, ChB*
- 9:33–9:39 a.m. Osseointegration for Transfemoral Amputees with prior Total Knee Arthroplasty Complications* – *Kevin Tetsworth, MD*
- 9:40–9:47 a.m. Discussion
- 9:48–10:14 a.m. Refreshment Break – **Visit Corporate Partners**

Session IV: Pediatrics I

Moderator: David Frumberg, MD

- 10:15–10:21 a.m. Burosumab Improves Lower Limb Alignment in Children with X-Linked Hypophosphatemia – *David Frumberg, MD*
- 10:22–10:28 a.m. Multicenter Series of Deformity Correction using Guided Growth in the Setting of Osteogenesis Imperfecta – *Jeanne M. Franzone, MD*
- 10:29–10:35 a.m. What are the Risk Factors for Rebound Deformity after Correction of Lower Extremity Valgus deformities using Tension Band Plates in Skeletal Dysplasia? – *Armagan Can Ulusaloglu*
- 10:36–10:42 a.m. Prediction Matrix for Radial Head Subluxation/Dislocation in Patients with Multiple Hereditary Exostosis – *Aaron Huser, DO*
- 10:43–10:51 a.m. Discussion

Session V: Basic Science

Moderator: Jessica C. Rivera, MD, PhD

- 10:52–10:58 a.m. An Ovine Study of Locked Intramedullary Implants Across the Distal Femoral Growth Plate – *Kouami Amakoutou, MD*
- 10:59–11:05 a.m. Can Manipulation of the Mechanical Environment Improve Regenerate Bone Healing During the Consolidation Phase of Distraction Osteogenesis? *Christopher A. Iobst, MD*
- 11:06–11:12 a.m. To Minimize Biological (Thermal) Damage during Cortical Bone Drilling – an Experimental Parameters for Optimal Bone Drilling *Hla Moe Thaya, MD*
- 11:13–11:19 a.m. Can the Expression of Interleukin-6 by the Local Lymphocytes be Used as a Biomarker for Fracture Healing? – A Pilot Study and Ongoing Practice* *Androniki Drakou, MD*

**indicates remote presentation*

11:20–11:28 a.m. Discussion

Special Session: Limb Deformity Care in Low and Middle Income Countries

Moderator: Raymond W. Liu, MD

11:29–11:35 a.m. Building a Limb Deformity Practice in Nigeria*
Emeka Izuagba, MD

11:36–11:42 a.m. LLRS Efforts to Improve International Care – *Raymond W. Liu, MD*

11:43–11:49 a.m. Pediatric Orthopaedic Observerships in North America for International Surgeons: Perceived Barriers and Opportunities for Visitors and Hosts
Sanjeev Sabharwal, MD

11:50 a.m.–12:00 p.m. Fostering Limb Deformity Care with the SIGN Network*
Richard Gellman, MD

12:01–12:10 p.m. Discussion

12:10–1:05 p.m. Lunch

Session VI: Patient Reported Outcomes

Moderator: Harold van Bosse, MD

1:06–1:12 p.m. Concurrent Validity of DASH and PROMIS Scores in Transhumeral Amputees – *Samir Sabharwal, MD*

1:13–1:19 p.m. Concurrent Validity of Q-TFA with PROMIS & Prosthetic Wear Time in Transfemoral Amputees – *Samir Sabharwal, MD*

1:20–1:26 p.m. Functional Outcomes in the Treatment of Fibula Hemimelia – The 5-year Experience of a Regional Children's Hospital*
Njalalle Baraza, MD

1:27–1:33 p.m. Establishing the Content Validity of LIMB-Q Kids – A New Patient-Reported Outcome Measure for Children with Lower Limb Deformities*
Harpreet Chhina, PhD

1:34–1:40 p.m. Prospective Multi-Center Comparison of Modified Scoliosis Instruments and PODCI in Pediatric Limb Deformity Patients: A Preliminary Study
Raymond W. Liu, MD

1:41–1:50 p.m. Discussion

1:51–2:40 p.m. Difficult Case Presentation
Moderator: L. Reid Nichols, MD

2:41–3:05 p.m. Refreshment Break – **Visit Corporate Partners**

**indicates remote presentation*

Session VII: Pediatrics II

Moderator: David Podeszwa, MD

- 3:06–3:12 p.m. 3D–Printed Cutting Guides for Lower Limb Deformity Correction in the Young Population – *Roy Gigi, MD*
- 3:13–3:19 p.m. Magnetic Internal Plate Lengthening of the Femur and Tibia in Children: A Preliminary Report – *Mark T. Dahl, MD*
- 3:20–3:26 p.m. Systematic Isolation of Key Parameters for Estimating Skeletal Maturity on AP Hip Radiographs – *Ryan J. Furdock, MD*
- 3:27–3:33 p.m. The Utility of the Modified Fels Knee Skeletal Maturity System in Limb Length Prediction – *Ryan J. Furdock, MD*
- 3:34–3:40 p.m. Clinical Outcomes Following Surgical Hip Dislocation for Paediatric Hip Pathologies: A Prospective Cohort Study* – *Shane Ahern, MD*
- 3:41–3:51 p.m. Discussion
- 3:52–4:02 p.m. Traveling Fellowship Presentation
Introduction by Austin T. Fragomen, MD
Dr. Omolade Lasebikan
Sarah Nossov, MD
Daniel Stinner, MD
- 4:03–4:45 p.m. Business Meeting – **LLRS Members only**
- 5:30 p.m. Buses depart for President’s Reception
- 6:30–9:30 p.m. President’s Reception aboard Atlantis
- 9:45 p.m. Buses depart for Hotel

Saturday – July 17, 2021

7:30 a.m. Registration Opens

7:30–8:00 a.m. Continental Breakfast – **Visit Corporate Partners**

8:00–8:05 a.m. Announcements

Session VIII: Adult Deformity

Moderator: Stephen M. Quinnan, MD

8:06–8:12 a.m. Hexapod Circular External Fixators may Produce Superior Regenerate Bone, A Lower BHI, and Less Post Residual Deformity when Compared with Classic Circular Fixators When Used for Bone Transport or Lengthening Through Malunions
Austin T. Fragomen, MD

8:13–8:19 a.m. Indications and Outcomes of One Staged Two–Level Femur Osteotomies –
Joshua Buksbaum

8:20–8:26 a.m. Correction of Extra–articular Limb Deformity Before Total Knee Arthroplasty – *Stephen Wallace, MD*

8:27–8:33 a.m. Dual Femoral and Tibial Osteotomies for Large Lower Extremity Deformities – *Stephen Wallace, MD*

8:34–8:42 a.m. Discussion

8:43–9:45 a.m. Presidential Guest Speaker*
Horses for Courses: Choosing the Right Osteotomy for OA Knee
Milind M. Chardhary, MD

9:45–10:00 a.m. Refreshment Break – **Visit Corporate Partners**

10:01–10:30 a.m. Poster Session – please visit each poster

Session IX: Foot/Ankle and Trauma

Moderator: Douglas Beaman, MD

10:31–10:37 a.m. Augmentation of Internal Fixation with Multiplanar External Fixator in High–Risk Hind Foot Fusion Patients – *Meghan Kelly, MD*

10:38–10:44 a.m. Reconstruction of Severe Tibia Pilon Fractures Using Distraction Histiogenesis – *Roberto Hernandez–Irizarry, MD*

10:45–10:51 a.m. Unconstrained External Fixation Hinges in Joint Repair: Initial Clinical Experience – *Alexander Cherkashin, MD*

10:52–10:58 a.m. Long–Term Self–Reported Functional Outcomes following Unilateral Major Lower Extremity Combat Injury: Preliminary Results from the METALS II Study Group – *Jessica C. Rivera, MD, PhD*

**indicates remote presentation*

10:59–11:07 a.m.	Discussion
Session X: Miscellaneous Moderator: Jill C. Flanagan, MD	
11:08–11:14 a.m.	Prophylaxis and Treatment of Infection in Complex Extremity Reconstruction using Antibiotic Loaded Ceramic Coated Interlocking Intramedullary Nails – <i>Emilie–Ann Downey, MD</i>
11:15–11:21 a.m.	Preventative Multimodal Analgesia for Patients Undergoing Lower Limb Reconstruction with External Fixators; A Prospective Study of Postoperative Pain* – <i>Alice Wang, MD</i>
11:22–11:28 a.m.	A Novel Formula to Accurately Predict the Change in Tibial–Tuberosity to Trochlear–Groove (TTTG) Distance Following Supratubercle Osteotomy of the Tibia* – <i>Isabella Bozzo, MDCM (c), M. Eng</i>
11:29–11:35 a.m.	Applications and Error Ratios of Calibration Techniques in EOS and Teleoroentgenogram for Length Measurement: A Comparative Study <i>Ali Asma, MD</i>
11:36–11:44 a.m.	Discussion
11:45 a.m.–12:10 p.m.	President’s Remarks and Introduction of 2021–2022 President
12:10 p.m.	Adjourn

**indicates remote presentation*