

Limb Lengthening and Reconstruction Society

27th Annual Scientific Meeting

Hilton Union Square – San Francisco, CA

Friday – July 13, 2018

- 7:15–8:00 a.m. Registration, Continental Breakfast
Visit Corporate Partners
- 8:00–8:05 a.m. Welcome/Introduction
- 8:05–9:18 a.m. **Session I: Pediatrics – General**
Moderator:
- 8:05–8:11 a.m. Is Bony Knee Alignment Representative of the True Joint Surface in Skeletally Immature Patients? An MRI Study – *Raymond Liu, MD*
- 8:12–8:18 a.m. Results of Physeal Bar Resection at a Single Pediatric Institution
David A. Podeszwa, MD
- 8:19–8:25 a.m. OCD–Like Distal Femoral Lesions in Children with Blount Disease: What is the Clinical Relevance? – *Sanjeev Sabharwal, MD*
- 8:26–8:32 a.m. Evaluation of Skeletal Maturity using Distal Femoral Physis Central Peak – *Derrick M. Knapik, MD*
- 8:33–8:41 a.m. Discussion
- 8:42–8:48 a.m. A Pilot Study to Assess Dynamic Deformation of the Femoral Head During Weight Bearing in Legg–Calves–Perthes Disease
Anthony Cooper
- 8:49–8:55 a.m. Perceptions and Attitudes Towards Children with Orthopaedic Devices
Anthony Cooper
- 8:56–9:02 a.m. Prediction of Radial Head Subluxation in MHE
Jaroslav M. Deszczynski, Jr., MD
- 9:03–9:09 a.m. Use of Hexapod Frames to Gradually Correct Congenital and Acquired Forearm Deformity – *S. Robert Rozbruch, MD*
- 9:10–9:18 a.m. Discussion

- 9:19–9:55 a.m. **Session II: Trauma**
Moderator: J. Spence Reid, MD
- 9:19– 9:25a.m. Limb Salvage after Grade 3C open fractures of the Lower Extremity
Emre Ozmen
- 9:26–9:32 a.m. Reconstructive Rotational Flaps in Posttraumatic Soft Tissue Defects in
Lower Limbs – *Mirna Ochoa*
- 9:33–9:39 a.m. Treatment of Open Distal Tibia Intra–articular Fractures (OTA/AO 43)
with Circular External Fixators: Multicenter Report of 57 Cases
Dr. Ahmed Thabet
- 9:40 –9:46 a.m. The Results of Antibiotic Cement–Coated interlocking Intramedullary
Nails in Complex Lower Extremity Reconstruction – *Asim Mahkdom*
- 9:47–9:55 a.m. Discussion
- 9:55–10:15 a.m. Refreshment Break – *Visit Corporate Partners*
- 10:16–11:10: a.m. **Session III: Basic Science**
Moderator:
- 10:16–10:22 a.m. Mitigating Pathologic Fibrosis following Volumetric Muscle Loss in a
Porcine Model – *Jessica C. Rivera, MD*
- 10:23–10:29 a.m. Comparative Performance of Conventional Drills and Drills with
Controlled Advancement and Real Time Feedback
Alexander Cherkashin, MD
- 10:30–10:36 a.m. Circular External Fixation: Effect of Dynamization Modules on Bone
Segment Vertical and Lateral Displacement – *Mikhail Samchukov, MD*
- 10:37–10:43 a.m. Behavior of Intramedullary Implants across the Distal Femoral Growth
Plate: Preliminary Results from a Sheep Model
Chang–Yeon Kim, MD
- 10:44–11:00 a.m. Effect of Controlled Axial Dynamization on Experimental Midshaft
Tibial Fracture Healing on Goats: Preliminary Results
Christopher A. Iobst, MD
- 11:00–11:10 a.m. Discussion

- 11:10 a.m.–11:45 a.m. Alessandro Codivilla Presentation
The Wak Talk
Catherine Hicks
Animator
Pixar Animation Studios
- 11:45–12:45 p.m. Lunch
- 12:45– 1:29 p.m. **Session IV: Distraction Osteogenesis**
Moderator:
- 12:45–12:51 p.m. Tibial Lengthening Index and Complications by Use of Spatial Frame
or Ilizarov External Fixator in Acondroplasia Patients
Halil Ibrahim Balci
- 12:52–12:58 p.m. Long Term Functional and Psychological Outcomes of Patients
Undergoing Femoral Lengthening Using the Ilizarov Technique
David A. Podeszwa, MD
- 12:59–1:05 p.m. Short and Intermediate Term Function after Distraction Osteogenesis
for Bone Reconstruction in the Upper and Lower Extremity
Molly Friel Klima
- 1:06–1:12 p.m. Tibia–slope Control Using a Distraction Nail
Professor Rainer Baumgart
- 1:13–1:19 p.m. The Current Surgical Treatments of Leg Length Discrepancy after Total
Hip Arthroplasty – *Asim Makhdom*
- 1:19–1:29 p.m. Discussion
- 1:30–1:58 p.m. **Session V: Foot**
Moderator:
- 1:30–1:36 p.m. The Use of Circular External Fixation for Gradual Correction of Ankle
Contractures – *Austin T. Fragomen, MD*
- 1:37–1:43 p.m. Ankle Joint Preservation with Distraction Arthroplasty: Joint
Survivorship Analysis – *Douglas Beaman, MD*
- 1:44–1:55 p.m. Discussion
- 1:56–2:20 p.m. Refreshment Break – *Visit Corporate Partners*
- 2:20–2:35 p.m. **Clinician Scholar Career Development Program Presentation**
Stephen J. Wallace, MD

- 2:36–3:11 p.m. **Session VI: Limb Deficiency**
Moderator:
- 2:36–2:42p.m. Variable Location of Posterior Neurovascular Bundle in Fibular Hemimelia: A Magnetic Resonance Imaging Study – *Aaron Huser*
- 2:43–2:49 p.m. Hip Dysplasia – Reduction of Proximal Migration Before Arthroplasty Using a Fully Implantable Motorized Distraction Nail
Professor Rainer Baumgart
- 2:50–2:56 p.m. Congenital Femoral Deficiency: Comparison of the Effect of Distraction Index Regard to the Quality of Callus and Rate of Complications – *Halil Ibrahim Balci*
- 2:57–3:03 p.m. Congenital Pseudarthrosis of Tibia (CPT): Comparison of the Effect of Lengthening Rhythm to the Quality of Callus and Complications
Halil Ibrahim Balci
- 3:03–3:11 p.m. Discussion
- 3:11–4:15 p.m. **Session VII: Difficult Case Presentations**
Moderator:
- 4:16–5:00 p.m. Business Meeting – *LLRS Members Only*
- 6:15–8:15 p.m. **President’s Reception – Academy of Sciences**
Buses depart from Taylor Street at 5:30 p.m.
Buses return to Hilton Union Square at 8:45 p.m.

Saturday – July 14, 2018

- 7:45–8:30 a.m. Registration, Continental Breakfast
Visit Corporate Partners
- 8:30–9:00 a.m. **LLRS Traveling Fellowship Report**
Moderator: Joseph R. Hsu, MD
Dr. Anirejuoritse Bafor
Jamie Ferguson, MD
Andreia Nunes, MD
Jessica C. Rivera, MD
- 9:01–10:24 a.m. **Session VIII: Potpourri**
Moderator:
- 9:01–9:07 a.m. The Magnetic Intramedullary Compression Nail for the Treatment of Long Bone Nonunions – *Austin T. Fragomen, MD*
- 9:08–9:14 a.m. Hexapod Frame Mounting Parameters: Comparison of Different Measurement Techniques – *Alexander Cherkashin, MD*
- 9:15–9:21 a.m. Patient Reported Activity Outcomes do not Correlate with Objective Measures of Activity – *David A. Podeszwa, MD*
- 9:22–9:28 a.m. Carbon Fiber Reinforced IM Nails Perform Poorly in Limb Deformity Surgery – *Austin T. Fragomen, MD*
- 9:29–9:35 a.m. Tranexamic Acid Reduces Postoperative Blood Loss in Distal Femoral Osteotomy – *S. Robert Rozbruch, MD*
- 9:36–9:46 a.m. Discussion
- 9:47–9:53 a.m. Gait Analysis in Children with Proximal Femoral Focal Deficiency
Lorena Floccari, MD
- 9:54–10:00 a.m. Fibular Osteotomy Techniques: LLRS Survey Results
Christopher A. Iobst, MD
- 10:01–10:07 a.m. Controlling the Taylor Spatial Frame in Proximal Tibial Fractures: A Comparison of Standard Technique and TraumaCad 3.0
Andy Sems, MD
- 10:08–10:14 a.m. Blocking Screw–Assisted Nail Guidance in Lower Limb Deformity Correction – *Sarah N. Pierrie, MD*
- 10:14–10:24 a.m. Discussion

- 10:25–11:00 a.m. **Session IX: Pediatrics – Arthrogyriposis**
Moderator: Christopher A. Iobst, MD
- 10:25–10:31 a.m. Improving Knee Range of Motion on Arthrogyriptic Knee
David S. Feldman, MD
- 10:32–10:38 a.m. Correction of Mild to Moderate Arthrogyriptic Knee Flexion
Contractures with Guided Growth – *Harold J. P. van Bosse, MD*
- 10:39–10:45 a.m. Treatment of Severe Knee Flexion Contractures in Patients with
Arthrogyriposis – *Harold J. P. van Bosse, MD*
- 10:46 – 10:52 a.m. Does Open Reduction of Arthrogyriptic Hips Cause Stiffness?
Harold J. P. van Bosse, MD
- 10:52–11:00 a.m. Discussion
- 11:01–11:20 a.m. Refreshment Break – *Visit Corporate Partners*
- 11:21–12:15 a.m. Presidential Guest Speaker
Mark T. Dahl, MD
St. Croix Orthopaedics
- 12:16–12:35 p.m. Announcements, Closing Comments

28th Annual Scientific Meeting
July 19 & 20, 2019
Fairmont Copley Plaza
Boston, MA