

Limb Lengthening and Reconstruction Society

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

26th Annual Scientific Meeting

Agenda

Friday, July 21, 2017

- 7:30–8:00 a.m. Continental Breakfast
Visit Corporate Sponsors
- 8:00–8:10 a.m. Welcome, Disclosure – *Kevin Louie, MD and Karl E. Rathjen, MD*
- Session 1 Pediatrics I**
Moderator – *Christopher A. Iobst, MD*
- 8:10–8:16 a.m. Timing of Epiphysiodesis to Correct Leg Length Discrepancy: A Comparison of Prediction Methods – *John G. Birch, MD*
- 8:17–8:23 a.m. Is Proximal Fibula Epiphysiodesis Necessary When Performing a Proximal Tibial Epiphysiodesis? – *David Podeszwa, MD*
- 8:24–8:30 a.m. Limb Lengthening and Reconstruction in Pseudoachondroplasia
David S. Feldman, MD
- 8:31–8:37 a.m. Hemiepiphysiodesis for Lower Deformity in Pseudoachondroplasia Indications, Results and Pitfalls of Treatment – *David S. Feldman, MD*
- 8:37–8:45 a.m. Discussion
- 8:46–8:52 a.m. Strategies in the Management of Genu Recurvatum Deformity
Anthony Cooper, MD
- 8:53–8:59 a.m. Langenskiöld Procedure for Chronic and Recurrent Patellar Dislocation
Scott C. Nelson, MD
- 9:00–9:06 a.m. Outcomes Following Physeal Stapling Versus Tension Band Plating in Genu Valgum: A Systematic Review – *Derrick M. Knapik, MD*
- 9:07–9:13 a.m. Intertrochanteric Varus and Valgus Osteotomies Do Not Create Femoral Torsion – *Harold JP van Bosse, MD*
- 9:13–9:21 a.m. Discussion
- Session 2 Adult Deformity/Reconstruction**
Moderator – *Kevin Louie, MD*
- 9:21–9:27 a.m. The Association of Femoral Neck Shaft Angle and Degenerative Disease of the Hip in a Cadaveric Population – *Leigh-Anne Tu, MD*
- 9:28–9:34 a.m. FAN technique in High Tibial Osteotomy Fixation with Early Follow-up Results – *Levent Bayam MRCS(Ed)*

- 9:35–9:41 a.m. The Distal Femur Trochlear Groove Appears to Compensate for Tibial Deformity but Not Femoral Deformity in an Investigation of 579 Skeletons – *Joanne H. Wang, MD*
- 9:41–9:49 a.m. Discussion
- 9:49–9:55 a.m. Total Hip Arthroplasty and Femoral Nail Lengthening for Hip Dysplasia and Limb Length Discrepancy – *Elizabeth Harkin, MD*
- 9:56–10:02 a.m. Feasibility of Correcting the Mechanical Axis in Large Varus Deformities with Medial Unicompartmental Knee Arthroplasty
S. Robert Rozbruch, MD
- 10:03–10:09 a.m. Biomechanical and Patient–Reported Effects of Limb Malalignment Correction Using External Fixation in Patients with Varus Knee Osteoarthritis – *S. Robert Rozbruch, MD*
- 10:09–10:17 a.m. Discussion
- 10:17–10:32 a.m. Refreshment Break
Visit Corporate Sponsors
- Session 3 Lengthening**
Moderator – *Raymond Liu, MD*
- 10:32–10:39 a.m. Cost Comparison of Femoral Distraction Osteogenesis with External Lengthening Over a Nail versus Internal Magnetic Lengthening Nail
S. Robert Rozbruch, MD
- 10:40–10:46 a.m. A Comparison of Tibia Lengthening Techniques: Internal Lengthening, Lengthening and Then Nailing and Classic Ilizarov
Thomas D. Falls, MD
- 10:47–10:53 a.m. Management of the Proximal Tibiofibular Joint in Tibial Lengthening
Anthony Cooper, MD33332
- 10:54–11:04 a.m. Discussion
- 11:04–11:10 a.m. Resolution Axis Planning Method for Femoral Lengthening & Deformity Correction (A New Method) – *Sherif Galal Hassan, MD, PhD*
- 11:11–11:17 a.m. Functional and Psychological Effects of Stature Lengthening Surgery
Michael J. Assayag, MD
- 11:18–11:24 a.m. Distal Femoral Flexion Deformity from Growth Disturbance Treated with a Two–Level Osteotomy and Internal Lengthening Nail
Austin T. Fragomen, MD

- 11:24–11:34 a.m. Discussion
- 11:35 a.m. –12:20 p.m. **Alessandro Codivilla Guest Lecture**
“The Evolution of Medical Technology”
Stuart A. Green, MD
- 12:20–1:45 p.m. **Luncheon**
- Session 4** **Biomechanics/Research/Tumor**
Moderator – *Mitchell Bernstein, MD*
- 1:45–1:51 p.m. External Support Deformation due to Wire Tensioning
Christopher A. Iobst, MD
- 1:52–1:58 p.m. Real Time Monitoring of Frame Forces during Regenerate Consolidation – *J. Spence Reid, MD*
- 1:59–2:05 p.m. Effect of Unconventional Struts Attachment on the Result of Correction in Hexapod External Fixation – *Alexander Cherkashin, MD*
- 2:05–2:13 p.m. Discussion
- 2:13–2:19 p.m. Medial Knee Compartment Contact Pressure Reduces across the Gait Cycle – *S. Robert Rozbruch, MD*
- 2:20–2:26 p.m. The Ectopic Induced Membrane and its Use in Promoting Bone Formation and Healing in Segmental Defects – *John A. Ruder, MD*
- 2:27–2:33 p.m. Acellular Biological Scaffold Repair Does Not Overcome the Pathobiology of Volumetric Muscle Loss Injury – *Jessica C. Rivera, MD*
- 2:34–2:40p.m. Adjunctive Immunomodulation Improves Efficacy of Autologous Minced Muscle Graft in a Porcine Model of Volumetric Muscle Loss
Jessica C. Rivera, MD
- 2:40–2:48 p.m. Discussion
- 2:48 –2:54 p.m. Indication and Outcomes of Peroneal Nerve Releases in Patients with Multiple Hereditary Exostoses – *David Feldman, MD*
- 2:55 –3:01 p.m. Use of Magnetic Growing Intramedullary Nails with an Intercalary Allograft for Reconstruction after Tumor Resection
Lee Zuckerman, MD
- 3:02–3:08 p.m. A Preliminary Comparison of Carbon Fiber Reinforced versus Titanium Plates in Distal Femoral Osteotomy
Austin T. Fragomen, MD

- 3:08–3:16 p.m. Discussion
- 3:16–3:30 p.m. Refreshment Break
Visit Corporate Sponsors
- Session 5** **Trauma**
Moderator – *J. Spence Reid, MD*
- 3:30–3:36 p.m. CT–Based Assessment of Articular Fracture Severity and Limb Retention
Jessica C. Rivera, MD
- 3:37–3:43 p.m. Management of Both Tibia Bone and Soft Tissue Defects with Distraction
Histogenesis – *Qin Chenghe*
- 3:44–3:50 p.m. Teaching Cortical Screw Insertion: Evaluation of a Simple, Affordable,
Torque–Directed Training Protocol to Avoid Stripping
J. Stewart Buck, MD
- 3:50–3:58 p.m. Discussion
- 3:58–4:04 p.m. Prescription Reporting with Immediate Medication Utilization Mapping
(PRIMUM): Impact of an Alert on Controlled Substance Prescribing
Rachel B. Seymour, PhD
- 4:05–4:11 p.m. Quantitative Assessment of the Effect of Energy–storing Bracing for
Lower Extremity Trauma Patients – *Richard Peindl, PhD*
- 4:12–4:18 p.m. Reconstruction and Rehabilitation of Lower Limb Amputees via Single
Stage Osseointegration – *Munjed Al Muderis, MD*
- 4:18–4:26 p.m. Discussion
- 5:15 p.m. Buses depart for Olympic Park
- 6:00–8:00 p.m. **President’s Reception**
- 8:15 p.m. Buses depart for Lodges of Deer Valley

Saturday July 22, 2017

- 8:00–8:30 a.m. Member Continental Breakfast
Visit Corporate Sponsors
- 8:30–9:15 a.m. LLRS Business Meeting – *only LLRS members may attend*
- 8:45–9:15 a.m. Nonmember Continental Breakfast
Visit Corporate Sponsors
- Session 6** **2017 Traveling Fellowship Report**
9:20–9:50 a.m. Moderator: *Joseph R. Hsu, MD*
Frank Avilucea, MD
Emeka Izuagba, MD
David Frumberg, MD
Justin Orr, MD
- Session 7** **Pediatrics II**
Moderator– *L. Reid Nichols, MD*
- 9:55–10:01 a.m. The Acetabulum in Congenital Femoral Deficiency – CT Analysis of Anteversion /Retroversion and Size – *David S. Feldman, MD*
- 10:02–10:08 a.m. Developmental Patterns of the Greater Trochanter in Skeletal Immature Patients – *Derrick M. Knapik, MD*
- 10:09–10:15 a.m. Management of Hip Varus Deformity with Proximal Femur Osteotomy
Chenghe Qin, MD
- 10:16–10:22 a.m. Growth Modulation for Fixed Knee Flexion Contracture: Comparison of Two Methods – *Philip McClure, MD*
- 10:22–10:32 a.m. Discussion
- 10:32–10:38 a.m. A Systematic Approach for Surgical Treatment of Congenital Vertical Talus: Mid–Term Follow Up of 96 Cases – *Viachaslau Bradko, MD*
- 10:39–10:45 a.m. “A La Carte” Approach in Surgical Treatment of Equinus Deformity in Patients with Recurrent Clubfoot – *Viachaslau Bradko, MD*
- 10:46–10:52 a.m. Does Treatment Setting Influence Parent/Caregiver Expectations and Outcomes following Clubfoot Tenotomy? – *Jaclyn F. Hill, MD*
- 10:52–11:00 a.m. Discussion
- 11:00–11:06 a.m. Intravenous Lidocaine Reduces Post–Operative Pain and Opiate Requirements in Patients Undergoing External Fixation
Anthony Cooper, MD

- 11:07–11:13a.m. Development of a Cross–Cultural Patient–Reported Outcome Instrument to Measure the Health Related Quality of Life of Children and Adolescents with Lower Limb Deformities – Study Protocol
Anthony Cooper, MD
- 11:14–11:20 a.m. Consequences Following Distal Femoral Growth Plate Violation with an Intramedullary Implant: A Pilot Study in an Ovine Model
Derrick M. Knapik, MD
- 11:20– 11:30 a.m. Discussion
- 11:30–11:45 a.m. Announcements/Adjourn