Limb Lengthening and Reconstruction Society
Association for the Study and Application of the Methods of Ilizarov—North America

24th Annual Scientific Meeting

Agenda

Friday – July 25, 2014

7:00–8:00 a.m. Registration

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

8:00–8:05 a.m. In Memoriam: Doreen DiPasquale, MD – John K. Sontich, MD

8:05–8:14 a.m. Welcome, Disclosure – Sanjeev Sabharwal, MD, MPH

Bone Healing – Moderator: Reggie C. Hamdy, MD

8:15–8:20 a.m. The Accordion Maneuver and the Effects of Compression Loading on Delayed Regenerate Bone Formation in Cases of Limb Lengthening
Asim Makhdom, MD

8:21–8:26 a.m. Distraction Osteogenesis for Post–Traumatic Bone Defects of the Leg: Comparison of Classic versus Integrated Technique
Mitchell Bernstein, MD

8:27–8:32 a.m. Treatment of Long Bone Atrophic Pseudorthrosis with Platelet Rich Plasma and Distraction–Compression with Ilizarov External Fixator
Mustafa Gokhan Bilgili

8:33–8:38 a.m. Treatment of Aseptic Diaphyseal Nonunion of the Lower Extremities with Intramedullary Nailing and Blocking Screws without Open Bone Graft – Mustafa Gokhan Bilgili

8:39–8:49 a.m. Discussion

8:50–8:55 a.m. Reamed Intramedullary Nailing Has Adverse Effect in Bone Regeneration during Distraction Phase in Distraction Osteogenesis of Tibia–A Cohort Study – Dong Hoon Lee, MD, PhD

8:56–9:01 a.m. The Potential use of RNA Interference to Down–Regulate the BMP–Antagonist Noggin and Increase Bone Formation during Distraction Osteogenesis – Ana Cristina Ferreira Bassit, MD

9:02–9:07 a.m. Acceleration of Bone Regeneration in a Mouse Model of Distraction Osteogenesis with Systemic Administration of Sclerostin Antibodies
Asim Makhdom, MD

9:07–9:15 a.m. Discussion
**Deformity** – Moderator: Joseph R. Hsu, MD

9:15–9:20 a.m. Predicting Knee Joint Contact Pressure and Shear Stress for Different Alignments – Franziska Reisse, PhD

9:21–9:26 a.m. Femoral Derotation Osteotomies in Adults – Robert L. Buly, MD, MS

9:27–9:32 a.m. Knee Arthrodesis with Ilizarov Method as a Salvage Procedure after Septic Failure of TKA – Alexander Kirienko, MD

9:33–9:38 a.m. Wound and Scar Management in Lengthening and Deformity Correction: Collaboration between Orthopedic and Plastic Surgery – Serdar Tuncer, MD


9:45–9:55 a.m. Discussion

9:56–10:15 a.m. Refreshment Break – Visit Corporate Partners

**Lengthening Nails** – Moderator: John G. Birch, MD

10:16–10:21 a.m. An Anatomical Study of the Greater Trochanter Starting Point for Intramedullary Nailing – Raymond W. Liu, MD

10:22–10:27 a.m. The Importance of Reaming of Posterior Femoral Cortex before Insertion of the Lengthening Nails – Metin Kucukkaya, MD

10:28–10:33 a.m. Lengthening For Congenital Limb Length Discrepancy – Dror Paley, MD

10:34–10:39 a.m. Stature Lengthening Using a New Implantable Lengthening Device – Dror Paley, MD

10:40–10:45 a.m. Accuracy and Safety in Bilateral Lengthening of Lower Extremity using a Magnet Activated Intramedullary Lengthening Device – A Preliminary Report – Keun Jung Ryu, MD

10:46–10:51 a.m. Feedback Control for Patient–Specific Lengthening of an Implantable Limb Lengthening Device – Daniel Farley, MD

10:56–11:16 a.m. Discussion

11:17 a.m.–12:02 p.m. Presidential Memorial Lecture

**Diffusion of Innovation in Global Surgery**

David A. Spiegel, MD
Emerging Technologies, Session 1 – Moderator: S. Robert Rozbruch, MD

12:03–12:08 p.m. Plating Following Gradual Realignment with the Taylor Spatial Frame for Refractory Congenital Pseudoarthrosis of the Tibia: A Novel Technique – Yasuhisa Yoshida, MD

12:09–12:12 p.m. Fixator Assisted Technique enables Minimal Invasive Plate Osteosynthesis in Open Wedge High Tibial Osteotomy
   Dong Hoon Lee, MD, PhD

12:13–12:18 p.m. Toward a Novel, Implantable Limb Lengthening Device
   Daniel Farley, MD

12:19–12:24 p.m. Correction of Multilevel Deformities of the Lower Limb – A New Technique Using a Motorized Intramedullary Lengthening Nail and a Locking Plate – Ulrich Lenze, MD

12:25–12:30 p.m. Reconstruction Using the Tumor Prosthesis for Severe Deformities of the Lower Limbs in Five Cases – Yasuhisa Yoshida, MD

12:31–12:41 p.m. Discussion

12:45–2:15 p.m. Luncheon

1:15–2:00 p.m. Special Luncheon Presentation: The Kon–Tiki Expedition
   John G. Birch, MD and Harald Steen, MD

2:00–2:15 p.m. ILLRS Congress – November 4–7, 2015, Miami, Florida
   Reggie C. Hamdy, MD and Dror Paley, MD

Emerging Technologies, Session 2 – Moderator: J. Spence Reid, MD

2:20–2:25 p.m. The Induced Membrane Technique of Masquelet: Unanswered Questions Remain – Panagiotis (Peter) Glavas, MD

2:26–2:31 p.m. Early Clinical Experience with a New Calcium Sulphate Bead alongside Vancomycin and Tobramycin for Management of Infections and Dead Space: Bead Resorption and No Wound Drainage
   Daniel Schlatterer, DO

2:32–2:37 p.m. Liposome Encapsulated Quantum Dots for Imaging of a Rat Model of Distraction Osteogenesis – Lamees Nayef, MD

2:38–2:47 p.m. Discussion

External Fixation – Moderator: Stuart A. Green, MD

2:48–2:53 p.m. Mechanical Rigidity of the Ortho–SUV Frame Compared to the Ilizarov Frame in the Correction of Femoral Deformity
   Matt D. A. Fletcher, MBBS
2:54–2:59 p.m.  Rigidity of Spanning External Fixation Constructs Under Uniform Loading Conditions – Alexander Cherkashin, MD

3:00–3:05 p.m.  Avoidance of External Fixation Pin Induced Rotational Stiffness in the Forearm: A Cadaver Study of Soft Tissue Displacement Relative to the Varying Position of Radius and Ulna Fixation Matt D. A. Fletcher, MBBS


3:12–3:17 p.m.  Quantitative Analysis of Valgus Deformity during Lengthening over Nail of Tibia: A Case Control Study – Keun Jung Ryu, MD

3:18–3:30 p.m.  Discussion

3:31–3:57 p.m.  Refreshment Break – Visit Corporate Partners

3:58–4:03 p.m.  Pin Track Infections: Somewhere between 0 and 100% Christopher Iobst, MD

4:04–4:09 p.m.  Should Taylor Spatial Frame Mounting Parameters be Measured during or after Surgery? – Sami Sokucu, MD

4:10–4:15 p.m.  Treatment for Pathological Fractures Due To Primary Bone Tumors Using an External Fixator – Hidenori Matsubara, MD

4:16–4:21 p.m.  The Use of 6–Axis External Fixation Is Overall More Cost–Effective than Ilizarov for Canadian Health Care Centers – Marie Gdalevitch, MD

4:22–4:32 p.m.  Discussion

4:33–4:53 p.m.  Invited Lecture Management of Deformities in Osteogenesis Imperfecta: An Update Francois Fassier, MD

4:54–5:00 p.m.  Announcements

5:00 p.m.  Adjourn

6:00–8:00 p.m.  President’s Reception – Saint Gabriel L’Auberge
Saturday – July 26, 2014

7:15–7:45 a.m. Member Continental Breakfast – **Visit Corporate Partners**

7:45–8:30 a.m. LLRS Business Meeting – *all members please attend*

7:45–8:30 a.m. Nonmember Continental Breakfast – **Visit Corporate Partners**

8:30–8:35 a.m. Welcome, Disclosure

8:35–8:45 a.m. President’s Report
Introduction of Reggie C. Hamdy, MD, Incoming LLRS President
Sanjeev Sabharwal, MD, MPH

8:46–9:05 a.m. Reimagining Medical Education
*Rishi Desai, MD, MPH*

**Pediatrics: Growth Plate** – Moderator: **Karl E. Rathjen, MD**

9:06–9:11 a.m. Ipsilateral Healthy Leg Segment Response to Physeal Trauma causing Limb Length Discrepancy – *Marina Makarov, MD*

9:12–9:17 a.m. Correction of Developmental Deformities in Lower Extremities after Epiphyseal Plate Injuries using External Fixators – *Takao Aikawa, MD*

9:18–9:23 a.m. Is there a Correlation between the Interscrew Angle and the Joint Orientation Angles after Hemiepiphysiodesis with Eight–Plate? *Salih Marangoz, MD*

9:24–9:29 a.m. Complications associated with Epiphysiodesis for Management of Leg Length Inequality – *Karl E. Rathjen, MD*

9:30–9:35 a.m. Epiphyseal Preservation and Biological Reconstruction for Metaphyseal Osteosarcoma – *Hiroyuki Tsuchiya, MD, PhD*

9:36–9:46 a.m. Discussion

9:47–10:07 a.m. Special Guest Lecture
*Quality and Value in Orthopedics: An Update*
*James O. Sanders, MD*
AAOS Committee on Evidence–Based Quality and Value

**Pediatrics: Deformity** – Moderator: **Christopher Iobst, MD**

10:08–10:13 a.m. Review of Classification of Congenital Tibial Deficiency and Treatment at One Institution – *John G. Birch, MD*

10:14–10:19 a.m. The Nature of Foot Ray Deficiency in Congenital Fibular Deficiency
*John G. Birch, MD*
10:20–10:25 a.m. Pediatric Limb Lengthening and Reconstruction: Risk Factors Impacting Surgical Outcome – *Heather M. Richard, PsyD*

10:26–10:31 a.m. Adolescent's Tibia Vara Initial Deformity Correlates with Body Mass Index (BMI) and the Amount of Pressure on the Tibial Physis (P.T.P) – *Dr. Ronen Sever*

10:32–10:41 a.m. Discussion

10:42–10:47 a.m. Percutaneous Subtrochanteric Valgus Osteotomy for Painful Dislocated Hips in Patients with Cerebral Palsy – *Maximillian Martinez*

10:48–10:53 a.m. Validity and Deformity Consequences of a Rotational Mechanism for Stable Slipped Capital Femoral Epiphysis – *Raymond W. Liu, MD*

10:54–10:59 a.m. Bilateral Pubic Rami Lengthening for Pelvic Reconstruction in Bladder Exstrophy – *David A. Podeszwa, MD*

11:00–11:09 a.m. Discussion

11:10–11:30 a.m. Refreshment Break – **Visit Corporate Partners**

11:31–11:40 a.m. Clinical Scholar Development Program Presentation – *Michael Beltran, MD*

**Foot and Ankle** – Moderator: *John K. Sontich, MD*

11:41–11:46 a.m. Classification of Distal Tibia and Fibula Deformity – *Douglas N. Beaman, MD*

11:47–11:52 a.m. Secondary Hindfoot Nailing after Circular Fixation Limb Salvage – *Joseph R. Hsu, MD*

11:53–11:58 a.m. Internal Fixation Following Thin–Wire External Fixation Removal or Modification for Foot and Ankle Pathology – *Todd A. Irwin, MD*

11:59 a.m.–12:04 p.m. Characterization of Subtalar Joint Motion with Taylor Spatial Frame–based Deformity Correction – *Douglas N. Beaman, MD*

12:05–12:10 p.m. Short Term Results of Magnetic Resonance Imaging after Ankle Distraction Arthroplasty – *S. Robert Rozbruch, MD*

12:11–12:16 p.m. Distraction Osteogeneisis for Brachymetatarsia; Clinical Results and Implications on the Metatarsophalangeal Joint – *S. Robert Rozbruch, MD*
12:17–12:29 p.m.  Discussion

12:30–1:15 p.m.  **Past Presidents Symposium**
James A. Binski, MD
John G. Birch, MD
Richard S. Davidson, MD
Stuart A. Green, MD
Dror Paley, MD
S. Robert Rozbruch, MD
John K. Sontich, MD

1:15–1:30 p.m.  Closing Comments, Adjourn

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