

Limb Lengthening and Reconstruction Society

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

Friday – July 19, 2019

- 7:15–8:00 a.m. Registration, Continental Breakfast – *Visit Corporate Partners*
- 8:00–8:05 a.m. Welcome/Introduction/Disclosure
J. Spence Reid, MD and Austin T. Fragomen, MD
- Session I: Foot and Ankle/Upper Extremity**
Moderator: Douglas Beaman, MD
- 8:05–8:11 a.m. Subtalar Distraction Arthroplasty, A New Joint Preservation Technique
Ali Ghasemi
- 8:12–8:18 a.m. Integrated Reconstruction for Chronic Foot Dislocations
Douglas Beaman, MD
- 8:19–8:25 a.m. Limb Salvage Reconstruction by Ankle Arthrodesis and Lengthening Using Intramedullary Nailing of the Tibia – *Sherif Dabash, MD*
- 8:26–8:32 a.m. Lengthening of the Humerus using a Motorized Lengthening Nail: A Retrospective Comparative Series – *Stewart G. Morrison, MBBS*
- 8:33–8:41 a.m. Discussion
- Session II: Basic Science/Infection**
Moderator: Raymond W. Liu, MD
- 8:42–8:48 a.m. Retrograde Femoral Nailing Through an Open Pylorus does not Impair Growth in Pigs – *Ahmed Abdul-Hussein Abood*
- 8:49–8:55 a.m. Reverse Dynamization Accelerated Bone Healing in a Large Animal Osteotomy Model – *Christopher A. Iobst, MD*
- 8:56–9:02 a.m. Effect of Wire Tip Design and Material on the Wire Temperature during Drilling – *Kelsey Millonig, DPM, MPH*
- 9:03–9:09 a.m. An MRI Based Study on Whether the Patella is Truly Centered between the Femoral Condyles in the Coronal Plane – *Nihar Shah*
- 9:10–9:18 a.m. Discussion
- Session II: Basic Science/Infection continued**
Moderator: Austin T. Fragomen, MD
- 9:19–9:25 a.m. Biological Activity of Human Induced Membranes: Temporal Differences Between Femoral and Tibial Sites – *Kevin Tetsworth, MD*

- 9:26–9:32 a.m. Intramedullary Antibiotic Depot does not Preclude Successful Intramedullary Lengthening or Compression
Jessica C. Rivera, MD, PhD
- 9:33–9:39 a.m. Predictors of Successful Limb Salvage for Patients with Chronic Osteomyelitis of the Tibia and Ankle – *Aaron Lam, MD*
- 9:40–9:46 a.m. Biomechanical Comparison of Compression Plating versus an Electromagnetic Intramedullary Nail in Compression Utilizing a Femoral Sawbones Model – *Alex Mierke, MD*
- 9:47–9:55 a.m. Discussion
- 9:56–10:15 a.m. Refreshment Break – *Visit Corporate Partners*
- Session III: Tumor/Miscellaneous**
Moderator: Lee M. Zuckerman, MD
- 10:16–10:22 a.m. Bioexpandable Prostheses Bone Lengthening after Resection of Malignant Bone Tumors in Children – *Prof. Rainer Baumgart*
- 10:23–10:29 a.m. Immediate, All Internal Distraction Osteogenesis after Tumor Resection – *Lee M. Zuckerman, MD*
- 10:30–10:36 a.m. Biological Reconstruction with Bone Transport after Resection of Malignant Bone Tumors – *Prof. Rainer Baumgart*
- 10:37–10:43 a.m. Explanted Magnetic Nails: Can They Be Reactivated?
John E. Herzenberg, MD
- 10:44–10:52 a.m. Discussion
- Session III: Tumor/Miscellaneous continued**
Moderator: Kevin W. Louie, MD
- 10:53–10:59 a.m. Proximal Tibial Osteotomy for Genu Varum: Deformity Correction with Plate versus External Fixator – *Ali Ghasemi*
- 11:00–11:06 a.m. High Dose NSAIDS after Osteotomy Surgery Reduce Opioid Consumption without Affecting Bone Healing
Austin T. Fragomen, MD
- 11:07–11:13 a.m. Dilute Peripheral Nerve Catheters: A Unique Method to Decrease Postoperative Narcotic Usage in Limb Reconstruction Patients
Christopher A. Iobst, MD
- 11:14–11:21 a.m. Prevalence of Vitamin D Deficiency in Limb Lengthening Patients
Jessica C. Rivera, MD, PhD
- 11:22–11:29 a.m. Discussion

- 11:30 a.m.–12:15 p.m. **Presidential Guest Speaker**
William G. Mackenzie, MD
Chair, Department of Orthopedics
Nemours Children's Health System
Nemours/Alfred I. duPont Hospital for Children
Wilmington, DE
- 12:15–1:10 p.m. Lunch
- Session IV: Internal Lengthening Nails**
Moderator: S. Robert Rozbruch, MD
- 1:16–1:22 p.m. Results of Retrograde, Femoral Lengthening and Using the Reverse Planning Method – *Aaron J. Huser, DO*
- 1:23–1:29 p.m. Magnetic Nails: Mechanical Failure Rate and Types of Failures Observed in 245 Limb Segments – *John E. Herzenberg, MD*
- 1:30–1:36 p.m. Going to Great Lengths for the Elderly: Nail Lengthening Over 60
K. Patrick Powell, MD
- 1:37–1:43 p.m. The Accuracy of Blocking Screw Assisted Intramedullary Nailing for Limb Lengthening and Deformity Correction – *Sherif Dabash, MD*
- 1:44–1:52 p.m. Discussion
- 1:53–2:40 p.m. Difficult Case Presentations
Moderator: L. Reid Nichols, MD
Joseph R. Hsu, MD
Christopher A. Iobst, MD
- 2:41–3:00 p.m. Refreshment Break – *Visit Corporate Partners*
- 3:00–3:15 p.m. **Clinician Scholar Career Development Program Presentation**
Wendy Ramingman, MD
- Session V: Trauma I**
Moderator: Stephen M. Quinnan, MD
- 3:16–3:22 p.m. The Utility of Routine Cultures in Low Risk Nonunion Surgeries
Louis Lewandowski
- 3:23–3:29 p.m. ON Path: Outpatient Nonunion Pathway: Surgical Tactic and Pathway
Abhishek Ganta
- 3:30–3:36 p.m. Prospective Observational Study of an Integrated Therapeutic Initiative for Extremities (POSITIVE): Implementation of an Integrated Orthotic and Rehabilitation Program in the Civilian Setting – *Andrew D. Wohler*

- 3:37–3:43 p.m. Intentional Temporary Deformity in Type IIIA and IIIB Tibia Fractures with Hexapod Frame to Assist in Soft Tissue Coverage
J. Spence Reid, MD
- 3:44–3:52 p.m. Discussion
- 3:53–4:45 p.m. Business Meeting – *LLRS Members only*
- 5:45 p.m. Buses depart for President’s Reception – exit hotel onto Trinity Place
- 6:30–8:30 p.m. **President’s Reception**
Isabella Stewart Gardner Museum
25 Evans Way
Boston, MA 02115
- 8:45 p.m. Buses depart for Fairmont Copley Plaza from front of Museum

Saturday – July 20, 2019

- 7:15–8:00 a.m. Registration, Continental Breakfast – *Visit Corporate Partners*
- 8:00–8:05 a.m. Announcements
- Session VI: Trauma II**
Moderator: Mitchell Bernstein, MD
- 8:06–8:12 a.m. Plate Assisted Bone Segment Transport Utilizing a Magnetic Intramedullary Limb Lengthening System: Five Patients
Kory D. Blank, MD
- 8:13–8:19 a.m. Plate Assisted Bone Segment Transport in the Femur Using a Magnetic Internal Lengthening Nail – *John D. Wyrick, MD*
- 8:20–8:26 a.m. Single versus Double Level Corticotomy for the Treatment of Segmental Tibia Bone Defect Using the Balanced Cable Transport and Then Nailing Method – *Stephen M. Quinnan, MD*
- 8:27–8:33 a.m. Balanced Cable Transport with Circular External Fixation and Then Nailing for Segmental Tibia Bone Defects – *Stephen M. Quinnan, MD*
- 8:34–8:42 a.m. Discussion
- 8:43–9:45 a.m. **Alessandro Codivilla Presentation**
Boston Marathon
Patrick Downes, PsyD
Jessica Kensey, RN
- 9:45–10:00 a.m. Refreshment Break –
Visit Corporate Partners

- 10:01–10:30 a.m. Poster Session – *please visit the posters in the back of the meeting room*
- Session VI: Pediatrics**
Moderator: David Podeszwa, MD
- 10:31–10:38 a.m. The Use of Growth Modulation in Conjunction with Motorized, Internal, Femoral Lengthening in Patients with Congenital Femoral Deficiency – *Aaron J. Huser, DO*
- 10:39–10:46 a.m. Correction of the Lower Extremity Mechanical Axis Deviation in Children with Angular Deformities of the Knee treated with Guided Growth Hemiepiphysiodesis – *Oussama Abousamra, MD*
- 10:47–10:54 a.m. Foot Height Difference Does Contribute to Ultimate Leg Length Discrepancy in Fibular Hemimelia Patients – *Ashley Startzman, DO*
- 10:55–11:02 a.m. Comparison of the White–Menelaus and Anderson–Green Predictions of Growth Remaining in the Distal Femur and Proximal Tibia
Marina Makarov, MD
- 11:03–11:13 a.m. Discussion
- Session VI: Pediatrics continued**
Moderator: L. Reid Nichols, MD
- 11:14–11:21 a.m. Proximal Tibia Vara is a Hidden Deformity in a Subset of Patients with Congenital Posteromedial Bowing of the Tibia
Jeanne M. Franzone, MD
- 11:22–11:29 a.m. Current Use of Patient–Reported Outcomes in Pediatric Limb Deformity Research – *Kouami Amakoutou, MD*
- 11:30–11:37 a.m. Congenital Postero–Medial Bowing of Tibia: Differences in Lengthening Younger and Older Children – *Milind Chaudhary*
- 11:38–11:45 a.m. Syme Amputation: Is there an Ideal Limb Length Discrepancy?
Stewart G. Morrison, MBBS
- 11:46–11:56 a.m. Discussion
- 11:57 a.m.–12:10 p.m. Announcements, Closing Comments

29th Annual Scientific Meeting
July 17 & 18, 2020
Convene One Liberty Plaza
New York, NY