

Limb Lengthening and Reconstruction Society

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

Presentations

Welcome -

<https://drive.google.com/file/d/1gZ99ms3S8ZFpKB8BVSaWlQZxY7s8gFJZ/view?usp=sharing>

Austin T. Fragomen, MD

Session I: Internal Lengthening Nails I -

<https://drive.google.com/file/d/1YvDIk9fhqMRnVXdIAsR1aPmLc7mX9LKf/view?usp=sharing>

Moderator: Kevin Louie, MD

Radiographs of 366 Removed Limb Lengthening Nails Reveal Differences in Bone Abnormalities Between Different Nail Types – *Christopher A. Iobst, MD*

Radiographic Changes following Lengthening with Nail – *Aaron Huser, DO*

Biopsy Confirmed Focal Osteolysis in a Stainless–Steel Lengthening Device* – *Philip K. McClure, MD*

Clinical Compatibility of Magnetic Resonance Imaging with Magnetic Intramedullary Nails*
Lee Zuckerman, MD

Session II: Internal Lengthening Nails II -

https://drive.google.com/file/d/1PFLzPQs6qaaZ_0NaFzhaUaoQoYhLFQUp/view?usp=sharing

Moderator: J. Spence Reid, MD

Complications in Elective Removal of 271 Bone Lengthening Nails – *Christopher A. Iobst, MD*

Intramedullary Distraction Osteogenesis followed by Osseointegration for Amputees with Short Residual Femurs *Jason Shih Hoellwarth, MD*

The Incidence and Management of Deep Vein Thrombosis and Pulmonary Embolism following Cosmetic Stature Lengthening with Steel Weightbearing Intramedullary Nails – *Jason Shih Hoellwarth, MD*

Implantable Nail Lengthening in Patients with Enchondromatosis – *Aaron Huser, DO*

Session III: Osseointegration -

<https://drive.google.com/file/d/1FEbbyZl66DzqJq6S35QhtIEKEWmuSaOz/view?usp=sharing>

Moderator: S. Robert Rozbruch, MD

Osseointegration following Lower Limb Amputation due to Malignant Cancer
Jason Shih Hoellwarth, MD

Transtibial Osseointegration Confers Mobility Benefits with Limited Complications*
Munjed Al Muderis, MB, ChB

Osseointegration for Transfemoral Amputees with prior Total Knee Arthroplasty Complications*
Kevin Tetworth, MD

Session IV: Pediatrics I -

<https://drive.google.com/file/d/1Q16lrjauWKXM9tuCi2DyeWVWYySGBAuX2/view?usp=sharing>

Moderator: David Frumberg, MD

Burosumab Improves Lower Limb Alignment in Children with X-Linked Hypophosphatemia
David Frumberg, MD

Multicenter Series of Deformity Correction using Guided Growth in the Setting of Osteogenesis Imperfecta – *Jeanne M. Franzone, MD*

Lower Extremity Valgus deformities using Tension Band Plates in Skeletal Dysplasia?
Armagan Can Ulusaloglu

Prediction Matrix for Radial Head Subluxation/Dislocation in Patients with Multiple Hereditary Exostosis
Aaron Huser, DO

Session V: Basic Science -

https://drive.google.com/file/d/1zglpdGxGu_aThMmpOgNtcDjHcDUlnna0/view?usp=sharing

Moderator: Jessica C. Rivera, MD, PhD

An Ovine Study of Locked Intramedullary Implants Across the Distal Femoral Growth Plate
Kouami Amakoutou, MD

Can Manipulation of the Mechanical Environment Improve Regenerate Bone Healing During the Consolidation Phase of Distraction Osteogenesis? – *Christopher A. Iobst, MD*

To Minimize Biological (Thermal) Damage during Cortical Bone Drilling – An Experimental Parameters for Optimal Bone Drilling – *Hla Moe Thaya, MD*

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*

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

https://drive.google.com/file/d/1iqcCiXSm8ozUv1UtvmRn5uiw_FpAserI/view?usp=sharing

Moderator: Raymond W. Liu, MD

Building a Limb Deformity Practice in Nigeria* – *Emeka Izuagba, MD*

LLRS Efforts to Improve International Care – *Raymond W. Liu, MD*

Pediatric Orthopaedic Observerships in North America for International Surgeons: Perceived Barriers and Opportunities for Visitors and Hosts – *Sanjeev Sabharwal, MD*

Fostering Limb Deformity Care with the SIGN Network* – *Richard Gellman, MD*

Session VI: Patient Reported Outcomes -

<https://drive.google.com/file/d/11mENjNQxerFQtuFtXicvSNjcKFyRtUYM/view?usp=sharing>

Moderator: Harold van Bosse, MD

Concurrent Validity of DASH and PROMIS Scores in Transhumeral Amputees – *Samir Sabharwal, MD*

Concurrent Validity of Q-TFA with PROMIS & Prosthetic Wear Time in Transfemoral Amputees
Samir Sabharwal, MD

Functional Outcomes in the Treatment of Fibula Hemimelia – The 5-year Experience of a Regional Children's Hospital* – *Njalalle Baraza, MD*

Establishing the Content Validity of LIMB-Q Kids – A New Patient-Reported Outcome Measure for Children with Lower Limb Deformities* – *Harpreet Chhina, PhD*

Prospective Multi–Center Comparison of Modified Scoliosis Instruments and PODCI in Pediatric Limb Deformity Patients: A Preliminary Study – *Raymond W. Liu, MD*

Difficult Case Presentation -

<https://drive.google.com/file/d/1ISP7cdgPflU5kBKPBg3eMC2mmBzXZOV/view?usp=sharing>

Moderator: L. Reid Nichols, MD

Session VII: Pediatrics II - https://drive.google.com/file/d/1RWAEo6j_ghvG1rngV65FRjVQuYzi-EfI/view?usp=sharing

Moderator: David Podeszwa, MD

3D–Printed Cutting Guides for Lower Limb Deformity Correction in the Young Population
Roy Gigi, MD

Magnetic Internal Plate Lengthening of the Femur and Tibia in Children: A Preliminary Report
Mark T. Dahl, MD

Systematic Isolation of Key Parameters for Estimating Skeletal Maturity on AP Hip Radiographs
Ryan J. Furdock, MD

The Utility of the Modified Fels Knee Skeletal Maturity System in Limb Length Prediction
Ryan J. Furdock, MD

Clinical Outcomes Following Surgical Hip Dislocation for Paediatric Hip Pathologies: A Prospective Cohort Study* – *Shane Ahern, MD*

Traveling Fellowship Presentation -

https://drive.google.com/file/d/1E_56ShmRGTYbEfbXnC3xLTmlTuqlIpxS/view?usp=sharing

Introduction by Austin T. Fragomen, MD

Dr. Omolade Lasebikan

Sarah Nossov, MD

Daniel Stinner, MD

Session VIII: Adult Deformity - https://drive.google.com/file/d/12gy-S_1CHdwo3upKSqgKS3onQFXET7L/view?usp=sharing

Moderator: Stephen M. Quinnan, MD

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*

Indications and Outcomes of One Staged Two–Level Femur Osteotomies – *Joshua Buksbaum*

Correction of Extra–articular Limb Deformity Before Total Knee Arthroplasty – *Stephen Wallace, MD*

Dual Femoral and Tibial Osteotomies for Large Lower Extremity Deformities – *Stephen Wallace, MD*

Presidential Guest Speaker* -

https://drive.google.com/file/d/167hcoz_j0MCvGnvxgBO4MtjsjXwlEd6w/view?usp=sharing

Horses for Courses: Choosing the Right Osteotomy for OA Knee

Milind M. Chardhary, MD

Session IX: Foot/Ankle and Trauma - https://drive.google.com/file/d/17fhceJ3DYqHxt-Kge0jHl_hkWkNGOJmg/view?usp=sharing

Moderator: Douglas Beaman, MD

Augmentation of Internal Fixation with Multiplanar External Fixator in High-Risk Hind Foot Fusion Patients – *Meghan Kelly, MD*

Reconstruction of Severe Tibia Pilon Fractures Using Distraction Histogenesis
Roberto Hernandez-Irizarry, MD

Unconstrained External Fixation Hinges in Joint Repair: Initial Clinical Experience
Alexander Cherkashin, MD

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*

Session X: Miscellaneous -

<https://drive.google.com/file/d/1r3Vyy1nC9aOXUorI1rnDaJdKUyw145ex/view?usp=sharing>

Moderator: Jill C. Flanagan, MD

Prophylaxis and Treatment of Infection in Complex Extremity Reconstruction using Antibiotic Loaded Ceramic Coated Interlocking Intramedullary Nails – *Emilie-Ann Downey, MD*

Preventative Multimodal Analgesia for Patients Undergoing Lower Limb Reconstruction with External Fixators; A Prospective Study of Postoperative Pain* – *Alice Wang, MD*

A Novel Formula to Accurately Predict the Change in Tibial-Tuberosity to Trochlear-Groove (TTTG) Distance Following Supratubercle Osteotomy of the Tibia* – *Isabella Bozzo, MDCM (c), M. Eng*

Applications and Error Ratios of Calibration Techniques in EOS and Teleoroentgenogram for Length Measurement: A Comparative Study – *Ali Asma, MD*

President's Remarks & Introduction of 2021-2022 President

https://drive.google.com/file/d/1-qZX15JynRz-QBV6oUHnK_ZXVG4pQtmh/view?usp=sharing

Austin T. Fragomen, MD and Raymond W. Liu, MD