

Live Session Agenda - Saturday, September 12

Session times are listed in US Eastern Daylight Time.

Saturday, September 12, 2020

9:00-9:40 US EDT / 21:00-21:40 CST / 15:00-15:40 CEST

Session 4A: Hibbs Basic Science Research Award Nominees

Moderators: A. Noelle Larson, MD & Stefan Parent, MD, PhD & Ferran Pellisé, MD, PhD

- 9:00-9:04 **Welcome**
Lindsay M. Andras, MD
- 9:04-9:08 **Paper #55: Genetic Prediction of Onset and Progression of Adolescent Idiopathic Scoliosis**
Nao Otomo, MD; Kazuki Takeda, MD, PhD; Yoji Ogura, MD, PhD; Yohei Takahashi, MD, PhD; Shohei Minami, MD, PhD; Koki Uno, MD, PhD; Noriaki Kawakami, MD, PhD; Manabu Ito, MD, PhD; Kei Watanabe, MD, PhD; Takashi Kai-to, MD, PhD; Hiroshi Taneichi, MD, PhD; Katsumi Harimaya, MD, PhD; Yuki Taniguchi, MD, PhD; Hideki Shigematsu, MD, PhD; Takahiro Iida, MD, PhD; Satoru Demura, MD, PhD; Ryo Sugawara, MD, PhD; Nobuyuki Fujita, MD, PhD; Mitsuru Yagi, MD, PhD; Eijiro Okada, MD, PhD; Naobumi Hosogane, MD, PhD; Kazuhiro Chiba, MD, PhD; Toshiaki Kotani, MD, PhD; Tsuyoshi Sakuma, MD, PhD; Tsutomu Akazawa, MD, PhD; Teppei Suzuki, MD, PhD; Kotaro Nishida, MD, PhD; Kenichiro Kakutani, MD, PhD; Taichi Tsuji, MD, PhD; Tatsuya Sato, MD, PhD; Satoshi Inami, MD, PhD; Masaya Nakamura, MD, PhD; Morio Matsumoto, MD, PhD; Shiro Ikegawa, MD, PhD; Chikashi Terao, MD, PhD; Kota Watanabe, MD, PhD
- 9:08-9:12 **Paper #56: Correlation of Collagen X Biomarker (CXM) with Peak Height Velocity and Radiographic Measures of Growth in Idiopathic Scoliosis**
Michelle C. Welborn, MD; Ryan Coghlan, MS; James O. Sanders, MD; Vishwas R. Talwalkar, MD; Amer F. Samdani, MD; Joseph Stone, MD; Daniel Bouton, MD; William Horton, MD; Susan Sienko, PhD
- 9:12-9:16 **Paper #57: Does Implant Density Matter in the Surgical Outcomes of Severe Kyphoscoliosis Exceeding 100 Degrees or Treated by 3CO?**
Oheneba Boachie-Adjei, MD; Henry Ofori Duah, MPH; Arthur Sackeyfio, MD; Kwadwo Poku Yankey, MD; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Amer F. Samdani, MD; Daniel J. Sucato, MD, MS; Brenda A. Sides, MA; Peter O. Newton, MD; Suken A. Shah, MD; Harry Akoto, MD; Munish C. Gupta, MD
- 9:16-9:25 **Discussion**
- 9:25-9:29 **Paper #58: A Novel Imaging Study to Quantify Respiratory Function in Early Onset Scoliosis-Introducing Quantitative Dynamic Magnetic Resonance Imaging (QdMRI)**
Yubing Tong, PhD; Jayaram K. Udupa, PhD; Joseph M. McDonough, MS; Caiyun Wu, MS; Catherine Qiu, MS; Carina Lott, MS; Nirupa Galagedera, BA; Jason B. Anari, MD; Drew A. Torigian, MA; Patrick J. Cahill, MD
- 9:29-9:33 **Paper #59: Prospective Study of Intraoperative MEP Monitoring to Identify Lumbosacral Nerve Root Motor Deficits**
Kelley Wichman, BS; Hyunmi Choi, MD; Anil Mendiratta, MD; Earl D. Thuet, BS; Paul Kent, MD; Meghan Cerpa, MPH; Ronald A. Lehman, MD; Lawrence G. Lenke, MD
- 9:33-9:40 **Discussion**

9:40-10:50 US EDT / 21:40-22:50 CST / 15:40-16:50 CEST

Session 4B: Hibbs Clinical Science Research Award Nominees

Moderators: Lindsay M. Andras, MD & Peter O. Newton, MD & Colin Nnadi, FRCS (Orth)

- 9:40-9:44 **Paper #60: Moderate Scoliosis Continues to Progress at 30-Year Follow-Up. A Call for Concern?**
Christopher Alcalá, MD; Amir A. Mehbod, MD; Francis Denis, MD; Timothy A. Garvey, MD; Joseph H. Perra, MD; Ensor E. Transfeldt, MD
- 9:44-9:48 **Paper #61: Complications Following Posterior Surgical Treatment of Adolescent Idiopathic Scoliosis: Prospective 10-Year Follow-Up Study**
Arun R. Hariharan, MD; Suken A. Shah, MD; Margaret Baldwin, MD; Joseph Petfield, MD; Burt Yaszay, MD; Peter O. Newton, MD; Baron Lonner, MD; Firoz Miyanji, MD; Paul D. Sponseller, MD, MBA; Amer F. Samdani, MD
- 9:48-9:54 **Discussion**

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- 9:54-9:58 **Paper #62: Comparison of Clinical and Functional Outcomes of Vertebral Body Tethering to Posterior Spinal Fusion in Patients with Adolescent Idiopathic Scoliosis and Evaluation of Quality of Life**
Tuna Pehlivanoglu, MD; Ismail Oltulu, MD; Emre Korkmaz, MD; Yigit Erdag, MD; Ender Sarioglu, MD; Ender Ofluoglu, MD; Mehmet Aydogan, MD
- 9:58-10:02 **Paper #63: Anterior Vertebral Body Tethering in Idiopathic Scoliosis: A Prospective, Multicenter Analysis**
Firoz Miyanji, MD; Paul R. Rushton, FRCS; Isabelle Turgeon, BSc; Luigi A. Nasto, MD; Jeff Pawelek, BS; Stefan Parent, MD, PhD
- 10:02-10:06 **Paper #64: Spring Distraction System to Correct Early Onset Scoliosis: 2-Year Follow-Up Results From 22 Patients.**
Justin V. Lemans, MD; Sebastiaan P. Wijdicks, MD; René M. Castelein, MD, PhD; Moyo C. Kruyt, MD, PhD
- 10:06-10:15 **Discussion**
- 10:15-10:19 **Paper #65: Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis at 5-6 Year Follow-Up: Outcomes and Impact of Related Serious Adverse Events**
Justin S. Smith, MD, PhD; Michael P. Kelly, MD; Elizabeth L. Yanik, PhD; Christine Baldus, RN; Thomas J. Buell, MD; Jon D. Lurie, MD, MS; Charles C. Edwards, MD; Steven D. Glassman, MD; Lawrence G. Lenke, MD; Oheneba Boachie-Adjei, MD; Jacob M. Buchowski, MD; Leah Y. Carreon, MD; Charles H. Crawford III, MD; Stephen J. Lewis, MD, FRCS(C); Tyler Koski, MD; Stefan Parent, MD, PhD; Virginie Lafage, PhD; Munish C. Gupta, MD; Han Jo Kim, MD; Christopher P. Ames, MD; Shay Bess, MD; Frank J. Schwab, MD; Christopher I. Shaffrey, MD; Keith H. Bridwell, MD
- 10:19-10:23 **Paper #66: Realistic Radiographic Lordosis Achieved in Pedicle Subtraction Osteotomies (PSO) and 3-Level Posterior Column Osteotomies (PCO) in Adult Spinal Deformity (ASD) Patients with 2-Year Follow-Up**
Joshua Rivera; Praveen V. Mummaneni, MD; Jeremy Guinn, BS; Hao-Hua Wu, MD; Minghao Wang, MD, PhD; Pingguo Duan, MD; Zhuo Xi, MD; Bo Li, MD; Rory R. Mayer, MD; Shane Burch, MD; Sigurd H. Berven, MD; Dean Chou, MD
- 10:23-10:27 **Paper #67: Quality Metrics in Adult Spinal Deformity (ASD) Surgery Over the Last Decade: A Combined Analysis of the Largest Prospective Multicentric Datasets**
Ferran Pellisé, MD, PhD; Miquel Serra-Burriel, PhD; Alba Vila-Casademunt, MS; Justin S. Smith, MD, PhD; Ibrahim Obeid, MD; Douglas C. Burton, MD; Frank S. Kleinstueck, MD; Shay Bess, MD; Javier Pizones, MD, PhD; Virginie Lafage, PhD; Francisco Javier S. Perez-Grueso, MD; Frank J. Schwab, MD; Jeffrey L. Gum, MD; Eric O. Klineberg, MD; Christopher I. Shaffrey, MD; Ahmet Alanay, MD; Christopher P. Ames, MD
- 10:27-10:36 **Discussion**
- 10:36-10:40 **Paper #68: Automated Measurement of Spinopelvic Parameters on Lateral Lumbar Radiographs Using Deep Learning**
John T. Schwartz, BS; Varun Arvind, BS; Brian H. Cho, BS; Aly A. Valliani, BS; Eric Geng, BS; Peter Tang, MD; Jun Kim, MD; Samuel K. Cho, MD
- 10:40-10:44 **Paper #69: Outcomes of Neurologic Deficit and Use of Intraoperative Neuromonitoring for Lower Cervical and Upper Thoracic Three Column Osteotomies for Deformity Correction**
Darryl Lau, MD; Alexander Haddad, BS; Vedat Deviren, MD; Christopher P. Ames, MD
- 10:44-10:50 **Discussion**

10:50-11:30 US EDT / 22:50-23:30 CST / 16:50-17:30 CEST

2021 Preview, Scientific Awards & Transfer of Presidency*

- 10:50-10:54 **2021 IMAST Preview**
David L. Skaggs, MD, MMM
- 10:54-10:58 **2021 Annual Meeting Preview**
Michael P. Kelly, MD
- 10:58-11:05 **Scientific Award Presentations: Russell A. Hibbs, Louis A. Goldstein, John H. Moe**
Presented by: Lindsay M. Andras, MD
- 11:05-11:10 **Introduction of the 2021 President**
Paul D. Sponseller, MD, MBA

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11:10-11:30 **Transfer of Presidency**
Muharrem Yazici, MD

11:30-12:40 US EDT / 23:30-00:40 CST / 17:30-18:40 CEST

Early Career Surgeons Session*

The Early Career Surgeons Session is supported, in part, by a grant from Medtronic.

Discussion Leaders: Kariman Abelin-Genevois, MD, PhD; Laurel C. Blakemore, MD; Louis Boissiere, MD; Robert H. Cho, MD; Kenny Kwan, BMBCh(Oxon), FRCSEd; Javier Pizones, MD, PhD; Christopher I. Shaffrey, MD; Brian G. Smith, MD; Justin S. Smith, MD; Paul D. Sponseller MD, MBA; Muharrem Yazici, MD; Caglar Yilgor, MD

11:30-11:40 **Introduction to Early Career Surgeon's Program**
Paul D. Sponseller, MD, MBA

11:40-11:55 **Case Discussion: Selective Thoracic Fusion**
Altug Yucekul, MD

11:55-12:10 **Case Discussion: T10-Pelvis Fusion**
Pierre Grobost, MD

12:10-12:25 **Case Discussion: Single Level Lumbar Stenosis**
Timothy O'Connor, MD

12:25-12:40 **Details of SRS Mentorship Program**
Brian G. Smith, MD

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