



43rd Annual Meeting & Course

Reaching New Heights in 2008!

Saturday, September 13, 2008

7:55 - 8:00 am Announcements

Session VII

Moderators: Lori A. Karol, MD
David L. Skaggs, MD

Adolescent Idiopathic Scoliosis

- 8:00 - 8:04 am **Quality of Life in Adult AIS Patients - Comparison Between Untreated and Brace Treated Patients**
Paper #84
Aina J. Danielsson, MD, PhD; Ralph Hasserius, PhD; Acke Ohlin, MD, PhD; Alf Nachemson, MD, PhD
- 8:04 - 8:08 am **The Association between the SRS-22 and Scoliosis Severity Changes at a Clinically Relevant Threshold**
Paper #85
Eric C. Parent, PT, MSc, PhD; Daniel L. Wong; Douglas L. Hill, P.Eng, MBA; James Mahood, MD; Marc Moreau, MD, FRCS(C); Jim Raso, MASC; Edmond Lou, PhD
- 8:08 - 8:12 am **Hospital Costs Associated with Surgical Treatment of Adolescent Idiopathic Scoliosis**
Paper #86
Charles T. Mehlman; DO, MPH; Jun Ying, PhD; Cassie L. Kirby, BA
- 8:12 - 8:21 am Discussion
- 8:22 - 8:26 am **Change in Thoracic Sagittal Alignment Following Posterior Instrumentation for Lenke 1A and B Curves**
Paper #87
James O. Sanders, MD; John P. Dormans, MD; Timothy Kuklo, MD, JD; Lawrence G. Lenke, MD; B. Stephens Richards, III, MD; Charles E. Johnston, MD; Daniel J. Sucato, MD, MS; John B. Emans, MD; Mohammad Diab, MD; Michael Shainline, MS; Spinal Deformity Study Group
- 8:26 - 8:30 am **Preservation of Thoracic Kyphosis: A Critical Component to Maintaining Post-Operative Lumbar Lordosis during the Surgical Treatment of Adolescent Idiopathic Scoliosis**
Paper #88
Vidyadhar V. Upasani, MD; Peter O. Newton, MD; Jeff B. Pawelek, BS; Tracey P. Bastrom, MA; Lawrence G. Lenke, MD; Thomas G. Lowe, MD; Alvin H. Crawford, MD; Randal R. Betz, MD; Baron S. Lonner, MD; Harms Study Group

- 8:30 - 8:34 am **3D Sub-Classification of Lenke 1 Curves**
Paper #89
Archana P. Sangole, PhD; Carl-Éric Aubin, PhD, P.Eng; Hubert Labelle, MD; Lawrence G. Lenke, MD; Ian A. Stokes, PhD; Peter O. Newton, MD; Roger P. Jackson, MD
- 8:34 - 8:43 am Discussion
- 8:44 - 8:48 am **Treatment Outcome and Patient's Acceptance of the SpineCor vs Rigid Bracing System for AIS Girls - A Randomized Controlled Trial with Follow Up Till Skeletal Maturity**
Paper #90
Tsz-ping Lam; MB, BS; Man-sang Wong, PhD; Bobby Kin-wah Ng, MD; Sai-wing Sin; Hoi-kei Rachel Kwok; Lai-fong Sandra Shum; Prof. Daniel Hung-kay Chow; Jack Chun Yiu Cheng, MD
- 8:48 - 8:52 am **Relative Contributions of Discal and Vertebral Wedging to Cobb Angle Progression During the Adolescent Growth Spurt**
Paper #91
Ryan Will, MD; Ian A. Stokes, PhD; Xing Qiu, MD; Matthew Walker; James O. Sanders, MD
- 8:52 - 8:56 am **Post Operative Trunk Flexibility Loss is Modest but Incremental as the Fusion Progresses Distally**
Paper #92
Peter O. Newton, MD; Michelle C. Marks, PT, MA; Tracey P. Bastrom, MA; Randal R. Betz, MD; David H. Clements, III, MD; Baron S. Lonner, MD; Alvin H. Crawford, MD; Lynn Letko, MD; Harry L. Shufflebarger, MD; Michael F. O'Brien, MD
- 8:56 - 9:05 am Discussion
- 9:06 - 9:10 am **Postoperative Left Shoulder Elevation (LSE): An Unexpected Consequence of Surgical Correction of Lenke 1 Main Thoracic Curves**
Paper #93
Michael F. O'Brien, MD; Harry L. Shufflebarger, MD; Angel Macagno, MD; Michelle C. Marks, PT, MA; Tracey P. Bastrom, MA; Randal R. Betz, MD; Peter O. Newton, MD; Baron S. Lonner, MD; Alvin H. Crawford, MD; Suken A. Shah, MD; Harms Study Group
- 9:10 - 9:14 am **Surgeon Reliability for Assessing Shoulder Height in AIS Patients with Double Thoracic Curves**
Paper #94
Bryan Tompkins, MD; Daniel J. Sucato, MD, MS; Anna McClung, RN

43rd Annual Meeting & Course

Reaching New Heights in 2008!



Saturday, September 13, 2008 (continued)

- 9:14 - 9:18 am **Paper #95** **Impact of Idiopathic Scoliosis and its Surgical Treatment on Appearance in Children.**
Mohammad Diab, MD; Timothy Kuklo, MD, JD; James O. Sanders, MD; Lawrence G. Lenke, MD; Daniel J. Sucato, MD, MS
- 9:18 - 9:27 am Discussion
- 9:28 - 9:32 am Transfer of Presidency
- 9:32 - 10:07 am Awards Presentation
Russell A. Hibbs Awards
Louis A. Goldstein Award
John H. Moe Award
Walter P. Blount Humanitarian Award
Lifetime Achievement Award
- 10:07 - 10:27 am Break
- Session VIII**
Moderators: Behrooz A. Akbarnia, MD
Steven M. Mardjetko, MD, FAAP
- Complications**
- 10:28 - 10:32 am **Paper #96** **Is Hypotensive Anesthesia Effective at Reducing Blood Loss During Pediatric Spine Fusion?**
Richard E. Bowen, MD; Stephen Gardner, BS; Anthony A. Scaduto, MD; Michael J. Eagan, MD; Jason Beckstead, MD
- 10:32 - 10:36 am **Paper #97** **Can We Safely Reduce Blood Loss during Lumbar Pedicle Subtraction Osteotomy Procedures using Tranexamic Acid or Aprotinin? A Comparative Study with Controls**
Christine Baldus, RN, MHS; Keith H. Bridwell, MD; Gbolahan O. Okubadejo, MD; Lawrence G. Lenke, MD
- 10:36 - 10:40 am **Paper #98** **Epsilon Aminocaproic Acid (EACA) Reduces Postoperative Red-Cell Transfusion Requirements in Patients Undergoing Major Spinal Surgery: A Prospective, Randomized, Placebo-Controlled Trial in 182 Patients**
Sean Berenholtz, MD, MHS, FCCM; Khaled Kebaish, MD; Julius Pham, MD; Elizabeth Garrett-Mayer, PhD; David B. Cohen, MD; John Kostuik, MD; Peter J. Pronovost, MD, PhD, FCCM; Todd Dorman, MD
- 10:40 - 10:44 am **Paper #99** **Efficacy of Intraoperative Cell Salvage Machines in Pediatric Spinal Deformity Surgery**
Richard E. Bowen, MD; Stephen Gardner, BS; Anthony A. Scaduto, MD; Michael J. Eagan, MD; Jason Beckstead, MD
- 10:44 - 10:56 am Discussion
- 10:57 - 11:01 am **Paper #100** **Prevention of Surgical Site Infection Following Spinal Instrumentation Surgery: Is Postoperative Antimicrobial Prophylaxis Indispensable?**
Hiroshi Taneichi, MD; Kota Suda, MD; Tomomichi Kajino, MD; Hiroshi Moridaira, MD; Yutaka Nohara, MD
- 11:01 - 11:05 am **Paper #101** **Major Perioperative Neurologic Deficits in Pediatric and Adult Spine Surgery Patients: Incidence, Etiology and Outcomes over a Fourteen Year Period at One Institution**
Christopher R. Good, MD; Keith H. Bridwell, MD; Patrick T. O'Leary, MD; Mark Pichelmann, MD; Lawrence G. Lenke, MD; K. Daniel Riew, MD; Scott J. Luhmann, MD; Timothy Kuklo, MD, JD; Jacob M. Buchowski, MD, MS; Jennifer Flynn, BS
- 11:05 - 11:11 am Discussion
- Adult Spinal Deformity**
- 11:12 - 11:16 am **Paper #102** **What Radiographic Sagittal Parameters Correlate with Improved SRS Self-Image Scores Postoperatively in Patients with Sagittal Imbalance: An Analysis of 102 Lumbar Pedicle Subtraction Osteotomy Patients**
Yongjung J. Kim, MD; Keith H. Bridwell, MD; Lawrence G. Lenke, MD; Oheneba Boachie-Adjei, MD; Youngbae B. Kim, MD; Jacob M. Buchowski, MD, MS



43rd Annual Meeting & Course

Reaching New Heights in 2008!

Saturday, September 13, 2008 (continued)

- 11:16 - 11:20 am Paper #103 **Does Vertebral Level of Pedicle Subtraction Osteotomy Correlate with Degree of Spino-Pelvic Parameter Correction?**
Frank Schwab, MD; Virginie Lafage, PhD; Ashish Patel, MD; Robert A. Hart, MD; Douglas C. Burton, MD; Oheneba Boachie-Adjei, MD; Alexis P. Shelokov, MD; Richard A. Hostin, MD; Christopher I. Shaffrey, MD; Munish C. Gupta, MD; Behrooz A. Akbarnia, MD; R. Shay Bess, MD
- 11:20 - 11:24 am Paper #104 **Sagittal Spinopelvic Alignment Change after Lumbar Pedicle Subtraction Osteotomy: A Multicenter Analysis of 113 Patients with a Minimum 2 Years Follow-Up**
Yongjung J. Kim, MD; Keith H. Bridwell, MD; Lawrence G. Lenke, MD; Oheneba Boachie-Adjei, MD; Christopher L. Hamill, MD; Youngbae B. Kim, MD
- 11:24 - 11:33 am Discussion
- 11:34 - 11:38 am Paper #105 **Normative SRS-QOL Data to Allow Age and Gender Specific Comparisons to Adult Deformity Patients: An Analysis of 1346 Unaffected Subjects**
Christine Baldus, RN, MHS; Keith H. Bridwell, MD; John Harrast; Christopher I. Shaffrey, MD; Stephen L. Ondra, MD; Lawrence G. Lenke, MD; Frank Schwab, MD; Steven M. Mardjetko, MD, FAAP; Steven D. Glassman, MD; Charles C. Edwards, II, MD; Christopher J. DeWald, MD; Thomas G. Lowe, MD; William C. Horton, III, MD; David W. Polly, Jr., MD
- 11:38 - 11:42 am Paper #106 **Do One Year Outcomes Predict Two Year Outcomes in Adult Deformity Surgery?**
Steven D. Glassman, MD; Frank Schwab, MD; Keith H. Bridwell, MD; Christopher I. Shaffrey, MD; William C. Horton, III, MD; Serena S. Hu, MD
- 11:42 - 11:46 am Paper #107 **Operative vs. Non-Operative Outcomes: Adult Scoliosis Patients Age over 65 at Two Year Follow-Up**
Gang Li, MD; Eric Fu, BA; Peter G. Passias, MD; Guoan Li, PhD; Kirkham Wood, MD
- 11:46 - 11:55 am Discussion
- 11:56 am - 12:00 pm Paper #108 **The Changing Practice of Adult Spinal Deformity Surgery: An Emerging New Paradigm for Surgical Approach; Staged Procedures and Fusion Levels**
Charles C. Edwards, II, MD; Keith H. Bridwell, MD; Michael Shainline, MS; Sigurd H. Berven, MD; Stephen L. Ondra, MD; William C. Horton, III, MD; Steven D. Glassman, MD; Christopher I. Shaffrey, MD; Christopher L. Hamill, MD; Frank Schwab, MD
- 12:00 - 12:04 pm Paper #109 **Can Posterior Only Surgery Replace Combined Anterior (Thoracotomy/Thoracoabdominal)/Posterior Approaches for Adult Scoliosis?**
Christopher R. Good, MD; Lawrence G. Lenke, MD; Patrick T. O'Leary, MD; Mark Pichelmann, MD; Kathryn A. Keeler, MD; Keith H. Bridwell, MD; Christine Baldus, RN, MHS; Linda Koester
- 12:04 - 12:08 pm Paper #110 **Does Correction of Preoperative Coronal Imbalance Make a Difference in Outcomes of Adult Deformity Patients?**
Michael D. Daubs, MD; Lawrence G. Lenke, MD; Yongjung J. Kim, MD; Gene Cheh, MD; Keith H. Bridwell, MD
- 12:08 - 12:17 pm Discussion

43rd Annual Meeting & Course

Reaching New Heights in 2008!



Saturday, September 13, 2008 (continued)

- 12:18 - 12:22 pm
Paper #111 **Risk Factors and Outcomes for Catastrophic Failures at the Top of Long Pedicle Screw Constructs (FPSC): A Matched Cohort Analysis Performed at a Single Center**
Patrick T. O'Leary, MD; Keith H. Bridwell, MD; Christopher R. Good, MD; Lawrence G. Lenke, MD; Jacob M. Buchowski, MD, MS; Yongjung J. Kim, MD; Jennifer Flynn, BS
- 12:22 - 12:26 pm
Paper #112 **Pelvic Tilt Shows Correlation with Health Related Quality of Life Measures and Truncal Inclination**
Ashish Patel, MD; Frank Schwab, MD; Virginie Lafage, MD; Nicola Hawkinson, BSN, MA, NP; Jean-Pierre Farcy, MD
- 12:26 - 12:32 pm Discussion
- 12:33 - 12:37 pm
Paper #113 **Low Back Pain in Patients Treated Surgically for Scoliosis – Longer than 15 Year Follow-Up**
Kazushi Takayama, MD; Hiroaki Nakamura, MD; Hidetomi Terai, MD, PhD; Tadao Tsujio, MD; Akira Matsumura, MD, PhD; Akinobu Suzuki, MD, PhD; Takafumi Maeno, MD; Sho Dohzono; Hideki Matsuda, MD; Prof. Kunio Takaoka
- 12:37 - 12:41 pm
Paper #114 **Predicting Surgical Outcome by Change in Critical Parameters of Thoracolumbar/Lumbar Spinal Deformity in Adults**
Frank Schwab, MD; Virginie Lafage, MD; Ashish Patel, MD; Jean-Pierre Farcy, MD; Keith H. Bridwell, MD; Steven D. Glassman, MD; Michael Shainline, MS
- 12:41 - 12:47 pm Discussion
- 12:47 pm Meeting Adjourns

