



Texas Scottish Rite Hospital for Children
17th International Meeting on Advanced Spine Techniques
Toronto, Canada
July 21 – 24, 2010

Several Texas Scottish Rite Hospital for Children orthopedic surgeons and staff members attended the 17th International Meeting on Advanced Spine Techniques (IMAST) in Toronto, Canada. TSRHC staff shared their latest findings in spine research and collaborated with international experts on ways to improve the lives of children worldwide.

TSRHC's Drs. Daniel Sucato and Steve Richards are both members of the IMAST Committee and presented abstracts and expert viewpoints in the educational breakouts, as well as moderated at the international meeting. TSRHC's Dr. Charles Johnston, Dr. Hong "Johnny" Zhang and scoliosis research nurse Anna McClung also attended and presented at the meeting. Dr. Sucato was an author on 17 abstracts, Dr. Richards on nine, Dr. Johnston on six, Anna McClung on three and Dr. Zhang on one.

IMAST gathers leading spine surgeons, innovative research and the most advanced spine technologies for all areas of spine, most spinal conditions and a variety of treatment techniques. The IMAST program included didactic presentations, panel discussions, papers and posters on current research, roundtable case discussions, Instructional Course Lectures, Hands-On Demonstrations, and new this year, Hands-On Workshops, all lead by an international and multidisciplinary faculty. IMAST is jointly-sponsored by the Scoliosis Research Society and Medical Education Resources.

TSRHC Papers Presented:

Paper # 17: Revision Surgery for AIS Results in SRS Scores Comparable to Primary Surgery Patients

Daniel J. Sucato, MD, MS; B. Stephens Richards, MD; Lawrence G. Lenke, MD; Charles E. Johnston, MD; James O. Sanders, MD; John B. Emans, MD; Mark A. Erickson, MD; Leah Y. Carreon, MD, MSc; Spinal Deformity Study Group

Paper # 50: Neurocentral Synchronosis Screws to Create and Correct Experimental Deformity

Hong Zhang, MD; Daniel J. Sucato, MD, MS

Paper # 55: CT Lung Volume Studies are Still Necessary to Document Volume Changes in Early-Onset Scoliosis (EOS)

Anna McClung, RN; Charles E. Johnston, MD; Salah Fallatah, MD, FRCS(C)

Paper # 56: Increased Rates of Anchor Failure can be Predicted by an Early Onset Scoliosis Severity Score

Sumeet Garg, MD; Anna McClung, RN; Charles E. Johnston, MD

Paper # 86: Correction of Moderate (<70-degree) Lenke 1A and 2A Curve Patterns: Comparison of Hook, Hybrid and All-Pedicle Screw Systems at Two-Year Follow-Up

Scott J. Luhmann, MD; Lawrence G. Lenke, MD; Mark A. Erickson, MD; Keith H. Bridwell, MD; B. Stephens Richards, MD

Paper # 87: Radiographic Assessment of Shoulder Position in 619 AIS Patients: Can T1 Tilt be Used as an Intraoperative Proxy to Determine Postoperative Shoulder Balance?

Scott J. Luhmann, MD; B. Stephens Richards, MD; Charles E. Johnston, MD; Daniel J. Sucato, MD, MS; Lori A. Karol, MD

Paper # 89: Selective Thoracic Fusion in Lenke 1C Curves: Prevalence and Criteria

Charles H. Crawford, MD; Lawrence G. Lenke, MD; Daniel J. Sucato, MD, MS; B. Stephens Richards, MD; John B. Emans, MD; Michael G. Vitale, MD, MPH; Mark A. Erickson, MD; James O. Sanders, MD; Keith H. Bridwell, MD

Paper # 90: Cross-Ethnicity Comparisons of the Scoliosis Research Society Outcomes Instrument in Adolescent Idiopathic Scoliosis

Lee J. Morse, MD; Noriaki Kawakami, MD; Lawrence G. Lenke, MD; Daniel J. Sucato, MD, MS; James O. Sanders, MD; Mohammad Diab, MD

Paper # 96: Factors Predicting Coronal Decompensation of Lenke 1 Curves Following Selective Fusion

Michael G. Vitale, MD, MPH; Daniel J. Miller, BS; Daniel J. Sucato, MD, MS; John B. Emans, MD; Mark A. Erickson, MD; James O. Sanders, MD; Lawrence G. Lenke, MD; B. Stephens Richards, MD

Paper # 103: Perioperative Neurologic Events from a Multicenter Consecutive Series of Pediatric Vertebral Column Resection: Nature, Frequency and Outcomes

Suken A. Shah, MD; Daniel J. Sucato, MD, MS; Peter O. Newton, MD; Harry L. Shufflebarger, MD; John B. Emans, MD; Paul D. Sponseller, MD; Geraldine Neiss, PhD; Petya Yorgova; Lawrence G. Lenke, MD

Paper # 116: Dual Motor Monitoring Using Transcranial Motor Evoked Potentials and Neurogenic MEP's During Spinal Deformity Surgery May Offer the Best of Both for Challenging Deformity Surgery

Daniel J. Sucato, MD, MS; Jessica Wingfield, BA; Anna McClung, RN; Steven Sparagana, MD; Patricia Rampy, MS

Paper # 117: Prompt Response to Critical Spinal Cord Monitoring Changes During Vertebral Column Resection Results in a Low Incidence of Permanent Neurologic Deficit

Daniel J. Sucato, MD, MS; Suken A. Shah, MD; Lawrence G. Lenke, MD; Peter O. Newton, MD; John B. Emans, MD; Harry L. Shufflebarger, MD; Paul D. Sponseller, MD