

**Lawrence G. Lenke, M.D.**

**Professor of Orthopedic Surgery (in Neurological Surgery) with Tenure**

**Chief of Spinal Deformity Surgery**

**Columbia University Irving Medical Center**

**Vagelos College of Physicians and Surgeons**

**Surgeon-in-Chief**

**New York Presbyterian Och Spine Hospital/Allen**

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# Curriculum Vitae

##### Lawrence G. Lenke, M.D.

Surgeon-in-Chief

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New York Presbyterian/The Allen Hospital

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New York, NY 10034

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**www.spinal-deformity-surgeon.com**

## I. DEMOGRAPHICS

**Place of Birth**

Harvey, IL

**Marital Status**

Married: Elizabeth Lenke (M.H.A. Washington University-St. Louis; MSW Columbia University)

Children: Lauren, Bradley & Erin

**Education**

Medical School Northwestern University Medical School

Chicago, IL

M.D., 1986

Alpha Omega Alpha

Undergraduate University of Notre Dame

Notre Dame, IN

B.S., Pre-Professional Studies, 1982

Summa cum Laude

Phi Beta Kappa

## Graduate Clinical Experience

Internship Washington University School of Medicine

St. Louis, MO

General Surgery

July 1986 – June 1987

Residency Washington University School of Medicine

St. Louis, MO

Orthopaedic Surgery

July 1987 – June 1991

Shriners Hospital for Children

St. Louis, MO

Pediatric Orthopaedics

July 1987 – June 1991

Fellowship Washington University School of Medicine

St. Louis, MO

Pediatric & Adult Spinal Surgery

July 1991 – June 1992

Licensure

*Diplomat of National Board of Medical Examiners*

MO MD R5P11

NY MD R5P11

### Board Certification

*American Board of Orthopaedic Surgery*

2014 Recertified

2004 Recertified

1994 Certified

### Academic Appointments

July 1, 2022-Present

Professor of Orthopedic Surgery (in Neurological Surgery) with Tenure

Chief of Spinal Deformity Surgery

Co-Director, Adult and Pediatric Comprehensive Spine Surgery Fellowship

Columbia University Medical Center

July 1, 2015 –2022

Professor of Orthopedic Surgery (in Neurological Surgery) with Tenure

Chief of Spinal Surgery

Chief of Spinal Deformity Surgery

Co-Director, Adult and Pediatric Comprehensive Spine Surgery Fellowship

Columbia University Medical Center

August 2012 – June 30, 2015

Director, Advanced Spinal Deformity Fellowship

Department of Orthopaedic Surgery

Washington University-St. Louis

January 2012 – June 30, 2015

Chief, Spinal Surgery

Department of Orthopaedic Surgery

Washington University-St. Louis

2006 – June 30, 2015

Professor, Neurological Surgery

Department of Neurologic Surgery

Washington University-St. Louis

August 2005 – August 2006

Co-Director, Orthopaedic Surgery Residency Program

Department of Orthopaedic Surgery

Washington University-St. Louis

January 2004 – June 30, 2015

Co-Director, Spinal Deformity Service

Department of Orthopaedic Surgery

Washington University-St. Louis

August 2001 – June 30, 2015

Jerome J. Gilden Distinguished Professor of Orthopaedic Surgery

Department of Orthopaedic Surgery

Washington University-St. Louis

January 2001 – August 2001

Professor, Orthopaedic Surgery

Department of Orthopaedic Surgery

Washington University-St. Louis

September 1999 – August 2005

Director, Orthopaedic Surgery Residency Program

Department of Orthopaedic Surgery

Washington University-St. Louis

March 1998 – January 2001

Associate Professor (tenure)

Department of Orthopaedic Surgery

Washington University-St. Louis

August 1993 – February 2012

Chief, Spinal Surgery

Shriners Hospital for Children – St. Louis Unit

July 1992 – July 1997

Assistant Professor

Department of Orthopaedic Surgery

Washington University-St. Louis

July 1991 – June 1992

Instructor

Department of Orthopaedic Surgery

Washington University-St. Louis

### Hospital Appointments

Surgeon-in-Chief

Daniel and Jane Och Spine Hospital

New York-Presbyterian/The Allen Hospital

NewYork-Presbyterian Morgan Stanley Children's Hospital

### Administrative Duties/Special Programs

Fellowship Program

Visiting Surgeon Program

Executive member: NYP Och Spine

### Societal Memberships

American Academy of Orthopaedic Surgeons

American Orthopaedic Association

American Spinal Injury Association

AOSpine International

Missouri State Orthopaedic Association

North American Spine Society

Orthopaedic Research Society

Pediatric Orthopaedic Society of North America

Scoliosis Research Society

St. Louis Guild of the Catholic Medical Association

St. Louis Spine Society

The Scoliosis Association

Spinal Deformity Club of New York

### Societal Committees

*American Academy of Orthopaedic Surgeons*

2010-2013 Board of Specialty Societies, Representative

2014-Present Academy Member Volunteer

#### American Orthopaedic Association

2001-2004 ABC Exchange Fellowship Committee

2000-2009 Publications Committee

#### AOSpine International

2012-2015 Knowledge Forum Deformity Steering Committee, Chairman

2016- Present Knowledge Forum Deformity Steering Committee, Member

#### Group International Cotrel-Dubousset

2000-2002 Board Member

#### National Spine Network

1997-2004 Executive Committee

1997-1999 Quality Assurance Committee, Chair

1996-2002 Membership Committee

1995-2004 Attending Spine Surgeon

#### North American Spine Society

2011-2012 Education Council Committee

2009-2011 Spine Summit Steering Committee, SRS Liaison

2019-Present Co-Chair Spinal Deformity Section

#### Orthopedic Research and Eduction Foundation

2015-2021 Board of Directors

#### Scolious Research Society

2023 Noininating Committee

2021 Nominating Committee

2018- Present Research Planning Committee

2018-2019 Nominating Committee

2016-2017 Nominating Committee

2012-2014 CME Committee

2012-2014 Development Committee

2013-2014 3D Scoliosis Task Force

2013-2014 Education Committee, Cadaver Course Liaison

2013-2014 Governance Council, Globalization

2012-2014 Globalization Committee, Chair

2012-2013 Long Range Planning Committee, Past Chair

2011-2012 3D Scoliosis Committee, Board Liaison

2011-2012 Board of Directors, PPI

2011-2012 CME Committee, PPI

2011-2012 Corporate Relations Committee, Chair

2011-2012 Endowment Committee, PPI

2011-2012 E-Text Committee, Board Liaison

2011-2012 Finance Committee, PPI

2011-2012 Finance Council, Long Range Planning Liaison

2011-2012 Globalization Committee, Chair

2011-2012 Governance Council, Industry Relations Liaison

2011-2012 IMAST Committee, Board Liaison

2011-2012 Industry Relations Committee, Chair

2011-2012 Long Range Planning Committee, Chair

2011-2012 Long Range Planning Committee, Board Liaison

2011-2012 Multi-Society Spine Registry Task Force, Chair

2011-2012 Nominating Committee, Chair

2011-2012 Development Committee, PPI

2010-2012 Adult Deformity Classification Task Force

2010-2012 Directed Research Task Force

2010-2012 Journal Task Force, Chair

2010-2012 Scoliosis Screening Task Force

2010-2011 Board of Directors, President

2010-2011 CME Committee, Past Chair

2010-2011 Industry Relations Committee, Chair-Elect

2010-2011 Long Range Planning Committee, Chair-Elect

2010-2011 Multi-Society Spine Registry Task Force, Chair-Elect

2010-2011 Nominating Committee, Chair-Elect

2009-2014 E-Text Committee

2009-2010 CME Committee, Chair

2009-2013 Board of Specialty Societies, Representative (formerly COMSS), Health Policy

2009-2012 3D Scoliosis Committee

2009-2010 Education Council, CME Representative

2009-2010 President Elect

2009-2010 Program Committee, IMAST Past Chair

2009-2010 Program Committee, Program Reviewer

2009-2010 Spine Deformity Curriculum Committee, Board Liaison

2008-2014 Executive Committee

2008-2013 Long Range Planning Committee

2008-2012 Industry Relations Committee

2008-2012 Advocacy & Public Policy Committee, Rapid Response Team

2008-2011 IMAST Committee, Board Liaison, Past Chair

2008-2009 Continuing Medical Education Committee, Chair-Elect

2008-2009 Vice-President

2007-2008 Morbidity & Mortality Committee

2006-2009 Program Committee, IMAST Chair

2006-2008 Study Group Task Force, Chair

2006-2013 Board of Directors

2006-2008 Long Range Planning Committee

2004-2010 Global Outreach, Advocacy & Finance Committee

2002-2005 Nominating Committee

2001-2012 Finance Committee

2001-2002 Ad Hoc Committee - International Journal of Spinal Deformity Development, Chair

2001-2002 Outcomes Research Planning Committee, Chair

2000-2009 International Meeting on Advanced Spine Techniques, Chair

2000-2001 Nominating Committee

1999-2001 Spinal Deformities Journal Committee Task Force, Chair

1998-2008 3D Spinal Classification Committee, Chair

1998-2000 Core Curriculum for Spinal Deformity Task Force, Section Leader

1996-1998 Prevalence and Natural History Committee

#### Spinal Deformity Education Group

2002-2003 Board Member

2002-2003 Second Vice Chair

#### Southern Orthopaedic Association

1996-2010 Missouri Councilor

1996-2001 Young Physicians Subcommittee

### Study Groups

2017- Present International Spine Study Group

2015- Present Fox PSDS (Pediatric Spine Deformity Surgery)

2014-Present Setting Scoliosis Straight, Harms Study Group, DePuy Synthes Spine

2014-Present Harms Study Group

2011-Present AOKnowledge Forum- Deformity

2011-2015 Fox Prospective Pediatric Vertebral Column Resection (VCR) Trial, Chair

2010-2011 Intraoperative Neurophysiologic Monitoring (IONM) Workgroup

2009-Present Fox Retrospective Pediatric Vertebral Column Resection (VCR) Trial, Chair

2000-2008 Spinal Deformity Study Group, Medtronic, Chair

2000-2001 Young Lions Degenerative Scoliosis Spinal Surgery Study Group, Chair

1999-2000 International Biomechanical Spine Study Group

1996-1997 BAK Fusion Cage Study Group for PLIF Applications, DePuy AcroMed Corporation

1993-2000 Harms Anterior vs. Posterior Thoracic Scoliosis Instrumentation Study Group

**Board of Directors**

2017- Present Setting Scoliosis Straight (SSS)

2015- 2021 Orthopaedic Research and Education Foundation (OREF)

2014- Present Global Spine Outreach (GSO)

2023-Present NSHF (National Spine Health Foundation)

## H-INDEX & Major Contributions to Spine and Spinal Deformity Surgery

**H-Index: 103 (February 2022)**

1. Lenke Classification System of Adolescent Idiopathic Scoliosis (JBJS 2001)
2. Development, Promotion and Publication of the “Ratio Criteria” for performing Selective Thoracic Fusion (STF) of AIS 1C, 2C, 3C and 4C curves
3. Development of “Lenke Pedicle Probe” for Accessing Pedicle channel for screw placement
4. Development and Teaching of “Free Hand” technique of Pedicle Screw Placement without any Flouroscopic, Radiographic and/or Navigational assistance
5. One of the Initial US Surgeons Performing, Promoting, and Publishing on the Posterior-Only Treatment of all Pediatric and Adult Spinal Deformities
6. Deformity Angular Ratio (DAR)- as a representation of the angularity of Spinal Deformities on both X-rays and CT Scans
7. Spinal Cord Shape Classification System (SCSCS) on axial MRI imaging as a Prognosticator of Neurologic risks during Spinal Deformity Surgery
8. Posterior Sacral Vertical Line (PSVL)- for selection of Lowest Instrumented Vertebra in Kyphosis Surgery
9. Posterior Cranial Vertical Line (PCVL)- for assessing global Sagittal alignment and also risk of Proximal Juncitonal Kyphosis
10. Development and initial publication on the use of a Kickstand Screw-Rod (KSR) construct to correct Coronal Malalignment
11. President- Scoliosis Research Society (SRS) 2010-11, as one of the youngest Presidents ever selected (age 50)
12. Chairman and Initatior of Task Force for the Development of “Spine Deformity” the official Journal of the SRS, and inaugural Deputy Editor
13. Founder and Chairman of the International Spinal Deformity Symposium (ISDS) 2015- Present
14. Founder and Co-Chair of Skull to Sacrum Medtronic’s Premier Spinal Deformity Mtg- 2015- Present
15. Founder and Initial Chair of the Fox Pediatric VCR Study Group- 2011
16. Inaugural Chair of the AO Spine Deformity Knowledge Forum 2011-2014
17. Development and Publication of the Adult Idiopathic Scoliosis (AdIS) Classification System as an adaptation of the AIS Classification System
18. Recognized National and International Leader in Performing 3-Column Osteotomies (3-CO- PSO’s and VCR’s) of complex spinal deformities in Pediatric and Adult Spinal Deformity Surgery
19. Co-PI of the Scoli-Risk Prospective Clinical Trial assessing Neurologic Outcomes of Complex Adult Spinal Deformity Surgery and Highest Enrollment out of over 30 Surgeon participants
20. Co-PI of the ISSG Complex Adult Deformity Surgery (CADS) Prospective Clinical Trial and Highest Patient Enrollment of over 20 Surgeon participants.
21. Posterior Column Osteotomy (PCO) designation as a definition of a posterior based osteotomy involving removal of the posterior ligaments and joints
22. Creation and Publication of a novel pedicle classification system A (large cancellous channel), B (small cancellous channel), C (cortical channel), D (no channel)
23. “Sandwich PSO” -Developed novel surgical Technique of extended PSO with TLIF of disc immediately below
24. Cranial-Hip (Cr-Hip) axis for assessment of Global Sagittal Alignment and correlation to Outcomes of Adult Deformity Surgery – development and publication
25. Development, Promotion and Publications of the “Free Hand” Technique of Iliac and S2AI Screw placement
26. Touched Vertbra (TV) rule for selecting the LIV in AIS an other pediatric and adult scoliosis deformities- development and publication
27. Initial Use, Promotion and Publication of Multi-Rod constructs in the use of 3-CO and other complex Spinal Deformity Pathology
28. Inagural Co-Chair Spinal Deformity Section of North American Spine Society (NASS)
29. Inagural Co-Chair of Masters in Spinal Deformity Surgery Meeting – 2022-Present
30. Iangural Co-Chair of Cedars-Och Summer Spine Symposium- 2023
31. Harrington Guest Lecture at Scoliosis Research Society Annual Meeting, Stockholm, Sweden, September 2022 “Optimizing Safety in Pediatric and Adult Spinal Deformity Surgery”

## HONORS/AWARDS/SCIENTIFIC RECOGNITION/TRAVELLING FELLOWSHIPS

2023 **Super Doctors** - New York Super Doctors 2023. May 14, 2023 edition of The New York Times Magazine

2023 **Castle Connolly Top Doctors-** New York

2022 **Castle Connolly** **Top Doctors** - New York

2022 **Harrington Guest Lecture “Optimizing Safety in Pediatric and Adult Spinal Deformity Surgery”**

Annual Meeting of The Scoliosis Research Society, Stockholm Sweden, September 15th, 2022

2022 **Scoliosis Research Society Walter P. Blount Humanitarian Award** Presented at the 57th Annual Meeting

Stockholm Sweden, September 14, 2022

2022 **Super Doctors** - New York Super Doctors 2022. January 26, 2022 edition of The New York Times Magazine

2021 **Best Paper Award**: Salvage Treatment of Growth-Friendly Surgery in the Treatment of Early Onsent Spinal Deformity; International Congress on Early Onset Scoliosis (ICEOS) 2021. Salt Lake City, UT.

2021 **Russel A. Hibbs Award for Best Clinical Research:** *Adverse Events in Multilevel Surgery in Elderly Patients with Spinal Deformity: Report of the Prospective Evaluation of Elderly Deformity Surgery (PEEDS); Scoliosis Research Society Annual Mtg; St. Louis, MO September 2021*

2021 **Super Doctors** - New York Super Doctors 2021. May 9, 2021 edition of The New York Times Magazine

2020 **Super Doctors** - New York Super Doctors 2020. May 10, 2020 edition of The New York Times Magazine

2019 **Physician Partner of the Year** - The Daniel and Jane Och Spine Hospital, New York, NY

2019 **Super Doctors** - New York Super Doctors 2019. May 13, 2019 edition of The New York Times Magazine

2018 **Super Doctors** - New York Super Doctors 2018. May 13, 2018 edition of The New York Times Magazine

2018 **Best Clinical Paper**: *The Amount of Curve Correction is More Important than Upper Instrumented Vertebra Selection for Ensuring Postoperative Shoulder Balance in Lenke Type 1 Adolescent Idiopathic Scoliosis.* 25th Whitecloud Award International Meeting on Advanced Spine Techniques (IMAST) 2018. Los Angeles, California.

2017 **Best Clinical Paper**: *Optimal Selection of the LIV in Lenke 1 and 2 AIS.*AOSpineGlobal Spine Congress 2017. Milan, Italy

2016 **Russell A. Hibbs Clinical Award, Best Clinical Presentation Runner-up:** Neurologic Complications Following Complex Adult Spinal Deformity Surgery: 2 Year Follow-up of the Scoli-Risk 1 Prospective, Multicenter, International Study.51st SRS Annual Meeting & Course Prague, Czech Republic

2016 **23rd IMAST Thomas E. Whitecloud Award for Best Clinical Paper:** *Incidence of Proximal Junctional Kyphosis in Patients with Adult Spinal Deformity Fused to the Pelvis: A ScoliRisk-1 Sub-analysis*

2016 **AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves** : Meritorious Service Award- Orthopaedic Surgery

2015 **New York Super Doctors** 2016 list, *The New York Times*, May 15, 2016 issue

2015 **Best Clinical Paper**:*Pre-operative Predictors of Neurological Motor Decline in Complex Adult Spinal Deformity Surgery: Results of Prospective, International, Multicenter Scoli-RISK-1 Study in 271 Patients.* 22nd International Meeting on Advance Spine Techniques, Kuala Lumpur, Malaysia

2015 **Best Clinical Paper**: *Risk Factors for Non-Neurological Complications in Adult Spinal Deformity Surgery: An International Large-Scale, Prospective Multi-Center Study.*AOSpine Global Spine Annual Meeting, Buenos Aires, Argentina

2015 **Achievement Award for Volunteerism** American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada

2013 The Top 28 Spine Surgeons in North America, *Orthopedics This Week* Volume 9, Issue 20

2013 Top 10% Rank: Patient Survey for Clinicians, Washington University Physicians. St. Louis, MO

2013 **Leon Wiltse Award for Excellence in Leadership and/or Clinical Research in Spine Care**, North American Spine Society 28th Annual Meeting, New Orleans, LA

2013 **Russell A. Hibbs Clinical Award, Best Clinical Paper**: *Prospective, Multi-Center Assessment of Acute Neurologic Complications Following Complex Adult Spinal Deformity Surgery: The Scoli-Risk-1 Trial*. Scoliosis Research Society 48th Annual Meeting, Lyon, France

2012 **John H. Moe Award, Best Basic Science Paper**: *The Ventral Lamina and Superior Facet Rule: A Morphometric Analysis for Ideal Thoracic Pedicle Screw Start Point*. Scoliosis Research Society 47th Annual Meeting, Chicago, IL

2012 **President’s Resident Paper Award**: *The Ventral Lamina and Superior Facet Rule: A Morphometric Analysis for Ideal Thoracic Pedicle Screw Start Point*. Southern Orthopaedic Association 29th Annual Conference, White Sulpher Springs, WV. $1,500.00 Award

2012 **Resident Paper Award**: *The Effect of Pedicle Screw Hubbing on Pullout Strength in the Thoracic Spine*. Western Orthopaedic Association 76th Annual Meeting, Portland, OR. $1,000.00 Award

2011 **Resident/Fellow Travel Grant Award, Outstanding Resident Paper**: *The Ventral Lamina and Superior Facet Rule: The Key to Accurate Placement for Thoracic Pedicle Screws*. Eastern Orthopaedic Association 42nd Annual Meeting, Williamsburg, VA

2011 **Whitecloud Award, Best Clinical Science Paper**: *Preoperative Vitamin D Status in Adults Undergoing Spinal Fusion Surgery*. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark

2011 **Eastern Orthopaedic Association’s Travel Grant**: *The Ventral Lamina and Superior Facet Rule: The Key to Accurate Placement for Thoracic Pedicle Screws*. Eastern Orthopaedic Association 42nd Annual Meeting, Williamsburg, VA

2011 **Heartworks St. Louis**, **Hero with a Heart** Honoree, National Marfan Association, St. Louis, MO

2011 **Eduardo Luque Honorary Award**, Mexican Association of Spine Surgeons, Degenerative and Deformity Spine Disease 2010 Congressional Meeting, Mexico City, Mexico

2008-2010 *Guide to America’s Top Surgeons - Consumer Guide e-book*, Consumer’s Research Council of America, Washington, DC

2008-2010 *Guide to America’s Top Orthopedists - Consumer Guide e-book*, Consumer’s Research Council of America, Washington, DC

2008 **Louis A. Goldstein Award, Best Clinical Presentation**: *Risk Factors for Critical Intraoperative Neuromonitoring Changes during AIS Surgery*. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT

2007 **Russell A. Hibbs Award, Best Clinical Science Paper**: *Posterior Vertebral Column Resection (VCR) for Severe Pediatric & Adult Spinal Deformity: Indications, Results & Complications of 43 Consecutive Cases.* Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland

2005-2015 *America’s Top Doctors*, Castle Connolly Medical Ltd.

2005 **Louis A. Goldstein Award, Best Clinical Poster**: *Decompression Alone vs. Decompression and Limited Fusion for the Treatment of Degenerative Lumbar Scoliosis*. Scoliosis Research Society 40th Annual Meeting, Miami, FL

2003 **1st Place**, **Outstanding Resident/Fellow Paper Award**: *Thoracic Anterior Spinal Fusion and Structures at Risk*. Eastern Orthopaedic Association/Southern Orthopaedic Association, Dublin, Ireland

2000 **Regional Zimmer Travel Award**. American Orthopaedic Association 113th Annual Meeting, Hot Springs, VA

2000 **Best Clinical Research Paper, Annual Residents Conference**. American Orthopaedic Association, St. Louis, MO

2000 Life member of the National *Who’s Who* Registry

2000-2015 *Best Doctors in America* – *St. Louis Magazine*

1999 **Outstanding Paper Award**: *Can Nerve Root Injections Obviate the Need for Operative Treatment*? North American Spine Society 14th Annual Meeting, Chicago, IL

1999 **American, British, Canadian (ABC) Exchange Fellowship Program Award participant**. American Orthopaedic Association

1998 *Best Doctors in America* – 4th listing, Woodward/White, Inc.

1998 **Lee T. Ford** **Academic Achievement 2nd Annual Award**, Washington University Medical Center, St. Louis, MO

1997 **Russell A. Hibbs Award, 1st Runner-up, Best Clinical Research Paper**: *A Prospective Evaluation of Pulmonary Function in Adolescent Idiopathic Scoliosis Relative to the Surgical Approach for Spinal Fusion*. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO

1995 **John H. Moe Award, Best Scientific Poster**: *Can We Lordose the Spine with Zielke Instrumentation Anteriorly*? Scoliosis Research Society 30th Annual Meeting, Asheville, NC

1995 **European Traveling Fellowship Award participant**. Scoliosis Research Society 30th Annual Meeting, Asheville, NC

1994 **Spinal Surgery Paper Award for Fellows and Residents**: TGF-Beta treatment of spinal cord monitoring. Group International Cotrel-Dubousset-USA 11th International Congress, Arachon, France

1993 **Research Grant Winner**: *Astrocyte Response and Transforming Growth Factor-β Localization in Acute Spinal Cord Injury*. North American Spine Society 8th Annual Meeting, San Diego, CA

1992 **Best Resident/Fellow Paper**: *The Surgical Treatment of Lumbar Hemivertebra*. Missouri State Orthopaedic Association Annual Meeting, Lake of the Ozarks, MO

1991 **Russell A. Hibbs Award, Best Clinical Presentation**: *Preventing Decompensation in King Type II and III Curves Treated with Cotrel-Dubousset Instrumentation (CDI). 24 to 64 month follow-up.* Scoliosis Research Society 25th Annual Meeting, Minneapolis, MN

### Travelling Fellowships

1. Scoliosis Research Society European Traveling Fellowship, Scoliosis Research Society (SRS), Cappagh Orthopaedic Hospital, Dublin, Ireland, May 8, 1995.

Short segment pedicle screw constructs for thoraco-lumbar fractures

1. Scoliosis Research Society European Traveling Fellowship, SRS, Our Lady’s Hospital for Sick Children, Crumlin, Ireland, May 9, 1995.

Short segment pedicle screw constructs for thoracal-lumbar fractures

1. Scoliosis Research Society European Traveling Fellowship, SRS, Nuffield Orthopaedic Centre, Oxford, England, May 11, 1995.
   * EMG and pedicle screw placement
   * Spinal investigations in patients with adolescent idiopathic scoliosis with large curves

Etiology and correction of transition syndrome following spinal instrumentation

1. Scoliosis Research Society European Traveling Fellowship, SRS, University of Malmö Hospital, Malmö, Sweden, May 15-16, 1995.
   * Etiology and correction of transition syndrome following spinal instrumentation

CD for AIS, 5-10 year follow-up

1. Scoliosis Research Society European Traveling Fellowship, SRS, Langensteinbach, Germany, May 19, 1995.
   * Etiology and correction of transition syndrome following spinal instrumentation

CD for AIS, 5-10 year follow-up

1. Scoliosis Research Society European Traveling Fellowship, SRS, University of Verona Hospital, Verona, Italy, May 22, 1995.
   * CD for AIS, 5-10 year follow-up

Sagittal spinal alignment: segmental, regional, and global perspectives

1. Scoliosis Research Society European Traveling Fellowship, SRS, Trousseau Hospital, Paris, France, May 24, 1995.
   * CD for AIS, 5-10 year follow-up
   * Sagittal spinal alignment: segmental, regional, and global perspectives

Etiology and correction of transition syndrome following spinal instrumentation

1. Scoliosis Research Society European Traveling Fellowship, SRS, St. Vincent DePaul Hospital, Paris, France, May 25, 1995.
   * CD for AIS, 5-10 year follow-up
   * Sagittal spinal alignment: segmental, regional, and global perspectives

Etiology and correction of transition syndrome following spinal instrumentation

1. American, British, Canadian (ABC) Exchange Fellowship Program, American Orthopaedic Association (AOA), Stanmore Hospital, University of London, April 1999.
   * Intraoperative and perioperative halo traction in severe pediatric spinal deformity

Comparison of anterior vs. posterior instrumentation for correction of thoracic adolescent idiopathic scoliosis: Analysis by an objective radiographic scoring system

1. American, British, Canadian (ABC) Exchange Fellowship Program, AOA, University of Bristol, Bristol, United Kingdom, April 1999.

Algorithm approach to adolescent idiopathic scoliosis

1. American, British, Canadian (ABC) Exchange Fellowship Program, AOA, University of Manchester, Manchester, United Kingdom, April 1999.

Anterior single solid rod instrumentation for adolescent idiopathic scoliosis

1. American, British, Canadian (ABC) Exchange Fellowship Program, AOA, University of Nottingham, Nottingham, United Kingdom, April 1999.

Anterior single solid rod instrumentation for adolescent idiopathic scoliosis

1. American, British, Canadian (ABC) Exchange Fellowship Program, AOA, University of Perth, Perth, Australia, May 1999.

Long fusions to the sacrum

1. American, British, Canadian (ABC) Exchange Fellowship Program, American Orthopaedic Association, University of Melbourne, Melbourne, Australia, May 1999.

Algorithm approach to adolescent idiopathic scoliosis

1. American, British, Canadian (ABC) Exchange Fellowship Program, AOA, University of Christchurch, Christchurch, New Zealand, May 1999.

Anterior single solid rod instrumentation for adolescent idiopathic scoliosisAmerican, British, Canadian (ABC) Exchange Fellowship Program, AOA, Auckland, New Zealand, May 1999.

Radiographic evaluation of anterior titanium mesh (Harms) cages

## III. GRANT/RESEARCH SUPPORT

#### NON-GOVERNMENT – **Current**

**Funding Agency**: Orthopaedic Science and Research Foundation (OSRF)

Period: December 2018- December 2020

Grant Title: *In Vivo Advanced Deformity Spine Surgery Torque Sensing*

Investigators: Lawrence G. Lenke, MD, Joseph Lombardi, MD, Linda Effiong, Silvio Torres Betancur, Thomas Gardner

Funding: $2,690

**Funding Agency**: Orthopaedic Science and Research Foundation (OSRF)

Period: December 2017- December 2020

Grant Title: *Confirming S2AI screw placement by routine fluoroscopy*

Investigators: Lawrence G. Lenke, MD, Melvin Makhni, MD, Martin Pham, MD, Alex Sielatycki, MD

Funding: $8,700

**Funding Agency**: EOS Imaging

Period: January 1, 2014 – January 1, 2017

Grant Title: *Correlating Three-Dimensional (3D) Spino-Pelvic Parameters with Two-Dimensional (2D) Traditional Imaging and HRQOL-Impact of New 3D Measures on the Evaluation of Adult Spinal Deformity*

Aim: Assess the clinical relevance of 3D stereographic reconstructions (EOS 3D) in the setting of adults with spinal deformity. Divergence between 2D and 3D radiographic parameters will be evaluated as well as correlations with patient reported outcomes. This prospective study could be the first one of several projects aiming to answer the following questions/key-points:

* Can EOS 3D help in the identification of deformity patterns specific to axial versus radicular pain?
* What additional, relevant information can EOS provide that conventional radiography cannot?
* How can EOS assist a physician in his/her diagnosis, patient follow-up, or surgical planning?

Investigators: Virginie Lafage PhD, (PI) Frank Schwab MD, Themistocles Protopsaltis MD,

Thomas Errico MD, **Lawrence G. Lenke MD**, Han Jo Kim MD\*

Funding: ($629.00/non-operative patient, $801.00/surgical patient)

**Funding Agency**: John and Marcella Fox Foundation

Period: January 2009 – Present

Grant Title: *Fox Retrospective Pediatric Vertebral Column Resection (VCR) Trial*

Aim: Analyze data from a consecutive series of patients from eight institutions who have had the posterior VCR procedure to determine the efficacy and safety of this procedure.

Investigators: **Lawrence G. Lenke MD** (PI), John B. Emans MD, Peter O. Newton MD, Suken A. Shah MD,

Harry L. Shufflebarger MD, Paul D. Sponseller MD, Daniel J. Sucato MD

Funding: $250,000.00

**Funding Agency**: Setting Scoliosis Straight Foundation

Period: October 1, 2013 – December 31, 2017

Grant Title: *Scoliosis Surgery Outcome Database Registry: A Prospective, Multi-Center Database Registry of the DePuy Spine Harms Study Group (“STUDY”)*

Investigators: Peter O. Newton MD (PI), **Lawrence G. Lenke MD** (Site PI), numerous institutions

Funding: $2355.00/per patient over 5 years

**Funding Agency**: John and Marcella Fox Foundation

Period: January 2011 – Present

Grant Title: *Fox Prospective Pediatric Vertebral Column Resection (VCR) Trial*

Investigators: **Lawrence G. Lenke MD** (PI), Oheneba Boachie-Adjei MD, John B. Emans MD,

Munish Gupta MD, Scott J. Luhmann, Jr. MD\*, Richard E. McCarthy MD,

Peter O. Newton MD, David W. Polly MD, Amer Samdani MD, Suken A. Shah MD,

Harry L. Shufflebarger MD, David L. Skaggs MD, Paul D. Sponseller MD,

Peter F. Sturm MD, Daniel J. Sucato MD, Michael Vitale MD

Funding: $1,000,000.00

NON-GOVERNMENT - ***Past***

**Funding Agency**: AOSpine International and the Scoliosis Research Society (**NCT01305343**)

Period: July 2011 – February 28, 2013

Grant Title: *Evaluation of Neurologic Complications Associated with Surgical Correction of Adult Spinal Deformity (Scoli-RISK-1): A Prospective, Observational, Multi-center Study*

Investigators: **Lawrence G. Lenke MD(PI)**, Michael G. Fehlings MD, Christopher I. Shaffrey MD,

Kenneth M.C. Cheung MD, Leah Y. Carreon MD MSc

Funding: $700,000.00

**Funding Agency**: Axial Biotech, Inc.

Period: April 2008 – October 2014

Grant Title: *Linkage Analysis and Gene Mapping of Familial Spinal Disorders (Scoliosis, Scheuermann’s Kyphosis, Spondylolisthesis, Lumbar Disc Disease, Osteoporosis) (08-0084)*

Investigators: **Lawrence G. Lenke MD**, Keith H. Bridwell MD, Scott J. Luhmann, Jr. MD\*

Funding: $100.00/per patient

**Funding Agency**: Medtronic Sofamor Danek, Memphis, TN

Period: March 2005 – July 2009

Grant Title: *Washington University Spine Research Center*

Investigators: Keith H. Bridwell MD, **Lawrence G. Lenke MD**, K. Daniel Riew MD

Timothy R. Kuklo JD MD\* (as of 2007)

Funding: $1,948,615.00

**Funding Agency**: Medtronic Sofamor Danek, Memphis, TN

Period: October 2003 – September 2008/Renewed May 2009 – July 2009

Grant Title: *Prospective Pediatric Scoliosis Study (PPSS) (02-0689)*

Investigators: **Lawrence G. Lenke MD**, Matthew B. Dobbs MD, Keith Bridwell MD,

Scott J. Luhmann Jr. MD\*, Timothy R. Kuklo JD MD\* (as of 2007)

Funding: $50,000.00 (funded in full)

**Funding Agency**: Scoliosis Research Society, Foundation Yves Cotrel, Rosemont, IL

Period: October 2003 – September 2005

Grant Title: *Idiopathic Scoliosis: Gene Mapping and Identification*

Investigators: Matthew B. Dobbs MD, Michael Lovett PhD, Michael Whyte MD, **Lawrence G. Lenke MD**

Funding: $49,177.00 (funded in full)

**Funding Agency**: Medtronic Sofamor Danek, Memphis, TN

Period: March 2001 – February 2005

Grant Title: *Washington University Spine Research Center*

Investigators: Keith H. Bridwell MD, **Lawrence G. Lenke MD**, K. Daniel Riew MD

Funding: $1,494,604.00 (funded in full)

**Funding Agency**: Max-Biedermann-Institut, Berlin, Germany

Period: July 2000 – June 2001

Grant Title: *Center of Gravity Investigation in Scoliosis*

Investigators: Jack R. Engsberg PhD, **Lawrence G. Lenke MD**, Kyongta Tye Bae MD PhD

Funding: $40,440.00 (funded in full)

**Funding Agency**: Medtronic Sofamor Danek, Memphis, TN

Period: January 2000 – December 2001

Grant Title: *Genetic Manipulation of the Secondary Injury Cascade of Acute Spinal Cord Injury*

Investigators: Jueren Lou PhD, F. Xu PhD, **Lawrence G. Lenke MD**

Funding: $25,000.00 (funded in full)

**Funding Agency**: Scoliosis Research Society, Rosemont, IL

Period: October 1998 – September 2001

Grant Title: *Comparison of Outcome Measures in Adult Scoliosis Patients Undergoing an Extended Spinal Fusion to L5 or Sacrum or Revision of Previous Long Spinal Deformity Fusion Surgery*

Investigators: Keith H. Bridwell MD, Jack R. Engsberg PhD, Scott D. Minor PhD,

**Lawrence G. Lenke MD**

Funding: $80,308.00 (funded in full)

**Funding Agency**: Sofamor Danek USA, Memphis, TN

Period: August 1998 – August 2000

Grant Title: *Structural and Performance Changes in AIS Patients Fused into the Mid and Lower Lumbar Spine*

Investigators: **Lawrence G. Lenke MD**, Jack R. Engsberg PhD, James S. Kemp MD,

Keith H. Bridwell MD, George S. Bassett MD

Funding: $75,000.00 (funded in full)

**Funding Agency**: Orthopaedic Research and Education Foundation (OREF), Rosemont, IL

Period: July 1998 – June 2000

Grant Title: *Amicar* versus *Aprotinin in Controlling Blood Loss in Scoliosis Surgery*

Investigators: **Lawrence G. Lenke MD**, George S. Bassett MD, Jennifer Cole MD

Funding: $42,722.00 (funded in full)

**Funding Agency**: Ortho-Biotech, Inc., Raritan, NJ

Period: July 1998 – December 1999

Grant Title: *An Open-Label, Randomized, Parallel-Group Study Comparing the Perioperative Administration of Procrit7 (Epoetin Alfa) to the Standard of Care in Blood Conservation for Idiopathic Pediatric/Adolescent Scoliosis and Adult Spinal Deformity Surgeries*

Investigators: Keith H. Bridwell MD, **Lawrence G. Lenke MD**, Terri G. Monk MD

Funding: $60,000.00 (funded in full)

**Funding Agency**: Sofamor Danek USA, Memphis, TN

Period: June 1997 – June 1999 (extended to June 2001)

Grant Title: *Biomechanics of Spinopelvic Fixation in a Human Cadaveric Model of Isthmic Spondylolisthesis*

Investigators: Keith H. Bridwell MD, Stephen J. Lewis MD\*, Ravishankar Vedantam MD,

Douglas Linville MD\*, John Long DVM, Bryan W. Cunningham MSc,

**Lawrence G. Lenke MD**

Funding: $50,556.00, first year; $35,000.00, second year (funded in full)

**Funding Agency**: DePuy-Motech, Inc., Warsaw, IN

Period: February 1997 – February 1999

Grant Title: *Structural and Performance Changes in Adolescent Idiopathic Scoliosis Patients Undergoing Anterior vs. Posterior Thoracic Spinal Fusion*

Investigators: **Lawrence G. Lenke MD**, Jack Engsberg PhD, James Kemp MD, Marilyn Siegel MD,

Keith Bridwell MD

Funding: $84,000.00 (funded in full)

**Funding Agency**: BJC Health System – Innovations in Healthcare Program, St. Louis, MO

Period: December 1996 – December 1998

Grant Title: *Selective Nerve Root Corticosteroid Injection: Can Its Use Obviate the Need for Surgery in Patients with Lumbar Radicular Pain?*

Investigators: K. Daniel Riew MD, Yuming Yin MD, **Lawrence G. Lenke MD**, Keith H. Bridwell MD, Lou Gilula MD

Funding: $19,350.00 (funded in full)

**Funding Agency**: Sofamor Danek USA, Memphis, TN

Period: August 1996 – August 1997

Grant Title: *Retrospective and Prospective Surgical Spinal Database (~4,000 entries)*

Investigators: Keith H. Bridwell MD, **Lawrence G. Lenke MD**, K. Daniel Riew MD

Funding: $10,000.00 (funded in full)

**Funding Agency**: AcroMed – North American Spine Society, Rosemont, IL

Period: January 1994 – January 1995

Grant Title: *The Role of Transforming the Growth Factor - Beta in the Spinal Cord Response to Acute Spinal Trauma*

Investigators: Michael E. Joyce MD, Michael F. O’Brien MD\*, **Lawrence G. Lenke MD**,

Keith H. Bridwell MD

Funding: $12,500.00 (funded in full)

**Funding Agency**: EOS Imaging (201310081)

Period: August 2013 – August 2014

Grant Title: *Occipitocervical Parameters and Regional Alignment in Normal Controls using EOS Imaging Technology*

Investigators: **Lawrence G. Lenke MD**, K. Daniel Riew MD, Keith H. Bridwell MD, Michael P. Kelly MD\*†, Lukas P. Zebala MD‡\*, Jacob M. Buchowski MD\*

Funding: $31,755.00

**Funding Agency**: 2013 AOSpine North America Young Investigator Research Grant

Grant Title: *A Randomized Trial of Two Tranexamic Acid Dosing Protocols in Adult Spinal Deformity Surgery*

Investigators: Michael P. Kelly MD\*† (PI), **Lawrence G. Lenke MD**

Funding: $30,000.00

**Funding Agency**: Scoliosis Research Society, Milwaukee, WI

Period: August 2018 – 2020

Grant Title: *Understanding and managing intraoperative neuromonitoring changes during spinal deformity surgery: a prospective observational study based on two clinical sites*

Investigators: **Lawrence G. Lenke MD**

Funding: $25,000.00

**Funding Agency**: International Spine Study Group

Period: August 2019 – December 2029

Grant Title: *Complex Adult Deformity Study*

Investigators: **Lawrence G. Lenke MD**

Funding: $242,500.00

**Funding Agency**: AOSpine Foundation

Period: September 2019

Grant Title: *Spinal Deformity Intraoperative Monitoring Study*

Investigators: **Lawrence G. Lenke MD**

Funding: $2,000.00

#### GOVERNMENT – **Past**

**Funding Agency**: National Institute for Health (NIH) (5U01AR4544-02)

Period: July 1999 – June 2004

Grant Title: *Spinal Patients Outcomes Research Trial (SPORT) - Low Back Pain: A Multi-Center Trial*

Investigators: James N. Weinstein DO MS, **Lawrence G. Lenke MD**, Keith H. Bridwell MD,

K. Daniel Riew MD, Ralph Dacey MD, Carl Lauryssen MD

Funding: $79,235.00 (funded in full) (part of a $14,000,000 grant)

**Funding Agency**: National Institute for Health (NIH) (U01AR45444-01A1)

Period: May 2004 – May 2005

Grant Title: *Spinal Patients Outcomes Research Trial (SPORT): A Multi-Center Trial*

Investigators: **Lawrence G. Lenke MD**, Keith H. Bridwell MD, K. Daniel Riew MD,

Ralph G. Dacey, Jr. MD, Carl Lauryssen MD, Anthony Margherita MD, Heidi Prather DO

Funding: $503,252.00 locally ($13,546,017.00 nationally) (funded in full)

**Funding Agency**: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) (R01 AR052113)

Period: December 2004 – December 2009

Grant Title: *Bracing in Adolescent Idiopathic Scoliosis Treatment (BrAIST)*

Investigators: Stuart Weinstein MD, Matthew B. Dobbs MD, **Lawrence G. Lenke MD**,

Keith H. Bridwell MD

Funding: $242,260.00 locally ($6,500,000.00 nationally)

**Funding Agency**: Canadian Institutes of Health Research

Period: July 2010 – July 2013

Grant Title: *3-D Classification of Adolescent Idiopathic Scoliosis*

Investigators: Hubert B. Labelle MD, Carl E. Aubin MD, Jean Mac-Thiong MD, **Lawrence G. Lenke MD,**

Stefan Parent MD, Ian A. F. Stokes MD, Peter O. Newton MD, Roger P. Jackson MD

Funding: $61,533.00/per year

**Funding Agency**: BJH Foundation Grant to Lawrence G. Lenke, MD (201301054)

Grant Title: *A Prospective Dose Escalation Trial of the Pharmacokinetics and Bactericidal Potency of Intrasite Lyophilized Vancomycin to Prevent Wound Infections in Instrumented Spinal Surgery*

Investigators: Terrence F. Holekamp MD PhD∫, **Lawrence G, Lenke MD**, Keith H. Bridwell MD,

Jacob M. Buchowski MD MS\*, Michael P. Kelly MD\*†, Lukas P. Zebala MD‡\*,

Ian G. Dorward MD∫\*, Jakub Godzik BS¥, Todd J. Stewart MD, Neill M. Wright MD,

Paul Santiago MD, Wilson Z. Ray MD, David D. Limbrick MD, Jeffrey R. Leonard MD, Brenda A. Sides MA, Linda A. Koester BS

Funding: $10,000

#### GOVERNMENT – **Current**

**Funding Agency**: DoD PRORP

Grant Title: *Spinal Column Trauma: Epidemiology, Timing of Stabilization, and the Inflammatory Response to Trauma and Surgery*

Investigators: LTC Ronald A. Lehman, Jr. MD\*, **Lawrence Lenke MD**, Michael Kelly MD\*†,

Brian K. Kwon MD PhD FRCSC, Todd J. Albert MD, CPT Adam J. Bevevino MD,

CPT Daniel Kang MD, COL Michael Rosner MD, David D. Limbrick Jr. MD PhD,

Carlos A. Puyo MD FCCP

Funding: $2,500,000.00/4 years

## IV. SPINAL SURGERY FELLOWS

1992-1993 Michael F. O’Brien MD

1993-1994 Daniel E. Gelb MD

1994-1995 Michael P. Chapman MD; Christopher L. Hamill MD

1995-1996 Purnendu Gupta MD; Joseph G. Marsicano MD

1996-1997 Douglas A. Linville MD; Ravishankar Vedantam MD

1997-1998 Kevin C. Booth MD; Robert W. Molinari MD

1998-1999 Kevin R. Eck MD; Mark A. Lapp MD

1999-2000 Timothy R. Kuklo MD JD; Stephen J. Lewis MD MSc FRCSC; Fred A. Sweet MD

2000-2001 Darrell S. Hanson MD; John M. Rhee MD

2001-2002 Charles C. Edwards, II MD; Anthony S. Rinella MD

2002-2003 Rudolph (Chris) C. Glattes MD; Joseph R. Orchowski MD; Upshur M. Spencer MD

2003-2004 Ivan Cheng MD; Robert K. Hurford, Jr. MD PhD; Stanley S. Lee MD

2004-2005 Peter D. Angevine MD MPH; Robert Shay Bess MD; Scott J. Luhmann, Jr. MD

2005-2006 Jacob M. Buchowski MD, MS; Craig A. Kuhns MD; Ronald A. Lehman, Jr. MD

2006-2007 Geoffrey A. Cronen MD; Daniel S. Mulconrey MD; Peter S. Rose MD

2007-2008 Christopher R. Good MD; Patrick T. O’Leary MD; Mark A. Pichelmann MD

2008-2009 Joshua D. Auerbach MD; Michael Chan MD; Charles H. Crawford, III MD; Brian A. O’Shaughnessy MD

2009-2010 Samuel K. W. Cho MD; Matthew M. Kang MD; Joshua M. Pahys, MD; Lukas P. Zebala MD

2010-2011 Douglas D. Dickson MD; Michael P. Kelly MD; Ra’Kerry K. Rahman MD; Jeremy J. Stallbaumer MD

2011-2012 Jeremy L. Fogelson MD; Stuart H. Hershman MD; Han Jo Kim MD; Addisu Mesfin MD

2012-2013 Ian G. Dorward MD; Sang Do Kim MD MS; Brian J. Neuman MD; Kevin R. O’Neill MD MS

2013-2014 Jeffrey L. Gum MD; David B. Bumpass MD; Isaac O. Karikari MD; Patrick A. Sugrue MD

2014-2015 Todd Chapman MD; Daniel Kang MD; Lionel Metz MD; Jamal McClendon MD

2015-2016 Venu Nemani MD; William R. Hotchkiss MD, Andrew Pugley, MD, Frank Valone, MD

2016-2017 Lee Tan MD; Xudong Li MD; Alexander Tuchman MD

2017-2018 Melvin Makhni MD; Martin Pham MD; John Sielatycki MD

2018-2019 Griffin Baum, MD, James Lin,MD, Joseph Osorio, MD, Simon Morr, MD

2019-2020 Jun Kim, MD, Joseph Lombardi, MD, Jay Reidler, MD, Andrew Vivas, MD

2020-2021 Alex Ha, MD, Mena Kerolus, MD, Ian Buchanan, MD, Scott Zuckerman, MD

2021-2022 William Clifton, MD, Kevin Kwan, MD, Paul Park, MD, Varun Puvanesarajah, MD

2022-2023 Joshua Bakhsheshian, MD, Christopher Mikhail,MD, Andrew Platt, MD, Stephen Stephan, MD

#### Advanced Spine Deformity Fellows (non-accredited) 6 months

2011-2012 Michael P. Kelly MD

2013-2014 Ra’Kerry Rahman MD

2014 Ronald A. Lehman, Jr. MD

2014-2015 David B. Bumpass MD

2015 Fernando E. Silva MD

2015-2016 Terrence F. Holekamp MD, PhD

2016 Zeeshan Sardar, MD

2016-2017 Brian Kelley, MD (Pediatric)

2017-2018 Eduardo Beauchamp, MD (Pediatric)

2018-2019 Richard Menger, MD (Pediatric)

2019-2020 Anand Segar, MBChB, PhD (Pediatric)

2020-2021 Rajiv, Iyer, MD (Pediatric)

2021-2022 Bruno Lazaro, MD (Pediatric)

2022-2023 Jose Manuel Sarmiento, MD (Pediatric)

#### `Host Surgeon, National/International Visiting Research Scholar (≥1 year)

03/99-03/01 Yasutuga Yukawa MD PhD, Chubu Rosai Hospital, Nagoya University, Nagoya, Japan

09/00-07/06 Yongjung J. Kim MD PhD, Pundang Chung General Hospital/CHA Medical University, Sungnam City, Korea

03/01-02/03 Kotaro Satake MD PhD, Nagoya University School of Medicine, University Hospital, Showa-ku, Nagoya, Japan

03/02-02/03 Yong-Sun Cho MD PhD, University of Ulsan, College of Medicine, Songpa-ku, Ulsan, Korea

07/04-05/06 Gene Cheh MD, Chung-Ang University, College of Medicine, Sungnam, Seoul, Korea

08/04-07/05 Jun-Young Yang MD PhD, Chungnam National University Hospital, Jung-gu, Daejeon, Korea

09/05-08/06 Young-Woo Kim MD PhD, Hallym University Sacred Heart Hospital, Anyang-Si, Gyeonggi-do, Korea

09/05-08/06 Young-Bae Kim MD, Seoul Veterans Hospital, Guangdong-gu, Seoul, Korea

10/05-09/06 Kei Watanabe MD PhD, Niigata University, Niigata Prefecture, Japan

10/05-09/06 Kota Watanabe MD PhD, Keio University School of Medicine, Minato, Tokyo, Japan

06/07-06/08 Takuya Mishiro MD PhD, Takamatsu Red Cross Hospital, Takamatsu-city, Kagawa, Japan

12/07-05/10 Woojin Cho MD PhD, Korea

09/08-02/09 Zezhang Zhu MD PhD, Nanjing University Medical School, Nanjing, Jiangsu, China

01/09-01/10 Jung Sub Lee MD PhD, Pusan National University School of Medicine, Seo-ku, Pusan, Korea

09/09-09/10 Jin-Seok Yi MD, Catholic University of Korea Catholic Medical Center, St. Mary’s Hospital, Daejeon, Korea

11/09-11/10 Guangxun Hu MD, Nashan People’s Hospital of Shenzhen, Shenzhen, Guangdong, China

08/10-08/11 Woo-Kie Min MD PhD, Kyungpook National University Hospital, Daegu, Korea

09/11-09/12 Yang Xu, MD PhD, Fujian Provincial Hospital, Gulou District, Fuzhou, Fujian, China

08/12-07/13 Seung-Jae Hyun MD, Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Korea

02/13-09/14 Yong-Chan Kim, MD, University Sacred Heart Hospital, Seoul, Korea

09/14-08/15 Chang Ju Hwang, MD, University of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea

10/14-09/15 Xiafang Zang MD PhD, The 3rd Xiangya Hospital, Central South University, Xiangya, China

12/14-11/15 Ke-Bing, MD PhD, The 3rd Affiliated Hospital of Southern Medical University, Guangzhou City, China

#### Host Surgeon, National/International Visiting Research Scholar (<1 year; ≥30 days)

04/02-02/03 Omar Mohammed Isa MD, University of Malaya, Kuala Lumpur, Malaysia

04/03-10/03 Mitsuhiro Kamiya MD PhD, Aichi Medical University, Nagukute, Aichi-ken, Japan

07/03-01/04 Kuniyoshi Tsuchiya MD, Saiseikai Yahata General Hospital, Yahata-Higashi, Kitakyushu, Japan

03/04-05/04 Seung-Chul Rhim MD PhD, Asan Medical Center, University of Asan, Songpa, Seoul, Korea

10/04-12/04 Lee M. Breakwell MSc FRCS, University of Cardiff, Royal National Orthopaedic Hospital, England

10/04-12/04 Fernando E. Silva MD, Northwestern University, Chicago, IL

01/05-02/05 Luis Valenté, MD Hospital de S. João, Porto, Portugal

04/05-06/05 Julius Fernandez MD, Semmes-Murphey Clinic, Memphis, TN

08/05-01/06 Michael Daubs MD, Valley Hospital Medical Center, Las Vegas, NV

10/05-11/05 Ezequiel Cassinelli MD, Case Western University, Cleveland, OH

08/06-02/07 Richard M. Schwend MD, Children’s Medical Hospital, Kansas City, MO

09/06-06/07 Katsumi Harimaya MD PhD, Kyushu University Hospital, Higashi-ku, Fukuoka, Japan

01/07-03/07 Dawei He MD PhD, Changhai Hospital, Second Military Medical University, Shanghai, China

03/07-05/07 Jochen Son-Hing MD, Rainbow Babies & Children’s Hospital, Cleveland, OH

06/07-08/07 Miguel Puigdevall MD, Hospital Italiano, Buenos Aires, Argentina

10/07-05/08 Takeshi Maeda MD PhD, Kyushu University Hospital, Higashi-ku, Fukuoka, Japan

01/08-03/08 Rodrigo Remondino MD, Hospital Italiano, Buenos Aires, Argentina

05/08-07/08 Ming (Brian) Xiang MD, Shekou Peoples Hospital, Shenzhen, Guangdong, China

09/08-11/08 Louis WY Cheung FRCS, University of Hong Kong, Pokfulam, Hong Kong, China

10/08-12/08 Naoki Shoda FRCS, University of Tokyo, Tokyo, Japan

12/08-02/09 Xiangyang Ma MD PhD, Liu Hua Qiao Hospital, Guangzhou, Guangdong, China

01/09-05/09 Junlin Yang MD PhD, The 1st Affiliated Hospital of Sun Yat-Sen University, Guangzhou, Guangdong, China

03/09-06/09 Fu-Zhi Ai MD PhD, The 1st Affiliated Hospital of Sun Yat-Sen University, Guangzhou, Guangdong, China

07/09-08/09 Tamas Fekete MD, Schulthess Klinik, Zurich, Switzerland

07/09-08/09 Huiren Tao MD, Xijing Hospital, The 4th Military Medical University, Xi’An, ShaanXi, China

07/09-08/09 Haiying Tao MD, Xijing Hospital, The 4th Military Medical University, Xi’An, ShaanXi, China

10/09-12/09 Jian-Hua Wang MD PhD, Liu Hua Qiao Hospital, Guangzhou, Guangdong, China

10/09-04/10 Zenghui Wu MD, Liu Hua Qiao Hospital, Guangzhou, Guangdong, China

03/10-08/10 Lei Xia MD, The 1st Affiliated Hospital of Zhengzhou University, Zhengzhou, Henan, China

06/21-12/17/10 Yutaka Nakamura MD, Dokkyo Medical University, Koshigaya Hospital, Koshigaya, Saitama, Japan

08/10-11/10 Yuan Ning MD, Jishuitan Hospital, Xinjiekou, Beijing, China

05/11-06/11 Cui Geng MD, Chinese PLA General Hospital, Beijing, China

06/13-07/07/11 Gururaj Sangondimath MD, Indian Spinal Injuries Center, New Delhi, India

06/20-07/29/11 Carlos Fernando P. S. Herrero MD, de Universidad de São Paulo, University of São Paulo, Brazil

06/27-08/05/11 Gabriel A. Esquivel MD, Hospital de Niños Dr. Orlando Alassia, Santa Fe, Argentina

09/01-12/31/11 Yasushi Oshima MD PhD, University of Tokyo, Bunkyo-ku, Tokyo

01/30-08/01/12 Lin Wang MD, Xijing Hospital, The 4th Military Medical University, Xi’An, ShaanXi, China

02/02-05/01/15 Jean Carlo Queruz MD, Hospital Pequeno Principe, Batel Curitiba, Brazil

05/07-11/07/12 Samuel Romero MD, National Institute of Rehabilitation, Mexico City, Mexico

04/08-07/05/13 Qiyi Li, MD PhD, Peking Union Medical College, Peking, China

04/01-09/30/14 Xiaobin (Shawn) Wang MD PhD, The 2nd Xiangya Hospital, Central South University, Xiangya, China

02/15-04/17/15 Jean Queruz MD, Paraná Medical Center, Curitiba, Paraná, Brazil

04/01-06/29/15 Yoichiro Takata MD, University of Tokushima, Tokushima, Tokushima Prefecture, Japan

11/15-01/16 Chen-hung Tu, MD, Kaohsiung Veterans Gen Hospital, Kaohsiung City, Taiwan

#### Scoliosis Research Society Traveling Fellowship Host Site

10/31-11/03/05 Avraam Ploumis MD, Twin Cities Spine Center, Minneapolis, MN

05/05-07/09 Jean Marc Mac-Thiong MD, CHU Sainte-Justine, Montréal, Québec, Canada

08/20-22/12 Michael J. McMaster MD DSc FRCS, Royal Hospital for Sick Children, Edinburgh, Scotland

08/20-22/12 Ian Harding BA FRCS (Ortho), Frenchay Hospital, Bristol, UK

08/20-22/12 Srinivasa Vidyadhara MS DNB FNB, Manipal Hospital, Bangalore, India

08/20-22/12 Elias Papadopoulos MD, University of Athens, Athens, Greece

08/25-28/14 Daniel Chopin MD, University of Lille Nord de France, Lille University Hospital, Lille, France

08/25-25/14 J. Naresh-Babu MS FNB (Spine), Mediciti Hospital, Hyderabad, Mallika Spine Centre, unter, India

08/25-28/14 Nasir Ali Quraishi FRCS, Queen’s Medical Centre, Centre for Spine Studies and Surgery, Nottingham, UK

08/25-28/14 Meric Enercan MD, Orthopedics and Traumatology Specialist, Florence Nightingale Hospital, Istanbul Spine Clinic, Turkey

#### Scoliosis Research Society Global Outreach Visiting Fellowship Host Site

09/23-25/14 Krishna Kumar Ramachandran Nair MD, Amrita Institute of Medical Sciences, Cochin, India

09/30-10/25/13 Tie Liu MD, Beijing Chao-Yang Hospital, Capital Medical University, GongTiNanLu, Chaoyang District, Beijing, P.R. China

09/15-30/14 Santiago Balderrama, Sr. MD, Fernando Barreyro Pediatric Hospital, Posadas, Argentina

#### Scoliosis Research Society Edward Dawson Fellowship Host Site

08/06-08/12 Justin S. Smith MD PhD, University of Virginia health System, Charlottesville, VA

09/23-25/14 Matthew Oetgen MD Children’s National Medical Center, Washington D.C.

#### Lenke-Lowe International Research Fellowship

10/05-12/05 John Ferguson MD, Starship Children’s Health, Auckland, New Zealand

#### International Spinal Scientific Advancement Foundation (SSAF). Three-Month Spinal Research Fellowship

06/02-09/02 Hui-Yong Shen MD, The First Affiliated Hospital of Sun Yat-Sen University, Guangzhou, Guangdong, China

06/02-09/03 Katsushi Takeshita MD, University of Tokyo, Tokyo, Japan

09/02-12/02 Zanariah Othman MD, University Putra, Hospital Kuala Lumpur, Kuala Lumpur, Malaysia

#### Surgical/Clinical Observations

1998 Howard Place MD, St. Louis University, St. Louis, MO

07/17/00 Peter Sturm MD, Pediatric Orthopaedics, Annandale, VA

07/17/00 Karl Rathjen MD, Texas Scottish Rite Hospital, Dallas, TX

05/14/01 R. Dale Blasier MD, Arkansas Children’s Hospital, Little Rock, AR

05/14/01 Vincent Deeney MD, Children’s Hospital of Pittsburgh, Pittsburgh, PA

05/14/01 Laura Flawn MD, University of Texas Health Science Center, San Antonio, TX

05/21/01 Dr. Schrader, OH

05/21/01 Dr. Riley, OH

06/25/01 Gregory Mencio MD, Vanderbilt University Medical Center, Nashville, TN

06/25/01 Nigel Price MD, Children’s Mercy Hospital, Kansas, MO

06/25-26/01 Donald Rohl MD, Orthopedic & Neurological Consultants, Columbus, OH

07/02/01 Dr. Gonda, Showa University School of Medicine, Tokyo, Japan

07/02/01 Dr. Sogo, Showa University School of Medicine, Tokyo, Japan

07/23/01 Morey Moreland, MD, Children’s Hospital of Pittsburgh, PA

07/23/01 Michael Coscia MD, OrthoIndy Physicians, Indianapolis, IN

07/23/01 Rolando Roberto MD, Tucson Orthopaedic Institution, Tucson, AZ

01/02/02 Richard Gross MD, University of South Carolina, Columbia, SC

03/12/02 Jeffrey Spivak MD, New York University, New York, NY

04/08/02 Peter Masso MD, Shriners Hospital, Springfield, MA

04/29/02 Hugh Brown MD, University Orthopedic Associates, Chattanooga, TN

04/29/02 Michael Moore MD, Bone & Joint Center, Bismarck, ND

04/29/02 Matthew Bueche MD, M & M Orthopaedics, Ltd., Oakbrook Terrace, IL

04/29-30/02 Scott Russo MD, Orthopaedic & Spine Specialists, Grand Rapids, MI

04/29-30/02 Andres Fuentes MD, de Universidad de São Paulo, São Paulo, Brazil

05/13-14/02 Stephen Ondra MD, Northwestern University, Chicago, IL

06/10/02 Kurt von Rueden MD, Austin Orthopaedic Clinic, Austin, TX

06/10/02 Douglas Armstrong MD, Children’s Hospital of Buffalo, Buffalo, NY

07/29/02 Rolando Roberto MD, Tucson Orthopaedic Institution, Tucson, AZ

02/25-28/03 Yutaka Sasao MD, St. Marianna University, Miyamae-Ku, Kawasaki, Kanagawa Prefecture, Japan

02/25-28/03 Tsunehiko Ishikawa, Medtronic Sofamor Danek, Japan

02/25-28/03 Teruyuki Morita, Medtronic Sofamor Danek, Japan

03/10-14/03 Gregory Hoffman MD, Orthopaedics North East, Fort Wayne, IN

03/19/03 Praveen Mummaneni MD, Emory University, Atlanta, GA

04/21-28/03 Tom Reinsel MD, Texas Scoliosis & Spine Center, Austin, TX

04/25/03 Matthew Geck MD, Texas Scoliosis & Spine Center, Austin, TX

04/28/03 Carl Fackler MD, Peachtree Orthopaedic Clinic, Atlanta, GA

04/28/03 William Phillips MD, Texas Children’s Hospital, Houston, TX

04/28/03 Gary Tebor MD, University Orthopaedic Associates, Rochester, NY

05/05-06/03 Linda D’Andrea MD, Shriners Hospital, Philadelphia, PA

05/05-06/03 Ian Torode MD, Royal Children’s Hospital, Melbourne, Australia

05/05-06/03 David Godfried MD, Schneider Children’s Hospital, New Hyde Park, NY

05/12/03 Dennis Devito MD, Children’s Orthopaedics, Atlanta, GA

06/04-06/03 Yudou Hachiya MD, Nagoya University School of Medicine, University Hospital, Showa-Ku, Nagoya, Japan

06/04-06/03 Takayasu Ito MD, Nagoya University School of Medicine, University Hospital, Showa-Ku, Nagoya, Japan

06/04-06/03 Kiji Sato MD, Nagoya University School of Medicine, University Hospital, Showa-Ku, Nagoya, Japan

06/09/03 John Thometz MD, Medical College of Wisconsin, Milwaukee, WI

06/09/03 William Samuelson MD, Samuelson Bone, Joint, and Spine Center, Sioux City, IA

06/23/03 James Harms MD, Carle Clinic, Urbana, IL

06/23/03 Sanjeev Sabharwal MD, New Jersey Medical School, Newark, NJ

06/23/03 John Killian MD, Pediatric Orthopaedic Clinic, Birmingham, AL

01/05-09/04 Praveen Mummaneni MD, Emory University, Atlanta, GA (SDEG sponsored)

02/16/04 Torin Cunningham MD, Tichenor Orthopaedic Clinic, Long Beach, CA

02/16/04 Mary Nagai MD, University of Toronto, Toronto, Ontario, Canada

02/17/04 Michelle Caird MD, University of Michigan, Ann Arbor, MI

02/17/04 Aaron Buerk MD, Brookline, MA

03/03/04 Sean McCance MD, (private practice) New York, NY

04/15/04 Jason Watson, Medtronic Sofamor Danek, Memphis, TN

04/26/04 Akihito Wada MD, Semmes-Murphy Clinic, Memphis, TN

04/29/04 Christopher Kim MD, West End Orthopaedics, Richmond, VA

05/17/04 Barney Freeman MD, Campbell Clinic, Collierville, TN

05/17/04 Nigel Price MD, Children’s Mercy Hospital, Kansas City, MO

05/17/04 Jonathan Camp MD, Children’s Bone & Spine, Las Vegas, NV

05/17-21/04 Andres Fuentes MD, de Ribeirão Preto-Universidade, São Paulo, Brazil

06/14/04 John Blanco MD, Children’s Orthopaedics of Atlanta, Atlanta, GA

06/14/04 Daniel Mason MD, The DuPont Hospital for Children, Wilmington, DE

06/14/04 Mario Turi MD, Pediatric Orthopaedic Associates, Bangor, ME

07/06-30/04 Douglas Won MD, Spine Center, Mansfield, TX

07/06-16/04 Eduardo Galaretto MD, Hospital de Pediatría Garrahan, Buenos Aires, Argentina

07/09/04 Donald Corenman MD, Steadman Hawkins Clinic, Vail, CO

07/19/04 Eric Jamrich MD, Rocky Mountain Spine Clinic, Lone Tree, CO

07/19/04 David Feldman MD, New York University, New York, NY

07/29/04 Michelle See, Medtronic Sofamor Danek, Memphis, TN

08/06/04 Jon Martin, Medtronic Sofamor Danek, Memphis, TN

08/09/04 Dr. Mendez, Holy Cross Medical Center, Mission Hills, CA

08/09/04 Hamid Miraliak MD, Holy Cross Medical Center, Mission Hills, CA

08/12/04 John Young, Medtronic Sofamor Danek, Memphis, TN

08/13/04 Daniel Sucato MD, Texas Scottish Rite Hospital, Dallas, TX

09/03/04 Jeffrey Nepple BS, WUSM student

09/20/04 Steven Buckley MD, The Orthopaedic Center, Huntsville, AL

09/20/04 Adam Barmada MD, Bone & Joint Clinic, Portland, OR

09/23/04 Won-Gyu Choi MD, Wooridul Spine Hospital, Seoul, Korea

09/30/04 Richard Schwend MD, University of New Mexico, Albuquerque, NM

09/30/04 Patrick Bosch MD, University of New Mexico, Albuquerque, NM

10/04-05/04 Mazakazu Matsumoto MD, Keio University School of Medicine, Tokyo, Japan

10/04/04 Michael Wattenbarger MD, Miller Orthopaedic Clinic, Charlotte, NC

10/04/04 Anis Mekhail MD, Parkview Orthopaedic Clinic/University of Illinois, Palos Heights, IL

10/22/04 Kimball Fuiks MD, Wisconsin Neurosurgery, S.C., Brookfield, WI

10/22/04 Sumon Bhattacharjee MD, Wisconsin Neurosurgery, S.C., Brookfield, WI

11/01/04 Heather Lindenman, Medtronic Sofamor Danek, Memphis, TN

11/01/04 Paul Nichter, Medtronic Sofamor Danek, Memphis, TN

11/22/04 Sumon Bhattacharjee MD, Wisconsin Neurosurgery, S.C., Brookfield, WI

11/22/04 Ravinder Bains MD, Kaiser Permanente, Oakland, CA

11/22/04 David Parsons MD, Alberta Children’s Hospital, Calgary, Alberta, Canada

12/13/04 Lori Karol MD, Texas Scottish Rite Hospital, Dallas, TX

01/10/05 Samarjit Jaglan MD, Des Plaines, IL

01/10/05 Joseph Davey MD, Oklahoma University, Oklahoma City, OK

01/13-14/05 Kimball Fuiks MD, Wisconsin Neurosurgery, WI

01/17/05 Brian Hasley MD, University of Nebraska – MC, Omaha, NE

01/17/05 Jacob Weinberg MD, Children’s Hospital, Boston, MA

01/18/05 Kevin McCarthy MD, Bone and Joint Clinic of Baton Rouge, LA

01/18/05 Ron El-Hawary MD, Dalhouse University, Halifax, Nova Scotia

01/20-21/05 Kazuhiro Hasegawa MD, Niigata University, Nishi-Ku, Niigata, Japan

02/04/05 Jefferson Eyke MD, Orthopaedic Associates of Muskegon, Muskegon, MI

02/04/05 Stephen Delahunt MD, The Spine Center of Wisconsin, Milwaukee, WI

02/07/05 Todd Milbrandt MD, University of Virginia, Charlottesville, VA

02/07/05 Lyall Ashberg MD, Orthopaedic Specialists of Brevard, Melbourne, FL

03/11/05 Yousif Hamati MD, Orthopaedic Associates of Muskegon, Muskegon, MI

03/11/05 Ty Carter MD, Carolina Musculoskeletal Institute, Aiken, SC

04/11/05 James Tucci MD, CT

04/11/05 John Churchill MD, Pediatric Orthopedics Southwest, Fort Myers, FL

04/11-13/05 Koichiro Morishita MD, Mie University Graduate School of Medicine, Tsu City, Mie Prefecture, Japan

04/18-28/05 Mark McFarland MD, Florida Spine Institute, Clearwater, FL

04/22/05 Nigel Price, MD Children’s Mercy Hospital, Kansas City, MO

04/22/05 Robert Bohinski MD, Christ Hospital MOB, Cincinnati, OH

05/02/05 Gary Tebor MD, University Orthopaedic Associates, Rochester, NY

05/02-03/05 Étienne Goetzee MD, Pretoria East Hospital, Pretoria, Gauteng, South Africa

06/10/05 Matthew Geck MD, Austin Spine Center, Austin, TX

06/13/05 Allen Sossan DO, Reconstructive Spinal Surgery & Orthopedic Surgery, P.C., Norfolk, NE

06/13/05 Tien Nguyen MD, Orange County Brain & Spine Group, Fountain Valley, CA

06/14/05 Fred Molz, Medtronic Sofamor Danek, Memphis, TN

06/14/05 Frank Bono, Medtronic Sofamor Danek, Memphis, TN

07/05-08/05 Ruy Lloyd MD, British Hospital of Buenos Aires/Austral Hospital, Buenos Aires, Argentina

07/25/05 Michael Kasten MD, Borgess Medical Center, Kalamazoo, MI

07/25/05 Matthew Mermer MD, Kaiser Permanente, Oakland, CA

08/01-02/05 Robert Watkins, Jr. MD, Los Angeles Spine Surgery Institute, Los Angeles, CA

08/01-04/05 Norberto Ventura MD, Madrid, Spain

08/01-04/05 Julio Gallego MD, Group Director, Medical Education & Training, International, Medtronic, Madrid, Spain

08/03/05 Dr. Abumi, Japan

08/19/05 Faissal Zahrawi MD, Celebration, FL

09/09/05 Gerard Jeong MD, Oceanside, NY

09/09/05 Jonathan Lewin MD, Northshore Forest Hills, New York, NY

09/12/05 Afshin Aminian MD, Adult and Pediatric Orthopedic Specialists, Orange, CA

09/26/05 Randy Loder MD, Riley Children’s Hospital, Indianapolis, IN

09/26/05 Ellen Raney MD, Shriners Hospital, Honolulu, HI

10/10/05 Charles “Ted” Shuff MD, Virginia Commonwealth University Health Systems, Richmond, VA

10/10/05 Matthew Mermer MD, Kaiser Permanente, Oakland, CA

10/20/05 Michael Fry MD, Tahoe Fracture, Regional Spine Institute, NV

10/20/05 John Labiak MD, John Labiak, MD, P.C., Smithtown, NY

10/21/05 Tiffany Rogers MD, Torrance Orthopaedic & Sports Medicine Group, Torrance, CA

10/21/05 Kathryn Beauchamp MD, University of Colorado, Aurora, CO

11/09/05 Purnendu Gupta MD, University of Chicago Medical Center, Chicago, IL

11/14/05 Geoffrey Haft MD, Sanford Clinic Orthopedics & Sports Medicine, Sioux Falls, SD

11/16/05 G. Ray Williams MD, Doctor’s Hospital, Opelousas, LA

11/16/05 Sarkis (Sam) Kaspar MD, Mary Greeley Medical Center, Ames, IA

12/05/05 Harry Kim MD, Shriners Hospital for Children, Tampa, FL

12/05/05 William Schrader MD, Akron Children’s Hospital, Akron, OH

12/05/05 Stephen Renwick MD, Oregon Health & Science University, Portland, OR

12/12/05 Nigel Price MD, Children’s Mercy Hospital, Kansas City, MO

12/12/05 Jill Ariagno RN, Children’s Mercy Hospital, Kansas City, MO

12/12-13/05 Masahiro Hayashi MD, Okitama Public General Hospital, Kawanishi, Yamagata Prefecture, Japan

12/19/05 Mark Rieger MD The Orthopedic Center, Cedar Knolls, NJ

01/16-02/03/06 Tomoaki Kitagawa MD, Teikyo University School of Medicine, Tokyo, Japan

01/18-27/06 Tyler Koski MD, Northwestern University, Chicago, IL

01/23-02/03/06 Wansoo Lee MD, Stanford University, Stanford, CA

01/24/06 Brian Nielson MD, Tucson, AZ

01/24/06 Claude Scott MD, Kings County Hospital, Brooklyn, NY

02/10/06 Brian Witwer MD, Brian Witwer, MD, P.C., Owensboro, KY

02/10/06 Michael Tooke MD, Guilford Orthopaedic & Sports, Greensboro, NC

02/14/06 John Labiak MD, John Labiak, MD, PC., Smithtown, NY

02/14/06 Mauro Román Tropini MD, Austral University Hospital, Pilar, Buenos Aires, Argentina

02/27/06 G. Ray Williams MD, Doctor’s Hospital, Opelousas, LA

02/27/06 Aaron Blanchard PA, Doctor’s Hospital, Opelousas, LA

02/27-03/02/06 Toru Hirano MD PhD, Niigata University, Nishi-Ku, Niigata, Japan

03/09/06 Pawel Michalski MD, Mother & Child Institute, Warsaw, Poland

03/10/06 John Grimm MD, Tri-State Orthopaedics, Evansville, IN

03/13/06 Shaden Marzouk MD, Chicago, IL

03/13/06 Donald Deinlein MD, Orthopaedic Specialists of Alabama, Birmingham, AL

03/13/06 Richard Hostin MD, Twin Cities Spine Center, Minneapolis, MN

03/14/06 John Beck MD, Shriners Hospital for Children, Philadelphia, PA

03/14/06 Klane White MD, Texas Scottish Rite Hospital, Dallas, TX

03/14/06 Eric Shirley MD, Cherry Hill, NJ

04/03-04/06 Alvin Crawford MD, Cincinnati Children’s Hospital, Cincinnati, OH

04/03-06/06 Guo Chang Ming MD, Singapore General Hospital, Singapore

04/13-14/06 Scott Russo MD, Orthopaedic Associates of Grand Rapids, Grand Rapids, MI

04/19-20/06 Noriaki Kawakami MD, Meijo Hospital, Tempaku, Nagoya, Japan

04/24-26/06 Jorge Mineiro MD, Hospital Santa Maria, Lisbon, Portugal

04/24-27/06 Jason Bernard FRCS, Royal National Orthopaedic Hospital, England

04/24-27/06 Sean Molloy FRCS, St. George’s Hospital, London, England

05/01-12/06 Yogesh Pithwa MD, Hosmat Hospital, Bangalore, India

05/02-15/06  Oscar Alfredo Carreras Scotto MD, Center of Deformities, de Columbia, Uruguay

05/12/06 Scott Dulebohn MD, St. Mary’s/Duluth Clinic, Duluth, MT

05/25-26/06 Jonathon Camp MD, Children’s Bone & Spine, Las Vegas, NV

06/16/06 Doug Cave, Medtronic Sofamor Danek, Memphis, TN

06/16/06 Kelly Phillips, Medtronic

06/22/06 Jeff Acuff, Medtronic Sofamor Danek, Memphis, TN

06/29/06 Frank Chan, Medtronic Sofamor Danek, Memphis, TN

06/29/06 Stuart Pratt, Medtronic Sofamor Danek, Memphis, TN

06/30/06 Patrick Jacob MD, University of Florida, Gainesville, FL

06/30/06 Trey Fulp MD, McAllen Medical Center, McAllen, TX

07/06/06 Laurence Mermelstein MD, Long Island Spine Specialists, Commack, NY

07/10/06 Samuel Smith MD, Front Range Orthopaedic Center, Longmont, CO

07/10/06 Curtis Leonard MD, Front Range Orthopaedic Center, Longmont, CO

07/19/06 Pierre Mercier MD, Laval University, Québec, Canada

07/19-21/06 Alfonso Canadas MD, University Hospital Bergen of Snows, Granada, Norway

07/20/06 Matthew Geck MD, Austin Spine Center, Austin, TX

07/20/06 Melissa Esquivel CST, Austin Spine Center, Austin, TX

07/25/06 John Purvis MD, Pediatric Orthopaedic Specialists, Jackson, MS

08/25/06 Marc Arginteanu MD, Englewood Hospital, Englewood, NJ

09/05-08/06 Ikka Helenius MD, Tampere University Hospital, Tampere, Pirkanmaa, Finland

09/05-08/06 Olli Pajulo MD, Tampere University Hospital, Tampere, Pirkanmaa, Finland

09/05-08/06 Jarmo Valipakka MD, Tampere University Hospital, Tampere, Pirkanmaa, Finland

09/05-08/06 Jari Vanhanen, Medtronic Sofamor Danek, Finland

09/18-22/06 Woo-Kie Min MD, Kyungpook National University Hospital, Daegu, South Korea

09/25/06 Alex Santos PA, McAllen Medical Center, McAllen, TX

10/02-05/06 Toshiaki Kotani MD, Seirei Sakura Citizen Hospital, Sakura, Chiba, Japan

10/02-13/06 Masahiko Takahata MD, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan

10/03/06 Michael Vitale MD, Children’s Hospital of New York, New York, NY

11/06-10/06 A. Nick Shamie MD, UCLA Medical Center, Los Angeles, CA

11/09/06 Donald W. Kucharzyk DO, St. Margaret Hospital, Hammond, IN

11/13-16/06 John Andrews FRCS, Royal Orthopaedic Hospital, Northfield, Birmingham, England

11/20/06 C. William Bacon MD, Central Utah Clinic, Provo, UT

12/11/06 Donald Deinlein MD, Trinity Medical Center, Birmingham, AL

01/19/07 Loren Jenkins MD, Kaiser Sunnyside, Clackamas, OR

01/23/07 William Hennrikus MD, Madera Children’s Hospital, Madera, CA

01/25/07 Nigel Price MD, Children’s Mercy Hospital, Kansas City, MO

01/25/07 Jill Ariagno RN, Children’s Mercy Hospital, Kansas City, MO

01/25/07 Valerie Thomas RN, Children’s Mercy Hospital, Kansas City, MO

01/25/07 Vishal Sarwahi MD, Montefiore Medical Center, Bronx, NY

01/25/07 Terry Amaral MD, Montefiore Medical Center, Bronx, NY

01/29/07 Melanie Middleton, Medtronic Sofamor Danek, Memphis, TN

02/05/07 Rolf Riise MD, Universitetssykehuset Rikshospitalet, Oslo, Norway

02/06-08/07 Ari Adler, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/06-08/07 Jeff Chapin, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/06-08/07 Stacey McCullough, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/06-08/07 Jason Robinson, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/06-08/07 Lenore Moskey, Medtronic Sofamor Danek, Memphis, TN

02/06-08/07 Doug Baker, Medtronic Sofamor Danek, Memphis, TN

02/06-08/07 Jeff Beale, Medtronic Sofamor Danek, Memphis, TN

02/08/07 Amy Schwartz, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/08/07 Jose Colucci, Medtronic Sofamor Danek (IDEO), Memphis, TN

02/08/07 Allan Beebe MD, Children’s Hospital, Columbus, OH

02/08/07 Jan Klamar MD, Children’s Hospital, Columbus, OH

02/09/07 Nelson Cassis MD, Cirujano en Jefe Hospital Shriners para Niños Lisiados AC, Mexico

02/21-22/07 Brian Hasley MD, University of Nebraska Medical Center, Omaha, NE

02/26-03/02/07 Michael Millgram MD, Israel Spine Center, Assuta Hospital, Tel Aviv, Israel

02/26-03/02/07 Pawel Michalski MD, Mother & Child Institute, Warsaw, Poland

03/01-08/07 Ozkan Atep MD, Inonu University, Turgut Ozal Medical Center, Malatya, Turkey

03/05-09/07 Antonio Martin-Benlloch MD, Hospital g de Octubre, Valencia, Spain

03/07/07 Anthony Melkent, Medtronic Sofamor Danek, Memphis, TN

03/12/07 Brian Scholl MD, University Hospital, Birmingham, AL

03/12/07 Steven Theiss MD, University Hospital, Birmingham, AL

04/12/07 Andrew Dickson, Medtronic Sofamor Danek, Memphis, TN

04/16/07 David Hanscom MD, Orthopedics International, Seattle, WA

04/23/07 Yolanda Cillo MD, Medtronic Sofamor Danek, Memphis, TN

04/24/07 John Anderson MD, Twin City Orthopedics, Edina, MN

04/24/07 Daniel Hoernschemeyer MD, University of Missouri School of Medicine, Columbia, MO

04/24/07 Jochen Son-Hing MD, Rainbow Babies & Children’s Hospital, Cleveland, OH

04/26/07 Anthony Scaduto MD, University of California – Los Angeles, Shriners Hospital for Children, Los Angeles, CA

05/02-04/07 Carlos Villanueva MD, Hospital Del Valle De Hebron, Barcelona, Spain

05/03/07 Jeff Garner PA, Consulting Orthopedists, Plano, TX

05/17/07 Bernard Rawlins MD, Hospital for Special Surgery, New York, NY

05/30/07 Jeffrey Sabin MD, Precison Orthopedics, P.C., Lakewood, CO

05/31/07 Keith Gabriel MD, St. John’s Hospital, Springfield, MO

05/31/07 Sumon Bhattacharjee MD, NeuroScience Group of North East Wisconsin, Neenah, WI

06/12/07 James Mirda, Medtronic Sofamor Danek, Memphis, TN

06/12/07 Eric Densford, Medtronic Sofamor Danek, Memphis, TN

06/18-21/07 Luciano Miller MD, São Paulo Federal University, São Paulo, Brazil

07/06/07 John Asghar MD, Shiners Hospital for Children, Philadelphia, PA

07/06/07 C. William Bacon, MD, Central Utah Clinic, Orthopaedic Specialty Center, Provo, UT

07/16-18/07 Eric Hooley, MD San Diego Center for Spinal Disorders, La Jolla, CA

07/16-18/07 Juan Carlos Olaverri MD, Maimonides Medical Center, Brooklyn, NY

07/16-18/07 Stefano Sinicropi MD, Midwest Spine Institute, Stillwater, MN

07/18-20/07 Jeffrey Sabin MD, Precison Orthopedics, P.C., Lakewood, CO

07/18-20/07 Robert Myles MD, Texas Orthopedic & Spine Associates, Hurst, TX

07/28/07 John Blanco MD, Children’s Orthopaedics of Atlanta, Atlanta, GA

07/28/07 Michael Schmitz MD, Children’s Orthopaedics of Atlanta, Atlanta, GA

07/28/07 M. Darryl Antonacci MD, Institute for Spine and Scoliosis, New York, NY

08/02/07 Barry Hildreth, Medtronic Sofamor Danek, Memphis, TN

08/02/07 Jesse Moore, Medtronic Sofamor Danek, Memphis, TN

08/16-17/07 Delio Martins MD, São Paulo Federal University, São Paulo, Brazil

08/16-17/07 Fabio Santana MD, São Paulo Federal University, São Paulo, Brazil

08/17/07 John O’Toole MD, Rush University Medical Center, Chicago, IL

08/17/07 Thu Nguyen, Medtronic Sofamor Danek, Chicago, IL

08/20-21/07 R. Blake Dennis MD, West End Orthopaedics, Richmond, VA

08/20-24/07 Hirotoshi Yoshida MD, Saiseikai Kawaguchi General Hospital, Saiseikai, Kawaguchi, Japan

08/27/07 John Grimm MD, Tri-State Orthopaedic Surgeons, Evansville, IN

09/14/07 Igor Kurilets MD, International Neurosurgical Centre in Kyiv, Ukraine

09/18-21/07 Donald Deinlein MD, Orthopaedic Specialists of Alabama, Birmingham, AL

09/18-21/07 Vishal Sarwahi MD, Montefiore Medical Center, New York, NY

10/01/07 Jeetendra Bharadwaj, Medtronic Sofamor Danek, Memphis, TN

10/1-26/07 Marcelo Poderoso Araujo MD, de Ribeirão Preto-Universidade, São Paulo, Brazil

10/1-11/23/07 Rajesh Arakal MD, Olympia Orthopaedic Associates, Seattle, WA

10/29-30/07 Hans Snyckers MD, Pretoria Academic Hospital, Pretoria, South Africa

10/29/07 Matthew Mermer MD, Kaiser Permanente, Roseville, CA

10/29/07 Donald Matthews MD, Kaiser Permanente, Roseville, CA

11/05-07/07 Yongjung J. Kim MD, Hospital for Special Surgery, New York, NY

11/08-10/07 Christopher Hamill MD, University at Buffalo, Amherst, NY

11/27/07 Benjamin Hogbin Medtronic Sofamor Danek, Memphis, TN

12/10/07 Gregory Elders MD, North Texas Orthopaedics & Sports Medicine, Houston, TX

12/13/07 Joseph Bellflower MD, St. Vincent Hospital, Indianapolis, IN

01/07-08/08 Kenneth Paonessa MD, William Backus Hospital, North Franklin, CT

01/07-08/08 Robert Ritzman MD, Children’s Hospital of Akron, Akron, OH

01/07-08/08 Ronald A. Lehman, Jr. MD, Walter Reed Army Medical Center, Washington, DC

01/07-08/08 Melvin Helgeson MD, Walter Reed Army Medical Center, Washington, DC

01/07-18/08 Matthew Geck MD, SpineAustin, Austin, TX

01/10-11/08 Robert Morgan MD, Regions Hospital, Coon Rapid, MN

01/10-11/08 Gregory Elders MD, North Texas Orthopaedics & Sports Medicine, Houston, TX

02/25/08 Ming Liu, Medtronic Sofamor Danek, Memphis, TN

03/10-13/08 Choon-Sung Lee MD, Asan Medical Center, University of Ulsan, Seoul, Korea

03/11-13/08 Koichi Sairyo MD, University of Tokushima, Shikoku, Japan

03/11-13/08 Tomoya Terai MD, University of Tokushima, Shikoku, Japan

03/11-13/08 Yoshitaka Noguchi, Surgical Spine, Inc., Japan

03/17-20/08 Junichiro Nakamura MD, Yokohama City University, Japan

03/17-20/08 Katsumi Kuge, Medtronic Manager, Yokohama City University, Yokohama, Japan

03/18/08 Wendell Moses MD, Thompson Children’s Hospital, Chattanooga, TN

03/08/08 Anthony Stans MD, Mayo Clinic, Rochester, MN

03/08/08 Christopher Sullivan MD, University of Chicago, Chicago, IL

04/09/08 Colleen Walters, Medtronic Sofamor Danek, Memphis, TN

04/21/08 Gorden Yee MD, Avista Hospital, Boulder, CO

04/21/08 Roy Haschenburger, Medtronic Sofamor Danek, Memphis, TN

04/28/08 Howard Place MD, St. Louis University, St. Louis, MO

04/28/08 Scott Hodges DO, Center for Sports Medicine & Orthopaedics, Chattanooga, TN

05/05-06/08 Ming Li MD, Changhai Hospital, Second Military Medical University, Shanghai, China

05/05-06/08 Qiang Fu MD, Changhai Hospital, Second Military Medical University, Shanghai, China

05/07-09/08 Jin-Hwan Kim MD, Emory Hospital, Atlanta, GA

05/12-14/08 Ahmad Nassr MD, Mayo Clinic, Rochester, MN

05/12-14/08 Robert Wienecke MD, Neuroscience Specialists, Oklahoma City, OK

05/12-14/08 Simon Salerno MD, Loma Linda Healthcare, Loma Linda, CA

05/14-16/08 Benjamin Roye MD, Mount Sinai School of Medicine, New York, NY

05/14-16/08 Khadid Sethi MD, Southern New York Neurosurgical Group, Johnson City, NY

05/14-16/08 Jeffrey Stambough MD, Orthopaedic Diagnostic & Treatment, Norwood, OH

05/19-23/08 Junlin Yang MD, The First Affiliated Hospital of Sun Yat-Sen University, Sun Yat-Sen, China

05/22/08 David Schiffman MD, Kaiser Permanente, Oakland, CA

05/29/08 Christopher Hamill MD, University at Buffalo, Amherst, NY

05/29/08 Christopher DeWald MD, Midwest Orthopaedics at Rush, Chicago, IL

06/09-13/08 Niall Eames MD, Royal Victoria Hospital, Belfast, Ireland

06/09-13/08 Alistair Hamilton MD, Royal Victoria Hospital, Belfast, Ireland

06/16/08 Kamal Ibrahim MD, M & M Orthopedics, Chicago, IL

06/16-17/08 Motohiro Okada MD, Emory Hospital, Atlanta, GA

06/16/08 Kosaku Higashino MD PhD, Emory Hospital, Atlanta, GA

06/16/08 Hui Liu, MD Emory Hospital, Atlanta, GA

07/03/08 Yevgenity (Eugene) Gitelman, WUSM student, St. Louis, MO

07/17/08 Miguel Ferreira MD, Hospital Curry Cabral, Lisbon, Portugal

07/17/08 Nelson de Carvalho MD, Hospital Curry Cabral, Lisbon, Portugal

07/17/08 Luis Torres MD, Hospital Pedro Hispano, Matosinhos, Portugal

07/17/08 Manuela Schaflechner, Medtronic Sofamor Danek, Portugal

07/30-08/01/08 Mark Weston MD, Portland Spine & Neck Surgery, Portland, OR

07/30-08/01/08 Ki Soo Hwang MD, St. Joseph’s Regional Medical Center, Paterson, NJ

07/30-08/01/08 Yousif Hamati MD, FACS, Mercy Granada Military University, Bogotá, Colombia

08/04/08 Steve Polkosky, Medtronic Sofamor Danek, Memphis, TN

08/04-29/08 Juan Carlos Oviedo MD, Clinica Central del Quindio, Armenia, Quindio, Colombia

08/04-08/08 Mauro Román Tropini MD, Austral University Hospital, Pilar, Buenos Aires, Argentina

08/04-08/08 Raul Furmento MD, Austral University Hospital, Pilar, Buenos Aires, Argentina

08/18-20/08 David Polly, Jr. MD, University of Minnesota, Minneapolis, MN

08/28/08 Peter Sturm MD, Shriners Hospital for Children, Chicago, IL

08/28/08 Jonathan Lewin MD, Northshore Forest Hills, New York, NY

08/28-29/08 Bo Okubadejo MD, Hospital for Special Surgery, New York, NY

09/03-26/08 Feng Li, MD Tongji Medical College, Wuhan, China

09/15-19/08 Étienne Coetzee MD, University of Cape Town, Cape Town, South Africa

09/15-19/08 Robert Dunn MD, University of Cape Town, Cape Town, South Africa

09/15-19/08 Hans Snyckers MD, Pretoria Academic Hospital, Pretoria, South Africa

09/15-19/08 Kun-Woo Park MD, Seoul National University, Bundang Hospital, Gyeonggi-do, Seoul, Korea

09/15-26/08 Thomas Kishen MD, St. George Hospital, Sydney, Australia

10/16/08 Rick Bowen MD, Shriners Hospital for Children, Los Angeles, CA

10/20-24/08 Stefano Boriani MD, Ospedale Maggiore, Bologna, Italy

10/21/08 Amr Abdelgawad MD, Rainbow Babies & Children’s Hospital, Cleveland, OH

10/27-29/08 Paul Dernbach MD, Collier Neurologic Specialists, Naples, FL

10/27-29/08 Eric Hooley MD, Canyon Orthopaedics, Logan, UT

10/27-29/08 Michael Chapman, Medical Associates Clinic, Dubuque, IA

10/29-31/08 John Labiak MD, Scoliosis & Spinal Surgery Institute, Smithtown, NY

10/29-31/08 Daniel Lee MD, Nevada Orthopedic and Spine Center, Las Vegas, NV

10/29-31/08 Michael Thomas MD, Nevada Orthopedic and Spine Center, Las Vegas, NV

10/29-31/08 Jeffrey McConnell MD, Pennsylvania Spine and Scoliosis Institute, Allentown, PA

11/04-5/08 Jin-Uk Kim MD, Wooridul Spine Hospital, Seoul, Korea

11/04-13/08 John Street MD, Vancouver General Hospital, Vancouver, British Columbia, Canada

11/04-26/08 Sang Hyun Kim MD, Ajou University School of Medicine, Yeongtong-Gu, Suwon, Korea

11/04-26/08 Hoon Kim MD, Ajou University School of Medicine, Yeongtong-Gu, Suwon, Korea

11/10/08 Kurt Von Rueden MD, SpineAustin, Austin, TX

11/24/08 David Stevens MD, Lake View Hospital, Bountiful, UT

11/24/08 William Stevens MD, Scottsdale Healthcare, Scottsdale, AZ

11/25-26/08 Sergey Mlyavykh MD, Nizhni Novgorod Research Institute, Russia

01/05-07/09 Ashish Sahai MD, West Boca Medical Center, Boca Raton, FL

01/05-07/09 Stephen Falatyn MD, OAA Orthopaedic Specialists, Allentown, PA

01/05-07/09 Kevin Morrill MD, University of Texas, Southwestern Medical Center, Dallas, TX

01/07-09/09 Gary Colon MD, Collier Neurologic Specialists, Naples, FL

01/07-09/09 Curt Freudenberger MD, Sportsmed Orthopaedic Surgery and Spine Center, Huntsville, AL

01/07-09/09 Michael Gerling MD, SUNY Downstate Medical Center, Brooklyn, NY

01/12-16/09 Adrian Gardner FRCS, Leads Teaching Hospital, United Kingdom

01/12-16/09 Jae Taek Hong MD, Catholic University, St. Vincent Hospital, Yeongtong-Gu, Suwon, Korea

01/12-30/09 Toshiaki Kotani MD, Seirei Sakura Citizen Hospital, Sakura, Chiba, Japan

01/22/09 Thomas Errico MD, New York University, Langone Medical Center, New York, NY

01/22/09 Baron Lonner MD, Scoliosis Association, New York, NY

01/16/09 Jeff Phelps MD, North Richland Hills, VA

02/03-12/09 Wong Chung Chek MD, Sarawak General Hospital, Sarawak, Malaysia

02/03-12/09 Kwan Mun Keong MD, University of Malaya, Kuala Lumpur, Malaysia

02/09-12/09 Patrick Kiely MD, The Blackrock Clinic, Dublin, Ireland

02/09-3/13/09 Zhensheng Ma MD, Xijing Hospital, Fourth Military Medical University, Xi’An, ShaanXi, China

02/16-20/09 Kristian Hoy MD, Aarhus University Hospital, Aarhus, Denmark

03/02-06/09 Hongguang Xu MD, Yijishan Hospital, Wuhu, Anhui, China

03/09-13/09 Carlos Mounier MD, University Institute, CEMIC, Buenos Aires, Argentina

03/09-23/09 Xia Hong MD, Liu Hua Qiao Hospital, Guangzhou, Guangdong, China

03/26/09 C. William Bacon MD, Central Utah Clinic, Provo, UT

03/30/09 Michael Smith MD, Montefiore Medical Center, New York, NY

03/31/09 Clinton Devin MD, Vanderbilt University, Houston, TX

03/31/09 Edward Song MD, Center for Spinal Disorders, Phoenix, AZ

04/01-02/09 Shinjiro Kaneko MD, NHO Murayama Medical Center, Tokyo, Japan

04/06-08/09 Javier Garcia MD, The Lyerly Group, Jacksonville, FL

04/06-08/09 Anh Le MD, Dameron Hospital, Stockton, CA

04/06-08/09 Elian Shepherd MD, Southlake Methodist Hospital, Merrillville, IN

04/08-09/09 Allan Beebe MD, Cardinal Orthopaedic Institute, Columbus, OH

04/08-09/09 Stephen Enguidanos MD, Twin Cities Hospital, Richmond, VA

04/08-09/09 Christopher Kim MD, Chippenham Hospital, Richmond, VA

04/08-09/09 Jan Klamar MD, Cardinal Orthopaedic Institute, Columbus, OH

04/20-24/09 Mauricio Montalvo MD, Shriners Hospital for Children, Mexico City, Mexico

04/21/09 David Zaleske MD, Children’s Hospital, Minneapolis, MN

04/21/09 Janet Walker MD, Shriners Hospital for Children, Lexington, KY

04/05-10/09 Massimo Balsano MD, Hospital of Thiene, Vicenza, Italy

04/05-10/09 Pier Paolo Mura MD, Santelena General Clinic, Rome, Polo Pontino, Italy

05/06/09 Ki Hon Lin MD, Phoebe Putney Memorial Hospital, Albany, GA

05/11-14/09 Alessandro Gasbarrini MD, Hospital Maggiore, Bologna, Italy

05/11-14/09 Federico De Iure MD, Hospital Maggiore, Bologna, Italy

05/21/09 Joshua Klatt MD, University of Utah, Salt Lake City, UT

05/21/09 Michael Luckett MD, (private practice), Great Falls, MT

06/08/09 Ankur Gupta MD, The Spine Clinic, Kanpur, India

06/15-16/09 Harel Arzis MD, University of Kansas Medical Center, Kansas City, KS

06/15-19/09 David Buzek MD, Faculty Hospital, Darvina, Czech Republic

06/15-26/09 Baron Zarate MD, Instituto Nacional de Rehabilitacion, Mexico

06/23/09 Kan Min MD, Uniklinik Balgrist, Zurich, Switzerland

06/23/09 David Marks FRCS, The Royal Orthopaedic Hospital, Birmingham, England

06/23/09 Jonathan Spilsbury FRCS, The Royal Orthopaedic Hospital, Birmingham, England

06/25/09 Raymund Woo MD, University of Florida, Jacksonville, FL

06/29-07/03/09 Mario Ver MD, St. Luke’s Medical Center, Quezon, Philippines

07/01/09 Stephen Pirris MD, Jacksonville, FL

07/06-10/09 Sergio Murilo MD, Universidade Federal Da Bahia, Salvador, Bahia, Brazil

07/06-10/09 Ricardo Cotias MD, Universidade Federal Da Bahia, Salvador, Bahia, Brazil

07/08/09 Jeetendra Bharadwaj, Medtronic, Memphis, TN

07/08/09 Brad Steele, Medtronic Spinal & Biologics, Memphis, TN

07/08/09 Erwin Sahagun, Medtronic Spinal & Biologics, Memphis, TN

07/08/09 Brett Malsom, Medtronic Spinal & Biologics, Memphis, TN

07/08/09 Bryan Wilcox, Medtronic Spinal & Biologics, Memphis, TN

07/20/09 Michael Catino MD, Presbyterian Hospital, Denton, TX

07/20-28/09 Nigel Gummerson FRCS, Sheffield Children’s NHS, Sheffield, England

09/28-10/02/09 Yong Qiu MD, Drum Tower Hospital, Nanjing, China

09/28-10/02/09 Zhu Feng MD, Drum Tower Hospital, Nanjing, China

09/28-10/02/09 Bin Wang MD, Drum Tower Hospital, Nanjing, China

09/28-10/02/09 Xuesong Zhang MD, General Hospital of PLA, Beijing, China

09/28-10/02/09 Wang Zheng MD, General Hospital of PLA, Beijing, China

10/14-10/16/09 John Grimm MD, Tri-State Orthopedic Surgeons, Evansville, IN

10/20-22/09 Oheneba Boachie-Adjei MD, Hospital for Special Surgery, New York, NY

11/02-05/09 Sumon Bhattacharjee MD, NeuroScience Group of North East Wisconsin, Neenah, WI

11/04-05/09 Hooman Melamed MD, Cedars-Sinai Medical Center, Los Angeles, CA

11/04-05/09 Mark Rahm MD, Scott & White Memorial Hospital, Temple, TX

11/09-12/09 Mario Herrera MD, Fundacion Universitaria de Ciencias de La Salud, Bogota, Colombia

11/24/09 Jaclyn Larson, Medtronic Spinal & Biologics, Memphis, TN

11/24/09 Michelle Hennard, Medtronic Spinal & Biologics, Memphis, TN

11/30/09 Saad Khairi MD, Indianapolis Neurosurgical Group, Indianapolis, IN

12/09-10/09 Fernando Silva MD, North Texas Neurosurgical and Spine Center, Fort Worth, TX

12/10/09 Mark Rahm MD, Scott & White Memorial Hospital, Temple, TX

12/14-18/09 Alejo Vernengo-Lezica MD, San Isidro Children’s Hospital, San Isidro, Argentina

01/11-13/10 David Antezana MD, Microneurosurgical Consultants, PC, Portland, OR

01/11-21/10 Luís Eduardo Carelli MD, Trauma-Ortho National Institute, Rio de Janeiro, Brazil

01/25-27/10 Gus Halamandaris MD, Central Coast Brain and Spine Associates, Monterey, CA

01/25-27/10 Mark Howard MD, Salinas Valley Memorial Hospital, Salinas, CA

01/25-27/10 Greg Mundis MD, Scripps La Jolla Memorial Hospital, La Jolla, CA

01/27-29/10 Jason Gallina MD, Hospital for Joint Disease, New York, NY

01/27-29/10 Ashvin Patel MD, Kennedy White Orthopaedic Center, Sarasota, FL

01/27-29/10 Daniel Sciubba MD, Johns Hopkins, Baltimore, MD

01/27-29/10 Shuriz Hishmeh MD, Beth Israel, New York, NY

02/01-12/10 Fang Huang MD, Tongji Hospital, Huazhong University of Science and Technology, Wuhan, Hubei, China

02/23/10 Fernando Silva MD, North Texas Neurosurgical & Spine Center, Fort Worth, TX

02/25/10 Gus Halamandaris MD, Central Coast Brain and Spine Associates, Monterey, CA

03/01-05/10 Ram Chaddha MD, Lilavati Hospital and Research Center, Bandra, India

03/01-05/10 Johari Navratnamal MD, Children’s Orthopaedic Center, Mumbai, India

03/15-26/10 Ning Xie MD, Changzheng Hospital, Huangpu, Shanghai, China

03/16-17/10 Lodewijk van Rhijn MD, University Hospital Maastricht, Maastricht, Netherlands

03/22-23/10 Adam Barmada MD, Legacy Emanuel Hospital, Portland, OR

03/22-26/10 Dror Ovadia MD, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

03/29-4/23/10 Rohit Amritanand MD, Christian Medical College, Vellore, India

04/14/10 Christopher Good MD, Virginia Spine Institute, Restin, VA

04/19-23/10 Mario Di Silvestre MD, Instituto Ortopedico Rizzoli, Bologna, Italy

04/19-23/10 Wilmer Codoy Carrero MD, Clinica Martha, Villavicencio, Colombia

04/19-23/10 Pedro Fernandes MD, University Hospital Santa Maria, Lisbon, Portugal

05/03-05/10 Antony Kallur MD, AI DuPont Children’s Hospital, Hockessin, DE

05/05-06/10 Joseph O’Brien MD, George Washington University Hospital, Washington, DC

05/12/10 Richard McCarthy MD, Arkansas Children’s Hospital, Little Rock, AR

05/24-28/10 Christian Gross MD, Charité University Medicine, Berlin, Germany

06/21-25/10 Soumajit Basu MD, Kothari Medical Center, Calcutta, India

07/14-15/10 Luca Proietti MD, Catholic University, Rome, Italy

07/14-15/10 Francesco Tamburelli MD, Policlinico Genelli, Rome, Italy

07/14/10 John Grimm MD, Tri-State Orthopaedics, Indianapolis, IN

08/23-24/10 Christopher Noonan MD, Orthopedic Spine Associates, Eugene, OR

09/27-29/10 Abid Qureshi MD, Muir Orthopaedic Specialists, Walnut Creek, CA

10/11-14/10 Yu Yang MD, Nanjing Drum Tower Hospital, Nanjing, China

10/11-14/10 Bangping Qian, MD, Nanjing Drum Tower Hospital, Nanjing, China

10/11-14/10 Amit Jhala MD, Chirayu Orthopaedic and Spine Hospital, Gujarat, India

10/13/10 Barney Carter, Medtronic Spinal & Biologics, FL

10/13/10 Chris Fair, Medtronic Spinal & Biologics, FL

10/14/10 Matthew Berchuck MD, Orthopaedic Surgeons East, Birmingham, AL

10/18/10 Jared Brandoff MD, North Shore University Hospital, Great Neck, NY

10/18-21/10 Ricardo Restrepo MD, Fundación Cardio Infantil, Bogota, Cundinamarca, Colombia

10/18-21/10 Leonardo Duplat MD, Fundación Cardio Infantil, Bogota, Cundinamarca, Colombia

10/18-11/12/10 Yongming Xi MD, Qingdao University, Qingdao, Shandong, China

11/01-04/10 Yoran Andekstein MD, ASSAF - Harofeh Medical Center, Zerifin, Israel

11/01-04/10 Nissim Ohana MD, Rabin Medical Center, Petach-Tikva, Israel

12/02/10 Nils Hansen-Algenstaedt MD, University Medical Center, Hamburg, Germany

12/02/10 Hazeem Ahmed, MD Loyola University Medical Center, Maywood, IL

12/09/10 Henry Iwinski MD, Shriners Hospital for Children, Lexington, KY

12/09/10 John Churchill MD, Pediatric Orthopaedics of Southwest Florida, Ft. Myers, FL

12/09/10 Thomas Dempsey MD, Alabama Orthopaedic Clinic, P.C., Mobile, AL

01/03-28/11 Fangcai Li MD, The Second Affiliated Hospital of Zhejiang University School of Medicine, Zhejiang, China

02/22-3/16/11 Xiao-Dong Zhu MD, The Second Military University, Shanghai, P.R. China

02/22-3/18/11 Piotr Harasymczuk MD, University of Medical Sciences, Poznan, Poland

03/07-18/11 Manuel Aparicio MD, Shriners Hospital for Children, Mexico City, Mexico

03/28/11 Shyam Kishan MD, Indiana University, Indianapolis, IN

04/04-05/11 Frank Hassel MD, Helios Rosmann Klinik in Breisach, Germany

04/04-05/11 Bernd Wiedenhoeer MD, University Hospital of Heidelberg, Heidelberg, Germany

04/14/11 Allan Beebe MD, Nationwide Children’s Hospital, Columbus, OH

04/18-21/11 Ibrahim Omeis MD, Baylor College of Medicine, Houston, TX

04/26/11 Joseph Davey MD, Oklahoma University Health Science Center, Oklahoma City, OK

04/26/11 Chris Johnson, Medtronic Spinal & Biologics, Memphis, TN

04/26/11 Alison Powers, Medtronic Spinal & Biologics, Memphis, TN

05/02-05/11 Hongbo Liu MD, Mayo Clinic, Rochester, MN

07/18-29/11 Vikas Tandon MD, Indian Spinal Injuries Center, New Delhi, India

07/25-29/11 Norimitsu Wakao MD, Nagoya University School of Medicine, Showa-ku, Nagoya, Aichi, Japan

08/11/11 Christopher Hamill MD, State University of New York at Buffalo, Buffalo, NY

08/15-19/11 Ravel John Sewchand Ramlakan MD, Kingsway Hospital, Amanzintoti, Durban, South Africa

08/15-09/02/11 Bhavuk Garg MD, Postgraduate Institute of Medical Education and Research, Chandigarh, Punjab, India

09/01-09/12/11 Gabriel Piza MD, Hospital Universitari Son Dureta, Palma, Spain

09/26-10/15/11 Hongguang Xu MD, Yijishan Hospital, Wuhu, Anhui, China

10/17-19/11 Sven Kevin Tschoke MD, University Hospital Leipzig, Leipzig, Germany

10/17-19/11 Jens Seifert MD, Orthopaedic Clinic of University Hospital Carl Gustav Carus, Dresden, Germany

10/17-19/11 Mario Dittman, Medtronic, Germany

10/24-28/11 Javier Cobo-Soriano MD, Rúber International Hospital, Madrid, Spain

10/24-28/11 Marcos Sendino MD, Hospital Ramon y Cajal, Madrid, Spain

11/14-23/11 Yan Zeng MD, Peking University Third Hospital, Beijing, China

11/15/11 George Thompson MD, Rainbows & Babies Children’s Hospital, Cleveland, OH

11/17/11 Alison Powers, Medtronic Spinal & Biologics, Memphis, TN

01/03-13/12 Asdrubal Falavigna MD, University of Caxias do Sul Medical School, Caxias do Sul, Brazil

01/03-17/12 Darren Lebl MD, Hospital for Special Surgery, New York, NY

01/09-10/12 Erik Fritzche MD, Wandsbek Hospital, Hamburg, Germany

01/10/12 Philip O. S. Kunkel MD, Altona Children’s Hospital, Hamburg, Germany

01/12-13/12 Frank Gossé MD, Medical University of Hannover, Hannover, Germany

01/12-13/12 Almut Scheiber, Medtronic Representative, Hannover, Germany

01/23-24/12 Anthony Sin MD, LSUHSC – Shreveport, Shreveport, LA

01/23-2/3/12 Harel Arzi MD, Haim Sheba Medical Center, Tel-Sashomer, Israel

03/12-14/12 Seamus Morris MD, Azienda University Hospital of Siena, Siena, Italy

03/14-15/12 Francesco Cacciola MD, University Hospital Siena, Italy

03/26-28/12 Jason Lowenstein MD, Spine Austin, Austin, TX

03/26-28/12 Yousuf Ali MD, Bangabandhu Sheikh Mujib Medical University, Shahbag, Datta

04/09-11/12 Scott Russo MD, Orthopaedic Associates of Michigan, Grand Rapids, MI

04/23-24/12 Ignacio Dockendorff MD, Clinica Alemana, Santiago de Chile, Chile

04/23-05/04/12 Murilo Daher MD, Federal University of Goiás-UFG, Brazil

04/23-05/04/12 Raphael Pratali MD, Hospital Sirio-Libanes, San Paola, Brazil

05/21-25/12 Tenner Guillaume MD, Gillette Children’s Specialty Healthcare, St. Paul, MN

05/29-31/12 Shu-Hua Yang MD, National Taiwan University Hospital, Taiwan

06/13-14/12 Neil Davidson MD, Royal Liverpool Children’s Hospital, Liverpool, England

06/13-14/12 Colin Bruce MD, Royal Liverpool Children’s Hospital, Liverpool, England

06/18-20/12 J. Scott Schoeb MD, New Jersey Spine Center, Chatham, NJ

07/02-13/12 Jorge Alves MD, Centro Hospitalar do Tamega e Sousa, Penafiel, Portugal

07/23-26/12 Javier Pizones Arce MD PhD, Hospital University Getafe, Spain

07/23-26/12 Enrique Izqierdo MD, Hospital University Getafe, Spain

06/13-17/12 Juan Pablo Guyot MD, Hospital Universitario Fundación Favaloro, Buenos Aires, Argentina

08/13-17/12 Guillermo Holtmann MD, Milstein Hospital, Buenos Aires, Argentina

09/10-18/12 Hyounmin Noh MD, University of Ulsan College of Medicine, Seoul, South Korea

09/10-18/12 Chang Ju Hwang MD, University of Ulsan College of Medicine, Seoul, South Korea

09/10-21/12 Antonio Hurtado MD, Lomas Verdes Trauma and Orthopedic Center, Lomas Verdes, Mexico

09/10-21/12 Alfredo Moheno MD, Trauma and Orthopaedic Surgery Hospital, Mexico

09/25-27/12 Ryan Ilgenfritz MD, University of Iowa Hospitals and Clinics, Iowa City, IA

10/08-10/12 Zachariah George MD, Neurologic Surgery, P.C., Smithtown, NY

10/08-10/12 Todd Weisbrot Medtronic Spinal & Biologics/Spinal Associates, Ltd., Mineola, NY

11/05-09/12 Marko Neva MD PhD, Tampere University Hospital, Tanpere, Finland

11/12-1/11/13 Keyi Yu MD, Peking Union Medical Center Hospital, Beijing, PR of China

01/07-17/13 Xuexiao Ma MD, Hospital of Medical College, Qingdao University, Qingdao, Shandong, PR of China

01/07-17/13 Qingyi He MD, The Southwest Hospital, Chongqing, Sha Ping Ba, P. R. of China

02/04-08/13 Thomas Faciszewski MD, Marshfield Spine, Marshfield Clinic, Marshfield, WI

02/18-22/13 K. Appaji Krishnan MD, Apollo Hospitals Chennai, Andhra Pradesh, India

02/19/13 John Grayhack MD, Children’s Memorial Hospital, Chicago, IL

02/21-22/13 Sung-Shik Kang MD, Pusan National University, Yangsan Hospital, Yangsan, Korea

02/26/13 Gary Brock, MD Texas Orthopedic Hospital, Fondren Orthopedic Ltd., Houston, TX

03/04-06/13 Fernando Herrero MD, de Universidad de Ribeirão Preto, University of São Paulo, Brazil

03/05/13 Si Young Park MD PhD, Korea University, College of Medicine, Seongbukgu, Seoul, Korea

03/22-25/13 Junghoon Lee MD PhD, Wooridul Spine Hospital, Gangseogu, Seoul, Korea

04/15-16/13 Sumon Bhattacharjee MD, Neuroscience Group, Neenah, WI

04/15-24/13 Samer Samy MD, Alexandria University Student Hospital, Alexandria University, Alexandria, Egypt

04/22-23/13 Andrew Cree MD, Royal Alexandra Children’s Hospital, Sydney, Australia

05/06/13 Andreas Tomac MD PhD, Florida Spine Institute, Port Charlotte, FL

05/06-07/13 Sebastien Charosky MD, Spine and Scoliosis Center Polyclinique du Parc, Toulouse, France

05/21-22/13 Florian Geiger MD, The University of Frankfort, Frankfort, Germany

05/27-06/14/13 Aaron Hilis, MD Hospital de Braga, Sete Fontes – São Victor, Braga, Portugal

07/29-31/13 Fernando Silva MD, North Texas Neurosurgical & Spine Center, Fort Worth, TX

07/22-08/02/13 Asdrubal Falavigna MD, Universidade de Caxias do Sul – UCS, São Paulo, Brazil

07/30-08/01/13 Fernando Herrero MD, University of Medicine, Ribeirao Preto, USP, Brazil

07/30-08/01/13 Mario Daher MD, University of Medicine, Ribeirao Preto, USP, Brazil

08/12/13 Ripul Panchal DO, University of California, Davis Medical Center, Sacramento, CA

08/26-30/13 Federico Lizarraga MD, Dr. Rafael Guerra Mendez, Medical Center, Valencia, Venezuela

08/26-30/13 Guillermo Alvarez MD, Dr. Rafael Guerra Mendez, Medical Center, Valencia, Venezuela

09/09-13/13 Stefano Bandiera MD, A. S. L. Città di Bologna, Maggiore Hospital, Bologna, Italy

09/10/13 Rene Castelein MD PhD, Universitair Medisch Centrum, Utrecht, Netherlands

09/23-26/13 Ian Neil MD, Tygerberg Academic Hospital and Stellenbosch Mediclinic, South Africa

09/23-10/25/13 Hazem Nicola MD, Clìnica Sanatrix, Caracas, Venezuela

10/07-11/13 Javier Pizones Arce MD, Spine Unit, Hospital University, Getafe, Spain

10/28-31/13 Gerd Bordon MD PhD, Hospital de Manises, Valencia, Spain

10/28-31/13 Domingo Iglesias MD, Hospital Xeral-Calde, Lugo, Galicia, Spain

11/04/13 Matthew Mermer MD, Roseville Medical Center, Roseville, CA

11/04-12/31/13 Baher Labib MD, Cairo University, Cairo, Egypt

11/07/13 Kevin M. Neal MD, Nemours Children’s Clinic, Jacksonville, FL

11/11/13 Scott Russo MD, Orthopaedic Specialists of Michigan, Grand Rapids, MI

11/18-22/13 Johan Davis MD, Stellenbosch Mediclinic, Stellenbosch, Western Cape Province, South Africa

11/25/13 Jonathan Fuller MD, Nebraska Spine Center, L.L.C., Omaha, NE

12/02-21/13 Paulo Coutinho MD, Braga University Hospital, Braga, Portugal

01/06-10/14 Galina Polevaya PA, Springfield Clinic, Springfield, IL

01/06-10/14 Andreas Zeugner MD, Regional Hospital Buchen/Odenwald, Neckar-Odenwald, Baden-Württemberg, Germany

07/27-27/14 Kyle Mitsunaga MD, Bone and Joint Clinic Of Hawaii, Honolulu, HI

02/03-04/14 Marc Dreimann MD, Werner Wicker Klinik, Bad Wildungen, Germany

02/03-04/14 Hans-Peter Köhler MD, Neurosurgery University Hospital Lübeck, Güstrow, Germany

02/06-07/14 David Roberts MD, NorthShore University Health System, Evanston, IL

02/18-27/14 Sreedharan Namboothiri MD, Kovai Medical Center and Hospitals, Coimbatore, Tamil Nadu, India

02/24/14 Kirkham Wood MD, Massachusetts General Hospital, Boston, MA

02/24-03/05/14 Michio Hongo MD, Akita University School of Medicine, Akita City, Japan

02/27/14 Scott Russo MD, Orthopaedic Associates of Michigan, Grand Rapids, MI

02/27/14 John Regan MD, Spine Group Beverly Hills, Beverly Hills, CA

02/27/14 Leok Lim Lau MD, Nemours/AI duPont Hospital for Children, Wilmington, DE

02/27/14 C. William Bacon MD, Central Utah Clinic, Provo, UT

04/21-05/14/14 Haruki Funao MD, John’s Hopkins University, Baltimore, MD

04/28-05/02/14 Domingo Lombao MD, Lucus Augusti University Hospital, Lugo, Spain

05/05-07/14 Luis Ferraris MD, German Scoliosis Center, Bad Wildungen, Germany

05/05-07/14 Axel Hempfing MD, German Scoliosis Center, Werner Wicker Klinik, Bad Wildungen, Germany

05/07/14 Kirkham Wood MD, Massachusetts General Hospital, Boston, MA

05/20-21/14 Shadi Shararah MD, Leopoldina Krankenhaus Hospital, Schweinfurt, Germany

05/19-30/14 Ranjith Aunnikrishnan MD, Kerala Institute of Medical Sciences (KIMS), Kerala, India

06/02-13/14 Joseph Butler MD, Cappagh National Orthopaedic Hospital, Dublin, Ireland

07/07-25/14 Ranjith Udayakumar MD, Rush University, Chicago, IL

08/04-08/14 Yongfei Zhao MD, New England Baptist Hospital, Boston, MA

08/11-15/14 Fernando Herrero MD, University of Medicine, Ribeirao Preto, USP, Brazil

08/11-10/31/14 Kamil Eyvazov MD, Gazi University Medical School, Ankara, Turkey

10/01-11/26/14 Xinyu Liu MD PhD, Qilu Hospital of Shandong University, Shandong, China

10/02/14 Greg Mundis MD, San Diego Center for Spinal Disorders, San Diego, CA

10/13-17/14 Mohamed Mossaad MD, Zagazig University, Zagazig, Ash Sharqiyah, Egypt

10/23/14 Theodore Belanger MD, Texas Back Institute, Rockwall, TX

12/08-13/14 Patricio Melero MD, Instituto Traumatológico, Santiago, Chile

12/09/15 Michael Drnek Thompson SCI, Salem, NH

01/05-16/15 Pawel Grabala MD, Children’s Hospital, Olsztyn, Poland

01/20-30/15 Pham Ty MD, Gia Lai Provincial General Hospital, Gia Lai province, Vietnam

01/27-28/15 Alexander Richter MD, Spine Centre Hamburg, Asklepios Klinik, St. Georg, Hamburg

02/02-13/15 Zhaomin Zheng MD, The First Affiliated Hospital of Sun Yat-sen University, Guangzhou, Guangdong, China

02/16-27/15 Xuhua Lu MD, Shanghai Chang Zheng Hospital, Shanghai, P. R. China

03/02-06/15 Domingo Lombao MD, Hospital Universitario Lucus Augusti, Spain

03/25-26/15 Jayesh Trivedi FRCS, Robert Jones & Agnes Hunt Orthopaedic Hospital NHS Foundation Trust, Oswestry, Shropshire, UK

03/26/15 Laurence Mermelstein MD, Long Island Spine Specialists, PC, Commack, NY

03/26/15 Hargovind DeWal MD, Long Island Spine Specialists, PC, Commack, NY

03/26/15 Darrell Hanson MD, Baylor College of Medicine, Houston, TX

05/11-15/15 Weihu Ma MD, The Sixth People’s Hospital, Ningbo, Zhejang, China

05/11-06/15/15 Shaoxiong Min, MD, Zhujiang Hospital, Southern Medical University, Guangzhou, China

06/04-30/15 Jun Zhu MD PhD, Rush University (visitor from China)

06/08-09/15 Mohamed Mossaad MD, Zagazig University, Zagazig, Ash Sharqiyah, Egypt

08/2 – 08/28/15 Shaoxiong MinMD, Zhujiang Hosp of Southern Med Univ, Guangzhou, China

09/1-09/18/15 Yushu Bai MD, Changhai Hospital/Second Military Medical University, Shanghai, China

09/1/15-08/31/16 Ho-Joong Kim MD, Seoul National Univ College of Medicine, Bundang Hosp, Seoul, S Korea

10/2-12/31/15 Degang Fan MD, Tangdu Hospital, China

10/25-11/7/15 Gaurav Raj Dhakal MD, Norvic Spine Clinic, Norvic International Hospital, Nepal

11/1/15-1/1/16 Le-qun Shan MD, Tangdu Hospital, The Fourth Military Medical University, China

11/1/15-1/1/16 Chen-Hung Tu MD, Kaohsiung Veterans Gen Hosp, Kaohsiung City, Taiwan

11/2-11/20/15 Anupreet Bassi MBBS, Singapore General Hospital, Singapore

11/15-12/15/15 Dalin Wang MD, Nanjing First Hospital,Nanjing Medical University, China

11/15- 12/15/15 Shengnai Zheng, Nanjing First Hospital,Nanjing Medical University, China

12/6-12/9/15 Hogaku Gen MD, Chiba Central Medical Centre, China

12/6-12/9/15 Takao Nakajima MD, Nippon Medical School Chiba Hokusoh Hospital, Japan

12/6-12/9/15 Kazuhiro Takeuchi MD, National Hospital Organization Okayama Medical Center, Japan

12/6-12/9/15 Hidetoshi Nojiri MD, Juntendo Tokyo Koto Geriatric Medical Center, Japan

1/2/16-7/2/16 Quentin Chometon, Clinical Researcher , EOS Imagining

2/8/16-3/30/16 Hamid Hassanzadeh MD, University of Virginia School of Medicine, Charlottesville, Virginia

2/29/16-3/31/16 Bachar Harfouch MD, King Fahad Specialist Hospital Dammam, Saudi Arabia

3/7/16- 3/16/16 Yoh Kumano MD, University of Tokyo Hospital, Japan

4/1/16-6/30/16 Islam Sorour MD, Alexandria University, Egypt

4/18/16-4/29/16 Domingo Lombao MD, Lucus Augusti Universitary Hospital, Spain

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5/16/16- 7/8/16 Eun-Sang Kim MD, Samsun Medical Center, Department of Neurosurgery, South Korea

5/22/16-6/13/16 Rahul Parmar MD, Smimer Surat Municipal Institute of Medical Education & Research Hospital, India

5/23/16-5/24/16 Umesh MetkarMD, Beth Isreal Deaconess Medical Center, Boston, SC

5/30/16-6/24/16 Carlos Romeiro MD, Hospital de Fraturas,Brazil

6/1/16-5/31/17 Masashi Tanaka MD, Red Cross Ostu Hospital, Japan

6/13/16-6/20/16 Leonardo Oggiano MD, Pediatric Hospital Bambino Gesu Palidoro, Italy

7/1/16-12/31/16 Che-Wei Liu MD, Cathay General Hosp, Taipei City, Taiwan

7/11/16- 7/11/16 Rick McCarthy MD, University of Arkansas for Medical Sciences, USA

7/11/16-7/12/16 Zheng Wang MD, General Hospital of People's Liberation Army China, China

7/11/16-7/12/16 Weibin Sheng MD, The First Affiliated Hosp. Xinjiang Medical University, China

7/11/16-7/12/16 Chao- Febg Guo MD, Xiangya Hospital Central South University, China

7/11/16-7/12/16 Yuxiang Wang MD, Dept of Spinal Surgery of Xiangya Hospital Central South University, China

7/11/16-7/12/16 Cao Yang MD, Dept of Orthopedic Surgery Union Hosp Tongji Medical College, China

7/11/16-7/12/16 Terry Jianguo Zhang,MD, Peking Union Medical College (PUMC) Hospital, China

7/11/16-7/18/16 Muhamed Mossaad,MD, Zagazig University, Egypt

8/1/16- 9/30/16 Jiawen Wu MD, Huizhou Municipal Central Hospital Dept of Spinal Surgery, China

8/1/16-7/31/17 Ekkapoj Korwutthikulrangsri MD, Siriraj Hospital, Mahidol University, Bangkok, Bankoknoi, Thailand

8/1/16-10/27/16 Ziqiang Chen MD, The First Affiliated Hospital Changhai Department of Spine, China

8/1/16-1/30/17 Chih-Chien Wang MD, Tri-Service General Hospitak, Taipei City, Taiwan

8/1/16- 1/31/17 Ming Yang MD, Xi'an Honghui Hospital,Xi'an Jiaotong University, China

8/15/16-8/26/16 Ali Maziad MD, California Spine Institute, Califonia,USA

8/22/16-8/25/16 Shin Byung-Joon MD, Soonchungyang University Hospital, Korea

9/5/16-10/30/16 Shan-Jin Wang MD, Shanghai East Hospital, China

10/3/16-10/21/16 Ahmad Allam MD, Minia University Hospital, Egypt

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11/16/16-11/23/16 Natascha Gomez MD

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11/14/16-12/12/16 Guibing Fu MD, Chiang Mai University, China

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12/18/16-11/30/17 Ming Yang MD, Xi'an Honghui Hospital,Xi'an Jiaotong University, China

1/4/17-7/3/17 Ying Zhang MD, 2nd Affiliated Hospital of Kunming Medical University, China

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6/1/17-11/30/17 Xu Sun MD, Nanjing Drum Tower Hospital, Medical School of Nanjing University,China

6/5/17-6/6/17 Clifford Lin MD, Oregon Health & Science University, USA

6/12/17-6/15/17 Cesare Faldini MD, Chairman of Dept of Ortho and Trauma Surgery, Italy

6/12/17-6/30/17 Miguel Angel Luna Ortiz MD, Hospital Regional Infantil Universetario Arturo Grullon, Dominican Rep.

7/15/17-9/15/17 Axel Garcia Villasenor MD, Ortho and Traumatology at the National Rehabilitation Institute, Mexico

7/24/17-7/28/17 Manish Kasliwal MD, University Hospitals Cleveland Medical Center, Ohio

8/1/17- 8/31/17 Nourollah Eshraghi, MD, Qom University of Medical Sciences, Iran

8/14/17-8/18/17 Huang Yunpeng MD, The First Affiliated Hospital of Fujian Medical University, China

8/21/17-9/1/17 Wang Xiang-Yang MD, The Second Affiliated Hosp. of Wenzhou Medical University, China

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10/2/17-10/30/17 Saifi Camron MD, University of Pennsylvania, USA

10/2/17-10/31/17 Melcher Carolin MD, Dept of Orthopedic Surgery University Hospital LMU Munich, Germany

10/10/17-10/12/17 Pumberger Matthias MD, Orthopedic Specialist, Germany

10/16/17-10/19/17 Siewe Jan MD, Germany

10/16/17-11/24/17 Oluwole Ige MD, Ondo State Trauma and Surgical Centre, Nigeria

11/1/17-3/1/18 Rongping Zhou MD, The Second Affiliated Hospital, NanChang University, China

11/6/17- 11/19/17 Xiao Qiang MD, People’s Hospital of Jiangxi Province. China

11/10/17-2/10/18 Fujang Cao MD, Tianjin Medical University General Hospital, China

12/1/17-11/30/18 Hui Wang MD, The Third Hospital of HeBei Medical University, China

12/1/17-12/30/18 Wenbo Lin MD, Shanghai Changzheng Hosptial The Second Military Medical University, China

1/2/18-2/28/18 Xiutong Fang, MD, Beijing Shijitan Hospital, Capital Medical University,China

2/5/18-2/16/18 Charbel Jacob, MD , USA

2/13/18-2/14/18 Yoav Ritter, MD, USA

3/5/18- 3/15/18 Bachar Hrfouch, MD, King Fahad Specialist Hospital Dammam, Saudia Arabia

3/26/18-4/26/18 Hongguang Xu MD, Archiater Yijishan Hospital, China

5/28/18-6/28/18 Shanglong Ning, MD, Tian Hospital, China

6/18/18–6/22/18 Takashi Chikawa, MD, Tokushima University, Japan

6/18/18–6/22/18 Takuya Mishiro, MD, Takamatsu Red Cross Hospital, Japan

7/23/18–8/20/18 Dhiraj Sonawane, MD, Grant Medical College, GT Hospital, & Sir JJ Group of Hospital, Mumbai, India

9/17/18-10/7/18 Xinyu Liu, MD, Qilu Hospital, Shandong University, China

9/17/18-11/2/18 Ronnachai Manopapraset,MD, Bangkok Metropolitan General Hospital, Thailand

9/21/18–9/30/18 Yesica Bolivar, MD, Valme University Hospital Seville Spain, Columbia

10/15/18-10/26/18 Eunsoo Park, MD, Daegu Wooridul Spine Hospital, Daegu, Korea

10/15/18-11/14/18 Siddharth Sanjay Shah, MD, Hinduja Hospital & Medical Research Centre, F.A.S.S.I , India

1/14/19-2/01/19 Fernando Nin, MD, Medica Uruguaya, Uruguay

1/18/19- 6/15/19 Chih-Chien Wang, MD, Tri-Service General Hospital, National Defense Medical Center,Taiwan

4/8/19- 4/8/19 Yakov (Jake) Gologorsky, MD, Metropolitan Neurosurgery Associates, USA

5/6/19-5/24/19 Serbes Gokhan, MD, Private Practice, Turkey

6/1/19 – 6/14/19 Dattaraj Sawarkar, MD, All India Institutes of Medical Sciences, India

6/1/19 – 7/31/19 Li-Kun Hung, MD, Taichung Veterans General Hospital, Taiwan

7/1/19 – 7/12/19 Nikhil Malewar, MD, A.K Medical Centre, New York

7/15/19 -8/15/19 Ting Wang, MD, The Affiliated Hospital of Qingdaw University, China

8/1/19 – 9/30/19 Shih Chen- Min, MD, Taichung Veterans General Hospital, Taiwan

8/5/19 – 9/30/19 Kazuaki Morizane, MD, Kyoto University Graduate School of Medicine, Japan

8/22/19 – 9/22/19 Yang Zongde, MD, Spine Surgery Dept. of Shanghai Hospital, China

9/2/19 – 9/17/19 Changhong Chen, MD , Jiangyin Affiliated Hospital, China

9/2/19 – 9/17/19 Guodong Sun, MD, First Affiliated Hospital of Jinan University, China

9/9/19 – 9/19/19 Igor Moura Mota, MD, Ribeirao Preto, Brazil

9/30/19 – 10/18/19 Patel Ankit, MD, K.E.M Hospital, India

10/14/19-11/6/19 He Wei, MD, Bejing Jishuitan Hospital, China

10/21/19-12/21/19 Daniel William Tan Yu, Philippine General Hospital, Philippine

11/1/19-11/27/19 Jarkko Halme, MD, University Hospital Kuopio, Finland

11/12/19-11/29/19 Abhishek Srivastav, MD, India

1/1/2020-2/9/2020 Anne Kathleen Ganal Antonio, MD, University of the Philippines College of Medicine, Philippine

1/1/2020-2/29/2020 Shanglong Ning, MD, Tianjin Hosptital, China

10/4/2022-10/21/2022 Muhammad AmmarHafeez Dogar, MD, Ghurki Trust Teaching Hospital, Parkistan

10/20/22 Jeffrey Joseph Settecerri, M.D, Oakland University William Beaumont School of Medicine, Rochester, MI

#### Industry Representatives and Vendors

02/25-28/03 Tsunehiko Ishikawa, Medtronic Sofamor Danek, Japan

02/25-28/03 Teruyuki Morita, Medtronic Sofamor Danek, Japan

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08/12/04 John Young, Medtronic Sofamor Danek, Memphis, TN

11/01/04 Paul Nichter, Medtronic Sofamor Danek, Memphis, TN

06/14/05 Frank Bono, Medtronic Sofamor Danek, Memphis, TN

08/02/07 Jesse Moore, Medtronic Sofamor Danek, Memphis, TN

08/17/07 Thu Nguyen, Medtronic Sofamor Danek, Chicago, IL

10/01/07 Jeetendra Bharadwaj, Medtronic Sofamor Danek, Memphis, TN

11/27/07 Benjamin Hogbin Medtronic Sofamor Danek, Memphis, TN

02/25/08 Ming Liu, Medtronic Sofamor Danek, Memphis, TN

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07/17/08 Manuela Schaflechner, Medtronic Sofamor Danek, Portugal

08/04/08 Steve Polkosky, Medtronic Sofamor Danek, Memphis, TN

07/08/09 Jeetendra Bharadwaj, Medtronic, Memphis, TN

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07/08/09 Brett Malsom, Medtronic Spinal & Biologics, Memphis, TN

07/08/09 Bryan Wilcox, Medtronic Spinal & Biologics, Memphis, TN

07/20/09 Michael Catino MD, Presbyterian Hospital, Denton, TX

10/13/10 Barney Carter, Medtronic Spinal & Biologics, FL

10/13/10 Chris Fair, Medtronic Spinal & Biologics, FL

04/26/11 Chris Johnson, Medtronic Spinal & Biologics, Memphis, TN

04/26/11 Alison Powers, Medtronic Spinal & Biologics, Memphis, TN

10/17-19/11 Mario Dittman, Medtronic, Germany

11/17/11 Alison Powers, Medtronic Spinal & Biologics, Memphis, TN

01/12-13/12 Almut Scheiber, Medtronic Representative, Hannover, Germany

10/08-10/12 Todd Weisbrot Medtronic Spinal & Biologics/Spinal Associates, Ltd., Mineola, NY

## V. EDITORIAL RESPONSIBILITIES

1. *Spine - Scoliosis Research Society issue*, associate ed, 28th Annual Meeting, Dublin, Ireland, 1993.
2. *Spine*, editorial board advisor, 1994-1999.
3. *Journal of Spinal Disorders and Techniques*, editorial board associate ed, 1995-Present.
4. *Atlas of Spine Surgery,* *Journal of American College of Surgery*, editorial reviewer, 1995.
5. *The Textbook of Spinal Surgery*, *Vols. 1 & 2*, 2nd Edition, associate ed. Bridwell KH, DeWald RL, eds., Lippincott-Raven, Philadelphia, PA, 130 chapters, 2389 pages, 1997.
6. *The Adult and Pediatric Spine* for *Orthopaedic Principles and Practices*, section ed. Dee R, ed., C.V. Mosby, St. Louis, MO, 7 chapters, 250 pages, 1997.
7. *Spinal Cord Monitoring* for *Seminars in Spine Surgery*, guest ed. Boden S, Wiesel S, eds., December 1997.
8. *Journal of Bone and Joint Surgery*, consultant reviewer, December 1998-Present.
9. *Spine Controversies,* spine section ed, June 1999.
10. *Spine*, associate editorial board, 1999-Present.
11. *Orthopaedic Knowledge Update (OKU) – VII*, section ed. Koval K, ed., *American Academy of Orthopaedic Surgeons*, 1999.
12. *spineuniverse.com*, associate editor, Internet publication, 1999-Present.
13. *Iscoliosis.com*, associate editor, Internet publication, 2000-2005.
14. *Thoracic Pedicle Screws* *Seminars in Spine Surgery*, guest ed. Boden S, Wiesel S, eds., 2002.
15. *Journal of the American Academy of Orthopaedic Surgeons*, reviewer, 2002-Present.
16. *Pediatric Spinal Deformity, Seminars in Spine Surgery*, guest ed. Boden S, Wiesel S, eds., 2003.
17. *The Spine Journal*, *North American Spine Society*, associate board, 2003-2004.
18. *The Spine Journal*, *North American Spine Society*, reviewer, 2003-Present.
19. *The Adult and Pediatric Spine*, *Third Edition, Volumes 1 & 2*. An HS, Boden SD, Lauerman WC, **Lenke LG**, McLain RF, associate eds. Frymoyer JW, Wiesel SW, eds., Lippincott Williams & Wilkins, Philadelphia, PA, 62 chapters, 1210 pages, 2004.
20. *Modern Anterior Scoliosis Surgery*. **Lenke LG**, Betz RR, Harms J, eds. Quality Medical Publishing, St. Louis, MO, 48 chapters, 68 contributors, 727 pages, 2004.
21. *Radiographic Measurement Manual*. Spinal Deformity Study Group (SDSG), O’Brien MF\*, Kuklo TR\*, Blanke KM, **Lenke LG**, eds. Medtronic Sofamor Danek, Memphis, TN, 6 chapters, 110 pages, 2004.
22. *Clinical Orthopaedics and Related Research*, reviewer, 2005-Present.
23. *The Spine Journal*, *North American Spine Society*, associate board, 2006-Present.
24. *Journal of Pediatric Orthopaedics*, consultant reviewer, 2006-Present.
25. *Journal of Pediatric Orthopaedics*, associate editorial board, 2007-2008.
26. *The Immature Spine, Journal of Bone and Joint Surgery*, co-ed, 2007.
27. *Spinal Deformity: A Guide to Surgical Planning & Management*. Mummaneni P, **Lenke LG**, Haid R, eds., Quality Medical Publishing, St. Louis, MO, 38 chapters, 79 contributors, 826 pages, 2008.
28. *Scoliosis*, *Society on Scoliosis Orthopaedic and Rehabilitation Treatment*, SOSORT official journal, editorial board, 2008-Present.
29. *The Lancet*, external clinical reviewer, 2008-Present.
30. *Backtalk*, *The Scoliosis Association*, professional advisory board, 2008-Present.
31. *CiOS, Clinics in Orthopedic Surgery*, *The Korean Orthopaedic Association*, ed, 2009.
32. *BioMed-series Journals*, reviewer, 2009-Present.
33. *Journal of Neurosurgery: Spine*, reviewer, 2011-Present.
34. *Journal of Orthopedic Research*, reviewer, 2011-Present.
35. *Journal of Neurosurgery: Spine*, associate board, 2012-2017.
36. *Spinal Deformity*, *Scoliosis Research Society*, deputy ed, 2012-Present.
37. *Spinal Osteotomy*. Wang Y, Boachie-Adjei O, **Lenke LG**, eds. Springer Science+Business Media Dordrecht, 21 chapters, 43 contributors, 277 pages, 2015.
38. *Rigid Spine Deformities: Strategy of Care, Medical and Surgical Option, Tips and Tricks*. Kaplan L, **Lenke LG**, eds. Thieme *(in progress winter 2012)*.
39. *AOSpine Masters Series*. guest ed, section 4: Adult Deformities. Thieme Publishers,
40. *CiOS, Clinics in Orthopedic Surgery*, *The Korean Orthopaedic Association,Vol. 7No. 4, December2015*
41. *The Korean Spinal Neurosurgery Society*, Volume 15 No.1 March 2018

## VI. COURSE CHAIRMAN

1. Spinal Surgery for Nurses and Allied Health Personnel, Sofamor-Danek Group, Memphis, TN, October 1998.
2. 6th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Vancouver, British Columbia, Canada, July 8-10, 1999.
3. Cervical Spine Instrumentation Principles and Techniques, PAWS, St. Louis, MO, August 1999.
4. 7th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Barcelona, Spain, July 2000.
5. Pedicle Fixation in the Thoracic Spine, Medtronic Sofamor Danek, Memphis, TN, September 22, 2000.
6. Classic and Contemporary Insights into Spinal Surgery, Group International Cotrel-Dubousset, New York, NY, December 8-9, 2000.
7. Advanced Pedicle Screw Instrumentation Mobile Unit, Medtronic Sofamor Danek, Memphis, TN, February 2001.
8. Complex Pediatric and Adult Spinal Deformity Reconstruction, Group International Cotrel-Dubousset, Washington University School of Medicine, St. Louis, MO, March 7-9, 2001.
9. Advanced Pedicle Screw Instrumentation Mobile Unit, Medtronic Sofamor Danek, Memphis, TN, May 2001.
10. 8th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Paradise Island, Bahamas, July 2001.
11. Thoracoscopic Spinal Surgery & Endoscopic Spinal Surgery, DePuy AcroMed, San Diego, CA, July 2001.
12. Advanced Pedicle Screw Instrumentation Mobile Unit, Medtronic Sofamor Danek, Half Moon Bay, San Francisco, CA, October 13, 2001.
13. Segmental, Regional, and Global Spinal Malalignment, Group International Cotrel-Dubousset, Chicago, IL, December 2001.
14. Advanced Pedicle Screw Instrumentation Mobile Unit, Medtronic Sofamor Danek, Ritz-Carlton, St. Louis, MO, February 2, 2002.
15. 9th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Montreux, Switzerland, May 23-29, 2002.
16. Global Spine: Surgical Principles and Latest Techniques, BroadWater, San Diego, CA, October 2002.
17. Anterior Deformity Course, Medtronic Sofamor Danek, St. Louis, MO, November 2002.
18. Advanced Pedicle Screw Course, Medtronic Sofamor Danek, St. Louis, MO, November 2002.
19. Advanced Concepts in Anterior Scoliosis Treatment & Advanced Techniques in Spinal Deformity Surgery, Medtronic Sofamor Danek, Half Moon Bay, CA, February 21-22, 2003.
20. Orthopedic and Neurosurgeons Equal Spinal Surgeons, Chicago, IL, April 2003.
21. Advanced Anterior and Posterior Spinal Deformity Techniques, Medtronic Sofamor Danek, Colorado Springs, CO, May 18-19, 2003.
22. Global Spine: Surgical Principles and the Latest Techniques, Dana Point, CA, June 27-29, 2003.
23. 10th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Rome, Italy, July 10-12, 2003.
24. Spinal Deformity Study Group Symposium: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Sofamor Danek, St. Louis, MO, November 13-15, 2003.
25. Advanced Anterior and Posterior Spinal Deformity Techniques, San Francisco, CA, February 27-28, 2004.
26. Sacral and Sacroiliac Fixation Focus Workshop, American Academy of Orthopaedic Surgeons, San Francisco, CA, March 10, 2004.
27. Global Spine: Surgical Principles and Latest Techniques, BroadWater, Chicago, IL, June 25-26, 2004.
28. 11th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Southampton, Bermuda, July 1-3, 2004.
29. Advanced Techniques in Spinal Deformity Surgery, Medtronic Sofamor Danek, Memphis, TN, July 16-17, 2004.
30. Spinal Deformity Study Group Symposium 2004: Emerging Trends and Advanced Surgical Techniques, Medtronic Sofamor Danek, St. Louis, MO, November 4-6, 2004.
31. Advanced Techniques in Pediatric Spinal Deformity Surgery, Medtronic Sofamor Danek, San Francisco, CA, March 4-5, 2005.
32. Spinal Deformity Study Group, Medtronic Sofamor Danek, San Diego, CA, April 28-30, 2005.
33. Advanced Techniques in Pediatric Spinal Deformity Surgery, Medtronic Sofamor Danek, Memphis, TN, May 20-21, 2005.
34. Pediatric Spinal Deformity Focus Meeting, Medtronic Sofamor Danek, Memphis, TN, May 23-24, 2005.
35. 9th Annual International Course on Global Spine: Spinal Motion, Fusion and Realignment, San Francisco, CA, June 24-26, 2005.
36. 12th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Banff, Alberta, Canada, July 7-9, 2005.
37. Asia Pacific Scoliosis Research Society Annual Meeting, Scoliosis Research Society, Jeju Island, Korea, August 25-27, 2005.
38. Aging Spine Program, North American Spine Society, Philadelphia, PA, September 26, 2005.
39. Degenerative Lumbar Scoliosis Seminar, North American Spine Society, Philadelphia, PA, September 29, 2005.
40. Training for Tomorrow’s Deformity Surgeon, Medtronic Sofamor Danek, San Diego, CA, October 16-18, 2005.
41. Immature Spine Symposium, Scoliosis Research Society, Miami, FL, October 27-30, 2005.
42. Spinal Deformity Study Group Symposium 2005: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Sofamor Danek, St. Louis, MO, November 10-12, 2005.
43. Spinal Deformity Study Group, Medtronic Sofamor Danek, Chicago, IL, December 1-3, 2005.
44. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Sofamor Danek, Scottsdale, AZ, February 17-19, 2006.
45. Spine Surgeon Transition Program, Fireside Series: Deformity surgery-is it right for your practice, Medtronic Sofamor Danek, Orlando, FL, March 17, 2006.
46. Pediatric Surgeon Spine Deformity, Medtronic Sofamor Danek, Memphis, TN, April 2-4, 2006.
47. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Sofamor Danek, Dallas, TX, April 28-29, 2006.
48. Global Spine - Techniques and Technologies from Skull to Sacrum, Medtronic Sofamor Danek, Las Vegas, NV, June 9-11, 2006.
49. 13th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Athens, Greece, July 12-15, 2006.
50. Training for Tomorrow’s Deformity Surgeons, Medtronic Sofamor Danek, Chicago, IL, August 27-29, 2006.
51. Spinal Deformity Study Group Symposium 2006: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Sofamor Danek, St. Louis, MO, November 2-4, 2006.
52. Spinal Deformity Study Group, Medtronic Sofamor Danek, Chicago, IL, November 30-December 3, 2006.
53. ONE Spine: Controversies in Spine Surgery 1st Annual Meeting, BroadWater, Cancun, Mexico, February 3-4, 2007.
54. Advanced Pediatric Spinal Deformity Course, Medtronic Spinal & Biologics, Scottsdale, AZ, February 23-24, 2007.
55. SRS Worldwide Regional Course/4th Chinese Scoliosis International Symposium, Scoliosis Research Society, Beijing, China, April 2-4, 2007.
56. Advanced Pediatric Spinal Deformity Course, Medtronic Spinal & Biologics, Dallas, TX, April 20-21, 2007.
57. Aging Spine Care: Cases in Surgical & Non-Surgical Management, Medtronic Spinal & Biologics, Chicago, IL, April 27-28, 2007.
58. Spinal Deformity Study Group, Medtronic Spinal & Biologics, Scottsdale AZ, May 10-12, 2007.
59. The Spine Summit: Emerging Technologies & Best Practices, BroadWater, Maui, HI, June 8-10, 2007.
60. Current Concepts & Techniques of Spinal Deformity, Medtronic Spinal & Biologics, Toronto, Canada, June 15-16, 2007.
61. Training for Tomorrow’s Deformity Surgeon, Medtronic Spinal & Biologics, Chicago, IL, June 24-26, 2007.
62. 14th International Meeting on Advanced Spine Techniques, BroadWater, Scoliosis Research Society, Paradise Island, Bahamas, July 11-14, 2007.
63. Spinal Deformity Study Group Symposium: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Spinal & Biologics, St. Louis, MO, November 8-10, 2007.
64. Spinal Deformity Study Group, Medtronic Spinal & Biologics, Chicago, IL, November 29-December 1, 2007.
65. ONE Spine: Controversies in Spine Surgery 2nd Annual Meeting, BroadWater, Cancun, Mexico, February 8-9, 2008.
66. Advanced Techniques in Deformity Surgery for Spine Surgeons, Medtronic Spinal & Biologics, Los Angeles, CA, February 15-16, 2008.
67. 19th Annual Spine Surgeons Transition Program’s Spine+Science+Management, Medtronic Spinal & Biologics, Memphis, TN, March 13-15, 2008.
68. Aging Spine Care, Medtronic Spinal & Biologics, Chicago, IL, April 4-5, 2008.
69. Spinal Deformity Study Group (SDSG), Medtronic Spinal & Biologics, Scottsdale, AZ, May 8-10, 2008.
70. 15th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Hong Kong, China, July 8-11, 2008.
71. Spinal Deformity Study Group (SDSG) Symposium: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Spinal & Biologics, St. Louis, MO, November 6-8, 2008.
72. ONE Spine: Controversies in Spine Surgery 3rd Annual Meeting, BroadWater, Cancun, Mexico, February 6-7, 2009.
73. Spinal Deformity Study Group, Medtronic Spinal & Biologics, Scottsdale, AZ, April 16-18, 2009.
74. ONE Spine: Controversies in Spine Surgery 4th Annual Meeting, BroadWater, Paradise Island, Bahamas, June 25-26, 2010.
75. First Annual ONE Spine Residents & Fellows Course, Seattle Science Foundation, Swedish Neuroscience Institute, Seattle, WA, August 20-22, 2010.
76. Spinal Deformity LIVE, BroadWater, St. Louis, MO, March 10-11, 2011.
77. Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society, Scoliosis Research Society, Burr Ridge, IL, April 29-30, 2011.
78. Second Annual ONE Spine Residents & Fellows Course, Seattle Science Foundation, Swedish Neuroscience Institute, Seattle, WA, August 19-20, 2011.
79. The 6th International Congress of Chinese Orthopaedic Association, Scoliosis Research Society, Beijing, China, December 1-2, 2011.
80. AOSpine Davos Course, Davos, Switzerland, December 11-16, 2012.
81. Evaluation and Treatment of Adult Spinal Deformity: Skull-to-Sacrum, North American Spine Society, Scoliosis Research Society, Burr Ridge, IL, March 16-17, 2012.
82. Spinal Deformity LIVE, BroadWater, Washington University School of Medicine, St. Louis, MO, April 19-20, 2012.
83. Third Annual ONE Spine Residents & Fellows Course, Seattle Science Foundation, Swedish Neuroscience Institute, Seattle, WA, August 17-19, 2012.
84. Masters Deformity Peer-to-Peer, DePuy Synthes Spine, Raynham and Boston, MA, September 28-29, 2012.
85. Global Faculty Training, Medtronic Spinal & Biologics, Dallas, TX, October 22-23, 2012.
86. Masters Deformity Peer-to-Peer, DePuy Spine, Raynham & Boston, MA, November 8-10, 2012.
87. Spinal Deformity LIVE, BroadWater, Washington University School of Medicine, St. Louis, MO, March 7-9, 2013.
88. Spine Subspecialty Day, Pediatric Orthopaedic Society of North America, American Academy of Orthopaedic Surgeons, Toronto, Ontario, Canada, May 3, 2013.
89. AOSpine Knowledge Forum Deformity Meeting, AOSpine, 20th IMAST, Vancouver, Canada, July 11, 2013.
90. Washington University Spine Fellow Reunion, BroadWater, Beaver Creek, CO, August 8-10, 2013.
91. Fourth Annual ONE Spine Resident’s & Fellow’s Course, Seattle Science Foundation, Swedish Neuroscience Institute, Seattle, WA, August 16-18, 2013.
92. 1st Spine Deformity Solutions: A Hands-On Course, American Association of Neurological Surgeons, Scoliosis Research Society, Chicago, IL, October 4-5, 2013.
93. Spine: Base to Summit, BroadWater, Beaver Creek, CO, January 17-20, 2014.
94. Spinal Pelvic Realignment in the Adult Spine, Medtronic Spinal & Biologics, Orlando, FL, February 21-22, 2014.
95. Spinal Deformity Live, BroadWater, Washington University School of Medicine, St. Louis, MO, February 28-March 1, 2014.
96. Spinal Deformity Complications & Revisions: Lessons Learned, Medtronic Spinal & Biologics, Dublin, Ireland, March 6-7, 2014.
97. Advanced Spinal Deformity Training, K2M, Washington, D.C., April 4-5, 2014.
98. Spinal Deformities Complications & Revisions LatAm: Lessons Learned, Medtronic Spinal & Biologics, Miami, FL, August 14-15, 2014.
99. 2nd Spine Deformity Solutions: A Hands-On Course, American Association of Neurological Surgeons, Scoliosis Research Society, Houston, TX, April 24-26, 2014.
100. Innovative and Advanced Surgery of the Degenerative and Deformed Lumbar Spine, PASE Course, St. Louis University, St. Louis, MO, October 2-4, 2014.
101. 3rd Spine Deformity Solutions: A Hands-On Course, American Association of Neurological Surgeons, Scoliosis Research Society, Burr Ridge, IL, October 9-11, 2014.
102. Spine: Base to Summit, BroadWater, Beaver Creek, CO, January 16-19, 2015.
103. Spinal Pelvic Realignment, Medtronic Spinal & Biologics, Phoenix, AZ, February 27-28, 2015.
104. 1st Annual International Spinal Deformity Symposium, BroadWater, Chicago, IL, December 4-5, 2015.
105. Spine: Base to Summit, BroadWater, Beaver Creek, CO, January 28-31, 2016.
106. 1st Annual Safety In Spine Surgery Summit, New York, NY, February 19th, 2016
107. Skull to Sacrum, Jersey City, NJ, Medtronic,March 31-April 2, 2016
108. Principles and Techniques of Complex Spine Reconstruction, Weill Cornell Medical College, New York,NY, April 9th,2016
109. Spine Surgery Live, Medtronic, The Spine Hospital, New York, NY April 1-2,2016
110. The Total Spine Series 2016, The Spine Hospital New York –Prebetyrian/ Allen,Live Surgery of PSO Spinal Reconstruction, New York,NY, April 18th,2016
111. 2nd Annual International Spinal Deformity Symposium. November 11-12,2016, Broadwater ,Chicago, IL
112. Spine: Base to Summit. January 26 – 29, 2017, Broadwater ,Beaver Creek, CO
113. 2nd Annual Safety in Spine Surgery Summit. February 10,2017, Broadwater ,New York, NY
114. Medtronic: Skull to Sacrum. September 21-23, 2017, Medtronic ,Jersey City, NJ
115. 3rd Annual International Spinal Deformity Symposium, November 3rd – 4th ,2017, Broadwater, Chicago, IL
116. Spine Base to Summit, Beaver Creek, CO, Broadwater, January 18-21, 2018
117. 35th Anniversary of the CD Correction Philosophy, January 25 - 26, 2018, Medtronic ,Athens, Greece
118. Decision Making for the Complex Pediatric & Adult Patient, February 16-17-2018, Westin Lake Las Vegas, Medtronic, Henderson, NV
119. Medtronic Surgery Observation Program. September 11-12, 2018, New York, NY
120. Skull To Sacrum, Medtronic, September 13-15, 2018, New York, NY
121. 4th Annual International Spinal Deformity Symposium (ISDS), Broadwater, November 30 - December 1, 2018, New York, NY.
122. Spine: Base to Summit 2019. January 18-21, 2019, Vail, CO
123. 4th Annual Safety in Spine Surgery Summit, April 26th, 2019, Broadwater, New York, NY
124. Medtronic: Skull to Sacrum. October 10-11, 2019, New York, NY
125. 5th Annual International Spinal Deformity Symposium (ISDS), December 6th-7th , 2019, New York,NY
126. 5th Annual Spine Safety Summit: March 23, 2020 New York, NY
127. Medtronic Global Webinar on COVID-19 & Spine Care Worldwide, April 28, 2020
128. Medtronic Skull to Sacrum 2020, November 13-14, 2020, Virtual
129. 6th Annual International Spinal Deformity Symposium (ISDS), December 4,2020, Asia Pacific; Europe; North and South America
130. 6th Annual Spine Safety Summit: March 2021, Virtual Course New York, NY
131. Medtronic Skull-Sacrum 2021, November 19, 20 2021 New York, NY

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1. 7Th Annual International Spinal Deformity Symposium (ISDS), New York, NY Dec 3rd/4th 2021
2. 7th Annual Spine Safety Summit (Virtual), April 14 and 28, 2022, New York, NY
3. Medtronic Skull to Sacrum 2022, November 11- 12, 2022, Chicago, IL
4. 8th Annual International Spinal Deformity Symposium (ISDS), Dec 2-3, 2022, New York, NY
5. Spine Masters Symposium on Spinal Deformity, Feb 2-4, 2023, Beaver Creek, CO
6. 8th Annual Safety in Spine Surgery Summit, April 15, 2023, New York,NY

## VII. PEER-REVIEWED PUBLICATIONS

1. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Analysis of pulmonary function and axis rotation in adolescent and young adult idiopathic scoliosis patients treated with Cotrel-Dubousset instrumentation. *J Spinal Disord* 1992;5(1):16–25
2. **Lenke LG**, Bridwell KH, Bullis D, Betz RR, Baldus C, Schoenecker PL. Results of in situ fusion for isthmic spondylolisthesis. *J Spinal Disord* 1992;5(4):433–42
3. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Cotrel-Dubousset instrumentation for adolescent idiopathic scoliosis. *J Bone Joint Surg Am* 1992;74(7):1056–67
4. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Preventing decompensation in King Type II curves treated with Cotrel-Dubousset instrumentation. Strict guidelines for selective thoracic fusion. *Spine* 1992;17(8):274–81S
5. Owen JH, Bridwell KH, **Lenke LG**. Innervation pattern of dorsal roots and their effects on the specificity of dermatomal somatosensory evoked potentials. *Spine* 1993;18(6):748–54
6. Kai Y§, Owen JH, **Lenke LG**, Bridwell KH, Oakley DM, Sugioka Y. Use of sciatic neurogenic motor evoked potentials versus spinal potentials to predict early-onset neurologic deficits when intervention is still possible during overdistraction. *Spine* 1993;18(9):1134–9
7. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Ability of Cotrel-Dubousset instrumentation to preserve distal lumbar motion segments in adolescent idiopathic scoliosis. *J Spinal Disord* 1993;6(4):339–50
8. Bridwell KH, Sedgewick TA‡, O’Brien MF\*, **Lenke LG**, Baldus C. The role of fusion and instrumentation in the treatment of degenerative spondylolisthesis with spinal stenosis. *J Spinal Disord* 1993;6(6):461–72
9. **Lenke LG**, Sutherland CJ, Gilula LA. Osteoid osteoma of the proximal femur: CT-guided preoperative localization. Case report. *Orthopedics* 1994;17(3):289–92
10. **Lenke LG**, Bridwell KH, Jaffe AS. Increase in creatine kinase MB isoenzyme levels after spinal surgery. *J Spinal Disord* 1994;7(1):70–6
11. Adams III JE, Sicard GA, Allen BT, Bridwell KH, **Lenke LG**, Dávila-Román VG, Bodor GS, Ladenson JH, Jaffe AS. Diagnosis of perioperative myocardial infarction with measurement of cardiac Troponin I. *N Engl J Med* 1994;330(10):670–4
12. O’Brien MF\*, Bridwell KH, **Lenke LG**, Schoenecker PL. Intracanalicular osteochondroma producing spinal cord compression in hereditary multiple exostoses. *J Spinal Disord* 1994;(3):236–4
13. **Lenke LG**, Bridwell KH, O’Brien MF\*, Baldus C, Blanke K. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. *Spine* 1994;19(14):1589–97
14. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Preoperative spinal canal investigation in adolescent idiopathic scoliosis curves ≥70°. *Spine* 1994;19(14):1606–10
15. O’Brien MF\*, **Lenke LG**, Bridwell KH, Padberg AM, Stokes M. Evoked potential monitoring of the upper extremities during thoracic and lumbar spinal deformity surgery: a prospective study. *J Spinal Disord* 1994;7(4):277–84
16. O’Brien MF\*, **Lenke LG**, Lou J, Bridwell KH, Joyce ME‡. Astrocyte response and transforming growth factor-beta localization in acute spinal cord injury. *Spine* 1994;19(20):2321–9S
17. Owen JH, **Lenke LG**, Danto J. Spinal cord monitoring in patients undergoing surgery for neuromuscular scoliosis. *Spine* 1994;19(20):2371–2S
18. Bridwell KH, O’Brien MF\*, **Lenke LG**, Baldus C, Blanke K. Posterior spinal fusion supplemented with only allograft bone in paralytic scoliosis. Does it work? *Spine* 1994;19(23):2658–66
19. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Analysis of pulmonary function and chest cage dimension changes after thoracoplasty in idiopathic scoliosis. *Spine* 1995;20(12):1343–50
20. Gelb DE\*, **Lenke LG**, Bridwell KH, Blanke K, McEnery KW. An analysis of sagittal spinal alignment in 100 asymptomatic middle and older aged volunteers. *Spine* 1995;20(12):1351–8
21. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Prospective analysis of nutritional status normalization after spinal reconstructive surgery. *Spine* 1995;20(12):1359–67
22. Bridwell KH, **Lenke LG**, McEnery KW, Baldus C, Blanke K. Anterior fresh frozen structural allografts in the thoracic and lumbar spine. Do they work if combined with posterior fusion and instrumentation in adult patients with kyphosis or anterior column defects? *Spine* 1995;20(12):1410–8
23. **Lenke LG**, Padberg AM, Russo MH, Bridwell KH, Gelb DE\*. Triggered electromyographic threshold for accuracy of pedicle screw placement. An animal model and clinical correlation. *Spine* 1995;20(14):1585–91S
24. Padberg AM, Russo MH, **Lenke LG**, Bridwell KH, Komanetsky RM. Validity and reliability of spinal cord monitoring in neuromuscular spinal deformity surgery. *J Spinal Disord* 1996;9(2):150–8
25. Curran MP‡, **Lenke LG**. Torulopsis glabrata spinal osteomyelitis involving two contiguous vertebrae: A case report. *Spine* 1996;21(7):866–70
26. Hamill CL\*, **Lenke LG**, Bridwell KH, Chapman MP\*, Blanke K, Baldus C. The use of pedicle screw fixation to improve correction in the lumbar spine of patients with idiopathic scoliosis: Is it warranted? *Spine* 1996;21(10):1241–9
27. Hamill CL\*, Bridwell KH, **Lenke LG**, Chapman MP\*, Baldus C, Blanke K. Posterior arthrodesis in the skeletally immature patient: assessing the risk for crankshaft: Is an open triradiate cartilage the answer? *Spine* 1997;22(12):1343–51
28. Gelb DE\*, **Lenke LG**, Pond J‡. Dural tear associated with a flexion distraction subluxation to the cervical spine without neurologic injury. *Acta Orthopaedica Belgica* 1998;64(2):224–8
29. Komanetsky RM, Padberg AM, **Lenke LG**, Bridwell KH, Russo MH, Chapman MP\*, Hamill CL\*. Neurogenic motor evoked potentials: a prospective comparison of stimulation methods in spinal deformity surgery. *J Spinal Disord* 1998;11(1):21–8
30. Gupta P\*, **Lenke LG**, Bridwell KH. Incidence of neural axis abnormalities in infantile and juvenile patients with spinal deformity: Is a magnetic resonance image screening necessary? *Spine* 1998;23(2):206–10
31. Vedantam R\*, **Lenke LG**, Keeney JA‡, Bridwell KH. Comparison of standing sagittal spinal alignment in asymptomatic adolescents and adults. *Spine* 1998;23(2):211–5
32. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients: Incidence and etiology at one institution. *Spine* 1998;23(3):324–31
33. Lou J, **Lenke LG**, Xu F, O’Brien M\*. In vivo Bcl-2 oncogene neuronal expression in the rat spinal cord. *Spine* 1998;23(5):517–23
34. Marsicano JG\*, **Lenke LG**, Bridwell KH, Chapman M\*, Gupta P\*, Weston J. The lordotic effect of the OSI frame on operative adolescent idiopathic scoliosis patients. *Spine* 1998;23(12):1341–8
35. Padberg AM, Wilson-Holden TJ, **Lenke LG**, Bridwell KH. Somatosensory- and motor-evoked potential monitoring without a wake-up test during idiopathic scoliosis surgery: An accepted standard of care. *Spine* 1998;23(12):1392–400
36. Brown CA‡, **Lenke LG**, Bridwell KH, Geideman WM‡, Hasan SA‡, Blanke K. Complications of pediatric thoracolumbar and lumbar pedicle screws. *Spine* 1998;23(14):1566–71
37. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Weston J. Radiographic results of arthrodesis with Cotrel-Dubousset instrumentation for the treatment of adolescent idiopathic scoliosis: A five to ten-year follow-up study. *J Bone Joint Surg Am* 1998;80(6):807–14
38. **Lenke LG**, Betz RR, Bridwell KH, Clements DH, Harms J, Lowe TG, Shufflebarger HL. Intraobserver and interobserver reliability of the classification of thoracic adolescent idiopathic scoliosis. *J Bone Joint Surg Am* 1998;80(8):1097–106
39. Lou J, **Lenke LG**, Ludwig FJ, O’Brien MF\*. Apoptosis as a mechanism of neuronal cell death following acute experimental spinal cord injury. *Spinal Cord* 1998;36(10):683–90
40. Freehill AK‡, **Lenke LG**. Severe kyphosis secondary to glucocorticoid-induced osteoporosis in a young adult with Cushing’s disease. A case report and literature review. *Spine* 1999;24(2):189–93
41. Betz RR, Harms J, Clements III DH, **Lenke LG**, Lowe TG, Shufflebarger HL, Jeszenszky D, Beele B. Comparison of anterior and posterior instrumentation for correction of adolescent thoracic idiopathic scoliosis. *Spine* 1999;24(3):225–39
42. Linville DA\*, Bridwell KH, **Lenke LG**, Vedantam R\*, Leicht P. Complications in the adult spinal deformity patient having combined surgery. Does revision increase the risk? *Spine* 1999;24(4):355–63
43. Bridwell KH, Baldus C, Iffrig TM, **Lenke LG**, Blanke K. Process measures and patient/parent evaluation of surgical management of spinal deformities in patients with progressive flaccid neuromuscular scoliosis (Duchenne’s muscular dystrophy and spinal muscular atrophy). *Spine* 1999;24(13):1300–9
44. Sweet FA\*, **Lenke LG**, Bridwell KH, Blanke KM. Maintaining lumbar lordosis with anterior single solid-rod instrumentation in thoracolumbar and lumbar adolescent idiopathic scoliosis. *Spine* 1999;24(16):1655–62
45. **Lenke LG**, Betz RR, Bridwell KH, Harms J, Clements DH, Lowe TG. Spontaneous lumbar curve coronal correction after selective anterior or posterior thoracic fusion in adolescent idiopathic scoliosis. *Spine* 1999;24(16):1663–72
46. Wilson-Holden TJ, Padberg AM, **Lenke LG**, Larson BJ, Bridwell KH, Bassett GS. Efficacy of intraoperative monitoring for pediatric patients with spinal cord pathology undergoing spinal deformity surgery. *Spine* 1999;24(16):1685–92
47. Molinari Maj. RW\*, Bridwell KH, **Lenke LG**, Ungacta FF‡, Riew KD. Complications in the surgical treatment of pediatric high-grade, isthmic dysplastic spondylolisthesis: A comparison of three surgical approaches. *Spine* 1999;24(16):1701–11
48. Booth KC\*, Bridwell KH, **Lenke LG**, Baldus CR, Blanke KM. Complications and predictive factors for the successful treatment of flatback deformity (fixed sagittal imbalance). *Spine* 1999;24(16):1712–20
49. Booth KC\*, Bridwell KH, Eisenberg BA¥, Baldus CR, **Lenke LG**. Minimum 5-year results of degenerative spondylolisthesis treated with decompression and instrumented posterior fusion. *Spine* 1999;24(16):1721–7
50. Tenhula J, **Lenke LG**, Bridwell KH, Gupta P\*, Riew KD. Prospective functional evaluation of the surgical treatment of neurogenic claudication in patients with lumbar spinal stenosis. *J Spinal Disord* 2000;13(4):276–82
51. Song EW‡, **Lenke LG**, Schoenecker PL. Isolated thoracolumbar and lumbar hyperlordosis in a patient with cerebral palsy: a case report. *J Spinal Disord* 2000;13(5):455–60
52. Eck KR\*, **Lenke LG**, Bridwell KH, Gilula LA, Lashgari CJ‡, Riew KD. Radiographic assessment of anterior titanium mesh cages. *J Spinal Disord* 2000;13(6):501–9
53. Vedantam R\*, **Lenke LG**, Bridwell KH, Linville DA\*. Comparison of push-prone and lateral-bending radiographs for predicting postoperative coronal alignment in thoracolumbar and lumbar scoliotic curves. *Spine* 2000;25(1):76–81
54. Vedantam R\*, **Lenke LG**, Bridwell KH, Haas J‡, Linville DA\*. A prospective evaluation of pulmonary function in patients with adolescent idiopathic scoliosis relative to the surgical approach used for spinal arthrodesis. *Spine* 2000;25(1):82–90
55. D’Andrea LP, Betz RR, **Lenke LG**, Harms J, Clements DH, Lowe TG. The effect of continued posterior spinal growth on sagittal contour in patients treated by anterior instrumentation for idiopathic scoliosis. *Spine* 2000;25(7):813–8
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57. Vedantam R\*, **Lenke LG**, Bridwell KH, Linville DA\*, Blanke K. The effect of variation in arm position on sagittal spinal alignment. *Spine* 2000;25(17):2204–9
58. O’Brien MF\*, **Lenke LG**, Mardjetko S, Lowe TG, Kong Y, Eck K\*, Smith D. Pedicle morphology in thoracic adolescent idiopathic scoliosis. Is pedicle fixation an anatomically viable technique? *Spine* 2000;25(18):2285–93
59. Graham EJ‡, **Lenke LG**, Lowe TG, Betz RR, Bridwell KH, Kong Y, Blanke K. Prospective pulmonary function evaluation following open thoracotomy for anterior spinal fusion in adolescent idiopathic scoliosis. *Spine* 2000;25(18):2319–25
60. Wilson-Holden TJ, Padberg AM, Parkinson JD, Bridwell KH, **Lenke LG**, Bassett GS. A prospective comparison of neurogenic mixed evoked potential stimulation methods. Utility of epidural elicitation during posterior spinal surgery. *Spine* 2000;25(18):2364–71
61. Bridwell KH, Shufflebarger HL, **Lenke LG**, Lowe TG, Betz RR, Bassett GS. Parents’ and patients’ preferences and concerns in idiopathic adolescent scoliosis. A cross-sectional preoperative analysis. *Spine* 2000;25(18):2392–9
62. Eck KR\*, Bridwell KH, Ungacta FF‡, Lapp MA\*, **Lenke LG**, Riew KD. Analysis of titanium mesh cages in adults with minimum two-year follow-up. *Spine* 2000;25(18):2407–15
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64. Riew KD, Yin Y, Gilula L, Bridwell KH, **Lenke LG**, Lauryssen C, Goette K. The effect of nerve-root injections on the need for operative treatment of lumbar radicular pain. A prospective, randomized, controlled, double-blind study. *J Bone Joint Surg Am* 2000;82(11):1589–93 **(NASS Outstanding paper presentation Award)**
65. **Lenke LG**, Rhee J\*. Adolescent scoliosis: anterior surgical techniques for adolescent idiopathic scoliosis. *Curr Opin Orthop* 2001;12(3):199–205
66. Bridwell KH, **Lenke LG**, Lewis SJ\*. Treatment of spinal stenosis and fixed sagittal imbalance. *Clin Orthop Relat Res* 2001;384:35–44
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69. Klepps SJ‡, **Lenke LG**, Bridwell KH, Bassett GS, Whorton J. Prospective comparison of flexibility radiographs in adolescent idiopathic scoliosis. *Spine* 2001;26(5):E74–9
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74. Sweet FA\*, **Lenke LG**, Bridwell KH, Blanke KM, Whorton J. Prospective radiographic and clinical outcomes and complications of single solid rod instrumented anterior spinal fusion in adolescent idiopathic scoliosis. *Spine* 2001;26(18):1956–65
75. Kuklo TR\*, **Lenke LG**, Won DS‡, Graham EJ‡, Sweet FA\*, Betz RR, Bridwell KH, Blanke KM. Spontaneous proximal thoracic curve correction after isolated fusion of the main thoracic curve in adolescent idiopathic scoliosis. *Spine* 2001;26(18):1966–75
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90. Wilson-Holden TJ, VanSickle D‡, **Lenke LG**. The benefit of neurogenic mixed evoked potentials for intraoperative spinal cord monitoring during correction of severe scoliosis: A case study. *Spine* 2002;27(10):E258–65
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## X. BOOK CHAPTERS

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## XII. NATIONAL/INTERNATIONAL SOCIETY PODIUM PRESENTATIONS

1. Kai Y, Owen J, **Lenke L**, Bridwell K, Oakley D. The use of sciatic-NMEPs versus spinal potentials to predict early-onset of neurological deficits when intervention is still possible. Podium presentation 15. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
2. Owen J, Kai Y, **Lenke L**, Bridwell K, Oakley D. The use of antidromic sensory activity to monitor multiple nerve root function simultaneously in animals: Preliminary results. Podium presentation 18. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
3. **Lenke LG**, Bridwell KH, Capelli A, Baldus C, Blanke K. Analysis of pulmonary function and axis rotation in adolescent and young adult idiopathic scoliosis patients treated with Cotrel-Dubousset Instrumentation. Podium presentation 57. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
4. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Results of 102 consecutive Cotrel-Dubousset Instrumentations for adolescent idiopathic scoliosis. Podium presentation 62. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
5. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Schoenecker PL. Results of Cotrel-Dubousset Instrumentation for adolescent idiopathic scoliosis. Federation of Spine Associations 6th Annual Meeting, Anaheim, CA, March 1991.
6. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Results of Cotrel-Dubousset Instrumentation for adolescent idiopathic scoliosis with minimum two-year follow-up. North American Spine Society 6th Annual Meeting, Keystone, CO, August 2, 1991.
7. Sedgewick T‡, Bridwell KH, **Lenke LG**, Baldus C. Surgical treatment of degenerative spondylolisthesis with associated spinal stenosis: the need for transverse process fusion with and without fixation coupled with decompression. Podium presentation 39. North American Spine Society 6th Annual Meeting, Keystone, CO, August 3, 1991.
8. **Lenke LG**, Bridwell KH, Bullis D, Betz R, Baldus C, Schoenecker PL. Results of *in-situ* fusion for isthmic spondylolisthesis. Podium presentation 21. Scoliosis Research Society 26th Annual Meeting, Minneapolis, MN, September 1991.
9. Sedgewick T‡, Bridwell KH, **Lenke L**, Baldus C. Surgical treatment of degenerative spondylolisthesis with associated spinal stenosis: The need for transverse process fusion with and without fixation coupled with decompression. Podium presentation 22. Scoliosis Research Society 26th Annual Meeting, Minneapolis, MN, September 1991.
10. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Preventing decompensation in King Type II and III curves treated with Cotrel-Dubousset Instrumentation (CDI): 24 to 64 month follow-up. Podium presentation 59. Scoliosis Research Society 26th Annual Meeting, Minneapolis, MN, September 1991. **Russell A. Hibbs Award, Best Clinical Research Podium presentation**
11. **Lenke LG**, Bridwell KH. Achieving coronal balance in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. Cotrel-Dubousset Instrumentation VIII International Congress, Minneapolis, MN, September 1991.
12. **Lenke LG**. Cotrel-Dubousset Instrumentation (CDI) for adolescent idiopathic scoliosis (AIS) with minimum two-year follow-up. Clinical Orthopaedic Society 79th Annual Meeting, St. Louis, MO, September 19-21, 1991.
13. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Schoenecker PL. Results of Cotrel-Dubousset instrumentation for adolescent idiopathic scoliosis: Minimum two year follow-up. Podium presentation 259. American Academy of Orthopaedic Surgeons 59th Annual Meeting, Washington, D.C., February 20-25, 1992.
14. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Preventing decompensation in King Type II and III curves treated with Cotrel-Dubousset instrumentation (CDI): 24-64 month follow-up. Podium presentation 9. Federation of Spine Associations 7th Annual Meeting, Washington, D.C., February 1992.
15. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Schoenecker PL. Results of Cotrel-Dubousset instrumentation (CDI) for adolescent idiopathic scoliosis (AIS): Minimum two-year follow-up. Podium presentation 14. Federation of Spine Associations 7th Annual Meeting, Washington, D.C., February 1992.
16. **Lenke LG**, Bridwell KH, Bullis D, Betz RR, Baldus C, Schoenecker PL. Results of *in-situ* fusion for isthmic spondylolisthesis. Podium presentation 34. Federation of Spine Associations 7th Annual Meeting, Washington, D.C., February 1992.
17. **Lenke LG**, Moore S, West S. Anterior decompression and fusion of thoracolumbar burst fractures. Association of Operating Room Nurses Annual Meeting, Dallas, TX, March 1992.
18. **Lenke LG**, Bridwell KH, Marushack M‡. The surgical treatment of lumbar hemivertebra. Missouri State Orthopaedic Association Annual Meeting, Lake of the Ozarks, MO, June 1992. **Best Resident/Fellow Podium Presentation**
19. **Lenke LG**, Bridwell KH, Jaffe AS. Effects of spinal surgery on Creatine Kinase MB levels: possible confusion with diagnostic criteria for acute myocardial infarction. Podium presentation 131. North American Spine Association 7th Annual Meeting, Boston, MA, July 9-11, 1992.
20. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Schoenecker PL. Ability of Cotrel-Dubousset Instrumentation to save distal lumbar segments in adolescent idiopathic scoliosis. American Academy of Orthopaedic Surgeons 60th Annual Meeting, San Francisco, CA, February 18-23, 1993.
21. Marushack MM‡, **Lenke LG**, Bridwell KH. Lumbar hemivertebra resection in children: An analysis of the technique. American Academy of Orthopaedic Surgeons 60th Annual Meeting, San Francisco, CA, February 18-23, 1993.
22. **Lenke LG**. The surgical treatment of thoracic and lumbar spinal fractures. American Fracture Association 55th Annual Meeting, St. Louis, MO, April 1993.
23. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K. Preoperative spinal canal investigation in “large” adolescent idiopathic scoliosis curves (70° to 140°): Is it warranted? Podium presentation 9. Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland, September 19-23, 1993.
24. O’Brien MF\*, **Lenke LG**, Bridwell KH, Stokes M, Padberg A. SSEP monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery: A prospective study. Podium presentation 40. Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland, September 19-23, 1993.
25. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. The use of fresh frozen allograft for posterior spinal fusions in neuromuscular scoliosis: Does it work? Podium presentation 74. Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland, September 1993.
26. O’Brien MF\*, **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. Podium presentation 84. Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland, September 19-23, 1993.
27. Joyce ME‡, O’Brien MF\*, **Lenke LG**, Lou J, Bridwell KH. Astrocyte response and transforming growth factor-β localization in acute spinal cord injury. North American Spine Society 8th Annual Meeting, San Diego, CA, October 13-15, 1993. **(Research Grant Award)**
28. **Lenke LG**, Bridwell KH, O’Brien MF\*, Blanke K, Baldus C. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. North American Spine Society 8th Annual Meeting, San Diego, CA, October 13-15, 1993.
29. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K. Preoperative spinal canal investigation in “large” adolescent idiopathic scoliosis curves (70° - 140°). North American Spine Society 8th Annual Meeting, San Diego, CA, October 13-15, 1993.
30. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. The use of fresh frozen allograft for posterior spinal fusions in neuromuscular scoliosis. North American Spine Society 8th Annual Meeting, San Diego, CA, October 13-15, 1993.
31. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to spinal cord injury: an immunohistochemical investigation. Podium presentation 8. Cervical Spine Research Society 21st Annual Meeting, New York, NY, December 1-4, 1993.
32. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. The use of fresh frozen allograft for posterior spinal fusions in paralytic scoliosis: does it work? Podium presentation 442. American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, LA, February 24-March 1, 1994.
33. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Preoperative spinal canal investigation in large adolescent idiopathic scoliosis curves (70° to 138°): is it warranted? Podium presentation 444. American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, LA, February 24-March 1, 1994.
34. **Lenke LG**, O’Brien MF\*, Bridwell KH, Baldus C, Blanke K. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. Podium presentation 455. American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, LA, February 24-March 1, 1994.
35. O’Brien MF\*, **Lenke LG**, Bridwell KH, Stokes M, Padberg A. Somatosensory evoked potential monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery: A prospective study. Podium presentation 465. American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, LA, February 24-March 1, 1994.
36. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to SCI: An immunohistochemical investigation. Podium presentation 1. American Spinal Injury Association 20th Annual Meeting, Philadelphia, PA, April 25-27, 1994.
37. O’Brien MF\*, **Lenke LG**, Bridwell KH, Padberg A. SSEP monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery: A prospective study. Podium presentation 6. American Spinal Injury Association 20th Annual Meeting, Philadelphia, PA, April 25-27, 1994.
38. **Lenke LG**, Joyce M‡, O’Brien MF\*. TGF-Beta treatment of spinal cord monitoring. Group International Cotrel-Dubousset-USA 11th International Congress, Arachon, France, May 1994. **Spinal Surgery Paper Award for Fellows and Residents**
39. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. Posterior spinal fusion supplemented with only allograft bone in paralytic scoliosis: Does it work? Association of Bone and Joint Surgeons Annual Meeting, Carlsbad, CA, May 11-15, 1994.
40. Gelb DE\*, **Lenke LG**, Bridwell KH, Blanke K, McEnery KW. An analysis of sagittal spinal alignment in 100 asymptomatic middle and older aged volunteers (age 39 to 82): What is normal? Podium presentation 3. Scoliosis Research Society 29th Annual Meeting, Portland, OR, September 21-24, 1994.
41. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Anterior fresh frozen structural allografts in the thoracic and lumbar spine. Do they work if combined with posterior fusion and instrumentation in adult deformity patients? Podium presentation 7. Scoliosis Research Society 29th Annual Meeting, Portland, OR, September 21-24, 1994.
42. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Analysis of pulmonary function and chest cage dimension changes following thoracoplasty in idiopathic scoliosis. Podium presentation 25. Scoliosis Research Society 29th Annual Meeting, Portland, OR, September 21-24, 1994.
43. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Prospective analysis of nutritional status normalization following spinal surgery: risk factors for delayed return to baseline. Podium presentation 27. Scoliosis Research Society 29th Annual Meeting, Portland, OR, September 21-24, 1994.
44. **Lenke LG**, Padberg AM, Russo MH, Bridwell KH, Gelb DE\*. Triggered EMG stimulation threshold for accuracy of pedicle screw placement: An animal model and clinical correlation. Podium presentation 64. Scoliosis Research Society 29th Annual Meeting, Portland, OR, September 21-24, 1994.
45. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Analysis of pulmonary function and chest cage dimension changes following thoracoplasty in idiopathic scoliosis. North American Spine Society 9th Annual Meeting, Minneapolis, MN, October 19-22, 1994.
46. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to spinal cord injury: an immunohistochemical investigation. North American Spine Society 9th Annual Meeting, Minneapolis, MN, October 19-22, 1994.
47. Padberg AM, Russo MH, **Lenke LG**, Bridwell KH. Validity of spinal cord monitoring in neuromuscular spinal deformity surgery. North American Spine Society 9th Annual Meeting, Minneapolis, MN, October 19-22, 1994.
48. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Anterior fresh-frozen structural allografts in the thoracic and lumbar spine. Do they work if combined with posterior fusion and instrumentation in adult deformity patients? North American Spine Society 9th Annual Meeting, Minneapolis, MN, October 19-22, 1994.
49. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Analysis of pulmonary function and chest cage dimension changes following thoracoplasty in idiopathic scoliosis. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Orlando, FL, February 16-21, 1995.
50. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Anterior fresh-frozen structural allografts in the thoracic and lumbar spine. Do they work if combined with posterior fusion and instrumentation in adult deformity patients? American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Orlando, FL, February 16-21, 1995.
51. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to spinal cord injury: an immunohistochemical investigation. Federation of Spine Associations 10th Annual Meeting, Orlando, FL, February 21, 1995.
52. Padberg AM, Komanetsky R, **Lenke LG**, Bridwell KH, Russo MH, Chapman MP\*, Hamill C\*. Neurologic motor evoked potentials. A prospective comparison of stimulation methods. American Society of Neurophysiologic Monitoring Annual Meeting, San Francisco, CA, May 18-20, 1995.
53. Chapman MP\*, Bridwell KH, **Lenke LG**, Hamill CL\*, Baldus C, Blanke K. Assignment of risk factors for transition syndrome: An analysis of patients who have broken down above or below a solid fusion. Podium presentation 9. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
54. Hamill CL\*, Bridwell KH, **Lenke LG**, Chapman MP\*, Baldus C, Blanke K. Posterior arthrodesis in the skeletally immature patient: Assessing the risk for crankshaft. Is an open triradiate cartilage the answer? Podium presentation 10. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
55. Padberg AM, Komanetsky RM, **Lenke LG**, Bridwell KH, Russo MH, Chapman MP\*, Hamill CL\*. Neurogenic motor evoked potentials: A prospective comparison of stimulation methods in spinal deformity surgery. Podium presentation 38. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
56. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Weston J. Radiographic and clinical assessment of Cotrel-Dubousset instrumentation (CDI) in adolescent idiopathic scoliosis (AIS): 5 to 10 year follow-up. Podium presentation 48. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
57. Gertzbein ST, Betz R, Errico T, Hammerberg KW, Robbins S, Shepherd E, Weber A, **Lenke L**, Albin J, Wolk D, Ensor K, Kerina M. A semi-rigid instrumentation and circumferential fusion in the treatment of lumbar spinal conditions: A multi-center study. Podium presentation 53. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
58. Hamill CL\*, **Lenke LG**, Bridwell KH, Chapman MP\*, Blanke K, Baldus C. The use of pedicle screw fixation to improve correction in the lumbar spine of patients with idiopathic scoliosis: Is it warranted? Podium presentation 79. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995.
59. Betz RR, Clements III DH, Harms J, Biedermann L, **Lenke LG**, Lowe TG, Shufflebarger HL. Anterior instrumentation for correction of thoracic idiopathic scoliosis. Shriners Chief of Staff Annual Meeting, Honolulu, HI, September 1995.
60. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Weston J. 5-10 year follow-up of CD instrumentation for adolescent idiopathic scoliosis. North American Spine Society 10th Annual Meeting, Washington D.C., October 18-21, 1995.
61. Hamill CL\*, **Lenke LG**, Bridwell KH, Chapman MP\*, Blanke K, Baldus C. Lumbar pedicle screws to improve correction in idiopathic scoliosis patients. North American Spine Society 10th Annual Meeting, Washington D.C., October 18-21, 1995.
62. Chapman MP\*, Bridwell KH, **Lenke LG**, Hamill CL\*, Baldus C, Blanke K. Risk factors for transition syndromes above or below solid fusions. North American Spine Society 10th Annual Meeting, Washington D.C., October 18-21, 1995.
63. Chapman MP\*, Hamill CL\*, Bridwell KH, **Lenke LG**, Blanke K, Baldus C. Can we lordose the spine with Zielke instrumentation anteriorly? North American Spine Society 10th Annual Meeting, Washington, D.C., October 18-21, 1995.
64. Hamill CL\*, Bridwell KH, **Lenke LG**, Chapman MP\*, Baldus C, Blanke K. Posterior arthrodesis in the skeletally immature patient: assessing crankshaft risks. North American Spine Society 10th Annual Meeting, Washington D.C., October 18-21, 1995.
65. Lou J, **Lenke LG**, Xu F, Bridwell KH. *In-vivo* Bcl-2 oncogene neuronal expression in the rat spinal cord. Podium presentation 37. Cervical Spine Research Society 23rd Annual Meeting, Santa Fe, NM, November 30-December 2, 1995.
66. Chapman MP\*, Bridwell KH, **Lenke LG**, Hamill CL\*, Baldus C, Blanke K. Assignment of risk factors for transition syndrome. An analysis of patients who have broken down above or below a solid fusion. Podium presentation 51. American Academy of Orthopaedic Surgeons 63rd Annual Meeting, Atlanta, GA, February 22-26, 1996.
67. Lou J, Xu F, **Lenke LG**. *In vivo* Bcl-2 oncogene neuronal expression in the rat spinal cord. Podium presentation 422. American Academy of Orthopaedic Surgeons 63rd Annual Meeting, Washington D.C., February 22-26, 1996.
68. Lou J, Xu F, **Lenke LG**. In-vivo Bcl-2 oncogene neuronal expression in the rat spinal cord. Basic Science Podium presentation 1. American Spinal Injury Association 22nd Annual Scientific Meeting, Seattle, WA, April 22-24, 1996.
69. Padberg A, **Lenke LG**, Komanetsky R, Bridwell KH, Russo M. Neurogenic motor evoked potentials: A prospective comparison of stimulation methods in spinal deformity surgery. American Spinal Injury Association 22nd Annual Scientific Meeting, Seattle, WA, April 22-24, 1996.
70. Padberg AM, Komanetsky R, **Lenke LG**, Bridwell KH, Russo M. Neurogenic motor evoked potentials: A prospective comparison of stimulation methods in spinal deformity surgery. Spine Topics II Podium presentation 2. American Spinal Injury Association 22nd Annual Scientific Meeting, Seattle, WA, April 22-24, 1996.
71. **Lenke LG**, Betz RR, Bridwell KH, Clements DH, Harms J, King HA, Lowe TG, Shufflebarger HL. Classifying adolescent idiopathic scoliosis by the King method - Is it reliable? Podium presentation 1. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
72. Marsicano J\*, **Lenke LG**, Bridwell KH, Chapman MP\*, Gupta P\*, Weston J. The lordosing effect of the OSI (Jackson) frame on thoracic and thoracolumbar as well as lumbar sagittal alignment in operative adolescent idiopathic scoliosis. Podium presentation 6. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
73. Vedantam R\*, **Lenke LG**, Keeney J‡, Bridwell KH. Comparison of standing sagittal spinal alignment in asymptomatic adolescents versus adults. Podium presentation 14. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
74. Gupta P\*, Tenhula J, **Lenke LG**, Bridwell KH, Chapman MP\*, Marsicano J\*. Evaluation of neurogenic claudication and functional outcome of treatment using the treadmill-bicycle test. Podium presentation 19. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
75. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients – Incidence and etiology at one institution. Podium presentation 65. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
76. Gupta P\*, **Lenke LG**, Bridwell KH, Marsicano J\*, Baldus C, Blanke K. Incidence of neural axis abnormalities in infantile and juvenile patients with spinal deformity: Is a screening MRI necessary? Podium presentation 70. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
77. Betz RR, Harms J, Clements DH, **Lenke LG**, Lowe T, Shufflebarger HL, Jeszenszky D, Beele B. Comparison of anterior versus posterior instrumentation for correction of thoracic idiopathic scoliosis. Podium presentation 84. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
78. **Lenke LG**, Betz RR, Bridwell KH, Clements III DH, Harms J, King HA, Lowe TG, Shufflebarger HL. Using the King classification to classify adolescent idiopathic scoliosis: Is it reliable? North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
79. Gupta P\*, **Lenke LG**, Bridwell KH, Marsicano JG\*. Incidence of neural axis abnormalities in infantile and juvenile patients with spinal deformity: Is a screening MRI necessary? North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
80. Gupta P\*, Tenhula J, **Lenke LG**, Bridwell KH, Chapman MP\*, Marsicano JG\*. Evaluation of neurogenic claudication and functional outcome using the treadmill-bicycle test. North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
81. Vedantam RW\*, **Lenke LG**, Keeney J‡, Bridwell KH. Standing sagittal alignment in adolescents vs. adults: Are they similar? North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
82. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits during spinal deformity correction. North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
83. Padberg AM, Russo MH, Kunsemiller J, **Lenke LG**, Bridwell KH, Wilson TA. The utility of dermatomal somatosensory evoked potentials during spinal surgery. North American Spine Society 11th Annual Meeting, Vancouver, British Columbia, Canada, October 23-26, 1996.
84. Gupta P\*, Tenhula J, **Lenke LG**, Bridwell KH, Chapman MP\*, Marsicano JG\*. Evaluation of neurogenic claudication and functional outcome using the treadmill-bicycle test. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
85. Gupta P\*, Bridwell KH, **Lenke LG**, Marsicano JG\*, Baldus C, Blanke K. Evaluation and treatment of flat-back deformity. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
86. **Lenke LG**, Betz RR, Bridwell KH, Clements DH, Harms J, Lowe TG, Shufflebarger HL. Classifying adolescent idiopathic thoracic scoliosis by the King method: Is it reliable? Podium presentation 61. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
87. Gupta P\*, **Lenke LG**, Bridwell KH, Marsicano JG\*. Incidence of neural axis abnormalities in infantile and juvenile patients with spinal deformity: Is a screening MRI necessary? Podium presentation 62. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
88. Brown CA‡, Hasan SA‡, Bridwell KH, **Lenke LG**. Pediatric thoracolumbar and lumbar pedicle screws: Short and long term complications. Podium presentation 213. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
89. Betz RR, Harms J, Clements III DH, **Lenke LG**, Lowe TG, Shufflebarger HL. Comparison of anterior versus posterior instrumentation correction for thoracic idiopathic scoliosis. Podium presentation 215. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
90. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients: Incidence and etiology at one institution. Podium presentation 309. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
91. Padberg AM, Komanetsky RM, **Lenke LG**, Bridwell KH, Russo MH. Neurogenic motor evoked potentials: A prospective comparison of stimulation methods in spinal deformity surgery. Podium presentation 14. Federation of Spine Associations 12th Annual Meeting, Cervical Spine Research Society Section III, San Francisco, CA, February 16, 1997.
92. Lou J, **Lenke LG**, Xu F, Bridwell KH. *In-vivo* Bcl-2 expression in a rat spinal cord injury model. Podium presentation 33. Federation of Spine Associations 12th Annual Meeting, Cervical Spine Research Society Section IV, San Francisco, CA, February 16, 1997.
93. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients – incidence and etiology at one institution. Podium presentation 5. Association of Bone and Joint Surgeons 49th Annual Meeting, Scottsdale, AZ, April 30-May 4, 1997.
94. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients – incidence and etiology at one institution. Podium presentation 30. American Orthopaedic Association, 110th Annual Meeting, Boca Raton, FL, June 11-14, 1997.
95. **Lenke L**, Betz R, Harms J, Bridwell K, Clements D, Lowe T. Spontaneous lumbar curve correction following selective anterior or posterior thoracic fusion in adolescent idiopathic scoliosis. Podium presentation 22. 4th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 10-13, 1997.
96. Brown CA‡, **Lenke LG**, Bridwell KH, Hasan SA‡, Blanke K. Pediatric thoracolumbar and lumbar pedicle screws: Short and long term complications. Southern Orthopaedic Association 14th Annual Meeting, Pebble Beach, CA, July 24-26, 1997.
97. **Lenke L**, Betz R, Harms J, Bridwell K, Clements D, Lowe T, Harms Study Group. A new and reliable 3-dimensional classification system of adolescent idiopathic scoliosis. Podium presentation 4. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
98. Vedantam R\*, **Lenke LG**, Haas J‡, Linville DA\*, Bridwell KH. A prospective evaluation of pulmonary function in adolescent idiopathic scoliotics relative to surgical approach for spinal fusion. Podium presentation 8. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997. **Russell A. Hibbs Award, 1st Runner-up Best Clinical Research Paper**
99. Padberg AM, Wilson-Holden TJ, **Lenke LG**, Russo MH, Bridwell KH. Somatosensory and motor evoked potential monitoring without a wake-up test during idiopathic scoliosis surgery: An accepted standard of care? Podium presentation 13. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
100. Linville D\*, Bridwell KH, **Lenke LG**, Vedantam R\*, Leicht P. Complications in the adult spinal deformity patient having combined surgery: Does “revision” increase the risk? Podium presentation 18. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
101. Clements III DH, Betz RR, Harms J, **Lenke LG**, Lowe TG, Huss GK. Critical analysis of proximal sagittal contour after correction of thoracic idiopathic scoliosis: Anterior versus posterior instrumentation. Podium presentation 55. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
102. Bridwell KH, Baldus C, **Lenke LG**, Blanke K. Patient/parent satisfaction with results of surgical treatment of spinal deformities in patients with progressive flaccid neuromuscular (spinal muscular atrophy and Duchenne’s muscular dystrophy) disorders. Podium presentation 64. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
103. Bridwell KH, Baldus C, Iffrig T, **Lenke LG**, Blanke K. Patient/parent satisfaction with results of surgical treatment of spinal deformities in patients with progressive flaccid neuromuscular (spinal muscular atrophy and Duchenne’s muscular dystrophy) disorders. 20th Century Orthopaedic Association Annual Meeting, Ponte Vedra, FL, October 1-5, 1997.
104. **Lenke LG**, Betz RR, Harms J, Bridwell KH, Clements III DH, Lowe TG, Harms Study Group. Spontaneous lumbar curve correction following selective fusion in idiopathic scoliosis. North American Spine Society 12th Annual Meeting, New York, NY, October 22-25, 1997.
105. Bridwell KH, Baldus C, **Lenke LG**, Blanke K. Patient/parent satisfaction with surgical treatment of flaccid neuromuscular spinal deformities. North American Spine Society 12th Annual Meeting, New York, NY, October 22-25, 1997.
106. Betz RR, Harms J, **Lenke LG**, Lowe TG, Clements III DH, Jeszenszky D. Anterior rigid rod instrumentation for thoracic idiopathic scoliosis. North American Spine Society 12th Annual Meeting, New York, NY, October 22-25, 1997.
107. **Lenke LG**, Betz RR, Harms J, Clements III DH, Lowe TG, Bridwell KH, Blanke K. A new and reliable comprehensive classification system of adolescent idiopathic scoliosis. Podium presentation 19. 5th International Meeting on Advanced Spine Techniques, Sorrento, Italy, May 1-3, 1998.
108. Bridwell KH, Baldus C, Iffrig T, **Lenke LG**, Blanke K. Patient/parent analysis of results of surgical treatment of spinal deformities in patients with progressive flaccid neuromuscular (Duchenne’s muscular dystrophy and spinal muscular atrophy) disorders. American Orthopaedic Association 111th Annual Meeting, Asheville, NC, June 3-6, 1998.
109. **Lenke L**, Betz R, Harms J, Bridwell K, Clements D, Lowe T. Spontaneous lumbar curve correction following selective anterior or posterior thoracic fusion in adolescent idiopathic scoliosis. Podium presentation 8. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
110. D’Andrea LP, Betz RR, **Lenke LG**, Harms J, Clements DH, Lowe TG. The effect of continued spinal growth on sagittal contour in patients treated by anterior instrumentation for adolescent idiopathic scoliosis. Podium presentation 10. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
111. Molinari RW\*, Bridwell KH, **Lenke LG**, Ungacta F‡, Riew KD. Complications with surgical treatment of pediatric high-grade isthmic dysplastic spondylolisthesis: A comparison of 3 surgical approaches. Podium presentation 23. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
112. Booth KC\*, Bridwell KH, Eisenberg BA¥, Baldus C, **Lenke LG**. Minimum 5 year results of degenerative spondylolisthesis treated with decompression & instrumented posterior fusion. Podium presentation 24. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
113. Sweet FA\*, **Lenke LG**, Bridwell KH, Blanke K. Maintaining lumbar lordosis with anterior convex compressive spinal instrumentation. Podium presentation 31. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
114. D’Andrea LP, Betz RR, **Lenke LG**, Clements DH, Lowe TG, Merola A, Haher T, Harms J, Huss GK, Blanke K, McGlothlen S. Do radiographic parameters correlate with clinical outcomes in adolescent idiopathic scoliosis? Podium presentation 37. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
115. Polly Jr. DW, Cunningham BW, Kuklo TR\*, **Lenke LG**, Oda I, Klemme WR. Biomechanical analysis of anterior scoliosis constructs using intervertebral cages. Podium presentation 43. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
116. Booth KC\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Complications and predictive factors for the successful treatment of flatback deformity (fixed sagittal imbalance). Podium presentation 61. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
117. Eck KR\*, **Lenke LG**, Bridwell KH, Lashgari CJ‡, Riew KD. Radiographic fusion evaluation of anterior titanium mesh (Harms) cages. Podium presentation 66. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
118. Riew KD, Hilibrand A, Bridwell KH, Molinari RW\*, Booth KC\*, **Lenke LG**. MR versus CT-myelography: Surgical decision making for lumbar stenosis. Podium presentation 67. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
119. **Lenke LG**, Engsberg JR, Ross SA, Olree KS. Changes in gait as a function of posterior spinal fusion in adolescent idiopathic scoliosis: a dynamic evaluation. Podium presentation 70. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
120. Wilson-Holden TJ, Padberg AM, **Lenke LG**, Larson BJ, Bridwell KH, Bassett GS. Efficacy of intraoperative monitoring for pediatric patients with spinal cord pathology undergoing spinal deformity surgery. Podium presentation 74. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
121. Booth KC\*, Bridwell KH, Eisenberg BA¥, Baldus C, **Lenke LG**. Minimum 5 year results of degenerative spondylolisthesis treated with decompression & instrumented posterior fusion. Podium presentation 2. North American Spine Society 13th Annual Meeting, San Francisco, CA, October 28-31, 1998.
122. Wilson-Holden TJ, Padberg AM, Larsen BJ, **Lenke LG**, Bridwell KH. Efficacy of intraoperative monitoring for patients with spinal cord pathology. North American Spine Society 13th Annual Meeting, San Francisco, CA, October 28-31, 1998.
123. Polly Jr. DW, Cunningham BW, Kuklo TR\*, **Lenke LG**, Oda I, Klemme WR. Biomechanical analysis of anterior scoliosis constructs using intervertebral cages. North American Spine Society 13th Annual Meeting, San Francisco, CA, October 28-31, 1998.
124. Riew KD, Hilibrand AS, Bridwell KH, Molinari RW\*, Booth KC\*, **Lenke LG**. MR versus CT-Myelography. Surgical decision making for lumbar stenosis. North American Spine Society 13th Annual Meeting, San Francisco, CA, October 28-31, 1998.
125. Riew KD, Hilibrand A, **Lenke LG**, Bridwell KH, Lauryssen C, Löfgren S. Surgical planning for cervical spondylotic disease: are MR and myelo-CT both necessary? Podium presentation 31. Cervical Spine Research Society 26th Annual Meeting, Atlanta, GA, December 3-5, 1998.
126. Polly DW, Kuklo TR\*, Cunningham BW, **Lenke LG**, Oda I, Klemme WR. Biomechanical analysis of anterior thoracic scoliosis constructs: effect of rod diameter and intervertebral cages. Society of Military Orthopaedic Surgeons 40th Annual Meeting, Vail, CO, December 8, 1998.
127. Clements III DH, Betz RR, Harms J, **Lenke LG**, Lowe TG, Huss GK. Critical analysis of proximal sagittal contour after correction of thoracic idiopathic scoliosis. Anterior versus posterior instrumentation. Orthopaedic Associations of the English Speaking World combined meeting, Auckland, New Zealand, 1998.
128. Booth KC\*, Bridwell KH, Eisenberg BA¥, Baldus C, **Lenke LG**. Minimum 5-year results of degenerative spondylolisthesis treated with decompression and instrumented posterior fusion. Podium presentation 39. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Annual Meeting Anaheim, CA, February 4-8, 1999.
129. Hilibrand AS, Riew KD, **Lenke LG**, Bridwell KH. Variability in surgical decision-making for lumbar stenosis. Podium presentation 43. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
130. **Lenke LG**, Betz RR, Harms J, Bridwell KH, Clements III DH, Lowe TG. Spontaneous lumbar curve correction following selective anterior or posterior thoracic fusion in adolescent idiopathic scoliosis. Podium presentation 105. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
131. Wilson-Holden TJ, Padberg AM, **Lenke LG**, Bridwell KH, Bassett GS, Larsen BJ. Efficacy of intraoperative monitoring for pediatric patients with spinal cord pathology undergoing spinal deformity surgery. Podium presentation 106. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
132. Molinari RW\*, Bridwell KH, **Lenke LG**, Ungacta FF‡, Riew KD. Complications with surgical treatment of pediatric high-grade isthmic dysplastic spondylolisthesis. A comparison of 3 surgical approaches. Podium presentation 110. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
133. Booth KC\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Complications and predictive factors for the successful treatment of flatback deformity (fixed sagittal imbalance). Podium presentation 158. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 3-8, 1999.
134. Bridwell KH, Molinari RW\*, **Lenke LG**, Ungacta F‡, Riew KD. Complications with surgical treatment of pediatric high-grade isthmic dysplastic spondylolisthesis: A comparison of three surgical approaches. American Orthopaedic Association 112th Annual Meeting, Sun Valley, ID, June 5-8, 1999.
135. Bridwell KH, Shufflebarger HL, **Lenke LG**, Lowe TG, Betz RR, Bassett GS, Iffrig TM, Baldus C, Blanke K, Whorton J. Parent/patient preference in idiopathic adolescent scoliosis: a prospective preoperative analysis. Podium presentation 2. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
136. Wilson-Holden TJ, Bassett GS, Parkinson JD, Padberg AM, **Lenke LG**, Bridwell KH. A prospective comparison of neurogenic mixed evoked potential stimulation methods: utility of epidural elicitation during posterior spinal surgery. Podium presentation 11. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
137. Betz RR, **Lenke LG**, Harms J, Lowe TG, Clements DH, Merola A, Haher T, Newton PO, Wenger D, Huss GK, Blanke K. Comparison of anterior versus posterior instrumentation for correction of thoracic adolescent idiopathic scoliosis: Analysis by an objective radiographic scoring system. Podium presentation 17. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
138. Baumann R, Brown H, Johnston C, **Lenke L**, Sanders A, Sink E. Selective anterior lumbar fusion in King I curves: When can the thoracic curve be left unfused? Podium presentation 18. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
139. Graham EJ‡, **Lenke LG**, Lowe TG, Betz RR, Bridwell KH, Kong Y. Prospective pulmonary function evaluation following open thoracotomy for anterior thoracic spinal fusion in adolescent idiopathic scoliosis. Podium presentation 21. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
140. Polly Jr. DW, **Lenke LG**, Sturm PF, Lauerman W, Sponseller PD, Hanway JD. True King 2 curves: Independent surgeons’ evaluation of radiographic results of various surgical treatment options. Podium presentation 22. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
141. Klepps S‡, **Lenke LG**, Bassett GS, Bridwell KH, Whorton J. Prospective comparison of flexibility radiographs in adolescent idiopathic scoliosis (AIS). Podium presentation 24. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
142. O’Brien MF\*, **Lenke LG**, Mardjetko S, Lowe TG, Kong Y, Eck K\*, Smith DAB. Pedicle screw fixation in adolescent idiopathic scoliosis (AIS): is this an anatomically viable and safe technique? Podium presentation 31. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
143. **Lenke LG**, Betz RR, Haher T, Merola A, Lapp M\*, Harms J, Shufflebarger HL, Blanke K. Multi-surgeon assessment of a new classification of adolescent idiopathic scoliosis (AIS): Can agreement on classification exist? Variability in surgical decision making in adolescent idiopathic scoliosis (AIS) circa 1999. (Combined presentation of two abstracts). Podium presentation 43. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
144. Riew KD, Yin Y, Gilula LA, Bridwell K, **Lenke L**, Goette K, Lauryssen C. Nerve root injections prevent surgery for lumbar radicular pain. Podium presentation 65. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
145. Eck KR\*, Ungacta FF‡, Bridwell KH, Riew KD, Lapp MA\*, **Lenke LG**, Baldus C, Blanke K. Analysis of titanium mesh (Harms) cages in adults with minimum two-year follow-up. Podium presentation 69. Scoliosis Research Society 34th Annual Meeting, September 23-25, 1999.
146. Eck KR\*, Ungacta FF‡, Bridwell KH, Riew KD, Lapp MA\*, **Lenke LG**, Baldus C, Blanke K. Complication and results (minimum 2-year follow-up) of long adult deformity fusion to L4, L5 and the sacrum. Podium presentation 86. Scoliosis Research Society 34th Annual Meeting, San Diego, CA, September 23-25, 1999.
147. Hilibrand AS, **Lenke LG**, Bridwell KH, Riew KD. Variability in surgical decision-making for lumbar spinal stenosis. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
148. Klepps SJ‡, **Lenke LG**, Bassett GS, Bridwell KH, Whorton J. Prospective comparison of flexibility radiographs in adolescent idiopathic scoliosis. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
149. Riew KD, Bridwell KH, Gilula LA, Goette K, Lauryssen C, **Lenke LG**, Yin Y. Can nerve root injections obviate the need for operative treatment? North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999. **Outstanding Paper Award**
150. Eck KR\*, Ungacta FF‡, Bridwell KH, Riew KD, Lapp MA\*, **Lenke LG**, Baldus C, Blanke K. Analysis of titanium mesh (Harms) cages in adults with minimum two-year follow-up. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
151. **Lenke LG**, Betz RR, Lowe TG, Merola AA, Haher TR, Clements III DH, Blanke K, Huss GK. Curve prevalence of a new surgical classification of adolescent idiopathic scoliosis. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
152. Eck KR\*, Ungacta FF‡, Bridwell KH, Riew KD, Lapp MA\*, **Lenke LG**, Baldus C, Blanke K. Complications and results of long adult deformity fusions to L4, L5 and the sacrum. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
153. Riew KD, Sweet FA\*, Hilibrand AS, Wang J, Kang J, **Lenke LG**, Bridwell KH. Plain radiographic assessment of anterior cervical fusion. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
154. Bridwell KH, Shufflebarger HL, **Lenke LG**, Lowe TG, Betz RR, Bassett GS, Iffrig T, Baldus C, Blanke K, Whorton J. Parent/patient preference in idiopathic adolescent scoliosis: a prospective preoperative analysis. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
155. Hilibrand AS, **Lenke LG**, Lauryssen C, Riew KD. Variations in the surgical management of cervical spondylosis. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
156. Lapp MA\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K, Iffrig T. Prospective randomization of parenteral hyperalimentation for long fusions with spinal deformity. North American Spine Society 14th Annual Meeting, Chicago, IL, October 20-23, 1999.
157. Bridwell KH, Shufflebarger HL, **Lenke LG**, Lowe TG, Betz RR, Bassett GS, Iffrig T, Baldus C, Blanke K, Whorton J. Parent/patient preference in idiopathic adolescent scoliosis: A prospective preoperative analysis. 20th Century Orthopaedic Association Annual Meeting, Kona, HI, October 27-30, 1999.
158. Betz RR, **Lenke LG**, Clements III DH, Lowe TG. Thoracoscopic approach versus open thoracotomy for insertion of anterior instrumentation for the treatment of thoracic adolescent idiopathic scoliosis. Shrine Surgeons Annual Meeting, Tampa, FL, November 1999.
159. Riew KD, Hilibrand A, Wang J, Kang J, **Lenke LG**, Bridwell K. Plain radiographic assessment of anterior cervical fusion. Podium presentation 58. Cervical Spine Research Society 27th Annual Meeting, Seattle, WA, December 16-18, 1999.
160. Lapp MA\*, Bridwell KH, **Lenke LG**, Riew KD, Linville DA\*, Eck KR\*. Outcomes in adult spinal deformity patients. A comparison of primary to revision patients. American Academy of Orthopaedic Surgeons 67th Annual Meeting, Orlando, FL, March 15-19, 2000.
161. **Lenke LG**. Selective anterior instrumentation of TL/L AIS. 7th International Meeting on Advanced Spine Techniques, Barcelona, Spain, July 6-8, 2000.
162. O’Brien MF\*, Wood J, Lowe T, Alongi P, Smith D, Fitzgerald D, **Lenke L**, Mardjetko S. Thoracic pedicle vs. pedicle/rib screw fixation: a biomechanical study. 7th International Meeting on Advanced Spine Techniques, Barcelona, Spain, July 6-8, 2000.
163. Lewis SJ\*, **Lenke LG**, Raynor B, Long J, Bridwell KH, Padberg A. Intercostal triggered EMG threshold for accuracy of thoracic pedicle screw placement. Podium presentation 10. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
164. Padberg AM, Parkinson JD, Bridwell KH, Wilson-Holden TJ, Raynor BL, **Lenke LG**, Riew KD. Warning criteria for intraoperative somatosensory evoked potential monitoring data: Experience with 3783 cases. Podium presentation 11. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
165. Kuklo TR\*, Bridwell KH, Lewis SJ\*, Baldus C, Blanke K, **Lenke LG**. Minimum two-year analysis of sacropelvic fixation and L5/S1 fusion utilizing S1 and iliac screws. Podium presentation 21. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
166. O’Brien MF\*, Wood J, Lowe TG, Alongi P, Smith D, Fitzgerald D, **Lenke LG**, Mardjetko SM. Thoracic pedicle vs. pedicle/rib screw fixation: A biomechanical study. Podium presentation 27. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
167. Merola A, Brkaric M, Haher T, Lowe T, **Lenke L**, Betz R, Huss G, Wenger R, Newton P, Clements D, Kohani O. A multi-center prospective study of 737 questionnaires utilizing The Scoliosis Research Society (SRS) Instrument for the surgical treatment of adolescent idiopathic scoliosis. Podium presentation 33. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
168. Sweet FA\*, **Lenke LG**, Blanke K, Whorton J, Bridwell KH. Prospective radiographic and clinical outcomes and complications of single solid rod instrumented anterior spinal fusion in adolescent idiopathic scoliosis. Podium presentation 37. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
169. Kuklo TR\*, **Lenke LG**, Won DS‡, Graham EJ‡, Sweet FA\*, Betz RR, Blanke K. Spontaneous proximal thoracic curve correction following selective fusion of the main thoracic curve in adolescent idiopathic scoliosis. Podium presentation 40. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
170. Clements DH, Betz RR, Lowe TG, **Lenke LG**, Newton PO. Adolescent idiopathic scoliosis with excessive thoracic kyphosis. Comparison of anterior versus posterior instrumentation for maintaining correction. Podium presentation 41. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
171. Wood J, Lowe T, Betz R, Clements D, **Lenke L**, Newton P, Merola A, Haher T, Wenger D, Harms J. Large magnitude adolescent idiopathic scoliosis: Anterior vs. posterior surgical stabilization. Podium presentation 42. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
172. Bridwell KH, Kuklo TR\*, Lewis SJ\*, Sweet FA\*, **Lenke LG**. String test measurement to assess the effect of spinal deformity correction on spinal canal length. Podium presentation 56. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
173. Lewis SJ\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K. The results and complications of pedicle subtraction osteotomies for the treatment of fixed sagittal imbalance. Podium presentation 74. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
174. Bridwell KH, Reitenbach AK, Uhrich ML, **Lenke LG**, Engsberg JR. Preop gait comparisons between adult lumbar scoliotics and those with able bodies. Podium presentation 82. Scoliosis Research Society 35th Annual Meeting, Cairns, Queensland, Australia, October 18-21, 2000.
175. Wood J, Harms J, Lowe TG, Betz RR, Clements III DH, **Lenke LG**, Newton PO, Merola AA, Haher TR, Wenger DR. Large magnitude adolescent idiopathic scoliosis. Anterior versus posterior surgical stabilization. North American Spine Society 15th Annual Meeting, New Orleans, LA, October 25-28, 2000.
176. Lewis SJ\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Pedicle subtraction osteotomies. Results/complications in treating fixed sagittal imbalance. North American Spine Society 15th Annual Meeting, New Orleans, LA, October 25-28, 2000.
177. Lewis SJ\*, Riew KD, Bridwell KH, **Lenke LG**, Kuklo TR\*, Sethi NS‡. Observer variability in the radiographic interpretation of fusion masses. North American Spine Society 15th Annual Meeting, New Orleans, LA, October 25-28, 2000.
178. O’Brien MF\*, Wood J, Lowe TG, Alongi P, Smith D, Fitzgerald D, **Lenke LG**. Thoracic pedicle versus pedicle/rib fixation: a biomechanical study. North American Spine Society 15th Annual Meeting, New Orleans, LA, October 25-28, 2000.
179. Kuklo TR\*, **Lenke LG**, Won DS‡, Graham EJ‡, Sweet FA\*, Betz RR, Blanke K. Spontaneous proximal thoracic curve correction following selective fusion of the main thoracic curve in adolescent idiopathic scoliosis. Society of Military Orthopaedic Surgeons 42nd Annual Meeting, San Antonio, TX, December 14, 2000.
180. Kuklo TR\*, Bridwell KH, Lewis SJ\*, Baldus C, Blanke K, **Lenke LG**. Minimum two-year analysis of sacropelvic fixation and L5/S1 fusion utilizing S1 and iliac screws. Society of Military Orthopaedic Surgeons 42nd Annual Meeting, San Antonio, TX, December 14, 2000.
181. Betz RR, **Lenke LG**, Lowe TG, Clements DH, Merola A, Haher T, Newton PO, Wenger DR, Huss GK, Blanke K. Comparison of anterior versus posterior instrumentation for correction of thoracic adolescent idiopathic scoliosis: analysis by an objective radiographic scoring system. Podium presentation 84. American Academy of Orthopaedic Surgeons 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
182. **Lenke LG**. Thoracic pedicle screws. Federation of Spine Associations 16th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
183. Won DS‡, Kuklo TR\*, **Lenke LG**, Graham EJ‡, Sweet FA\*, Betz RR, Blanke K. Spontaneous proximal thoracic curve correction following selective fusion of the main thoracic curve in adolescent idiopathic scoliosis. American Orthopaedic Association 34th Annual Resident’s Competition, Hershey, PA, March 30-31, 2001.
184. Lewis SJ\*, Riew KD, Bridwell KH, **Lenke LG**, Kuklo TR\*, Sethi NS‡. Observer variability in the radiographic interpretation of fusion masses. Canadian Orthopaedic Association 56th Annual Meeting, London, Ontario, Canada, June 3, 2001.
185. O’Brien MF\*, Wood J, Lowe TG, Wong P, Smith D, Fitzgerald D, **Lenke LG**, Mardjetko SM. Thoracic pedicle vs. pedicle/rib screw fixation. Spine Society of Australia Annual Meeting, Australia, June 30, 2001.
186. Hanson DS\*, Bridwell KH, **Lenke L**, Rhee JM\*. Correlation of pelvic incidence with low and high-grade isthmic spondylolisthesis. Podium presentation 1. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
187. Hanson DS\*, Bridwell KH, Rhee JM\*, **Lenke LG**. Dowel fibular strut grafts for high-grade dysplastic isthmic spondylolisthesis. Podium presentation 4. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 20, 2001.
188. Raynor BL, **Lenke LG**, Kim Y§, Bridwell KH, Hanson DS\*, Padberg AM. Can triggered EMG thresholds accurately predict thoracic pedicle screw placement? Podium presentation 9. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
189. Dobbs MB, **Lenke LG**, Morcuende J, Weinstein SL, Bridwell KH, Sponseller PD. Incidence of neural axis abnormalities in infantile patients diagnosed with idiopathic scoliosis: is a screening MRI necessary? Podium presentation 10. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
190. Wilson PL, Newton PO, Wenger DR, Haher T, Merola A, **Lenke L**, Lowe T, Clements D, Betz R. A multi-center study analyzing the relationship of standardized radiographic scoring system of adolescent idiopathic scoliosis (AIS) and the Scoliosis Research Society (SRS) Outcomes Instrument. Podium presentation 11. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
191. Yukawa Y§, **Lenke LG**, Fukui N, Lou J. Optimal treatment timing to rescue neuronal cells from spinal cord injury via Bcl-2 gene transfer *in vitro* and *in vivo*. Podium presentation 14. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH September 19-22, 2001.
192. Bridwell KH, Hanson DS\*, Rhee JM\*, **Lenke LG**, Baldus C, Blanke K. Correction of thoracic idiopathic adolescent scoliosis with segmental hooks, rods, Wisconsin wires posteriorly: It’s bad and obsolete, correct? Podium presentation 33. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
193. Kuklo TR\*, **Lenke LG**, Graham EJ‡, Won DS‡, Sweet FA\*, Blanke K, Bridwell KH. Correlation of radiographic, clinical and patient assessment of shoulder balance following fusion versus non-fusion of the proximal thoracic curve in adolescent idiopathic scoliosis. Podium presentation 34. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
194. Rhee JM\*, Bridwell KH, Won DS‡, **Lenke LG**, Chotigavanichaya C, Hanson DS\*. Sagittal plane analysis of adolescent idiopathic scoliosis: The effect of anterior vs. posterior instrumentation. Podium presentation 39. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
195. Merola A, Brkaric M, Haher T, Kohani O, Betz R, Clements D, Huss G, Gilbert E, **Lenke L**, Lowe T, Newton P, Wenger D, Marks M. Do outcome parameters correlate with surgical complications utilizing the SRS Questionnaire in the treatment of AIS? Podium presentation 40. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
196. Engsberg JR, **Lenke LG**, Hollander KW, Reitenbach AK, Bridwell KH. Trunk motion in adolescents undergoing scoliosis spinal fusion. Podium presentation 54. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
197. Bridwell KH, Wagner JM, Uhrich ML, **Lenke LG**, Engsberg JR. Gait changes as the result of deformity reconstruction surgery in adult female lumbar scoliotics. Podium presentation 62. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
198. White DK, **Lenke LG**, Kemp JS, Bridwell KH, Blanke KM, Engsberg JR. Can idiopathic scoliosis fusion improve aerobic efficiency during exercise? Podium presentation 70. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
199. Hanson DS\*, Bridwell KH, Rhee JM\*, **Lenke LG**, Baldus C. Dowel fibular strut grafts for high-grade dysplastic isthmic spondylolisthesis. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-November 3, 2001.
200. Cole J, Murray D, **Lenke L**, Bridwell K, Bassett G. Use of Amicar versus Aprotinin during pediatric spinal deformity surgery. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-November 3, 2001.
201. Kim Y§, **Lenke L**, Bridwell K, Kim K, Sides B, Whorton J, Blanke K. Prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach: minimum 5 year follow-up. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-November 3, 2001.
202. Kuklo T\*, Lehman Jr. R, **Lenke L**. Preoperative and postoperative computer tomography evaluation of structures at risk with anterior spinal fusion. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-November 3, 2001.
203. Bridwell K, Edwards C\*, Patel A‡, Rinella A\*, Della Rocca G‡, Berra A, **Lenke L**. Thoracolumbar deformity arthrodesis to L5 in adult scoliotics: the fate of the L5-S1 disc: is it protected by a deep-seated L5? North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-November 3, 2001.
204. Padberg AM, Wilson-Holden TJ, Bridwell KH, **Lenke LG**, Raynor BL, Riew KD. Warning criteria for intraoperative somatosensory evoked potential monitoring data: Experience with 3783 cases. Podium presentation 216. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
205. Hanson DS\*, **Lenke LG**, Bridwell KH, Riew KD. Variability in surgical management of degenerative lumbar scoliosis. Podium presentation 282. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
206. Burd T‡, **Lenke LG**, Pawelek L. Upper extremity functional assessment following anterior spinal fusion via open thoracotomy for adolescent idiopathic scoliosis. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
207. Dobbs MB, **Lenke LG**, Morcuende JA, Weinstein JN, Bridwell KH, Sponseller PD. Incidence of neural axis abnormalities in infantile patients diagnosed with idiopathic scoliosis - Is screening MRI necessary? American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
208. Hanson DS\*, Bridwell KH, Rhee JM\*, **Lenke LG**. Dowel fibular strut grafts for high-grade dysplastic isthmic spondylolisthesis. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
209. Rhee JM\*, Bridwell KH, **Lenke LG**, Hanson DS\*. The results and complications of pedicle subtraction osteotomies for the treatment of fixed sagittal imbalance. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
210. Tenhula J, **Lenke LG**, Yukawa Y§, Riew KD. A prospective and comprehensive outcome study of surgically treated lumbar spinal stenosis with neurologic claudication. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
211. **Lenke LG**, Engsberg JR, Hollander KW, Reitenbach AK, Bridwell KH. Trunk motion in adolescents undergoing scoliosis spinal fusion. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
212. Yukawa Y§, **Lenke LG**, Tenhula J, Bridwell KH, Riew KD, Blanke K. A prospective and comprehensive outcome study of surgically treated lumbar spinal stenosis with neurogenic claudication. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
213. Kim YJ§, **Lenke LG**, Bridwell KH, Riew KD, Rhee JM\*, Hanson DS\*. Free hand pedicle screw placement in the thoracic spine - Is it safe? American Orthopaedic Association/CAO 115th Annual Meeting, Victoria, British Columbia, Canada, June 2002.
214. **Lenke LG**, Yukawa Y§, Fukui N, Lou J. Optimal treatment timing to rescue neuronal cells from spinal cord injury via Bcl-2 gene transfer *in-vitro* and *in-vivo*. American Orthopaedic Association/CAO 115th Annual Meeting, Victoria, British Columbia, Canada, June 2002.
215. **Lenke LG**, Yukawa Y§, Tenhula J, Bridwell KH, Riew KD, Blanke K. A prospective and comprehensive outcome study of surgically treated lumbar spinal stenosis with neurogenic claudication. American Orthopaedic Association/CAO 115th Annual Meeting, Victoria, British Columbia, Canada, June 2002.
216. Sanders JO, Polly DW, Cats-Baril W, Jones J, **Lenke LG**, O’Brien MF\*, Richards BS, Sucato DJ, AIS section of the Spinal Deformity Study Group. An Analysis of patient and parent assessment of deformity in idiopathic scoliosis using the Walter Reed Visual Assessment Scale. Podium presentation 5. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
217. Rhee JM\*, Bridwell KH, **Lenke LG**, Baldus C, Blanke K, Berra A. Staged posterior surgery for severe adult deformity. Podium presentation 22. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
218. Edwards C\*, Bridwell K, Patel A‡, Rinella A\*, Della Rocca GJ‡, Berra A, **Lenke L**. Thoracolumbar deformity arthrodesis to L5 in adult scoliotics: The fate of the L5-S1 disk: Is it protected by a deep-seated L5? Podium presentation 24. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
219. Rinella A\*, Bridwell K, Kim Y§, Rudzki J‡, Edwards C\*, Roh M\*, **Lenke L**. Late complications of adult idiopathic scoliosis primary fusions to L4 and above - The effect of age and distal fusion level. Podium presentation 25. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
220. Polly DW, Kuklo TR\*, O’Brien MF\*, Schroeder TM, Nelson L, **Lenke LG**. Reliability of radiographic parameters for scoliosis evaluation. Podium presentation 43, Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
221. Kuklo TR\*, Lehman Jr. RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. Podium presentation 44. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
222. Eule JM, Lowe TG, **Lenke LG**, Betz RR, Harms J, Clements DH, Newton PO, Barmada A, Haher TR, Merola AA. Selective anterior or posterior thoracic fusions in Lenke 1 adolescent idiopathic scoliosis with lumbar curves greater than forty degrees. Podium presentation 48. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
223. Dobbs MB, **Lenke LG**, Bridwell KH, Steger-May K. Can we predict the ultimate lumbar curve in adolescent idiopathic scoliosis patients undergoing a selective thoracic fusion? Podium presentation 49. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
224. Edwards C\*, **Lenke L**, Peelle M‡, Sides B, Rinella A\*, Bridwell K. Time dependent response of the unfused lumbar curve after selective thoracic fusion for AIS: 2-16 year radiographic and clinical follow-up. Podium presentation 50. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
225. Rinella A\*, **Lenke L**, Peelle M‡, Edwards C\*, Bridwell KH, Sides B. Comparison of SRS Questionnaire results submitted by both parents and patients in the operative treatment of idiopathic scoliosis. Podium presentation 53. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
226. Kim YJ§, **Lenke LG**, Cho YS, Bridwell KH, Riew KDI. Free hand pedicle screw placement in the thoracic spine: is it safe? Podium presentation 62. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
227. Clements DH, Betz RR, Newton PO, **Lenke LG**, Lowe TG, Merola AA, Haher TR, Marks M. Incidence of vascular complications associated with anterior thoracic instrumentation for adolescent idiopathic scoliosis. Podium presentation 64. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
228. Bridwell K, Lewis S\*, Edwards C\*, **Lenke L**, Berra A, Baldus C, Blanke K. Complications (pseudarthrosis, neurologic deficit) of pedicle subtraction osteotomies for fixed sagittal imbalance. Podium presentation 69. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
229. Betz RR, MacDonald JH, **Lenke LG**, Lowe TG, Newton PO, Clements DH, Wenger DR, Haher TR, Merola AA, Harms J, Shufflebarger HL. Perioperative complications of spinal fusion for thoracic adolescent idiopathic scoliosis. Podium presentation 71. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
230. Kim YJ§, **Lenke LG**, Bridwell KH, Kim KN§, Sides B, Whorton J, Blanke K. Prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach: minimum 5 year follow up. Podium presentation 77. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
231. Cole J, Murray D, **Lenke L**, Bridwell K, Bassett G. Use of Amicar vs. Aprotinin during pediatric spinal deformity surgery: Can they help decrease blood loss? Podium presentation 81. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
232. Cole J, Murray DJ, **Lenke LG**, Bridwell KH, Bassett GS. Use of Amicar vs. Aprotinin during pediatric spinal deformity surgery: can they help decrease blood loss? North American Spine Society 17th Annual Meeting, Montréal, Canada, October 12-15, 2002.
233. Bridwell KH, Edwards II CC\*, Patel AA‡, Rinella AS\*, Della Rocca GJ‡, Berra A, **Lenke LG**. Thoracolumbar deformity arthrodesis to L5 in adult scoliosis. The fate of the L5-S1 disk: is it protected by a deep-seated L5? North American Spine Society 17th Annual Meeting, Montréal, Canada, October 12-15, 2002.
234. Kim YJ§, **Lenke LG**, Bridwell KH, Sides B, Whorton J, Blanke K. Prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach: minimum 5 year follow-up. North American Spine Society 17th Annual Meeting, Montréal, Canada, October 12-15, 2002.
235. Kuklo TR\*, Lehman Jr. RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. North American Spine Society 17th Annual Meeting, Montréal, Canada, October 12-15, 2002.
236. Kuklo TR\*, Lehman RA, **Lenke LG**. Thoracic anterior spinal fusion and structures at risk. North American Spine Society 17th Annual Meeting, Montréal, Canada, October 12-15, 2002.
237. Kim YJ§, **Lenke LG**, Bridwell KH, Kim KH§, Sides B, Whorton J, Blanke K. A prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach used for spinal fusion: minimum 5 year F/U study. Australian Orthopaedic Association 62nd Annual Scientific Meeting, Melbourne, Victoria, Australia, October 13-15, 2002.
238. Polly DW, Kuklo TR\*, O’Brien MF\*, Schroeder TM, Nelson L, **Lenke LG**. Reliability of radiographic parameters for scoliosis evaluation. Society of Military Orthopaedic Surgeons 44th Annual Meeting, San Diego, CA, December 10-15, 2002.
239. O’Brien MF\*, Smith DAB, Eule JM, Enguidanos ST, Hashim SM, Kuklo TR\*, **Lenke LG**, Lowe TG, Polly DW, Wilson LA. Instrumentation of the cervical thoracic junction (CTJ): A biomechanical comparison of thoracic pedicle screws (TPS) vs. thoracic hooks (TH) as distal anchors for long constructs. Podium presentation 51. Cervical Spine Research Society 30th Annual Meeting, Miami, FL, December 5-7, 2002.
240. Satake K§, Lou J, **Lenke LG**. Migration of mesenchymal stem cells through cerebrospinal fluid into injured spinal cord tissue. Podium presentation 78. Orthopaedic Research Society 49th Annual Meeting, New Orleans, LA, February 2-5, 2003.
241. Edwards II CC\*, **Lenke LG**, Peelle MW‡, Sides B, Rinella AS\*, Bridwell KH. Time dependent response of the unfused lumbar curve after selective thoracic fusion for AIS: 2-16 year radiographic and clinical follow-up. Podium presentation 42. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
242. Edwards II C\*, Bridwell K, Patel A‡, Rinella A\*, Kim Y§, Berra A, **Lenke LG**. Long deformity fusion to L5 and the sacrum: risk factors for adverse outcomes. Podium presentation 43. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
243. Kim YJ§, **Lenke LG**, Bridwell KH, Sides B, Whorton J, Blanke K. Prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach: minimum 5 year follow-up. Podium presentation 45. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
244. Dobbs MB, **Lenke LG**, Bridwell KH, Steger-May K. Can we predict the ultimate lumbar curve in adolescent idiopathic scoliosis patients undergoing a selective thoracic fusion? Podium presentation 48. American Academy of Orthopaedic Surgery 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
245. Kuklo TR\*, Lehman Jr. RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with anterior spinal fusion. Podium presentation 50. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
246. Kim YJ§, **Lenke LG**, Cho YS§, Bridwell KH, Riew KD. Free hand pedicle screw placement in the thoracic spine: is it safe? Podium presentation 182. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
247. Edwards II CC\*, Bridwell KH, Patel AA‡, Rinella AS\*, Della Rocca GJ‡, Berra A, **Lenke LG**. Thoracolumbar deformity arthrodesis to L5 in adult scoliotics. The fate of the L5-S1 disk: is it protected by a deep-seated L5? Podium presentation 183. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
248. Newton PO, Betz R, Clements D, **Lenke L**. Anterior thoracoscopic instrumentation: A match comparison to anterior open and posterior open instrumentation. Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, FL, May 2-5, 2003.
249. Edwards C\*, **Lenke L**, Peelle M‡, Sides B, Rinella A\*, Bridwell KH. Time dependent response of the unfused lumbar curve after selective thoracic fusion for AIS: 2 – 16 year radiographic and clinical follow-up. Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, FL, May 2-5, 2003.
250. Sanders J, Polly D, Cats-Baril W, Jones J, **Lenke L**, O’Brien M\*, Richards BS, Sucato D. An analysis of patient and parent assessment of deformity in idiopathic scoliosis using the Walter Reed Visual Assessment Scale. Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, FL, May 2-5, 2003.
251. Kim YJ§, **Lenke LG**, Bridwell K, Kim K, Sides B, Whorton J, Blanke K. Prospective evaluation of pulmonary function in adolescent idiopathic scoliosis relative to the surgical approach: minimum 5 year follow up. Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, FL, May 2-5, 2003.
252. Faro F, Newton N, Marks M, Wenger D, Betz R, Clements D, D’Andrea L, **Lenke L**, Lowe T, Merola A, Haher T. Factors involved in the decision to perform a selective vs. non-selective fusion of Lenke 1B and 1C (King 1D) curves in adolescent idiopathic scoliosis (AIS). Podium presentation 24. 10th International Meeting on Advanced Spine Techniques, Rome, Italy, July 10-12, 2003.
253. Tis J, Oswald T, Newton P, Wenger D, **Lenke L**, Betz R, Marks M. Pelvic influence on lumbar lordosis in thoracolumbar adolescent idiopathic scoliosis. Podium presentation 60. 10th International Meeting on Advanced Spine Techniques, Rome, Italy, July 10-12, 2003.
254. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with anterior spinal fusion. Eastern Orthopaedic Association 34th Annual Meeting & Southern Orthopaedic Association 20th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003.
255. Lehman RA, Kuklo TR\*, **Lenke LG**. Thoracic anterior spinal fusion and structures at risk. Eastern Orthopaedic Association 34th Annual Meeting & Southern Orthopaedic Association 20th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003. **1st Place, Outstanding Resident/Fellow Paper Award**
256. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with anterior spinal fusion. World Spine II, Chicago, IL, August 11-13, 2003.
257. Edwards C\*, **Lenke LG**, Peelle M‡, Sides B, Rinella A\*, Bridwell KH. Expandable cages for internal augmentation of fractures in the thoraco-lumbar spine. World Spine II, Chicago, IL, August 11-13, 2003.
258. Kuklo TR\*, **Lenke LG**, O’Brien M\*, Lehman RA, Schroeder T, Polly Jr. DW. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. World Spine II, Chicago, IL, August 11-13, 2003.
259. Asher MA, **Lenke LG**, Labelle HHL, Lonstein JE, Brown CW, Stokes IAF, Coonrad RW, Chan DPK, Deinlein DA, Jackson RP, Emans JB, Knight RQ, King HA, Zeller RD. Reliability of radiographic measurements in operative AIS performed by members of the SRS Working Group on 3D Spinal Classification. Podium presentation 1A. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
260. Asher MA, **Lenke LG**, Labelle HHL, Lonstein JE, Brown CW, Stokes IAF, Coonrad RW, Chan DPK, Deinlein DA, Jackson RP, Emans JB, Knight RQ, King HA, Zeller RD. Interobserver and intraobserver reliability of the SRS classification of adolescent idiopathic scoliosis. Podium presentation 1B. Scoliosis Research Society 38th Annual Meeting, Québec City, Québec, Canada, September 10-13, 2003.
261. O’Brien MF\*, Kuklo TR\*, Richards BS, **Lenke LG**, Polly DW, Schreiber D, Pinteric R, Schroeder T, Blanke KM, AIS Section of the Spinal Deformity Study Group. A Multicenter clinical and radiographic analysis of anterior and posterior surgical techniques for treatment of thoracolumbar/lumbar AIS: the current state of the art. Podium presentation 8. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
262. Satake K§, Lou J, **Lenke LG**. Migration of mesenchymal stem cells through cerebrospinal fluid into injured spinal cord tissue. Podium presentation 13. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
263. Rinella AS\*, **Lenke LG**, Whitaker C, Kim Y§, Park SS, Peelle M‡, Bridwell KH. Perioperative halo-gravity traction in the treatment of severe scoliosis and kyphosis. Podium presentation 29. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
264. **Lenke LG**, Marks M, Blanke K, Sides B, Newton PO, Kim Y§. Prospective pulmonary function comparison of open vs. endoscopic anterior fusion combined with posterior fusion in adolescent idiopathic scoliosis. Podium presentation 40. Scoliosis Research Society 38th Annual Meeting, Montréal, Québec City, Canada, September 10-13, 2003.
265. Bridwell KH, Cats-Baril W, Berven S, Glassman S, Farcy JP, Horton W, **Lenke LG**, Radake T. The validity of the SRS-22 Instrument in an adult spinal deformity population compared to the Oswestry and SF-12. Podium presentation 42. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
266. Glattes RC\*, Bridwell KH, **Lenke LG**, Rinella A\*, Edwards II C\*. Proximal junctional kyphosis in adult spinal deformity following long instrumented posterior spinal fusion: incidence, outcomes and risk factors analysis. Podium presentation 46. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
267. Edwards II CC\*, Bridwell KH, Patel A‡, Rinella A\*, Berra A, **Lenke LG**. Long adult deformity fusions: Is it better to stop at L5 or the sacrum? Podium presentation 48. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
268. Kim Y§, Bridwell KH, **Lenke LG**, Rinella A\*. Pseudarthrosis in adult idiopathic scoliosis primary fusions. Podium presentation 49. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
269. Orchowski JR\*, Bridwell KH, **Lenke LG**. Neurological deficit from a purely vascular etiology after unilateral vessel ligation of segmental arteries during anterior thoracolumbar fusion of the spine. Podium presentation 61. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
270. Kim Y§, **Lenke LG**, Bridwell KH. Comparative analysis of pedicle screw versus hook instrumentation in posterior spinal fusion of adolescent idiopathic scoliosis: A matched cohort analysis. Podium presentation 81. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
271. D’Andrea LP, Betz RR, Newton PO, **Lenke LG**, Clements DH, Harms J, Haher TR, Lowe TG, Merola AA, Crawford AH, Sucato DJ. Effects of continued posterior spinal growth on sagittal contour after anterior spinal fusion with instrumentation of different sizes for adolescent idiopathic scoliosis. Podium presentation 82. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
272. **Lenke LG**, Engsberg JR, Bridwell KH, Uhrich M, Ross S. Prospective evaluation of gait and trunk range of motion (ROM) following anterior or posterior spinal fusion in adolescent idiopathic scoliosis (AIS). Podium presentation 86. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
273. **Lenke LG**, Blanke K, Sides B, Steger-May K, Bridwell KH, Satake K§, Kim Y§. Can we predict postoperative disc wedging below anterior instrumented thoracolumbar/lumbar adolescent idiopathic scoliosis fusions? Podium presentation 88. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
274. Kim YJ§, **Lenke LG**, Bridwell KH. Comparative analysis of pedicle screw versus hook instrumentation in posterior spinal fusion of adolescent idiopathic scoliosis: a matched cohort analysis. North American Spine Society 18th Annual Meeting, San Diego, CA, October 21-25, 2003.
275. Orchowski JR\*, Bridwell KH, **Lenke LG**. Neurological deficit from a purely vascular etiology after unilateral vessel ligation of segmental arteries during anterior thoracolumbar fusion of the spine. North American Spine Society 18th Annual Meeting, San Diego, CA, October 21-25, 2003.
276. Glattes RC\*, Bridwell KH, Rinella AS\*, Edwards II CC\*, **Lenke LG**. An analysis of proximal junctional kyphosis after posterior spinal fusion for adult spinal deformity. Podium presentation 126. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 11, 2004.
277. Spencer UM\*, Padberg AM, Raynor BL, **Lenke LG**, Bridwell KH. Lumbar root deficits undetected by monitoring for complex spinal surgeries: a ten-year experience. Podium presentation 127. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 11, 2004.
278. Kim YJ§, Bridwell KH, **Lenke LG**. Pseudarthrosis in adult idiopathic scoliosis primary fusions. Podium presentation 254. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 12, 2004.
279. **Lenke LG**. Thorascopic anterior versus open posterior spinal fusion for adolescent idiopathic scoliosis. Podium presentation 258. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 12, 2004.
280. Peelle MW‡, **Lenke LG**, Bridwell KH, Patel AA‡. Iliac screw versus Galveston rod pelvic fixation techniques in neuromuscular spinal deformity. Podium presentation 99. Mid-America Orthopaedic Association 22nd Annual Meeting, La Quinta, CA, April 14-18, 2004.
281. Dobbs MB, **Lenke LG**, Peelle MW‡. Curve prevalence of infantile and juvenile curves using a modified Lenke classification scheme. Podium presentation 100. Mid-America Orthopaedic Association 22nd Annual Meeting, La Quinta, CA, April 14-18, 2004.
282. **Lenke LG**, Kim YJ§, Bridwell KH. Comparative analysis of pedicle screw versus hook instrumentation in posterior spinal fusion of adolescent idiopathic scoliosis. Pediatric Orthopaedic Society of North American Annual Meeting, St. Louis, MO, April 27-May 1, 2004.
283. **Lenke LG**, Kim YJ§, Bridwell KH. Can we predict postoperative disc wedging below anterior instrumented thoracolumbar/lumbar adolescent idiopathic scoliosis fusion? Pediatric Orthopaedic Society of North American Annual Meeting, St. Louis, MO, April 27-May 1, 2004.
284. Cheng I\*, Bridwell KH, **Lenke LG**, Hurford Jr. RK\*, Lee SS\*, Chen R‡. Use of bone morphogenetic protein-2 for anterior and posterior adult spinal deformity fusion. Podium presentation 3. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
285. Potter BK, Kuklo TR\*, **Lenke LG**. Radiographic outcomes of anterior spinal fusion versus posterior spinal fusion with thoracic pedicle screws for treatment of Lenke type I adolescent idiopathic scoliosis curves. Podium presentation 34. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
286. Kim YJ§, **Lenke LG**, Cheh G§, Riew KD. CT scan accuracy of “free hand” pedicle screw placement technique in spinal deformity: an analysis of 789 pedicle screws. Podium presentation 38. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
287. **Lenke LG**, O’Brien MF\*, Kuklo TR\*, Polly Jr. DW, Richards BS, Sucato DJ. Indications for circumferential fusion surgery in adolescent idiopathic scoliosis: a multicenter analysis. Podium presentation 40. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
288. O’Brien MF\*, **Lenke LG**, Kuklo TR\*, Polly Jr. DW, Sucato D, Richards BS, Lubicky J, Ibrahim K, Kawakami N, King A. The relationship between the lowest instrumented (LIV), stable (SV), and lowest end vertebra (LEV) in “single overhang” thoracic and thoracolumbar/lumbar AIS: Anterior vs. posterior techniques. Podium presentation 42. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
289. Dobbs MB, **Lenke LG**, Peelle MW‡, Bridwell KH. Selective thoracic fusion for AIS with lumbar C modifier curves: comparison of hooks versus pedicle screws. Podium presentation 44. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
290. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§. Bilateral apical vertebral derotational pedicle screw instrumentation in the posterior spinal fusion of adolescent idiopathic scoliosis: comparison with pedicle screw translational techniques. Podium presentation 47. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
291. Newton PO, Marks M, Betz RR, D’Andrea LP, Clements III DH, **Lenke LG**, Lowe TG, Letko LJ, Haher TR, Merola AA, Crawford AH. Outcomes of surgical treatment in males vs. female adolescent idiopathic scoliosis patients. Podium presentation 48. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
292. **Lenke LG**, Eisermann L, Bilancini M, Kayanja M, Zhang J, Ferrara L. Biomechanics of disc arthroplasty placed below a simulated long spinal fusion construct: is it stable and feasible? Podium presentation 68. 11th International Meeting on Advanced Spine Techniques, Southampton Bermuda, July 1-3, 2004.
293. Cho KJ§, **Lenke LG**, Bridwell KH, Kamiya M§, Sides B. Selection of the optimal distal fusion level in posterior instrumentation and fusion for thoracic hyper-kyphosis: the sagittal stable vertebra concept. Podium presentation 84. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
294. O’Brien MF\*, **Lenke LG**, Sarwark J, Sucato DJ, Richards BS, Kuklo TR\*, Newton PO, Weinstein SL, Diab M, Suk SI. A multicenter clinical and radiographic analysis of anterior and posterior surgical techniques for treatment of “single overhang” thoracic AIS: the current state of the art. Podium presentation 85. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
295. Takeshita K§, **Lenke LG**, Bridwell KH, Kim YJ§, Sides B, Hensley M. Analysis of non-ambulatory neuromuscular scoliosis patients surgically treated to the pelvis with intraoperative halo-femoral traction. Podium presentation 89. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
296. Lowe T, Betz RR, **Lenke LG**, Haher T, Merola A, Newton PO, Clements D, Crawford A, Sucato D, Letko LJ, Wilson L. An analysis of anterior versus posterior instrumented fusion for thoracic adolescent idiopathic (AIS) curves 70-80 degrees: are there advantages of one over the other? Podium presentation 1. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
297. Luhmann S\*, **Lenke LG**, Kim Y§, Bridwell KH, Schootman M. Thoracic adolescent idiopathic scoliosis curves between 70 and 100 degrees: is anterior release necessary? Podium presentation 2. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
298. Cheng I\*, Kim Y§, Gupta M, **Lenke LG**, Bridwell KH, Hurford Jr. R\*, Lee S\*. Apical sublaminar wires versus pedicle screws - Which provides better results for surgical correction of adolescent idiopathic scoliosis? Podium presentation 3. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
299. Lowe T, **Lenke LG**, Betz RR, Newton PO, Clements D, Haher T, Merola A, Crawford A, Sucato D, Letko LJ, Wilson L. Distal junctional kyphosis (DJK) adolescent idiopathic thoracic curves following anterior or posterior instrumented fusion: Incidence, risk factors and prevention. Podium presentation 5. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
300. Kuklo T\*, Potter B, Polly D, **Lenke LG**. Corrective capacity of monaxial versus multiaxial thoracic pedicle screws in adolescent idiopathic scoliosis. Podium presentation 10. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
301. Cho KJ§, Bridwell KH, **Lenke LG**, Berra A, Baldus C. Comparison of Smith-Petersen osteotomies versus pedicle subtraction osteotomies for the treatment of fixed sagittal imbalance (71 patients with minimum 2-year follow-up). Podium presentation 18. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
302. Kim Y§, Bridwell KH, **Lenke LG**, Cho KJ§. Pseudarthrosis in long adult spinal deformity instrumentation and fusions: risk factors and clinical outcome analysis of 228 cases. Podium presentation 20. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
303. Tsuchiya K§, Bridwell KH, Kuklo T\*, **Lenke LG**, Baldus C. Minimum 5-year analysis of L5-S1 fusion using sacropelvic fixation (bilateral S1 and iliac screws) for spinal deformity. Podium presentation 21. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
304. Kim Y§, Bridwell KH, **Lenke LG**, Kim J, Cho S¥. Proximal junctional kyphosis in adolescent idiopathic scoliosis following instrumented posterior only spinal fusion: Incidence and risk factor analysis of 328 patients. Podium presentation 29. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
305. Riew KD, Cho Y, Yin Y§, Park JB, Gilula L, Bridwell KH, **Lenke LG**, Taylor B. Effect of nerve root injections on need for operative treatment of lumbar radicular pain: 5-year follow-up. Podium presentation 52. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
306. Thuet E, Padberg A, Raynor B, Bridwell KH, Riew KD, Taylor B, **Lenke LG**. Increased risk of postoperative neurologic deficit for spinal surgery patients with unobtainable intraoperative evoked potential data. Podium presentation 68. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
307. Peelle MW‡, **Lenke LG**, Bridwell KH, Sides B. Comparison of Galveston rod vs. iliac screw pelvic fixation techniques in neuromuscular spinal deformity correction. Podium presentation 70. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
308. Kim Y§, **Lenke LG**, Cheh G§, Riew KD. Evaluation of pedicle screw placement in the deformed spine using intraoperative plain radiographs: A comparison with CT scans. Podium presentation 78. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
309. Newton PO, Faro FD, Gollogly S, Betz RR, Clements D, **Lenke LG**, Lowe T, Crawford A, Haher T, Merola A. Pulmonary function in adolescent idiopathic scoliosis. Podium presentation 95. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
310. Potter BK, Kuklo TR\*, Lenke LG. Radiographic outcomes of anterior spinal fusion versus posterior spinal fusion with thoracic pedicle screws. Eastern Orthopaedic Association 35th Annual Meeting, Rio Grande, Puerto Rico, October 14, 2004.
311. Olsen M‡, Nepple J¥, Riew KD, **Lenke LG**, Mayfield J, Fraser V. Independent risk factors for postoperative spinal would infection. Podium presentation 11. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
312. Kim YJ§, Bridwell KH, **Lenke LG**, Cho KJ§. Pseudarthrosis in long adult spinal deformity instrumentation and fusions. Podium presentation 34. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
313. Kim YJ§, **Lenke LG**, Bridwell KH, Sides B. Prospective pulmonary function comparison of anterior spinal fusion in adolescent idiopathic scoliosis: Thoracotomy vs. thoracoabdominal approach. Podium presentation 92. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
314. Kim YJ§, Bridwell KH, **Lenke LG**, Kim J, Cho SK¥. Proximal junctional change in adolescent idiopathic scoliosis following segmental posterior spinal instrumentation and fusion: minimum five-year follow-up. Podium presentation 94. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
315. Cho KJ§, **Lenke LG**, Bridwell KH, Kamiya M§, Sides B. Selection of distal fusion levels with reference to the sagittal stable vertebra in posterior instrumentation and fusion for thoracic hyperkyphosis. Podium presentation 108. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
316. Lehman RA, Kuklo TR\*, Potter BK, Polly DW, Lenke LG. Corrective capacity of monaxial versus multiaxial thoracic pedicle screws in adolescent idiopathic scoliosis. Society of Military Orthopaedic Surgeons 46th Annual Meeting, Vail, CO, December 6-10, 2004.
317. Riew KD, Park JB, Cho YS, Yin Y§, Gilula LA, Bridwell KH, **Lenke LG**, Taylor BA. Effect of nerve root injections on need for operative treatment lumbar radicular pain, 5 year follow-up. Podium presentation No. 184. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
318. Lee SS\*, **Lenke LG**, Peelle M‡, Okubadejo G‡, Cheng I\*, Hurford R\*, Bridwell KH, Sides B, Stobbs G. Preserving the degenerated L5-S1 segment in degenerative lumbar fusion surgery in older patients. Podium presentation No. 187. American Academy of Orthopaedic Surgeons 72nd Annual Meeting Washington, D.C., February 23-25, 2005.
319. Cho KJ§, Bridwell KH, **Lenke LG**, Berra A, Baldus C. Smith-Petersen versus pedicle subtraction osteotomies for fixed sagittal imbalance (71 patients). Podium presentation 190. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
320. Newton PO, Faro, F, Gollogly S, Betz RR, Clements III DH, **Lenke LG**, Lowe TG, Crawford AH, Haher TR. Pulmonary function in adolescent idiopathic scoliosis. Podium presentation 287. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
321. Kim YJ§, **Lenke LG**, Bridwell KH, Kim J§, Cho S¥. Comparison of pedicle screw versus hybrid instrumentation in adolescent idiopathic scoliosis. Podium presentation 289. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
322. Cheng I\*, Kim YJ§, Gupta MC, **Lenke LG**, Bridwell KH, Hurford Jr. RK\*, Lee SS\*. Apical sublaminar wires vs. pedicle screws-which provides better AIS corrective results? Podium presentation 290. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
323. Kim YJ§, **Lenke LG**, Bridwell KH, Kim J§, Cho S¥. Proximal junctional kyphosis in 328 adolescent idiopathic scoliosis after posterior spinal fusion. Podium presentation 292. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
324. Kim YJ§, Bridwell KH, **Lenke LG**, Rinella A\*, Edwards II C\*, Cho KJ§. Pseudarthrosis in 228 long adult spinal deformity segmental instrumented fusions. Podium presentation 298. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-25, 2005.
325. Dobbs MB, Okubadejo G‡, Nunley RM‡, **Lenke LG**, Peelle MW‡. Selective thoracic fusion for adolescent idiopathic scoliosis: Comparison of hooks versus pedicle screws. Podium presentation 5. Mid-America Orthopaedic Association 23rd Annual Meeting, Amelia Island, FL, April 20-24, 2005.
326. Peelle MW‡, Dobbs MB, Lee S\*, **Lenke LG**, Bridwell KH. Outcome analysis of adolescent idiopathic scoliosis curves greater than 90 degrees. Podium presentation 79. Mid-America Orthopaedic Association 23rd Annual Meeting, Amelia Island, FL, April 20-24, 2005.
327. Sucato DJ, Newton P, Betz R, Picetti G, **Lenke L**, Hresko MT, Hu S, Braun J, Roye D. Defining the learning curve for performing a thoracoscopic anterior spinal fusion and instrumentation for AIS: A multi-center study. Podium presentation 26. Pediatric Orthopaedic Society of North America Annual Meeting, Ottawa, Ontario, Canada, May 12-15, 2005.
328. Luhmann SJ\*, Bridwell KH, Cheng I\*, Imamura T§, **Lenke LG**, Schootman M. Use of bone morphogenetic protein-2 for adult spinal deformity. Podium presentation 27. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
329. Polly Jr. DW, **Lenke LG**, Kuklo TR\*. Vertebral number variation and potential impact for wrong level surgery. Podium presentation 29. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
330. Crawford A, Babekhir N, Lowe TG, Betz R, **Lenke L**, Haher T, Merola A, Newton P, Clements D, Sucato DJ, Letko L. Comparison between left and right thoracic curves in idiopathic scoliosis. Podium presentation 30. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
331. Breakwell LM§, Silva FE^, **Lenke LG**. Are left thoracic curves more kyphotic and stiffer than right-sided curves? Podium presentation 31. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
332. Betz RR, O’Brien MF\*, Porter ST, Newton PO, Clements DH, **Lenke LG**, Lowe TG, Harms J, D’Andrea LP, Harms Study Group. Open anterior spinal fusion for thoracic adolescent idiopathic scoliosis (AIS): A prospective five-year follow-up. Podium presentation 35. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
333. Luhmann SJ\*, **Lenke LG**, Kim YJ§, Bridwell KH, Schootman M. Cost analysis of circumferential fusion versus posterior fusion-only with thoracic pedicle screw constructs of 70-100 degree idiopathic thoracic curves. Podium presentation 37. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
334. Kuklo TR\*, **Lenke LG**, Potter BK, Polly Jr. DW, Sides B, Bridwell KH. Surgical revision rate of hooks versus hybrid versus pedicle screw constructs for AIS. Podium presentation 40. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
335. Clements DH, Marks M, Porter ST, Betz RR, D’Andrea LP, Newton PO, Harms Study Group. Trunk shape correction and patient satisfaction in adolescent idiopathic scoliosis. Podium presentation 45. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
336. **Lenke LG**, Braun JT, Bridwell KH, Dimar JR, Dobbs M, Glassman S, Hedequist D, Hresko MT, Kuklo TR\*, McCarthy RE, Polly DW, Richards BS, Sanders J, Sarwark J, Sponseller P, Sucato D, Weinstein S. Reliability analysis of end, neutral, stable, and lowest instrumented vertebrae selection in adolescent idiopathic scoliosis: Surgeon versus digital software determination. Podium presentation 46. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
337. Sucato DJ, **Lenke LG**, Richards BS, Kuklo T\*, O’Brien M\*, Polly DW, Spinal Deformity Study Group. Changes in body mass index in adolescent idiopathic scoliosis surgical patients. Podium presentation 49. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
338. Bess RS\*, **Lenke LG**, Bridwell KH, Cheh G§, Sides B. Comparison of thoracic pedicle screw to hook instrumentation for the treatment of adult spinal deformity. Podium presentation 81. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
339. Yang Y§, **Lenke LG**, Bridwell KH, Riew KD, Stobbs G. The impact of the lumbar spine modifier and thoracic sagittal profile on the main thoracic component of a Lenke type I scoliosis. Podium presentation 5A. Asia Pacific Spine Congress, Jeju Island, Korea, August 25-27, 2005.
340. Kim Y§, Bridwell KH, **Lenke LG**, Rhim S§, Cheh G§. Thoracic kyphosis progression following long lumbar fusion from the thoracolumbar junction to L5-S1. Podium presentation 21A. Asia Pacific Spine Congress, Jeju Island, Korea, August 25-27, 2005.
341. Yang Y§, **Lenke LG**, Bridwell KH, Riew KD. The association of hip arthroplasty in adjacent segment degeneration after fusion of degenerative spinal disorder – a case control study. Podium presentation 27A. Asia Pacific Spine Congress, Jeju Island, Korea, August 25-27, 2005.
342. Breakwell LM§, Marks DS, Thompson AG, Betz RR, D’Andrea L, **Lenke LG**. Complications of scoliosis surgery in Prader-Willi syndrome patients. Podium presentation 22. EuroSpine 14th Annual Meeting, Barcelona, Spain, September 21-24, 2005.
343. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim S§, Cheh G§. Sagittal thoracic decompensation (STD) following adult lumbar spinal instrumentation and fusion to L5 or S1: causes, incidence, and risk factors analysis. Podium presentation 28. EuroSpine 14th Annual Meeting, Barcelona, Spain, September 21-24, 2005.
344. Braun JT, Bridwell KH, Dimar JR, Dobbs MB, Glassman SD, Hedequist DJ, Hresko MT, Kuklo TR\*, **Lenke LG**, McCarthy RE. Reliability analysis of end, neutral, stable, and lowest instrumented vertebra selection in adolescent idiopathic scoliosis: Surgeon versus digital software determination. Podium presentation 68. EuroSpine 14th Annual Meeting, Barcelona, Spain, September 21-24, 2005.
345. Angevine PD\*, **Lenke LG**, Stobbs G, Bridwell KH. Cost-offset analysis of bone morphogenic protein-2 (rhBMP-2) in primary surgery for adolescent idiopathic scoliosis. Podium presentation 1. EuroSpine 14th Annual Meeting, Barcelona, Spain, September 21-24, 2005.
346. Lee SS\*, **Lenke LG**, Peelle MW‡, Okubadejo GO‡, Cheng I\*, Hurford Jr. RK\*, Bridwell KH, Sides B, Stobbs G. Preserving the degenerated L5-S1 segment in degenerative lumbar fusion surgery in an older patient population: is it possible? Podium presentation 162. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
347. Labrom RD, Armstrong PF, **Lenke LG**. Growth and maturation of the spine from birth to adolescence. SHC/SRS/POSNA Symposium, Needham, MA, October 26, 2005.
348. **Lenke LG**, Dobbs MB, Armstrong PF. Management of juvenile idiopathic scoliosis. SHC/SRS/POSNA Symposium, Needham, MA, October 26, 2005.
349. Sanders JO, Armstrong PF, **Lenke LG**. Maturity indicators in spinal deformity. SHC/SRS/POSNA Symposium, Needham, MA, October 26, 2005.
350. Dobbs MB, **Lenke LG**. Selective posterior thoracic fusions for adolescent idiopathic scoliosis: Comparison of hooks versus pedicle screws. Podium presentation 4. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
351. Vora V, Crawford AH, Babekhir N, Boachie-Adjei O, **Lenke LG**, Peskin M, Charles G, Kim YJ§. A pedicle screw construct gives an enhanced posterior correction of adolescent idiopathic scoliosis when compared to other constructs – Myth or reality? Podium presentation 5. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
352. Lowe TG, Chien JT, Betz RR, **Lenke LG**, Newton PO, Clements III DH, Crawford AH, Letko LJ. The surgical treatment of double thoracic curves in adolescent idiopathic scoliosis – Factors involved in the decision to perform a selective fusion of the main thoracic curve versus a posterior fusion. Podium presentation 6. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
353. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Cho SK¥, Ramo B¥, Yoon JY§. Sagittal plane analysis following posterior segmental spinal instrumentation. Podium presentation 7. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
354. Dobbs MB, **Lenke LG**, Bridwell KH. Comparison of combined anterior/posterior spinal fusion versus posterior fusion alone for the treatment of adolescent idiopathic curves greater than 90 degrees. Podium presentation 8. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
355. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim SC§, Cheh G§. When fusing from the thoracolumbar junction to L5-S1, how much lordosis is ideal? Podium presentation 17. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
356. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim SC§, Cheh G§. Sagittal thoracic decompensation (STD) following adult lumbar spinal instrumentation and fusion to L5 or S1: causes, incidence, and risk factors analysis. Podium presentation 33. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
357. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim SC§, Cheh G§. Pseudarthrosis in long adult spinal deformity instrumentation and fusions to the sacrum: incidence and risk factor analysis of 149 cases. Podium presentation 34. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
358. Schroeder TM, Blanke KM, Kuklo TR\*, Vaughan A, Morrison MM, Polly Jr. DW, **Lenke LG**, Richards III BS. Validation of radiographic software to determine Lenke classification. Podium presentation 54. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
359. Takeshita K§, **Lenke LG**, Bridwell KH, Kim YJ§, Sides B, Hensley M. Analysis on non-ambulatory neuromuscular scoliosis patients surgically treated to the pelvis with intraoperative halo-femoral traction. Podium presentation 66. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
360. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Sides B. Prospective pulmonary function comparison following posterior spinal fusion of adolescent idiopathic scoliosis. Is there a relationship between main thoracic curve correction and PFT improvement? Podium presentation 70. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
361. Kishan S, Newton PO, Betz RR, **Lenke LG**, Lowe TG, Clements III DH, D’Andrea LP, Sucato DJ. Thoracoscopic anterior instrumentation affects pulmonary function less than open thoracotomy at two years postop. Podium presentation 71. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
362. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Sides B. Prospective pulmonary function comparison of anterior spinal fusion in adolescent idiopathic scoliosis: thoracotomy vs. thoracoabdominal approach. Podium presentation 73. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
363. Lee SS\*, **Lenke LG**, Kuklo TR\*, Valenté L§, Bridwell KH, Sides B, Blanke KM. Comparison of Scheuermann’s kyphosis correction by posterior only thoracic pedicle screw fixation vs. combined anterior/posterior fusion. Podium presentation 75. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
364. Lonner BS, Scharf C, Newton PO, O’Brien MF\*, Sponseller PD, **Lenke LG**, Crawford AH, Letko LJ, Lowe TG, Shufflebarger HL. Operative management of Scheuermann’s kyphosis in 78 patients. Podium presentation 76. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
365. Raynor BL, **Lenke LG**, Bridwell KH, Taylor BA, Padberg AM. Correlation between low triggered EMG thresholds & lumbar pedicle screw malposition: analysis of 4587 screws. Podium presentation 83. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
366. Hurford Jr. RK\*, **Lenke LG**, Lee SS\*, Cheng I\*, Sides B, Bridwell KH. Prospective radiographic and clinical outcomes of dual rod instrumented anterior spinal fusion in adolescent idiopathic scoliosis: comparison with single rod constructs. Podium presentation 89. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
367. Bess RS\*, **Lenke LG**, Bridwell KH, Steger-May K, Hensley M. Wasting of preoperatively donated autologous blood in the surgical treatment of adolescent idiopathic scoliosis. Podium presentation 94. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 27-30, 2005.
368. Potter BK, Kuklo TR\*, **Lenke LG**, Polly DW, Bridwell KH. Surgical revision rate of hooks vs. hybrid vs. screws vs. ASF/PSF for AIS. Society of Military Orthopaedic Surgeons 47th Annual Meeting, Kissimmee, FL, December 12-16, 2005.
369. Buchowski JM\*, Bridwell KH, **Lenke LG**, Kim YJ§. Neurologic complications of pedicle subtraction osteotomy. Kostuik Research Society 1st Annual Meeting, San Francisco, CA, February 16-18, 2006.
370. Dobbs MB, **Lenke LG**. Anterior/posterior fusion versus posterior fusion for the treatment of severe pediatric scoliosis. Podium presentation 332. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
371. Crawford AH, Babekhir N, Boachie-Adjei O, Charles G, **Lenke LG**, Kim Y§. Pedicle screw construct gives postoperative correction of AIS when compared to other constructs: Myth or reality? Podium presentation 334. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
372. Kuklo TR\*, **Lenke LG**, Bridwell KH, Potter B, Polly Jr. DW, Schroeder TM. Surgical revision rate of hooks versus hybrid versus pedicle screws in AIS. Podium presentation 338. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
373. Lonner B, Lowe TG, Newton PO, O’Brien MF\*, Sponseller PD, Betz RR, **Lenke LG**, Crawford AH, Letko LJ. Operative management of Scheuermann’s kyphosis in 78 patients: Outcomes, complications, and technique. Podium presentation 340. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
374. Lee SS\*, **Lenke LG**, Kuklo TR\*, Valenté L§, Bridwell KH, Sides B, Blanke K. Posterior only pedicle screw fusion vs. anterior/posterior hybrid fusion in Scheuermann’s kyphosis. Podium presentation 341. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
375. Sucato DJ, Newton PO, Betz RR, Picetti III GD, **Lenke LG**, Hresko MT, Hu SS, Braun JT, Roye Jr. DP. Learning curve for thoracoscopic anterior fusion and instrumentation for AIS: A multi-center study. Podium presentation 414. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
376. Kishan S, Newton PO, Betz RR, **Lenke LG**, Lowe TG, Clements III DH, D’Andrea LP, Sucato DJ. Thoracoscopic anterior scoliosis instrumentation improves pulmonary function at two years follow-up. Podium presentation 415. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
377. Newton P, Kishan S, Bastrom T, Betz R, **Lenke L**, Lowe T, Clements D, D’Andrea L, Sucato D. Thoracoscopic scoliosis surgery affects pulmonary function less than thoracotomy at two years post-surgery. Podium presentation 38. Pediatric Orthopaedic Society of North America Annual Meeting, San Diego, CA, May 3-6, 2006.
378. Angevine PD\*, Bridwell KH, Hurford Jr. RK\*, **Lenke LG**, Baldus C. Enhancement of lumbar lordosis with titanium mesh cages (ALIF) in adult deformity patients. Podium presentation 34. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
379. Watanabe K§, **Lenke LG**, Daubs MD^, Bridwell KH, Stobbs G, Hensley M. Avoiding screw fixation failure during osteotomy closure with the use of a central hook/rod construct. Podium presentation 51. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
380. Newton PO, Perry A, Bastrom T, **Lenke LG**, Betz RR, Clements DH, D’Andrea LP, Harms Study Group. Factors that influence two-year pulmonary function testing after surgical treatment of adolescent idiopathic scoliosis. A prospective study of 269 patients. Podium presentation 59. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
381. Angevine PD\*, **Lenke LG**, Stobbs G, Bridwell KH. Cost-offset analysis of bone morphogenetic protein-2 (rhBMP-2) in primary surgery for adult idiopathic scoliosis: Is it worth it? Podium presentation 100. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
382. Daubs MD^, **Lenke LG**, Kim YJ§, Cheh G§, Stobbs G, Bridwell KH. Does correction of preoperative coronal imbalance make a difference in outcomes of adult deformity patients? Podium presentation 107. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
383. Clements DH, Marks MC, Newton PO, Betz RR, **Lenke LG**, O’Brien MF\*, Lowe TG, Harms Study Group. Analysis of adherence to Lenke classification treatment algorithm recommendations. Podium presentation 127. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
384. **Lenke LG**, Sucato DJ, Emans JB, Richards BS, Kuklo TR\*, McCarthy RE, Diab M. Prospective multicenter evaluation of fusion level selection in adolescent idiopathic scoliosis. Are the Lenke classification rules still followed? Podium presentation 128. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
385. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Kim YB§, Sides B. Adverse impact of resection thoracoplasty following posterior segmental spinal instrumentation of adolescent idiopathic scoliosis. Podium presentation 129. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
386. **Lenke LG**, Kuklo TR\*, Sucato DJ, Richards BS, Emans JB, Sides B. Comparison of the lower-end vertebra (LEV) to the lowest instrumented vertebra (LIV) in adolescent idiopathic scoliosis. A role for the addition of an LEV modifier to the Lenke classification system. Podium presentation 131. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
387. Kuhns CA\*, **Lenke LG**, Buchowski JM\*, Lehman RA\*, Rajan S, Amor CJ, Lee SS\*, Kuklo TR\*, Bridwell KH. Prediction of kyphosis correction based on the hyperextension lateral radiograph. Podium presentation 132. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
388. Lehman Jr. RA\*, **Lenke LG**, Keeler K‡, Kim YJ§, Cheh G§, Buchowski JM\*, Kuhns CA\*, Sides B, Bridwell KH. Treatment of adolescent idiopathic scoliosis with pedicle screw-only constructs: Minimum 3-year follow-up of 103 cases. Podium presentation 1. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
389. Kuklo TR\*, **Lenke LG**, Potter BK, Polly Jr. DW, Sides B, Bridwell KH. Surgical revision rate of hooks vs. hybrid vs. screws vs. ASF/PSF for AIS. Podium presentation 2. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
390. Glassman SD, Schwab FJ, Bridwell KH, Ondra SL, Berven SH, **Lenke LG**. Why adult scoliosis patients choose surgery. Podium presentation 15. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
391. Kim YB§, **Lenke LG**, Kim YJ§, Kim YW§, Bridwell KH, Stobbs G. Surgical treatment of adult lumbar scoliosis - Is anterior apical release and fusion necessary? Podium presentation 16. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
392. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim S§, Kim YW§. Is the T9, T11, or L1 proximal level the more stable following lumbar/lumbosacral fusions from the thoracolumbar junction to L5-S1? Podium presentation 19. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006. **Hibbs Award Nominee for Best Clinical Podium presentation**
393. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim SC§, Cheh G§. Proximal junctional kyphosis following adult spinal deformity long posterior segmental instrumentation and fusion: Minimum 5 years follow-up. Podium presentation 20. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
394. Lehman Jr. RA\*, Bridwell KH, Keeler K‡, Cheh G§, Buchowski JM\*, Kuhns CA\*, **Lenke LG**. Proximal junctional kyphosis in adult spinal deformity: Comparison of hook versus pedicle screw constructs. Podium presentation 21. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
395. Kuhns CA\*, Bridwell KH, **Lenke LG**. Thoracolumbar deformity arthrodesis stopping at L5. Fate of the L5-S1 disc with a minimum 5-year follow-up. Podium presentation 22. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
396. Buchowski JM\*, **Lenke LG**, Kuhns CA\*, Lehman Jr. RA\*, Seshadri V¥, Sides B, Bridwell KH. Infections following spinal deformity surgery: A twenty-year assessment of 2876 patients. Podium presentation 34. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
397. Buchowski JM\*, Bridwell KH, **Lenke LG**, Lehman Jr. RA\*, Kuhns CA\*, Kim YJ§, Steward D¥, Baldus C. Neurologic complications of pedicle subtraction osteotomy: A ten-year assessment. Podium presentation 36. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
398. Cheh G§, Bridwell KH, **Lenke LG**, Kim YJ§, Daubs MD^, Buchowski JM\*, Baldus C. Risk factors for adjacent segment degeneration following lumbar/thoracolumbar fusion with pedicle screw instrumentation: A minimum 5 year follow-up. Podium presentation 45. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006. **Hibbs Award Nominee for Best Clinical Podium presentation**
399. Kim YW§, **Lenke LG**, Kim YJ§, Bridwell KH, Kim YB§. Free hand pedicle screw placement during revision spinal surgery: Analysis of 552 screws. Podium presentation 51. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
400. Lehman Jr. RA\*, **Lenke LG**, Kim YJ§, Cheh G§, Keeler K‡, Sides B. Computed tomography (CT) evaluation of pedicle screws placed into deformed spines over an 8 year period. Podium presentation 53. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
401. Watanabe K§, **Lenke LG**, Bridwell KH, Kim YJ§, Watanabe K§, Hensley M, Stobbs G. Comparison of radiographic outcomes for scoliosis curves ≥100 degrees: Wires vs. hooks vs. screws. Podium presentation 56. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
402. Cheh G§, **Lenke LG**, Bridwell KH, Kim YJ§, Daubs MD^, Stobbs G. Decompression alone vs. decompression with limited fusion for the treatment of degenerative lumbar scoliosis with stenosis. Podium presentation 58. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
403. Daubs MD^, **Lenke LG**, Cheh G§, Stobbs G, Bridwell KH. Adult spinal deformity surgery: Complications and outcomes in patients over age 60. Podium presentation 60. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006. **Hibbs Award Nominee for Best Clinical Paper Presentation**
404. Cheh G§, **Lenke LG**, Kim YJ§, Daubs MD^, Padberg A, Kuhns CA\*, Stobbs G, Hensley M. Loss of spinal cord monitoring signals during thoracic kyphosis correction with spinal osteotomy: Why does it occur and what should you do? Podium presentation 61. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006. **Hibbs Award Nominee for Best Clinical Paper Presentation**
405. Watanabe K§, **Lenke LG**, Daubs MD^, Watanabe K§, Bridwell KH, Stobbs G, Hensley M. Is spinal deformity surgery in patients with cerebral palsy truly beneficial? A patient/parent evaluation. Podium presentation 64. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
406. Kim YB§, **Lenke LG**, Kim YJ§, Kim YW§, Blanke K, Stobbs G, Bridwell KH. The morbidity of an anterior thoracolumbar approach in adult patients with greater than five-year follow-up. Podium presentation 67. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
407. Kim YJ§, Bridwell KH, **Lenke LG**, Cheh G§, Baldus C. Results of lumbar pedicle subtraction osteotomies for fixed sagittal imbalance: a 5 year minimum follow-up study. Podium presentation 73. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006. **Hibbs Award Nominee for Best Clinical Paper Presentation**
408. Okubadejo GO‡, Bridwell KH, **Lenke LG**, Buchowski JM\*, Fang D, Baldus C. Aprotinin decreases blood loss in complex adult spinal deformity but increases the risk of acute renal failure. Podium presentation 85. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
409. Puno RM, **Lenke LG**, Richards III BS, Sucato D, Emans JB, Erickson MA, Bridwell KH. Non-neurological complications following surgery for adolescent idiopathic scoliosis. Podium presentation 86. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
410. Cheh G§, **Lenke LG**, Kim YJ§, Lehman Jr. RA\*, Keeler K‡, Bridwell KH. The reliability of preoperative supine radiographs to predict the amount of curve flexibility in adolescent idiopathic scoliosis. Podium presentation 91. Scoliosis Research Society 41st Annual Meeting, Monterey, CA, September 13-16, 2006.
411. Angevine PD\*, **Lenke LG**, Stobbs G, Bridwell KH. Cost-offset analysis of bone morphogenic protein-2 (rhBMP-2) in primary surgery for adult idiopathic scoliosis: Is it worth it? Podium presentation 12. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
412. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim SC§, Kim YW§. Thoracic kyphosis progression following long lumbar/lumbosacral fusions from the thoracolumbar junction to L5-S1. Podium presentation 22. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
413. Kuhns C\*, Amor C¥, Buchowski J\*, Lehman Jr. R\*, Edwards C\*, **Lenke LG**, Bridwell K. Thoracolumbar fusions stopping at L5. Fate of the L5-S1 disc with a minimum 5-year follow-up. Podium presentation 24. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
414. Lehman Jr. R\*, Kim YJ§, **Lenke LG**, Cheh G§, Kuhns C\*, Buchowski J\*, Keeler K‡. Evaluation of safety and efficacy of pedicle screw placement evaluated by computed tomography (CT): 8-year review. Podium presentation 25. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
415. Buchowski J\*, Kuhns C\*, Lehman Jr. R\*, Kim Y§, **Lenke L**, Bridwell K. Neurologic complications of pedicle subtraction osteotomy: a ten-year review. Podium presentation 64. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
416. Lonner B, Scharf C, Newton P, O’Brien M\*, Sponseller P, Betz RR, **Lenke L**, Crawford A, Letko L, Lowe T, Shufflebarger H, Harms J. Operative management of Scheuermann’s kyphosis in 78 patients. Podium presentation 133. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
417. Cheh G§, **Lenke L**, Kim Y§, Lehman R\*, Daubs M^, Nunley R‡, Bridwell K. Use of a supine radiograph to accurately predict structural curve in operative adolescent idiopathic scoliosis. Podium presentation 134. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
418. Puno R, **Lenke L**, Richards BS, Sucato D, Emans J, Erickson M. Non-neurologic complications following surgery for adolescent idiopathic scoliosis. Podium presentation 158. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
419. Buchowski J\*, Lehman Jr. R\*, Kuhns C\*, Bridwell KH, **Lenke LG**. Infections in spinal deformity surgery: a fifteen-year review. Podium presentation 159. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
420. Cheh G§, Bridwell K, **Lenke L**, Kim Y§, Daubs M^, Baldus C. Adjacent segment degeneration following lumbar/thoracolumbar fusion with pedicle screw instrumentation: A minimum 5 year follow-up. Podium presentation 160. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
421. Kim Y§, Bridwell K, **Lenke L**, Cheh G§. Long-term results of lumbar pedicle subtraction osteotomies for fixed sagittal imbalance: A minimum 5 year follow-up study. Podium presentation 161. North American Spine Society 21st Annual Meeting, Seattle, WA, September 26-30, 2006.
422. Cheh G§, **Lenke L**, Kim Y§, Daubs M^, Padberg A, Stobbs G. Loss of spinal cord monitoring signals in children during thoracic kyphosis correction with spinal osteotomy. Why does it occur and what should you do? Podium presentation 50. Spine Society of Europe 15th Annual Meeting, Istanbul, Turkey, October 25-28, 2006.
423. Kim YB§, **Lenke LG**, Kim YJ§, Kim YW§, Bridwell KH, Stobbs G. Surgical treatment of adult lumbar scoliosis – Is anterior apical release and fusion necessary? Podium presentation 67. Spine Society of Europe 15th Annual Meeting, Istanbul, Turkey, October 25-28, 2006.
424. Lehman Jr. RA\*, **Lenke LG**, Keeler KA‡, Kim YJ§, Buchowski JM\*, Cheh G§, Kuhns CA\*, Bridwell KH. Operative treatment of adolescent idiopathic scoliosis with posterior pedicle screw-only constructs: Minimum 3-year follow-up of 103 cases. Podium presentation 69. Spine Society of Europe 15th Annual Meeting, Istanbul, Turkey, October 25-28, 2006.
425. Daubs MD^, **Lenke LG**, Cheh G§, Stobbs G, Bridwell KH. Adult spinal deformity surgery: Complications and outcomes in patients over age 60. Podium presentation 75. Spine Society of Europe 15th Annual Meeting, Istanbul, Turkey, October 25-28, 2006.
426. Puno RM, **Lenke LG**, Richards III BS, Sucato DJ, Emans JB, Erickson MA. Non-neurological complications following surgery for adolescent idiopathic scoliosis. Podium presentation 106. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
427. Daubs MD^, **Lenke LG**, Cheh G§, Stobbs G, Bridwell KH. Adult spinal deformity surgery: Complications and outcomes in patients over age 60. Podium presentation 108. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
428. Kim YJ§, Bridwell KH, **Lenke LG**, Cheh G§. Results of lumbar PSO for fixed sagittal imbalance: A minimum 5 years follow-up study. Podium presentation 112. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
429. Kim YJ§, Bridwell KH, Cheh G§, **Lenke LG**. Proximal junctional kyphosis in adult spine following posterior spinal fusion: minimum 5-Year follow up. Podium presentation 114. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
430. Lehman R\*, **Lenke LG**, Keeler KA‡, Kim YJ§, Cheh G§, Kuhns C\*, Buchowski J\*, Bridwell KH. Surgical treatment of AIS with posterior pedicle screw-only constructs-Min 3yr follow up Podium presentation 117. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
431. Kim YW§, Bridwell KH, **Lenke LG**, Kim YJ§. Is the T9, T11, or L1 proximal level the more stable after lumbar instrumented fusion to L5-S1? Podium presentation 119. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
432. **Lenke LG**, Watanabe K§, Bridwell KH, Kim YJ§, Watanabe K§, Hensley M, Stobbs G. Comparison of radiographic outcomes for scoliosis curves > 100 degrees: Wires vs. hooks vs. screws. Podium presentation 277. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
433. **Lenke LG**, Cheh G§, Kim YJ§, Daubs MD^, Padberg A, Stobbs G, Hensley M. Loss of spinal cord monitoring in children during thoracic kyphosis correction with spinal osteotomy. Podium presentation 282. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
434. Baldus C, Bridwell KH, **Lenke LG**, Okubadejo G‡, Buchowski J\*, Fang D. Efficacy and complications associated with aprotinin use in long thoracolumbar arthrodesis. Podium presentation 438. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
435. Yang JY§, **Lenke LG**, Riew KD, Lee JK. Usefulness of the laminar nutrient foramen as a landmark for insertion of thoracic pedicle screws. Podium presentation 440. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.
436. Okubadejo GO‡, Bridwell KH, Nunley RM‡, **Lenke LG**, Baldus CR, Buchowski JM\*, Fang D. Aprotinin decreases blood loss in complex adult spinal deformity spinal deformity, but increases the risk of acute renal failure. Podium presentation 105. Mid-America Orthopaedic Association 23rd Annual Meeting, April 11-15, 2007.
437. Upasani V, Caltoum C, Petcharaporn M, Bastrom T, Lowe T, Betz R, Clements D, **Lenke L**, Newton P. Adolescent idiopathic scoliosis patients report increased pain at 5 years compared to 2 years after surgical treatment. Podium presentation 5. Pediatric Orthopaedic Society of North America Annual Meeting, Hollywood, FL, May 23-26, 2007.
438. Patel PN, Bastrom TP, Marks MC, Pawelek J, Betz RR, **Lenke LG**, Newton PO. Spontaneous lumbar curve correction in selective thoracic fusions of idiopathic scoliosis - Anterior and posterior approaches. Podium presentation 6. Pediatric Orthopaedic Society of North America Annual Meeting, Hollywood, FL, May 23-26, 2007.
439. Luhmann SJ\*, **Lenke LG**, Bridwell KH. Revision surgery after primary spine fusion for idiopathic scoliosis. Results from a different institution. Podium presentation 7. Pediatric Orthopaedic Society of North America Annual Meeting, Hollywood, FL, May 23-26, 2007.
440. Luhmann SJ\*, Kim YJ§, **Lenke LG**, Bridwell KH. The impact of curve characteristics and spine fusion on pulmonary function in adolescent idiopathic scoliosis. Podium presentation 55. Pediatric Orthopaedic Society of North America Annual Meeting, Hollywood, FL, May 23-26, 2007.
441. McCarthy RE, **Lenke LG**, Luhmann SJ\*, McCullough FL. A new approach for correction of scoliosis in children: The Shilla procedure. Podium presentation 27. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
442. Sanders JO, Dormans JP, Kuklo TR\*, **Lenke LG**, Richards BS, Johnston CE, Sucato DJ, Emans JB, Diab M, Shainline MR, Wootten D. Change in thoracic sagittal alignment following posterior instrumentation for Lenke 1A and B curves. Podium presentation 50. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
443. Cheng I\*, Lindsey DP, Iezza AP, Hay D, **Lenke LG**. Biomechanical analysis of derotation of the thoracic spine using linked pedicle screws. Podium presentation 84. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
444. Bess RS\*, Bridwell KH, Lee SS\*, Cronen GA\*, **Lenke LG**, Steger-May K, Flynn J. Reconstitution of the posterior iliac crest bone graft site: A prospective evaluation of 3 backfilling techniques. Podium presentation 150. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
445. Aubin CE, Labelle H, **Lenke LG**, Jackson RP, Newton PO, Stokes IA. The central hip vertical axis (CHVA): A new reference axis as an initial basis for the SRS 3D classification of idiopathic scoliosis. Podium presentation 152. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
446. Weinstein JN, Lurie JD, Tosteson TD, Hanscom D, Tosteson ANA, Blood EA, Birkmeyer NJO, Hilibrand AS, Herkowitz H, Cammisa FP, Albert TJ, Emery SE, **Lenke LG**, Abdu WA, Longley M, Errico TJ, Hu SS. Surgical versus nonsurgical treatment for degenerative lumbar spondylolisthesis. *Special Feature: SPINELINE*: North American Spine Society, 2007 July/August 14-25
447. Sucato DJ, Newton PO, Betz RR, **Lenke LG**, Lowe TG, Crawford AH, Letko L, Lonner BS. Patients who have a selective thoracic fusion for Lenke 1 and 2 curves have similar coronal balance but improved functional outcome scores at two years when compared to those who fused into the lumbar spine. Podium presentation 4. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
448. Patel P, Bastrom T, Marks MC, Pawelek J, Betz RR, **Lenke LG**, Newton PO. Spontaneous lumbar curve correction in selective thoracic fusions of idiopathic scoliosis – Anterior versus posterior approaches. Podium presentation 5. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
449. **Lenke LG**, Sides BA, Koester L, Hensley M, Blanke K. Posterior vertebral column resection (VCR) for severe pediatric and adult spinal deformity: Indications, results, and complications of 43 consecutive cases. Podium presentation 13. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007. **Russell A. Hibbs Award Best Clinical Science Paper**
450. Watanabe K§, **Lenke LG**, Bridwell KH, Kim YJ§, Koester L, Hensley M. Comparison of radiographic outcomes between anterior/posterior combined fusion and posterior fusion alone for scoliosis curves >100°. Is anterior release necessary? Podium presentation 22. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
451. Rose PS\*, **Lenke LG**, Bridwell KH, Mulconrey DS\*, Cronen GA\*, Schwend RM^, Sides BA. Pedicle screw only treatment of adult idiopathic scoliosis: An improvement over hook/hybrid constructs. Podium presentation 27. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
452. Rose PS\*, Bridwell KH, **Lenke LG**, Cronen GA\*, Mulconrey DS\*, Kim YJ§. Role of pelvic incidence, thoracic kyphosis, and patient factors on sagittal plane correction following pedicle subtraction osteotomy. Podium presentation 29. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
453. Kim YJ§, Bridwell KH, **Lenke LG**, Kim YB§, Rhim SC§. Thoracic kyphosis progression following long lumbar/lumbosacral fusions from the thoracolumbar junction to L5-S1. Risk factors for larger (≥20°) postoperative thoracic kyphosis progression. Podium presentation 31. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
454. Bridwell KH, Baldus C, Harrast J, Edwards II C\*, Glassman SD, Horton WC, **Lenke LG**, Lowe TG, Mardjetko S, Ondra S, Schwab FJ, Shaffrey CI. Age-gender matched comparison of SRS Instrument scores between adult deformity and normal adults. Are all SRS domains disease specific? Podium presentation 34. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
455. Sponseller PD, Betz RR, Newton PO, **Lenke LG**, Lowe TG, Crawford AH, Lonner BS, Marks MC, Harms Study Group. Differences in curve behavior after fusion in AIS with open TRC. Podium presentation 98. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
456. Geck MJ, Rinella A\*, Koester L, Hawthorne D, Kim YJ§, Macagno A, Sides BA, Bridwell KH, **Lenke LG**, Shufflebarger HL. Comparison of surgical treatment in Lenke 5C adolescent idiopathic scoliosis. Anterior dual rod versus posterior pedicle fixation surgery: a comparison of two practices. Podium presentation 104. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
457. Upasani VV, Caltoum C, Petcharaporn M, Bastrom T, Pawelek J, Betz RR, Clements DH, **Lenke LG**, Lowe TG, Newton PO. Adolescent idiopathic scoliosis patients report increased pain at 5 years compared to 2 years following surgical treatment. Podium presentation 106. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
458. Sucato DJ, Richards III BS, Johnston II CE, **Lenke LG**, Kuklo TR\*, Sanders JO, Spinal Deformity Study Group. Parent/patient preoperative perceptions of appearance in Lenke 2 curves - Do they correlate with the radiographic and clinical examination? Podium presentation 116. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
459. Rosner MK, Cardoso M, Kuklo TR\*, Gill N, Dmitriev A, Lehman R\*, **Lenke LG**. Does the Wilson frame assist with optimizing surgical approach for lordosis for minimally invasive lumbar fusions? Congress of Neurological Surgeons 57th Annual Meeting, San Diego, CA, September 15-20, 2007.
460. Lee CC, Okubadejo GO‡, Bridwell KH, **Lenke LG**, Nielson C. Aprotinin use in adult spinal deformity: Effects on blood conservation and associated complications. Podium presentation A1953. American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October 13-17, 2007.
461. Cardoso MJ, Laurel DC, Lehman Jr. R\*, Rosner M, Moser III RP, Dmitriev A, Gill NW, **Lenke LG**. Structures at risk from pedicle screws in the proximal thoracic spine: Computed tomographic (CT) evaluation with magnetic resonance imaging (MRI) correlation. Podium presentation 43. Cervical Spine Research Society 35th Annual Meeting, San Francisco, CA, November 29-December 1, 2007.
462. Rose PS\*, **Lenke LG**, Bridwell KH, Mulconrey D\*, Cronen GA\*, Schwend RM^. Pedicle screw only treatment of adult idiopathic scoliosis: an advance over hook/hybrid constructs. Podium presentation 175. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
463. Kim YJ§, Boachie-Adjei O, Bridwell KH, **Lenke LG**, Kim YB§. Comparative analysis of two hybrid instrumentation techniques for degenerative lumbar scoliosis. Podium presentation 176. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
464. Upasani VV, Caltoum CB, Petcharaporn M, Bastrom T, Pawelek J, Marks M, Betz RR, **Lenke LG**, Newton PO. Does body mass affect surgical outcomes in adolescent idiopathic scoliosis? Podium presentation 185. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
465. Sucato DJ, Newton PO, Betz RR, **Lenke LG**, Lowe TG, Crawford AH, Letko LJ, Lonner B. Selective fusion of Lenke 1 & 2 curves have better outcome scores compared to non-selective fusions. Podium presentation 187. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
466. **Lenke LG**, O’Leary PT\*, Sides BA, Koester LA, Hensley M, Bridwell KH. Posterior vertebral column resection (VCR) for severe pediatric deformity: Minimum 2-year follow-up on 29 consecutive patients. Podium presentation 39. Pediatric Orthopaedic Society of North America Annual Meeting, Albuquerque, NM, May 1-3, 2008.
467. Johnston CE, Richards BS, Sucato DJ, **Lenke LG**, Bridwell KH, Erickson MA, Spinal Deformity Study Group. Decreased pulmonary function in post-op AIS patients who remain hypokyphotic. Podium presentation 25. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008. **Whitecloud Clinical Award Finalist**
468. Buchowski JM\*, Good CR\*, **Lenke LG**, Bridwell KH. Epidural spinal cord compression with neurologic deficit associated with intrapedicular application of FloSeal during pedicle screw insertion. Podium presentation 32. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
469. Watanabe K§, **Lenke LG**, Harimaya K§, Kim YJ§, Hensley M. A prospective evaluation of osseous pedicle morphology: How many thoracic scoliotic pedicles have cancellous channels? Podium presentation 33. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
470. Ferguson J§, Lehman RA\*, **Lenke LG**, Cheh G§, Watanabe K§, Kim YB§, Kim YW§, Daubs MD^. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws confirmed by anatomic dissection of 102 thoracic pedicles. Podium presentation 75. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
471. **Lenke LG**, Richards BS, Kuklo TR\*, Sucato DJ, Emans JB, Johnston CE, Bridwell KH, Sides BA, Spinal Deformity Study Group. Multi-center analysis of the operative treatment of adolescent idiopathic scoliosis: Prospective and consecutive analysis of 534 patients. Podium presentation 76. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
472. Sucato DJ, Kuklo TR\*, Diab M, Richards BS, Johnston CE, **Lenke LG**, Spinal Deformity Study Group. Risk factors for critical intra-operative neuromonitoring changes during AIS surgery. Podium presentation 77. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
473. Blanke K, Kuklo TR\*, **Lenke LG**, Cowgill I, McCutcheon B, Spinal Deformity Study Group. Quality analysis of digital radiographic software measures: Evaluation of 29,122 specific data points. Podium presentation 78. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
474. O’Leary PT\*, **Lenke LG**, Good CR\*, Pichelmann M\*, Keeler KA‡\*, Bridwell KH, Sides BA. TLIF as an alternative to formal anterior interbody fusion at the caudal end of long spinal deformity constructs: Does it work? Podium presentation 83. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
475. Bedigrew KM, Kuklo TR\*, Luhmann SJ\*, Meyer LA, **Lenke LG**, Bridwell KH. Is Aprotinin safe for pediatric spinal deformity surgery? Podium presentation 118. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
476. Harimaya K§, Son-Hing JP^, **Lenke LG**, Bridwell KH, Schwend RM^, Koester L, Sides BA. Safety and accuracy of pedicle screws placed in pediatric patients less than 10 years of age. Podium presentation 125. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
477. Mulconrey DS\*, Keeler KA‡\*, **Lenke LG**, Bridwell KH, Good CR\*, O’Leary PT\*, Pichelmann M\*, Sides BA. Safety and efficacy of bone morphogenetic protein (rhBMP-2) in complex pediatric spinal deformity at a minimum 2-year follow-up. Podium presentation 126. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
478. Geck M, Rinella A\*, Hawthorne D, Macagno A, Sides BA, Koester L, **Lenke LG**, O’Brien MF\*, Bridwell KH, Shufflebarger HL. Anterior dual rod vs. posterior pedicle fixation surgery for the surgical treatment in Lenke 5C adolescent idiopathic scoliosis: A multi-center matched case analysis. Podium presentation 127. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
479. Keeler KA‡\*, Lehman RA\*, **Lenke LG**, Bridwell KH, Sides BA. Direct vertebral rotation (DVR) in the treatment of thoracolumbar/lumbar adolescent idiopathic scoliosis (AIS): Can it optimize correction when fusing to L3? Podium presentation 137. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
480. Schlechter J, Newton PO, Upasani VV, Yaszay B, **Lenke LG**, Betz RR, Lowe TG, Harms Study Group. Risk factors for distal adding-on identified: What to watch out for. Podium presentation . Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
481. Keeler KA‡\*, Bridwell KH, **Lenke LG**, Flynn J. Subjacent disc wedging after anterior spinal fusion for adolescent idiopathic scoliosis: The fate of the “jacked” lumbar disc. Podium presentation 3. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
482. Luhmann SJ\*, **Lenke LG**, Bridwell KH. Revision surgery after 1057 primary spine fusions for idiopathic scoliosis over 19 years: Identification of causative factors. Podium presentation 7. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
483. **Lenke LG**, O’Leary PT\*, Sides BA, Koester L, Hensley M, Bridwell KH. Posterior vertebral column resection (VCR) for severe pediatric deformity: Minimum 2-year follow-up on 29 consecutive patients. Podium presentation 9. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
484. Upasani VV, Newton PO, Pawelek JB, Bastrom TP, **Lenke LG**, Lowe TG, Clements III DH, Lonner BS, Betz RR, Harms Study Group. Increase patient satisfaction after fusion for adolescent idiopathic scoliosis by minimizing the deformity-flexibility quotient. Podium presentation 10. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
485. Pichelmann M\*, **Lenke LG**, Good CR\*, O’Leary PT\*, Bridwell KH, Sides BA. Revision rates following primary adult spinal deformity surgery: 667 consecutive patients followed up to 21 years postoperatively. Podium presentation 19. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
486. Kim YJ§, Boachie-Adjei O, Bridwell KH, **Lenke LG**, Kim YB§, Lawhorne TW. Comparative analysis of two hybrid instrumentation techniques for adult lumbar scoliosis from the thoracolumbar spine to L5 or S1. Podium presentation 22. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
487. Harimaya K§, **Lenke LG**, Bridwell KH, Mishiro T§, Koester L, Sides BA. Etiology and revision surgical strategies in failed lumbosacral fixation of adult spinal deformity constructs. Podium presentation 23. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
488. Zebala LP‡, Bridwell KH, Baldus C, Richards III BS, Dormans JP, **Lenke LG**, Auerbach JD. 5-year radiographic results of long scoliosis fusion in juvenile spinal muscular atrophy patients: Crankshaft and ultimate correction. Podium presentation 39. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
489. Keeler KA‡\*, Luhmann SJ\*, **Lenke LG**, Good CR\*, Sides BA, Schootman M, Bridwell KH. Spinal fusion for spastic neuromuscular scoliosis (NMS): Is anterior releasing necessary when intraoperative halo-femoral traction used? Podium presentation 40. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
490. McCarthy RE, McCullough FL, Luhmann SJ\*, **Lenke LG**. Shilla Growth Enhancing System for the treatment of scoliosis in children: Greater than two year follow up. Podium presentation 50. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
491. Harimaya K§, Mishiro T§, **Lenke LG**, Bridwell KH, Koester L, Sides BA. Increasing lumbar lordosis of adult spinal deformity patients via intraoperative prone positioning. Podium presentation 60. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
492. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Hosogane N, Kim YB§. Significance of intraoperative thoracic kyphosis increase to prevent the proximal junctional kyphosis in adolescent idiopathic scoliosis following posterior segmental spinal instrumentation and fusion: A multicenter analysis of 518 cases. Podium presentation 75. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
493. Kuklo TR\*, Keeler KA‡\*, Meyer LA, Luhmann SJ\*, Bridwell KH, **Lenke LG**. Is extended preoperative halo traction safe and effective for severe pediatric spinal deformity? Critical review of 62 pediatric patients. Podium presentation 81. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
494. Sanders JO, Diab M, Richards III BS, **Lenke LG**, Johnston CE, Emans JB, Sucato DJ, Erickson MA, Bridwell KH, McCarthy RE, Sarwark JF, Dormans JP, Kuklo TR\*, Shainline MR, Spinal Deformity Study Group. Fixation points within the main thoracic curve: Does more instrumentation produce greater curve correction? Podium presentation 83. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
495. Flynn JM, Bastrom TP, Newton PO, **Lenke LG**, Crawford AH, Lowe TG, Betz RR, Clements III DH, Lonner BS, Marks MC, Harms Study Group. ‘Don’t end your fusion at T12 in idiopathic scoliosis: Wisdom or myth? Podium presentation 84. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
496. Sanders JO, Dormans JP, Kuklo TR\*, **Lenke LG**, Richards III BS, Johnston CE, Sucato DJ, Emans JB, Diab M, Shainline MR, Spinal Deformity Study Group. Change in thoracic sagittal alignment following posterior instrumentation for Lenke 1A and B curves. Podium presentation 88. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
497. Upasani VV, Newton PO, Pawelek JB, Bastrom TP, **Lenke LG**, Lowe TG, Crawford AH, Betz RR, Lonner BS, Harms Study Group. Preservation of thoracic kyphosis: A critical component to maintaining post-operative lumbar lordosis during the surgical treatment of adolescent idiopathic scoliosis. Podium presentation 89. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
498. Sangole A, Aubin CE, Labelle H, **Lenke LG**, Stokes IA, Newton PO, Jackson RP. 3D sub-classification of Lenke 1 curves. Podium presentation 90. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
499. Diab M, Kuklo TR\*, Sanders JO, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Impact of idiopathic scoliosis and its surgical treatment on appearance in children. Podium presentation 96. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
500. Baldus C, Bridwell KH, Okubadejo GO‡, **Lenke LG**. Can we safely reduce blood loss during lumbar pedicle subtraction osteotomy procedures using Tranexamic Acid or Aprotinin? A comparative study with controls. Podium presentation 98. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
501. Good CR\*, Bridwell KH, O’Leary PT\*, Pichelmann M\*, **Lenke LG**, Riew KD, Luhmann SJ\*, Kuklo TR\*, Buchowski JM\*, Flynn J. Major perioperative neurologic deficits in pediatric and adult spine surgery patients: Incidence, etiology and outcomes over a 14 year period at one institution. Podium presentation 102. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
502. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Kim YB§, Buchowski JM\*. 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. Podium presentation 103. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
503. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Hamill CL\*, Kim YB§. Sagittal spinopelvic alignment change after lumbar pedicle subtraction osteotomy: A multicenter analysis of 113 patients with a minimum 2 years follow-up. Podium presentation 105. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
504. Baldus C, Bridwell KH, Harrast J, Shaffrey CI, Ondra SL, **Lenke LG**, Schwab FJ, Mardjetko SM, Glassman SD, Edwards II CC\*, DeWald CJ, Lowe TG, Horton III WC, Polly Jr. DW. Normative SRS-QOL data to allow age and gender specific comparisons to adult deformity patients. An analysis of 1346 unaffected subjects. Podium presentation 106. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
505. Good CR\*, **Lenke LG**, O’Leary PT\*, Pichelmann M\*, Keeler KA\*, Bridwell KH, Baldus C, Koester L. Can posterior only surgery replace combined anterior (thoracotomy/thoracoabdominal)/posterior approaches for adult scoliosis? Podium presentation 110. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
506. Daubs MD^, **Lenke LG**, Kim YJ§, Cheh G§, Bridwell KH. Does correction of preoperative coronal imbalance make a difference in outcomes of adult deformity patients? Podium presentation 111. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
507. O’Leary PT\*, Bridwell KH, Good CR\*, **Lenke LG**, Buchowski JM\*, Kim YJ§, Flynn J. 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. Podium presentation 112. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
508. Pearson A, Blood E, Lurie J, Sengupta D, Abdu W, Hu S, Longley M, **Lenke L**, Weinstein J. SPORT: Predominant Leg pain is associated with better surgical outcomes in degenerative spondylolisthesis and spinal stenosis. Podium presentation 2. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
509. Good C\*, Bridwell K, O’Leary P\*, Pichelmann M\*, **Lenke L**, Riew KD, Luhmann S\*, Kuklo T\*, Buchowski J\*, Flynn J. Major perioperative neurologic deficits in pediatric and adult spine surgery patients: Incidence, etiology and outcomes over a 14-year period at one institution. Podium presentation 25. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
510. O’Leary P\*, Bridwell K, Good C\*, **Lenke L**, Buchowski J\*, Kim Y§, Flynn J. 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. Podium presentation 26. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
511. Lehman Jr. RA\*, **Lenke LG**, Richards BS, Kuklo TR\*, Bridwell KH. Change in time of radiographic and balance parameters for the operative treatment of adolescent idiopathic scoliosis posterior pedicle screw-only vs. hybrid constructs. Podium presentation 58. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
512. Kim Y§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Marawar S. What radiographic sagittal parameters correlate with improved SRS self-image scores postoperatively in patients with sagittal imbalance? Analysis of 102 lumbar pedicle subtraction osteotomy patients. Podium presentation 60. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
513. Lehman Jr. RA\*, **Lenke LG**, Keeler K, Helgeson MD. Accuracy of an intraoperative scoliosis radiograph to determine ultimate correction and balance after deformity correction: should it be mandatory? Podium presentation 189, North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
514. Pichelmann M\*, **Lenke LG**, Good C\*, O’Leary PT\*, Bridwell KH. Revision rates following primary adult spinal deformity surgery: 667 consecutive patients followed up to 21 years postoperatively. Podium presentation 192. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
515. Lehman RA\*, **Lenke LG**, Richards BS, Kuklo TR\*, Bridwell KH. Comparative analysis between Lenke type 1A-, B- and C- curve patterns: Pedicle screw versus hybrid constructs. Which maintains correction better? Podium presentation 127, North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
516. Lehman RA\*, **Lenke LG**, Richards BS, Kuklo TR\*, Bridwell KH. Hybrid constructs lose correction/balance over time while pedicle screws do not in adolescent idiopathic scoliosis (AIS) surgery. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
517. Lehman Jr. RA\*, **Lenke LG**, Helgeson MD, Keeler KA‡\*. Accuracy/benefit of intraoperative scoliosis radiograph to determine ultimate correction and balance on the postoperative standing film. Eastern Orthopaedic Association 39th Annual Meeting, Henderson, NV, October 22-25, 2008.
518. McCarthy R, McCullough F, Luhmann S\*, **Lenke L**. Greater than two year follow-up Shilla Growth Enhancing System for the treatment of scoliosis in children. Podium presentation 1. 2nd International Congress on Early Onset Scoliosis & Growing Spine, Montréal, Québec, Canada, November 7-8, 2008.
519. Lehman RA\*, **Lenke LG**, Keeler KA‡\*, Helgeson MD. Accuracy/benefit of intraoperative scoliosis radiograph to determine ultimate correction and balance on the postoperative standing film. Society of Military Orthopaedic Surgeons 58th Annual Meeting, Las Vegas, NV, December 8-12, 2008.
520. Freedman BA, Javernick M, Kuklo T\*, **Lenke LG**, Richards BS, Sucato DJ, Polly DW. Frequency and distribution of anatomical variants in vertebral numbers in adolescent idiopathic scoliosis – Results of a large cross-sectional study. Podium Presentation 7. Society of Military Orthopaedic Surgeons 58th Annual Meeting, Las Vegas, NV, December 8-12, 2008.
521. Upasani VV, Newton PO, Pawelek J, Bastrom T, **Lenke LG**, Clements III DH, Lonner B, Betz RR. Increase AIS patient satisfaction after fusion by minimizing the deformity-flexibility quotient. Podium presentation 286. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas NV, February 25-28, 2009.
522. Sucato DJ, Kuklo TR\*, Diab M, Richards III BS, Johnston II CE, **Lenke LG**. Intraoperative AIS neuromonitoring: Factors associated with good baseline data and critical changes. Podium presentation 289. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas NV, February 25-28, 2009.
523. Newton PO, Upasani VV, Pawelek J, Bastrom T, **Lenke LG**, Lowe T, Crawford AH, Betz RR, Lonner B. Preservation of thoracic kyphosis: A critical component to maintaining lumbar lordosis in AIS. Podium presentation 291. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas NV, February 25-28, 2009.
524. Schlechter J, Newton PO, Upasani VV, Yaszay B, **Lenke LG**, Betz RR. Risk factors for distal adding-on identified: what to watch out for. Podium presentation 295. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas NV, February 25-28, 2009.
525. Pichelmann MA\*, **Lenke LG**, Good C\*, O’Leary PT\*, Bridwell KH, Sides B. Revision rates following primary spinal deformity surgery: 667 adults with up to 21 years follow-up. Podium presentation 301. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas NV, February 25-28, 2009.
526. Schlechter JA, Newton PO, Upasani VV, Yaszay B, **Lenke LG**, Betz RR, Lowe T, Harms Study Group. Risk factors for distal adding-on identified: What to watch out for. Podium presentation 44. Pediatric Orthopaedic Society of North America Annual Meeting, Boston, MA, April 29-May 2, 2009.
527. Kuklo TR\*, Keeler KA‡\*, Meyer LA, Luhmann SJ\*, Bridwell KH, **Lenke LG**. Is extended preoperative halo traction safe and effective for severe pediatric spinal deformity? Critical review of 62 pediatric patients. Podium presentation 45. Pediatric Orthopaedic Society of North America Annual Meeting, Boston, MA, April 29-May 2, 2009.
528. Thuet ED, Winscher JC, Padberg AM, Bridwell KH, **Lenke LG**, Kuklo TR\*, Dobbs MB, Schootman M, Luhmann SJ\*. A 22-year perspective of electrophysiologic monitoring for pediatric spinal deformity surgery: Is there value to monitoring ALL pediatric spine cases? Podium presentation 71. Pediatric Orthopaedic Society of North America Annual Meeting, Boston, MA, April 29-May 2, 2009.
529. Sucato DJ, Kuklo TR\*, Diab M, Richard III BS, Johnston II CE, **Lenke LG**, Spinal Deformity Study Group. Intraoperative AIS neuromonitoring: Factors associated with good baseline data and critical changes. Podium presentation 72. Pediatric Orthopaedic Society of North America Annual Meeting, Boston, MA, April 29-May 2, 2009.
530. Zhu Q, Jones C, Schwab T, Larson C, Itshayek E, **Lenke L**, Cripton P. Maverick total disc replacement in the lower lumbar spine adjacent to a long spinal fusion: An *in vitro* biomechanical study of kinematics. Podium presentation 39. Canadian Orthopaedic Association 64th Annual Meeting, Whistler, British Columbia, July 3-6, 2009.
531. Cho W§, **Lenke LG**, Koester LA, Sides B, Baldus C. How much kyphosis correction can be obtained with posterior vertebral column resection (VCR)? Podium presentation 24. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
532. **Lenke LG**, Kuklo TR\*, Bridwell KH, Sucato DJ, Richards BS, Emans JB, Spinal Deformity Study Group. What radiographic and clinical factors appear crucial for the decision to perform a selective thoracic fusion in Lenke 1C/King II adolescent idiopathic scoliosis curves? Podium presentation 43. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
533. Cronen GA\*, Zebala LP‡, **Lenke LG**, Auerbach JD\*, Sides B, Bridwell KH, Mulconrey DS\*, Rose PS\*. Male versus female adult deformity surgery: Is there a difference in complications and outcomes? Podium presentation 50. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
534. Zebala LP‡, Kuklo TR\*, **Lenke LG**, Luhmann SJ\*, Auerbach JD\*, Bridwell KH. Dual growing rod instrumentation with pedicle screw foundation at a single institution: Assessment of outcomes and complications. Podium presentation 92. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
535. Sarwark J, Schwartz D, Roberts D, Savage J, Richards BS, Sucato DJ, **Lenke LG**, Sanders JO, Emans JB, Parent S, Spinal Deformity Study Group. Clinical and radiographic predictors of coronal balance at two-years after surgery for adolescent idiopathic scoliosis with Lenke type 1 curves. Podium presentation 141. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
536. Crawford CH\*, **Lenke LG**, Cho W§, Lehman RA\*, Keeler KA\*, Kuklo TR\*, O’Shaughnessy BA\*, Chang MS\*, Auerbach JD\*, Sides B, Baldus C, Bridwell KH. Adolescent idiopathic scoliosis patients treated with pedicle screw constructs: Do the favorable 2yr SRS-30 outcomes hold up at 5yr follow-up? Podium presentation 142. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
537. Blanke KM, Koester LA, **Lenke LG**, Bridwell KH, Baldus C, Lehman RA\*, Helgeson MD, Revell CJ. Comparison of 3 surgical treatments for degenerative lumbar scoliosis with symptomatic spinal stenosis. Podium presentation 143. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
538. **Lenke LG**, Bridwell KH, Erickson MA, Sucato DJ, Richards III BS, King A, Johnston II CE, Oswald T, Sides BA, Spinal Deformity Study Group. Prospective radiographic and clinical outcomes and complications of 756 consecutive operative adolescent idiopathic scoliosis patients. Podium presentation 3. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
539. **Lenke LG**, Sucato DJ, Erickson MA, Emans JB, Richards III BS, Diab M, Bridwell KH, Spinal Deformity Study Group. Pedicle screw constructs provide superior thoracic rib hump and lumbar prominence correction following adolescent idiopathic scoliosis surgery. Podium presentation 6. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
540. Chang MS\*, Bridwell KH, **Lenke LG**, Cho W§, Baldus C, Auerbach JD\*, Crawford CH\*, O’Shaughnessy BA\*. Predicting the outcome of selective thoracic fusion in false double major lumbar “C” cases with five to 15 year followup. Podium presentation 7. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
541. Sucato DJ, Richards BS, Johnston CE, **Lenke LG**, Kuklo TR\*, Sanders JO, Spinal Deformity Study Group. Postoperative shoulder height assessment in AIS by parents and patients: Do their perspectives correlate to radiographic and clinical measurements? Podium presentation 10. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
542. Gitelman Y¥, **Lenke LG**, Auerbach JD\*, Sides BA, Bridwell KH. Pulmonary function in adolescent idiopathic scoliosis relative to the surgical procedure: A 10-year follow-up analysis. Podium presentation 11. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009. **Russell A. Hibbs Award Nominee for Best Clinical Presentation**
543. Richards BS, Sucato DJ, Johnston CE, Diab M, Sarwark J, Kuklo TR\*, **Lenke LG**, Parent S, Spinal Deformity Study Group. Right thoracic curves in AIS – Which clinical and radiographic findings correlate with a preoperative abnormal MRI? Podium presentation 1. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
544. Sharkey MS, Sucato DJ, Emans JB, Oswald TS, **Lenke LG**, Takemoto S, Diab M. Bracing before posterior spinal fusion with instrumentation (PSFI) for adolescent idiopathic scoliosis (AIS) is associated with reduced satisfaction, lower activity levels and more pain at two years after operation. Podium presentation 16. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
545. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Hamill CL\*, Cha TD, Cho S. Proximal thoracic versus thoracolumbar stop following pedicle subtraction osteotomy for adult patients with sagittal imbalance: Which one is better? Podium presentation 18. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
546. O’Shaughnessy BA\*, Bridwell KH, **Lenke LG**, Kuklo TR\*, Cho W§, Baldus C, Chang MS\*, Auerbach JD\*, Crawford CH\*. Does a long fusion (T3-sacrum) portend a worse outcome than a short fusion (T10-sacrum) in primary adult scoliosis surgery? Podium presentation 19. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
547. O’Shaughnessy BA\*, Kuklo TR\*, **Lenke LG**, Chang MS\*, Auerbach JD\*, Crawford CH\*, Baldus C, Bridwell KH. Is there a difference in outcome between patients under and over age 60 who have long fusions to the sacrum for the primary treatment of adult scoliosis? Podium presentation 21. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
548. O’Leary PT\*, O’Shaughnessy BA\*, **Lenke LG**, Sides BA, Kuklo TR\*, Buchowski JM\*, Bridwell KH. TLIF vs. ALIF: A matched cohort analysis of caudal interbody grafting strategies in adult spinal deformity. Podium presentation 26. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
549. Auerbach JD\*, Bridwell KH, **Lenke LG**, McKeon K‡, Zebala LP‡, Milby AH¥, Crawford CH\*, O’Shaughnessy BA\*, Chang MS\*, Baldus C. Major complications in primary adult deformity surgery: Risk factors and clinical outcomes at one institution with two to six year follow-up. Podium presentation 27. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
550. McCarthy RE, Luhmann SJ\*, **Lenke LG**, McCullough F. Do growth guidance rods have acceptable complications and fewer surgeries? Podium presentation 38, Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
551. Auerbach JD\*, **Lenke LG**, Bridwell KH, Sehn JK¥, Milby AH¥, Bumpass D‡, Crawford CH\*, O’Shaughnessy BA\*, Chang MS\*, Zebala LP‡, Sides BA. Major complications of three-column osteotomies in 240 consecutive spinal deformity patients. Podium presentation 68. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009. **Russell A. Hibbs Award Nominee for Best Clinical Presentation**
552. Thuet ED, Winscher JC, Padberg AM, Bridwell KH, **Lenke LG**, Dobbs MB, Schootman M, Luhmann SJ\*. Validity and reliability of intraoperative monitoring in pediatric spinal deformity surgery: A 23 year experience of 3,436 surgical cases. Podium presentation 74. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009. **Russell A. Hibbs Award Nominee for Best Clinical Presentation**
553. Harimaya K§, Son-Hing JP^, **Lenke LG**, Bridwell KH, Schwend RM^, Luhmann SJ\*, Koester LA, Sides BA. Safety and accuracy of pedicle screws placed in infantile and juvenile patients. Podium presentation 89. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
554. Johnston CE, Richards BS, Sucato DJ, Bridwell KH, **Lenke LG**, Erickson MA, Spinal Deformity Study Group. Correlation of preop curve severity with pulmonary function tests (PFTs) in AIS. Podium presentation 98. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
555. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Kim P, Kim YB§. Comparative analysis of sagittal plane measures following three different posterior segmental spinal instrumented fusion of AIS. Podium presentation 101. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
556. O’Shaughnessy BA\*, **Lenke LG**, Bridwell KH, Kuklo TR\*, Cho W§, Chang MS\*, Auerbach JD\*, Crawford CH\*, Koester LA. Should symptomatic iliac screws be electively removed in postoperative adult spinal deformity patients fused to the sacrum? Podium presentation 106. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
557. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Hamill CL\*, Cho S, Kim YB§. Sagittal decompensation following pedicle subtraction osteotomy for adult patients with sagittal imbalance: Incidence, risk factors, and SRS outcomes score. Podium presentation 109. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
558. Lehman Jr. R\*, Helgeson M, Dmitriev A, **Lenke L**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A micro CT and biomechanical analysis of pedicle morphology and screw failure. Podium presentation 61. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
559. Kim Y§, Bridwell K, **Lenke L**, Boachie-Adjei O, Hamill C\*, Cha T, Cho S. Proximal thoracic vs. thoracolumbar stop following pedicle subtraction osteotomy for adult patients with sagittal imbalance: Which one is better? Podium presentation 111. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
560. Kim Y§, Bridwell K, **Lenke L**, Boachie-Adjei O, Hamill C\*, Cho S, Cha T. Sagittal decompensation following pedicle subtraction osteotomy for adult patients with sagittal imbalance. Podium presentation 149. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
561. Kim Y§, Boachie-Adjei O, Bridwell H, **Lenke L**, Kim Y§, Cho S, Kim P. Selection of proximal fusion level in adult lumbar segmental instrumented fusion to L5 or S1 for degenerative lumbar scoliosis. Podium presentation 184. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
562. Lehman R\*, **Lenke L**, Richards BS, Bridwell K. Hybrid constructs lose correction/balance over time while pedicle screws do not in adolescent idiopathic scoliosis (AIS) surgery. Podium presentation 207. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
563. Cheung KC, Samartzis D, Natarajan D, Li J, Cheung WY, **Lenke LG**. Pedicle screw fixation strategies of the thoracic curve in adolescent idiopathic scoliosis (AIS). Podium presentation 183. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
564. Crawford III CH\*, **Lenke LG**, Cho W§, O’Shaughnessy BA\*, Chang M\*, Auerbach JD\*, Sides B, Baldus C, Bridwell KH. Adolescent idiopathic scoliosis (AIS): Do the favorable 2yr SRS-30 outcomes hold-up at 5yrs? Podium presentation 192. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
565. Kuhn M‡, Luhmann SJ\*, **Lenke LG**, Kuklo TR\*, Bridwell KH. The utility of ESR and WBC counts after spinal deformity surgery in the early postoperative period. Podium presentation 459. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
566. Cha T, Kim YJ§, **Lenke LG**, Boachie-Adjei O, Hamill CL\*, Cho SKW. PT versus TL Stop after lumbar pedicle subtraction osteotomy for patients with sagittal imbalance. Podium presentation 460. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
567. Cho W§, **Lenke LG**, O’Shaughnessy BA\*, Koester LA, Sides B, Baldus C. How much kyphosis correction can be obtained with posterior vertebral column resection (VCR)? Podium presentation 463. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
568. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Clement JL, Cho SKW, Kim YB§. Distal Stop at T12 vs. L1 for posterior spinal instrumented fusion in adolescent idiopathic scoliosis. Podium presentation 513. American Academy of Orthopaedic Surgeons 77th Annual Meeting, New Orleans, LA, March 9-13, 2010.
569. Luhmann SJ\*, **Lenke LG**, Erickson MA, Bridwell KH, Richards III BS. Correction of moderate (<70 degree) Lenke 1A and 2A curve patterns: Comparison of hook, hybrid, and all-pedicle screw systems at 2-year follow-up. Podium presentation 40. Pediatric Orthopaedic Society of North America Annual Meeting/Joint Meeting with Asia Pacific Orthopaedic Association, Waikoloa, Hawaii, May 4-7, 2010.
570. Sucato DJ, Richards BS, **Lenke LG**, Johnston CE, Sanders JO, Emans JB, Erickson MA, Carreon LY, Spinal Deformity Study Group. Revision surgery for AIS results in SRS scores comparable to primary surgery patients. Podium presentation 17. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
571. Kang MM\*, Bridwell KH, **Lenke LG**, Zebala LP‡\*, Pahys JM\*, Cho SK\*, Cho W§, Dorward IG∫, Baldus C. Proximal junctional kyphosis in primary adult deformity surgery – PJK of 20 degrees as a critical angle. Podium presentation 38. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
572. Goldthwait A, Emans JB, **Lenke LG**. Pediatric posterior-only vertebral column resection successfully treats congenital spinal dysgenesis and dislocation. Podium presentation 57. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
573. Luhmann SJ\*, **Lenke LG**, Erickson MA, Bridwell KH, Richards BS. Correction of moderate (<70-degree) Lenke 1A and 2A curve patterns: Comparison of hook, hybrid and all-pedicle screw systems at 2-year follow-up. Podium presentation 86. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
574. Zebala LP‡\*, **Lenke LG**, Bridwell KH, Luhmann SJ\*, Pahys JM\*, Cho SK\*, Kang MM\*, Cho W§, Sides B. The use of low dose tranexamic acid reduces blood loss and blood transfusions in adolescent idiopathic scoliosis surgery. Podium presentation 88. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
575. Crawford CH\*, **Lenke LG**, Sucato DJ, Richards BS, Emans JB, Vitale MG, Erickson MA, Sanders JO, Bridwell KH. Selective thoracic fusion in Lenke 1C curves: Prevalence and criteria. Podium presentation 89. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
576. Morse LJ, Kawakami N, **Lenke LG**, Sucato DJ, Sanders JO, Diab M. Cross-ethnicity comparisons of the Scoliosis Research Society outcomes instrument in adolescent idiopathic scoliosis. Podium presentation 90. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
577. Vitale MG, Miller DJ, Sucato DJ, Emans JB, Erickson MA, Sanders JO, **Lenke LG**, Richards BS. Factors predicting coronal decompensation of Lenke 1C curves following selective fusion. Podium presentation 96. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
578. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Gupta MC, Clement JL, Cha TD, Cho SK\*. Sagittal plane changes according to the thoracic kyphosis change following posterior segmental spinal instrumented fusion of adolescent idiopathic scoliosis. Podium presentation 98. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
579. Shah SA, Sucato DJ, Newton PO, Shufflebarger HL, Emans JB, Sponseller PD, Neiss G, Yorgova P, **Lenke LG**. Perioperative neurologic events from a multicenter consecutive series of pediatric vertebral column resection: Nature, frequency and outcomes. Podium presentation 103. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
580. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Kang MM\*, Koester L. Clinical outcomes and complications following spinal deformity correction with Smith-Petersen osteotomies. Podium presentation 104. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
581. Cho SK\*, **Lenke LG**, Bolon S, Pahys JM\*, Cho W§, Kang MM\*, Zebala LP‡\*, Koester L. Can intraoperative spinal cord monitoring reliably help prevent paraplegia during posterior VCR surgery? Podium presentation 115. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
582. Sucato DJ, Shah SA, **Lenke LG**, Newton PO, Emans JB, Shufflebarger HL, Sponseller PD. Prompt response to critical spinal cord monitoring changes during vertebral column resection results in a low incidence of permanent neurologic deficit. Podium presentation 117. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
583. Sanders JO, **Lenke LG**, Emans JB, Johnston CE, Richards BS, Sucato DJ, Diab M, Erickson MA, Polly DW. Are surgical results in larger curves inferior to those in smaller curves? Podium presentation 4. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
584. Vitale MG, Jameel OF, Sucato DJ, Richards BS, Emans JB, Erickson MA, Sanders JO, **Lenke LG**. How much is too much? Higher degrees of curve correction correlate with worsened sagittal balance. Podium presentation 16. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
585. Pahys JM\*, **Lenke LG**, Bridwell KH, Zebala LP‡\*, Cho SK\*, Kang MM\*, Cho W§, Baldus C. Prevalence and outcomes of coronal decompensation following primary multilevel spinal fusion for adult deformity. Podium presentation 40. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
586. Cho SK\*, Bridwell KH, **Lenke LG**, Kang MM\*, Pahys JM\*, Zebala LP‡\*, Yi JS§, Cho W§, Baldus C. Comparative analysis of clinical outcome of perioperative complications in primary vs. revision adult scoliosis surgery. Podium presentation 47. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
587. Samartzis D, Natarajan D, Kwan K, Cheung WY§, Li J, Wong Y, **Lenke LG**, Luk KD, Cheung KM. Pedicle screw fixation strategies of the thoracic curve in adolescent idiopathic scoliosis. Podium presentation 55. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
588. Cho SK\*, Bridwell KH, **Lenke LG**, Yi JS§, Cho W§, Zebala LP‡\*, Pahys JM\*, Kang MM\*, Baldus C. Major complications in revision adult deformity surgery: Risk factors and clinical outcomes with two to seven year follow-up. Podium presentation 58. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
589. Cho SK\*, **Lenke LG**, Bolon S, Kang MM\*, Zebala LP‡\*, Pahys JM\*, Cho W§, Koester L. Myelopathic patients who lack intraoperative spinal cord monitoring data have the highest rate of spinal cord deficits following posterior VCR surgery. Podium presentation 60. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
590. Newton PO, **Lenke LG**, Shufflebarger HL, Sucato DJ, Emans JB, Sponseller PD, Shah SA, Bastrom T. Perioperative complications of pediatric vertebral column resections. Podium presentation 64. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
591. Cho W§, **Lenke LG**, Bridwell KH, Dorward IG∫, Shoda N§, Baldus C, Cho SK\*, Kang MM\*, Zebala LP‡\*, Pahys JM\*, Koester L. Comparison of spinal deformity surgery in patients with non-insulin dependent diabetes mellitus (NIDDM) vs. controls. Podium presentation 65. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
592. Pahys JM\*, **Lenke LG**, Bridwell KH, Cho SK\*, Zebala LP‡\*, Kang MM\*, Cho W§, Koester L. Matched cohort analysis of posterior only vertebral column resection vs. combined anterior/posterior vertebrectomy for severe spinal deformity. Podium presentation 89. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
593. **Lenke LG**, Newton PO, Sucato DJ, Shufflebarger HL, Emans JB, Sponseller PD, Shah SA, Sides B, Blanke K. Multicenter analysis of 147 consecutive vertebral column resections for severe pediatric spinal deformity. Podium presentation 90. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
594. Newton PO, Bastrom T, Emans JB, Shah SA, Shufflebarger HL, Sponseller PD, Sucato DJ, **Lenke LG**. Antifibrinolytic agents substantially reduce blood loss during vertebral column resection. Podium presentation 96. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
595. Chang MS\*, **Lenke LG**, Bridwell KH, Cho W§, Chang YH, Bogunovic L‡, Koester L, Auerbach JD\*, Crawford CC\*, O’Shaughnessy BA\*. Combined anterior-posterior vs. posterior only fusion for severe non-spastic neuromuscular deformity. Podium presentation 105. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
596. Luhmann SJ\*, Keeler KA‡\*, Fuhrhop S, Oto M, Miller F, Dabney KW, **Lenke LG**, Bridwell KH. Surgical treatment of scoliosis in non-ambulatory spastic quadriplegic cerebral palsy patients: A matched cohort comparison of Luque-Galveston technique and all-pedicle screw construct. Podium presentation 107. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.
597. Cho SK\*, Bridwell KH, **Lenke LG**, Baldus CR. Is there a difference in clinical outcome between adult patients under and over age 60 who have revision scoliosis fusion to the sacrum? Podium presentation 133. North American Spine Society 25th Annual Meeting, Orlando, FL, October 5-9, 2010.
598. Cho SK\*, Bridwell KH, **Lenke LG**, Baldus CR. Comparative analysis of clinical outcome and perioperative complications in primary vs. revision adult scoliosis surgery. Podium presentation 217. North American Spine Society 25th Annual Meeting, Orlando, FL, October 5-9, 2010.
599. Shah SA, Sucato DJ, Newton PO, Shufflebarger HL, Emans JB, Sponseller PD, Neiss G, Yorgova P, **Lenke LG**. Perioperative neurologic events in pediatric vertebral column resection: Nature, frequency & outcomes. Podium presentation 396. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
600. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Clement JL, Cho SKW\*, Fischer CR. Optimal lowest instrumented vertebra for thoracic adolescent idiopathic scoliosis. Podium presentation 442. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
601. Zebala LP‡\*, **Lenke LG**, Bridwell KH, Luhmann SJ\*, Cho SKW\*, Pahys J\*, Kang MM\*, Cho W§, Sides B. Low dose tranexamic acid reduces blood loss and blood transfusions in AIS surgery. Podium presentation 446, American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
602. Pahys J\*, **Lenke LG**, Bridwell KH, Cho SKW\*, Zebala LP‡\*, Kang MM\*, Cho W§, Koester LA. Posterior only vertebral column resection vs. anterior/posterior vertebrectomy in spinal deformity. Podium presentation 449. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
603. Bastrom T, Newton PO, Emans JB, Shah SA, Shufflebarger HL, Sponseller PD, Sucato DJ, **Lenke LG**. Antifibrinolytic agents substantially reduce blood loss during vertebral column resections. Podium presentation 671. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
604. Dorward IG∫, **Lenke LG**, Blanke KM, O’Leary PT\*, Sides BA, Koester LA. Vertebral column resection for kyphoscoliosis and angular kyphosis: Outcomes with minimum 2-year follow-up. Podium presentation 622. American Association of Neurological Surgeons 78th Annual Meeting, Denver, CO, April 9-13, 2011.
605. Dorward IG∫, **Lenke LG**, Bridwell KH, O’Leary PT\*, Stoker GE¥, Pahys JM\*, Kang MM\*, Sides BA, Koester LA. Anterior versus transforaminal lumbar interbody fusion in long deformity constructs: A matched cohort analysis. Podium presentation 804. American Association of Neurological Surgeons 78th Annual Meeting, Denver, CO, April 9-13, 2011.
606. Stoker GE‡, Buchowski JM\*, Bridwell KH, **Lenke LG**, Riew KD, Zebala LP‡\*. Preoperative vitamin D status in adults undergoing spinal fusion surgery. Podium presentation 2. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011. **Whitecloud Award for Best Clinical Science Podium presentation**
607. Min WK§, **Lenke LG**, Nakamura Y§, Lee DH§, Park MS§, Sides BA. Clinical outcomes and complications of posterior vertebral column resection (PVCR) for severe adult spinal deformity. Podium presentation 3. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011. **Whitecloud Award Nominee in Clinical Science**
608. Mishiro T§, **Lenke LG**, Koester LA, Bridwell KH, Luhmann SJ\*. Modified Lenke Classification System for infantile and juvenile idiopathic scoliosis. Podium presentation 24. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
609. Dickson DD\*, **Lenke LG**, Bridwell KH, Sides BA. Prevalence and risk factors for pseudarthrosis after lumbar pedicle subtraction osteotomy (PSO) in adult spinal deformity. Podium presentation 51. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
610. Koller H§, **Lenke LG**, Nakamura Y§, Bridwell KH, Koester LA, Hempfing A, Ferraris L, Meier O, Zenner J, Hitzl W. Comparison of anterior/posterior to posterior-only correction of Scheuermann’s kyphosis: A matched pair analysis of 166 patients. Podium presentation 80. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
611. Vitale MG, Mackenzie S, Matsumoto H, Colacchio ND, Sucato DJ, Richards BS, Erickson MA, Sanders JO, **Lenke LG**, Roye DP, Williams BA. Frontal or sagittal spinal imbalance does not affect quality of life two years after posterior spinal instrumentation and fusion for adolescent idiopathic scoliosis. Podium presentation 89. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
612. Bumpass D‡, **Lenke LG**, Bridwell KH, Stallbaumer JJ\*, Kim YJ§, Wallendorf MJ, Min WK§, Sides BA. Pulmonary function changes following posterior vertebral column resection in pediatric and adult spinal deformity patients. Podium presentation 133. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
613. Zebala LP‡\*, **Lenke LG**, Bridwell KH, Buchowski JM\*, Sides BA. Preoperative autologous blood donation results in more transfusions in the surgical treatment of AIS. Podium presentation 1. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
614. Gomez JA, Matsumoto H, Colacchio N, Miller DJ, Roye DP, Sucato DJ, Richards BS, Emans JB, Erickson MA, Sanders JO, **Lenke LG**, Vitale MG. Characteristics of patients with AIS who experience coronal decompensation following posterior spinal instrumentation and fusion. Podium presentation 4. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
615. Stallbaumer JJ\*, Bridwell KH, **Lenke LG**, Baldus C, Koester L. Clinical, radiographic and patient assessment of shoulder imbalance following thoracic adolescent idiopathic scoliosis (AIS) reconstruction. Podium presentation 8, Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
616. Johnston CE, Richards BS, Sucato DJ, Bridwell KH, **Lenke LG**, Erickson MA. Improvement in pulmonary function at 2 years following corrective surgery for adolescent idiopathic scoliosis: a prospective study. Podium presentation 12. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
617. Kim YJ§, Bridwell KH, **Lenke LG**, Kim YB§. Comparative radiographic analysis of the sagittal spinopelvic alignment between 100 asymptomatic adults and 100 sagittally imbalanced patients: the best angular parameters to sagittal vertical axis. Podium presentation 22. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
618. Rahman RK\*, Bridwell KH, **Lenke LG**, Richards BS, Dorward IG∫, Koester L. Are TLIFs necessary for L5-S1 arthrodesis in long constructs to the sacrum/pelvis in primary adult deformity patients? Podium presentation 26. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
619. Kelly MP\*, **Lenke LG**, Bridwell KH, Buchowski JM\*, Zebala LP‡\*, Koester LA. The fate of the adult revision spinal deformity patient: A single institution experience. Podium presentation 28, Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
620. Cho SK\*, Bridwell KH, **Lenke LG**, Yi JS§, Kang MM\*, Zebala LP‡\*, Pahys JM\*, Baldus C. Is there a difference in clinical outcome between adult patients under and over age 60 who have revision scoliosis fusion surgery to the sacrum? Podium presentation 29. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
621. Raynor BL, Bright JD, **Lenke LG**, Rahman R\*, Bridwell KH, Riew KD, Buchowski JM\*, Luhmann SJ\*, Padberg AM. Significant change or loss of intraoperative monitoring data: A 25 year experience in 12375 spinal surgeries. Podium presentation 34. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011. **Hibbs Award Nominee for Best Clinical Podium presentation**
622. Rahman R\*, **Lenke LG**, Bridwell KH, Aleem A‡, Sides BA. Intrawound Vancomycin powder lowers the acute deep wound infection rate in adult spinal deformity patients. Podium presentation 36. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
623. Cho SK\*, **Lenke LG**, Bolon S, Pahys JM\*, Cho W§, Kang MM\*, Zebala LP‡\*, Koester L. Can intraoperative spinal cord monitoring reliably help prevent paraplegia during posterior VCR surgery? Podium presentation 41. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
624. Ning Y§, **Lenke LG**, Bridwell KH, Koester LA. How to determine optimal fusion levels of Scheuermann’s kyphosis. Podium presentation 73. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
625. Kim YJ§, Fischer CR, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Clement JL, Gupta MC. Optimal lowest instrumented vertebra to avoid adding-on or distal junctional kyphosis for thoracic adolescent idiopathic scoliosis. Podium presentation 88. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
626. Stoker GE¥, Buchowski JM\*, Bridwell KH, **Lenke LG**, Riew KD, Zebala LP‡\*. Preoperative vitamin D status in adults undergoing spinal fusion surgery. Podium presentation 107. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
627. Rahman RK\*, Min WK§, Nakamura Y§, Zebala LP‡\*, Sides BA, Bridwell KH, **Lenke LG**. High dose tranexamic acid reduces blood loss in complex pediatric spine deformity surgery. Podium presentation 110. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
628. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group (SDSG). Return to sports after surgery to correct adolescent idiopathic scoliosis. Congress of Neurological Surgeons Annual Meeting, Washington, D.C., October 1-6, 2011.
629. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Congress of Neurological Surgeons Annual Meeting (Neurosurgical Forum Presentation), Washington, D.C., October 1-6, 2011.
630. Gomez JA, Matsumoto H, Colacchio ND, Sucato D, Richards III BS, Emans J, Erickson MA, Sanders JO, **Lenke LG**, Hyman JE, Roye Jr. DP, Vitale MG. Higher degrees of curve correction correlate with worsened sagittal balance. 2011 American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 14-18, 2011.
631. Gomez JA, Matsumoto H, Colacchio ND, Miller D, Roye Jr. DP, Sucato D, Richards III BS, Emans J, Erickson MA, Sanders JO, **Lenke LG**, Vitale MG. Characteristics of patients with adolescent idiopathic scoliosis who experience coronal decompensation following posterior spinal instrumentation and fusion. 2011 American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 14-18, 2011.
632. Mackenzie WGS, Colacchio ND, Matsumoto H, Sucato D, Richards III BS, Erickson MA, **Lenke LG**, Roye Jr. DP, Vitale MG. Frontal or sagittal spinal imbalance does not affect quality of life two years after posterior spinal instrumentation and fusion for adolescent idiopathic scoliosis. 2011 American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 14-18, 2011.
633. Vitale M, **Lenke LG**. Higher degrees of curve correction correlate with worsened sagittal balance. 2011 American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 14-18, 2011.
634. Kang DG, Gaume R, Lehman Jr. RA\*, **Lenke L**, Paik H. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Eastern Orthopaedic Association 42nd Annual Meeting, Williamsburg, VA, October 19-22, 2011. **Resident Travel Grant Award**
635. Cho W§, **Lenke L**, Bridwell K, Hu G§, Buchowski J\*, Dorward I∫, Pahys J\*, Cho S\*, Kang M\*, Zebala L‡\*, Koester L. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis: Correlation with x-ray, MRI and surgical outcome. Podium presentation 39. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
636. Buchowski J\*, Stoker G¥, Bridwell K, **Lenke L**, Riew KD, Zebala L‡\*. Preoperative vitamin D status in adults undergoing spinal fusion. Podium presentation 45. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011. **Best Paper Category**
637. Zebala L‡\*, **Lenke L**, Bridwell K, Buchowski J\*, Sides B. Preoperative autologous blood donation results in more transfusions in the surgical treatment of adolescent idiopathic scoliosis. Podium presentation 55. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
638. Carreon L, Crawford C\*, **Lenke L**, Sucato D, Richards BS. Does iliac crest harvesting affect outcomes following posterior fusions for adolescent idiopathic scoliosis? Podium presentation 123. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
639. Lehman R\*, Kang D, **Lenke L**, Gaume R, Paik H. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Podium presentation 190. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
640. Foley K, Toth J, **Lenke L**, Seim H, Wang M, Turner S. Is facet fusion biomechanically equivalent to posterolateral onlay fusion? Podium presentation 224. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
641. Crawford C\*, **Lenke LG**. Does iliac crest harvesting affect outcomes following posterior fusions for adolescent idiopathic scoliosis? North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
642. Stoker GE‡, Buchowski JM\*, Bridwell KH, **Lenke LG**, Riew KD, Zebala LP‡\*. Preoperative vitamin D status of adults undergoing spinal fusion surgery. Podium presentation 10. Cervical Spine Research Society 39th Annual Meeting, Scottsdale, AZ, December 8-10, 2011. **Best Podium presentation Nominee**
643. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Bevevino AJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. Society of Military Orthopaedic Surgeons 53rd Annual Conference, San Diego, CA December 12-16, 2011.
644. Zebala LP‡\*, **Lenke LG**, Bridwell KH, Buchowski JM\*, Sides B. Preoperative autologous blood donation results in more transfusions in idiopathic scoliosis surgery. Podium presentation 452. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
645. Kelly MP\*, **Lenke LG**, Bridwell KH, Koester LA. The fate of the adult revision spinal deformity patient: A single institution experience. Podium presentation 692. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
646. Dorward IG∫, **Lenke LG**, Stoker GE, Cho W, Koester LA, Sides, BA. Radiographic and clinical outcomes of posterior column osteotomies in spinal deformity correction: analysis of 128 patients. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Orlando, FL, March 8, 2012.
647. Kang DG, Lehman RA\*, **Lenke LG**, Gaume R, Paik H, Bevevino AJ. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Podium presentation 418. International Society for the Advancement of Spine Surgery, Barcelona, Spain, March 20-23, 2012.
648. Kang DG, Lehman RA\*, **Lenke LG**, Sucato DJ, Bevevino AJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. Podium presentation 423. International Society for the Advancement of Spine Surgery, Barcelona, Spain, March 20-23, 2012.
649. Bevevino AJ, Lehman RA\*, Kang DG, Helgeson MD, Dmitriev AE, Paik H, Gaume RE, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A MicroCT and biomechanical analysis of pedicle screw morphology and screw failure. Maryland Orthopaedic Association 71st Annual Meeting, Baltimore, MD, April 21, 2012.
650. Kang DG, Lehman RA\*, Bevevino AJ, Dmitriev AE, Gaume RE, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw Hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography analysis. Lumbar Spine Research Society 5th Annual Meeting, Chicago, IL, April 26-27, 2012.
651. Bevevino AJ, Lehman RA\*, Kang DG, Helgeson MD, Dmitriev AE, Paik H, Gaume RE, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A MicroCT and biomechanical analysis of pedicle screw morphology and screw failure. Lumbar Spine Research Society 5th Annual Meeting, Chicago, IL, April 26-27, 2012.
652. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. Virginia Orthopaedic Society Annual Meeting, Williamsburg, VA, May 4-6, 2012.
653. Lehman RA\*, **Lenke LG**, Kang DG, Blanke KM, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM, Spinal Deformity Study Group. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Virginia Orthopaedic Society Annual Meeting, Williamsburg, VA, May 4-6, 2012.
654. Mesfin A\*, **Lenke LG**, Bridwell KH, Akhtar U, Jupitz JM, Fogelson JL\*, Hershman S\*, Kim HJ\*, Koester L. Does preoperative narcotic use persist after spinal deformity surgery? Spine Study Group 23rd Symposium, Palm Beach, FL, May 17-20, 2012.
655. Kang DG, Paik H, Lehman RA\*, Dmitriev AE, **Lenke LG**. The effect of pedicle screw Hubbing on pullout strength in the thoracic spine. Western Orthopaedic Association 76th Annual Meeting, Portland, OR, June 13-16, 2012.
656. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Western Orthopaedic Association 76th Annual Meeting, Portland, OR, June 13-16, 2012.
657. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. Western Orthopaedic Association 76th Annual Meeting, Portland, OR, June 13-16, 2012.
658. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume RE, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw Hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography analysis. Eastern Orthopaedic Association 43rd Annual Meeting, Bolton Landing, NY, June 20-23, 2012.
659. Mesfin A\*, **Lenke LG**, Bridwell KH, Akhtar U, Jupitz JM, Fogelson JL\*, Hershman S\*, Kim HJ\*, Koester L. Does preoperative narcotic use persist after spinal deformity surgery? A comparison of non-narcotic and narcotic using groups. Eastern Orthopaedic Association 43rd Annual Meeting, Bolton Landing, NY, June 20-23, 2012. **Resident/Fellow Travel Grant Award**
660. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Southern Orthopaedic Association 29th Annual Meeting, White Sulpher Springs, WV, July 18-21, 2012. **Presidents’ Resident Award Winner**
661. Kang DG, Lehman RA\*, **Lenke LG**, Sucato DJ. Return to sports after surgery to correct adolescent idiopathic scoliosis: A survey of the spinal deformity study group. Southern Orthopaedic Association 29th Annual Meeting, White Sulpher Springs, WV, July 18-21, 2012.
662. Kim HJ\*, **Lenke LG**, Riew KD, Oshima Y§, Mesfin A\*, Fogelson JL\*, Hershman S\*, Sides BA. Occipital incidence – a novel morphometric parameter for understanding occipitocervical spinal alignment. Podium presentation 16. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012. **Whitecloud Award Nominee – Best Basic Science Paper**
663. Glassman SD, Richards BS, **Lenke LG**, Sucato DJ, McCarthy KJ, Carreon LY. Does anterior release prevent adding-on following thoracic fusion for Lenke 1 adolescent idiopathic scoliosis? Podium presentation 35. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
664. Schwab F, Blondel B, Chay E, Demakakos J, **Lenke LG**, Tropiano P, Ames CP, Smith JS, Shaffrey CI, Glassman SD, Gaines RW, Farcy JPC, Lafage V. The comprehensive anatomical spinal osteotomy classification. Podium presentation 50. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
665. Mesfin A\*, **Lenke LG**, Bridwell KH, Fogelson JL\*, Hershman S\*, Kim HJ\*, Koester L. Weight change and clinical outcomes following adult spinal deformity surgery in overweight and obese patients. Podium presentation 51. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
666. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Podium presentation 52. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
667. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Pulmonary function following adult spinal deformity surgery: Minimum two-year follow-up. Podium presentation 118. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
668. Oshima Y§, **Lenke LG**, Koester L. Revision vs. primary vertebral column resection for severe spinal deformities. Podium presentation 122. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
669. Mishiro T§, **Lenke LG**, Koester L, Bridwell KH, Luhmann SJ\*. Modified Lenke Classification System for infantile and juvenile idiopathic scoliosis. Podium presentation 123. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
670. Mesfin A\*, **Lenke LG**, Bridwell KH, Akhtar U¥, Jupitz JM¥, Fogelson JL\*, Hershman S\*, Kim HJ\*, Koester L. Does preoperative narcotic use persist after spinal deformity surgery? A comparison of non-narcotic and narcotic use groups. Podium presentation 131. 19th Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
671. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. Southern Orthopaedic Association 29th Annual Conference, White Sulpher Springs, WV, July 18-21, 2012.
672. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Southern Orthopaedic Association 29th Annual Conference, White Sulpher Springs, WV, July 18-21, 2012.
673. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. North American Spine Society Spine Across the Sea, Kauai, HI, July 29-August 2, 2012.
674. Lehman RA\*, **Lenke LG**, Sucato DJ, Kang DG, Richards BS, Bridwell KH. Surgeon variability for treatment of Lenke 1C curve patterns with selective thoracic fusions. North American Spine Society Spine Across the Sea, Kauai, HI, July 29-August 2, 2012.
675. Clements DH, Betz RR, Newton PO, **Lenke LG**, Marks MC, Bastrom T, Harms Study Group. Does following the Lenke Classification treatment algorithm improve outcomes? Podium presentation 7. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
676. Lehman RA\*, **Lenke LG**, Sucato DJ, Richards BS, Bridwell KH. Surgeon variability for treatment of Lenke 1C curve patterns with selective thoracic fusions. Podium presentation 12. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
677. Kim HJ\*, **Lenke LG**, Mesfin A\*, Fogelson JL\*, Hershman S\*, Riew KD. Cervical lordosis actually increases with aging and progressive degeneration in spinal deformity patients. Podium presentation 18. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
678. Pahys JM\*, Zebala LP‡\*, Cahill PJ, Kelly MP\*, Asghar J, **Lenke LG**, Betz RR, Samdani AF. Comparison of surgical treatments for infantile and juvenile scoliosis. Podium presentation 30. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
679. Kim HJ\*, Bridwell KH, **Lenke LG**, Song KW§, Chuntarapas T§, Hershman S\*, Piyaskulkaew C§, Fogelson JL\*, Mesfin A\*, Park MS§. Proximal junctional kyphosis results in inferior SRS pain sub-scores in adult deformity patients. Podium presentation 48, Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
680. Dickson DD\*, **Lenke LG**, Bridwell KH, Sides BA. Prevalence and risk factors for pseudarthrosis following lumbar pedicle subtraction osteotomy (PSO) in adult spinal deformity. Podium presentation 53. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
681. Fogelson JL\*, **Lenke LG**, Bridwell KH, Roth M, Koester L, Kim HJ\*, Hershman S\*, Mesfin A\*. Preventing spinal cord deficits in adult spinal surgery with intraoperative monitoring: A single institution experience. Podium presentation 57. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
682. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume RE, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw Hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography analysis. Podium presentation 65. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
683. Smith JS, Saulle D, Chen CJ, **Lenke LG**, Polly DW, Kasliwal MK, Broadstone PA, Glassman SD, Vaccaro AR, Ames CP, Shaffrey CI. Rates and causes of mortality associated with spine surgery based on 108,419 procedures: A review of the Scoliosis Research Society Morbidity and Mortality database. Podium presentation 76. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012. **Russel A. Hibbs Award Nominee for Best Clinical Presentation**
684. Cidambi K, Bastrom T, Bartley CE, Clements DH, Betz RR, **Lenke LG**, Newton PO, Harms Study Group. Surgical treatment of main thoracic adolescent idiopathic scoliosis: A prospective 10-year follow-up study. Podium presentation 88. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
685. Hershman S\*, **Lenke LG**, Bridwell KH, Kim HJ\*, Fogelson JL\*, Mesfin A\*, Sides BA. Minimum five-year follow-up of posterior-only surgery for thoracic and thoracolumbar kyphosis. Podium presentation 103. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
686. Cho W§, **Lenke LG**, Bridwell KH, Hu GX§, Buchowski JM\*, Dorward IG∫\*, Pahys JM\*, Cho SK\*, Kang M\*, Zebala LP‡\*, Koester L. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis: Correlation with x-ray, MRI, and surgical outcome. Podium presentation 105. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
687. Lehman RA\*, **Lenke LG**, Blanke KM, Kang DG, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM, Spinal Deformity Study Group. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Podium presentation 108. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
688. Kim DH§, Kelly MP\*, Park TS§, **Lenke LG**, Limbrick DD. Relationship between syringomyelia size and scoliosis in patients with Chiari I malformation. Podium presentation 114. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
689. Bumpass DB‡, **Lenke LG**, Bridwell KH, Stallbaumer JJ\*, Kim YJ§, Wallendorf MJ, Min WK§, Sides BA. Predictors of pulmonary improvement after vertebral column resection for severe spinal deformity. Podium presentation 129. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
690. Vitale MG, Riedel MD, Saiman L, Matsumoto H, Glotzbecker M, Emans J, Erickson MA, Flynn J, Akbarnia BA, Anderson RCE, Brockmeyer D, **Lenke LG**, Luhmann SJ\*, Lewis S\*, Newton PO, Richards III BS, Sucato D, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Zeller R, Nyquist AC, McLeod L, Roye Jr. DP. Building consensus – Development of a best practice guideline (BPG) in pediatric spine SSI prevention. American Academy of Pediatrics Annual Meeting, New Orleans, LA, October 20-23, 2012.
691. Kim HJ\*, Bridwell KH, **Lenke LG**, Park MS§, Hershman SH\*, Mesfin A\*. Proximal junctional kyphosis results in inferior SRS pain sub-scores in adult deformity patients. Podium presentation 11. North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.
692. Mesfin A\*, **Lenke LG**, Bridwell KH, Fogelson JL\*, Hershman SH\*, Kim HJ\*, Koester L. Does preoperative narcotic use persist after spinal deformity surgery? A comparison of non-narcotic and narcotic using groups. Podium presentation 41. North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.
693. Kim HJ\*, **Lenke LG**, Mesfin A\*, Hershman S\*, Fogelson J\*, Riew KD. Cervical lordosis actually increases with aging and progressive degeneration in spinal deformity patients. Podium presentation 331. Cervical Spine Research Society 40th Annual Meeting, Chicago, IL, December 6-8, 2012.
694. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Blanke K. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis: A matched cohort analysis. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
695. Kang DG, Cody JP, Lehman Jr. RA\*, Gaume RE, Paik H, **Lenke LG**. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
696. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Sides BA, Stallbaumer JJ\*. Pulmonary function following adult spinal deformity surgery: Minimum two year follow-up. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
697. Bevevino AJ, Lehman Jr. RA\*, Kang DG, **Lenke LG**, Bridwell KH. Changes in radiographic and balance parameters for the operative treatment of adolescent idiopathic scoliosis: Posterior pedicle screw-only versus hybrid constructs. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
698. Kang DG, Tracey R, Lehman Jr. RA\*, Bevevino AJ, Gaume RE, Paik H, Dmitriev AE, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
699. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Sides BA, Stallbaumer JJ\*. Does curve magnitude and amount of deformity correction correlate with pulmonary function after adult deformity surgery? Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
700. Kang DG, Cody JP, Lehman Jr. RA\*, **Lenke LG**, Sides BA, Stallbaumer JJ\*. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Society of Military Orthopaedic Surgeons 54th Annual Meeting, Naples, FL, December 10-14, 2012.
701. Larson AN, Aubin CE, Polly Jr. DW, Ledonio C, Lonner BS, Shah SA, Sucato DJ, **Lenke LG**, Richards III BS, Erickson MA, Emans JB, Weinstein SL, Minimize Implants Maximize Outcomes Study Group. Are more screws better? A systematic review of implant density and curve correction in AIS. Podium presentation 454. American Academy of Orthopaedic Surgery 80th Annual Meeting, Chicago, IL, March 19-23, 2013.
702. Kang D, Lehman RA\*, Bevevino A, Gaume RE, Paik H, Dmitriev AE, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: a biomechanical and micro-CT evaluation. Podium presentation 826. American Academy of Orthopaedic Surgery 80th Annual Meeting, Chicago, IL, March 19-23, 2013.
703. Silva FE^, **Lenke LG**. Sagittal pelvic parameters plan for correction of adult deformities. Third International Symposium on Spine Surgery, Catholic University of Argentina, Puerto Madero, Buenos Aires, Argentina, March 20-22, 2013.
704. Lehman RA\*, Kang DG, **Lenke LG**, Blanke K, Transfeldt EE, Labelle H, Parent S, Cody J, Mac-Thiong JM, Tracey RW, Spinal Deformity Study Group. Prevalence of Spondylolisthesis and Concomitant Adolescent Idiopathic Scoliosis: A Matched Cohort Analysis. Podium presentation 241. International Society for the Advancement of Spine Surgery Annual Meeting, Vancouver, British Columbia, Canada, April 3-5, 2013.
705. Tracey RW, Lehman R\*, Kang D, Cody J, **Lenke L**, Stallbaumer J\*, Sides B. Pulmonary function following adult spinal deformity surgery: minimum two year follow-up. Podium presentation 618. American Association of Neurologic Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 31, 2013.
706. Tracey RW, Kang D, Lehman R\*, Bevevino A, Gaume R, Paik H, Dmitriev A, **Lenke L**, Cody J. Pedicle screw hubbing in the adult and immature thoracic spine: a biomechanical and micro-computed tomography evaluation. Podium presentation 831. American Association of Neurologic Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 31, 2013.
707. Vitale MG, Riedel MD, Saiman L, Matsumoto H, Glotzbecker MP, Emans JB, Erickson MA, Akbarnia BA, Anderson RCE, Brockmeyer DL, **Lenke LG**, Luhmann SJ\*, Lewis S\*, Newton PO, Richards III BS, Sucato DJ, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Zeller RD, Nyquist AC, McLeod LM, Roye DP. Building consensus: “Best Practice Guideline” for high-risk pediatric spine surgical site infection. Pediatric Orthopaedic Society of North America Annual Meeting, Toronto, Ontario, Canada, May 2-3, 2013.
708. Skaggs D, Seehausen DA, Yamaguchi K, Hah RJ, Sides BA, Wright M, Vitale M, **Lenke LG**. LIV tilt in Lenke “C” curves correlates with residual lumbar Cobb angle but does not affect decompensation. Pediatric Orthopaedic Society of North America Annual Meeting, Toronto, Ontario, Canada, May 2-3, 2013.
709. Cho SK\*, Lu Y, Skovrlj B, Caridi J, **Lenke LG**. The effect of increasing pedicle screw diameter on thoracic spinal canal dimensions: An anatomic study. Podium presentation 11. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013. **Whitecloud Award Nominee**
710. Lehman RA\*, **Lenke LG**, Kang DG, Blanke K, Transfeldt EE, Labelle H, Parent S. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis: A match cohort analysis. Podium presentation 40. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
711. O’Neill KR\*, **Lenke LG**, Bridwell KH, Hyun SJ§, Neuman BJ\*, Dorward IG∫\*, Koester L. Clinical and radiographic outcomes following 3-column osteotomies at a minimum 5-year follow-up. Podium presentation 71. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
712. Hyun SJ§, **Lenke LG**, Koester L. Comparison of standard 2-rod to multiple-rod constructs for fixation across three-column spinal osteotomies. Podium presentation 77. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
713. Shimer AL, Shaffrey CI, Smith JS, **Lenke LG**, Ames CP, Schwab FJ, Lafage V, Kelly MP\*†. Retrospective, multi-center analysis of the efficacy of antifibrinolytics on intraoperative blood loss during complex adult deformity surgery. Podium presentation 100. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
714. Kim HJ\*, **Lenke LG**, Fogelson J\*, Mesfin A\*, Hershman S\*, Sides BA. Can long fusions crossing the cervicothoracic junction have good outcomes at a minimum two years follow-up? Podium presentation 112. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
715. O’Neill KR\*, Bridwell KH, **Lenke LG**, Kelly MP\*†, Chuntarapas T, Dorward IG∫\*, Neuman BJ\*, Ahmad A, Baldus C. Extension of spinal fusion to the sacrum following long fusions for deformity correction. Podium presentation 152. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
716. Holekamp TF∫, **Lenke LG**, Godzik J¥, Sun SQ¥, Dorward IG∫\*, O’Neill KR\*, Koester L, Kelly MP\*†. Neurologic risks associated with treating myelopathy due to severe spinal deformity with vertebral column resection. Podium presentation 156. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
717. Neuman BJ\*, **Lenke LG**, Sides BA, Bridwell KH, Dorward IG∫\*, O’Neill KR\*, Kim SD\*. Perioperative morbidity and mortality in high risk pediatric patients with severe restrictive lung disease undergoing posterior-only spine deformity surgery. Podium presentation 157. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
718. Hyun SJ§, **Lenke LG**, Koester L. Long-term radiographic outcomes of a central hook-rod construct for osteotomy closure: Minimum 5-year follow-up. Podium presentation 168. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 10-13, 2013.
719. Tracey RW, Kang DG, Lehman RA\*, Cody JP, **Lenke LG**. Pulmonary function following adult spinal deformity surgery: minimum two year follow-up. Southern Orthopaedic Association 30th Annual Meeting, Palm Beach, FL, July 17-20, 2013. **SOA/OREF Resident Award Winner**
720. Cho SK\*, **Lenke LG**, Bridwell KH, Allen A, Kim YJ§. Recent trends in surgical management of adolescent idiopathic scoliosis: A review of 17,412 cases from the Scoliosis Research Society database 2001-2008. Podium presentation 1. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
721. Dorward IG∫\*, **Lenke LG**, Bridwell KH, McCoy KE, O’Neill KR\*, Neuman BJ\*, Holekamp TF∫, Ray W¥, Sides BA, Koester L. Surgery for idiopathic scoliosis in adolescents versus young adults: A match cohort analysis. Podium presentation 5. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
722. Cho SK\*, Bridwell KH, **Lenke LG**, Caridi J, Kim YJ§. Recent trends in surgical treatment of adult scoliosis: A review of 7,570 cases from the Scoliosis Research Society database 2001-2008. Podium presentation 16. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
723. Kelly MP\*†, **Lenke LG**, Shaffrey CI, Smith JS, Ames CP, Glassman SD, Carreon LY, Lafage V, Schwab FJ, Shimer AL. Three column spine reconstructions are not associated with higher rates of complications or new neurologic deficit: A retrospective Scoli-Risk 1 study. Podium presentation 17. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
724. Kim HJ\*, Bridwell KH, **Lenke LG**, Park MS§, Song KS§, Chuntarapas T§, Piyaskulkaew C§. Patients with proximal junctional kyphosis requiring revision surgery have higher post-op lumbar lordosis and larger sagittal balance corrections. Podium presentation 20. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
725. Neuman BJ\*, Bridwell KH, Baldus C, Zebala LP‡\*, Shaffrey CI, Edwards CC\*, Koski T, Schwab FJ, Boachie-Adjei O, Glassman SD, Parent S, Lewis SJ\*, **Lenke LG**, Buchowski JM\*, Crawford CH\*. How patients decide: Randomization versus surgery versus non-surgical treatment for symptomatic adult lumbar scoliosis. Podium presentation 44. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
726. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Pulmonary function following adult spinal deformity surgery: Minimum two-year follow-up. Podium presentation 45. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
727. Kelly MP\*†, **Lenke LG**, Shimer AL, Shaffrey CI, Smith JS, Lewis SJ\*, Ames CP, Carreon LY, Glassman SD, Fehlings MG, Schwab FJ, Lafage V. Comparing prospective to retrospective acute neurologic complication rates in complex adult spinal deformity procedures: Is there a difference? Podium presentation 47. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
728. Kim SD\*, Bridwell KH, **Lenke LG**, Dorward IG∫\*, Neuman BJ\*, O’Neill KR\*, Baldus C, Koester L, Ahmad A. Minimum five-year comparison of different age groups who underwent primary long instrumented fusions to the sacrum for adult spinal deformity. Podium presentation 53. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
729. Shaffrey EC, Smith JS, Ibrahimi DM, Singh M, **Lenke LG**, Polly DW, Chen CJ, Coe JD, Broadstone PA, Glassman SD, Vaccaro AR, Ames CP, Shaffrey CI. Defining rates and causes of mortality associated with spine surgery using a Scoliosis Research Society (SRS) registry-based system: Does collection of less data improve compliance? Podium presentation 66, Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
730. **Lenke LG**, Fehlings MG, Shaffrey CI, Cheung KM, Carreon LY. Prospective, multi-center assessment of acute neurologic complications following complex adult spinal deformity surgery: The Scoli-Risk-1 trial. Podium presentation 76. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013. **Russell A. Hibbs Award for Best Clinical Science Paper**
731. Cho SK\*, Egorova NN, Bridwell KH, **Lenke LG**, Caridi J, Kim YJ§. Comparative analysis of osteotomies during adult and pediatric spinal fusions: A retrospective review of >6,000 cases from the Scoliosis Research Society Morbidity and Mortality database. Podium presentation 79. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013. **Russell A. Hibbs Clinical Science Award Nominee**
732. Raynor BL, Padberg AM, **Lenke LG**, Bridwell KH, Riew KD, Buchowski JM\*, Luhmann SJ\*. Failure of intraoperative monitoring to detect postoperative neurologic deficits: A 25-year experience in 12,375 spinal surgeries. Podium presentation 93. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
733. Kim HJ\*, Piyaskulkaew C§, **Lenke LG**, Riew KD. Comparison of Smith Peterson (SPO)versus pedicle subtraction osteotomy (PSO)versus anterior osteotomy (AO) types for the correction of cervical spine deformities. Podium presentation 113. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
734. Godzik J¥, Limbrick D, **Lenke LG**, Holekamp TF∫, Ray W¥, Kelly MP\*†. Risks and outcomes of corrective spine surgery in Chiari malformation with syringomyelia versus idiopathic spine deformity. Podium presentation 120. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
735. Shimer AL, Shaffrey CI, Smith JS, **Lenke LG**, Ames CP, Schwab FJ, Lafage V, Kelly MP\*†. A retrospective, multicenter analysis of the efficacy of antifibrinolytics on intraoperative blood loss during complex adult deformity surgery. Podium presentation 55. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
736. Dorward IG∫\*, **Lenke LG**, Bridwell KH, McCoy KE¥, Holekamp TF∫, Neuman BJ\*, O’Neill K\*, Ray WZ¥, Sides BA, Koester L. Surgery for idiopathic scoliosis in adolescents versus young adults: A matched cohort analysis. Podium presentation 70. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
737. Germscheid NM, de Kleuver M, Lewis SJ\*, Alanay A, Berven SH, Cheung KM, Kamper SJ, **Lenke LG**, Polly DW, Qiu Y, Shaffrey CI, van Tulder M, Ito M. Is there a global consensus on optimal surgical care for adolescent idiopathic scoliosis? A Delphi study. Podium presentation 72. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
738. Lonner BS, Toombs C, Parent S, Shah SA, **Lenke LG**, Sucato DJ, Haber LL, Clements DH, Newton PO. Anterior release: Is it obsolete or does it play a role in contemporary AIS surgery? Podium presentation 74. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
739. Carreon LY, Crawford CH\*, **Lenke LG**, Sucato DJ, Glassman SD. Optimal lowest instrumented vertebra selection for posterior instrumented fusion of Lenke type 5 and 6 adolescent idiopathic scoliosis: Is there a difference in outcome between L3 and L4? Podium presentation 76. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
740. Carreon LY, Gum JL, Crawford CH\*, **Lenke LG**, Buchowski JM\*, Edwards CC\*, Glassman SD. Culture profile of surgical site infections after topical Vancomycin power use in instrumented spine fusions. Podium presentation 84. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
741. **Lenke LG**, Fehlings M, Shaffrey CI, Cheung K, Carreon L. Prospective, multicenter assessment of acute neurologic complications following complex adult spinal deformity surgery: The Scoli-risk-1 trial. Podium presentation 129. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
742. Lehman RA\*, Kang DG, Bevevino A, Tracey RW, Cody JP, Gaume RE, Paik H, Dmitriev AE, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. Podium presentation 147. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
743. Cho SK\*, Bridwell KH, **Lenke LG**, Caridi JM, King YJ§. Recent trends in surgical treatment of adult scoliosis: A review of 7,570 cases from the Scoliosis Research Society database 2001-2008. Podium presentation 189. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
744. Silva FE^, **Lenke LG**. Clinical and radiographic outcomes of Lenke-Silva treatment level 2 and 3. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Orlando, FL, March 5-8, 2014.
745. O’Neill KR\*, **Lenke LG**, Bridwell KH, Neuman BJ\*, Dorward IG∫\*, Koester LA. Clinical and radiographic outcomes following 3-column osteotomies at a minimum 5-year follow-up. Podium presentation 104. American Academy of Orthopaedic Surgery 81st Annual Meeting, New Orleans, LA, March 11-15, 2014.
746. Cho SK\*, Lu Y, **Lenke LG**. The effect of increasing pedicle screw diameter on thoracic spinal canal dimensions. Podium presentation 540. American Academy of Orthopaedic Surgery 81st Annual Meeting, New Orleans, LA, March 11-15, 2014.
747. Kang D, Lehman RA\*, Tracey RW, Gaume RE, Kebaish KM, **Lenke LG**. Sacral screw strain in a long posterior spinal fusion construct with sacral alar-iliac (S2AI) versus iliac fixation. Podium presentation 598. American Academy of Orthopaedic Surgery 81st Annual Meeting, New Orleans, LA, March 11-15, 2014.
748. Godzik J¥, Dardes A, Kelly M\*†, Holekamp T∫, **Lenke L**, Smyth M, Park TS, Leonard J, Limbrick D. Comparison of spinal deformity in children with Chiari I malformation with and without syringomyelia: A matched cohort. Podium presentation. American Association of Neurologic Surgeons 82nd Annual Scientific Meeting, San Francisco, CA, April 5-9, 2014.
749. Kang DG, Lehman Jr. RA\*, Tracey RW, Gaume RE, Cody JP, Kebaish KM, **Lenke LG**. Sacral screw strain in a long posterior spinal fusion construct with sacral alar-iliac (S2AI) versus iliac fixation. Podium presentation 22. Lumbar Spine Research Society 7th Annual Meeting, Chicago, IL, May 1-2, 2014.
750. Skovrlj B, Cho SK\*, Al Maaieh M, Caridi J, Bridwell KH, **Lenke LG**, Kim YJ§. Is age associated with increased complications rates in adult scoliosis surgery? A review of 5,591 cases from the Scoliosis Research Society database 2004-2007. Podium presentation 35. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
751. Gum JL\*, **Lenke LG**, Bridwell KH, Sides BA, Zhao J, Bumpass DB‡\*, Sugrue PA\*, Karikari I\*, Rahman RK\*†, Carreon LY. Does planned staging for posterior-only vertebral column resections in spinal deformity surgery increase perioperative complications. Podium presentation 137. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
752. Sugrue PA\*, **Lenke LG**, Kelly MP\*†, Luhmann SJ\*, Sides BA, Bumpass DB‡\*, Karikari I\*, Gum JL\*. Halo-gravity traction improves thoracic kyphosis correction for those early onset scoliosis patients undergoing growing spine techniques. Podium presentation 179. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
753. **Lenke LG**, Newton PO, Lehman RA\*, Kelly MP\*†, Clements DH, Errico TJ, Samdani AF, Betz RR, Blanke K. Radiographic results of selecting the touched vertebra as the lowest instrumented vertebra in Lenke 1A AIS curves at a minimum five-year follow up. Podium presentation 5. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
754. Norheim EP, Carreon LY, Sucato DJ, **Lenke LG**, Dankowski A, Glassman SD. Cervical spine compensation in adolescent idiopathic scoliosis. Podium presentation 10. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
755. Skovrlj B, Cho SK\*, Caridi J, Al Maaieh MA, Bridwell KH, **Lenke LG**, Kim YJ§. Association between surgeon experience and complication rates in adult scoliosis surgery: A review of 5,117 cases from the Scoliosis Research Society database 2004-2007. Podium presentation 17. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
756. Sucato DJ, Tran DP, **Lenke LG**. Is MRI necessary for adolescent idiopathic scoliosis when patients present with curves over 80 degrees? Podium presentation 26. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
757. Sugrue PA\*, **Lenke LG**, Bridwell KH, Kelly MP\*†, Luhmann SJ\*, Sides BA, Bumpass DB‡\*, Karikari I\*, Gum JL\*. The radiographic and clinical impact of preoperative halo-gravity traction in the treatment of early onset spinal deformity. Podium presentation 50. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
758. O’Neill KR\*, **Lenke LG**, Bridwell KH, Kim HJ\*, Neuman BJ\*, Archer KR. Factors associated with improved long-term outcomes following three-column osteotomy. Podium presentation 58. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
759. Gum JL\*, Carreon LY, Buchowski JM\*, **Lenke LG**, Glassman SD. Utilization trends of pedicle subtraction osteotomies compared to posterior spinal fusion for deformity: a national database analysis between 2008-2011. Podium presentation 59. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
760. **Lenke LG**, Boachie-Adjei O, Sucato DJ, Samdani AF, Shufflebarger HL, Cahill PJ, Garg S‡, Erickson MA, Kelly MP\*†, Sides BA. Is it the vertebral column resection procedure or the nature of the severe pediatric deformity that creates a high neurologic complication risk? Podium presentation 60. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
761. Fehlings MG, **Lenke LG**, Shaffrey CI, Kopjar B, Cheung KM, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellise F, Lewis SJ\*, Berven SH. Risk factors for neurological complications in patients undergoing corrective surgery for spinal deformity: Results of the Scoli-Risk 1 Study International, Prospective Multicenter Study. Podium presentation 79. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014. **Russell A. Hibbs Clinical Research Award Nominee**
762. Kim HJ\*, Nemani VM, O’Neill KR\*, Neuman BJ, Boachie-Adjei O, Cunningham ME, **Lenke LG**. Distal fusion level selection in Scheuermann’s kyphosis: A comparison of lordotic disc segment versus the stable sagittal vertebra. Podium presentation 107. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
763. Carreon LY, Norheim EP, **Lenke LG**, Sucato DJ, Glassman SD, Dankowski AB. Cervical spine compensation in adolescent idiopathic scoliosis. North American Spine Society 29th Annual Meeting, San Francisco, CA, November 12-15, 2014.
764. Carreon LY, Gum JL\*, Bridwell KH, **Lenke LG**, Bumpass DB‡\*, Sugrue PA\*, Karikari IO\*. SRS appearance domain correlates the most with patient satisfaction after adult deformity surgery to the sacrum at 5 year follow-up. North American Spine Society 29th Annual Meeting, San Francisco, CA, November 12-15, 2014.
765. Bumpass DB‡\*, **Lenke LG**, Bridwell KH, Zebala LP‡\*, Sugrue PA\*, Karikari IO\*, Gum JK\*, Dorward IG∫\*, Koester L. Do adult males have greater perioperative morbidity, more complications, and inferior outcomes than females following spinal deformity surgery? North American Spine Society 29th Annual Meeting, San Francisco, CA, November 12-15, 2014.
766. Gum J\*, **Lenke LG**, Bridwell KH, Zhao J‡, Bumpass DB\*, Sugrue PA\*, Karikari IO\*, Carreon LY. Does planned staging for vertebral column resections increase perioperative complications? Podium presentation 224. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
767. Gum J\*, **Lenke LG**, Bridwell KH, Salehi A‡, Bumpass DB\*, Sugrue PA\*, Karikari IO\*, Kelly MP\*†. What is the fate of adult and pediatric spinal deformity reconstruction after prior deep wound infection? Podium presentation 501. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
768. Norheim EP, Carreon LY, Sucato DJ, **Lenke LG**, Glassman SD. Cervical spine compensation in adolescent idiopathic scoliosis. Podium presentation 560. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
769. Skaggs DL, Pace GI, Wright M, Anderson R, Flynn KM, **Lenke LG**, Roye Jr. DP, Shah SA, Vitale MG. Best practices in intraoperative neuromonitoring in spine deformity surgery: A consensus-based approach. Podium presentation 565. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
770. Kang D, Lehman R\*, Wagner S, **Lenke LG**, Kebaish K. Sacral screw strain in a long posterior spinal fusion construct with sacral alar-iliac (S2A1) versus iliac fixation. Global Spine Congress Annual Meeting, Buenos Aires, Argentina, May 20-23, 2015.
771. Cheung K, Bow C, Samartzis D, Dekutoski M, Schwab F, Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellisé-Urquiza F, Carreon L, Shaffrey C, Fehlings M, **Lenke L**. Risk factors for non-neurological complications in adult spinal deformity surgery: An international, large-scale, prospective multicenter study. Global Spine Congress Annual Meeting, Buenos Aires, Argentina, May 20-23, 2015. **Best Paper**
772. Fehlings M, **Lenke LG**, Shaffrey CI, Kopjar B, Cheung KMC, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé F, Lewis SJ\*. Berven SH. Pre-operative predictors of neurological motor decline in complex adult spinal deformity surgery: results of the prospective, international, multicenter Scoli- RISK-1 study in 271 patients. Podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
773. Berven SH, Saigal R, Lafage V, Kelly MP\*†, Kopjar B, Smith JS, Dahl BT, Cheung KMC, Carreon LY, Schwab FJ, Rebmann K, Shaffrey CI, Fehlings MG, **Lenke LG**, Ames CP. Defining normative quality metrics in complex high-risk deformity cases: results from the Scoli-Risk 1 study. 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
774. Hyun SJ§, **Lenke LG**, Kim YJ§, Bridwell KH, Koester L, Blanke KM. AIS treated by PSSIF caudal to L3: When is fusion to L3 stable? 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
775. Kang DG\*, Lehman RA\*†, **Lenke LG**, Luksanapruksa P§, Abraamyan T, Koester L, Metz LN\*, McClendon J\*, Chapman M\*. Does single- versus two-stage pedicle subtraction osteotomy in spinal deformity surgery influence perioperative complications? 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
776. Iyer S, **Lenke LG**, Nemani VM, Albert TJ, Sides BA, Metz LN\*, Cunningham ME, Kim HJ\*. Variations in sagittal alignment parameters based on age: a prospective study of normal patients using EOS imaging. 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
777. Parent S, Newton PO, Lafage V, Aubin CE, Labelle H, **Lenke LG**. Towards a new 3D classification for adolescent idiopathic scoliosis (AIS): 3D subgroups derived from a consensus approach from members of the SRS 3D taskforce. 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
778. **Lenke LG**, Newton PO, Lehman RA\*†, Kelly MP\*†, Clements DH, Errico TJ, Betz RR, Samdani AF, Blanke KM, Harms Study Group. Radiographic results of selecting the touched vertebra as the lowest instrumented vertebra in Lenke type 1 (main thoracic) & type 2 (double thoracic) curves at a minimum 5-year follow-up. 2 minute podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
779. Kang DG\*, Buchowski JM\*, **Lenke LG**, Lehman RA\*†, Luksanapruksa P§, McClendon J\*, Chapman TM\*, Metz LN\*. Can S2-alar-iliac (S2AI) screws be placed accurately without fluoroscopy? 2 minute presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
780. Kim HJ\*, Iyer S, Theologis A, Nemani VM, Albert TJ, **Lenke LG**, Burch S, Boachie-Adjei O, Deviren V, Protopsaltis TS, Smith JS, Scheer JK, Mizutani J, Klineberg EO, Ames CP. Outcomes and complications of fusions from the cervical spine to the pelvis: series of 46 cases with average 2.7 year follow up. Podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
781. Iyer S, **Lenke LG**, Nemani VM, Albert TJ, Sides BA, Metz LN\*, Cunningham ME, Kim HJ\*. Variations in sagittal alignment parameters based on age: a prospective study of normal patients using EOS imaging. 2 minute presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
782. Murphy JS, Upasani VV, Yaszay B, Bastrom T, Bartley CE, Samdani AF, **Lenke LG**, Newton PO. Validation of the “substantially” touched vertebra as the lowest instrumented vertebra in thoracic major curves with AR lumbar modifiers. 2 minute presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
783. Jain A, Naef F, **Lenke LG**, Ames CP, Matsuyama Y, Dahl BT, Shaffrey CI, Qiu Y, Fehlings MG, Mehdian H, Boachie-Adjei O, Schwab FJ, Cheung KMC, Carreon LY, Kebaish KM. Analysis of ScoliRisk-1 prospective multicenter database comparing perioperative complications and patient reported outcomes in primary vs. Revision surgery for severe adult spinal deformity. Podium presentation. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 8-11, 2015.
784. Lewis ND, Keshen SG, **Lenke LG**, Zywiel M, Skaggs DL, Dear TE, Strantzas S, Lewis SJ\*. The deformity angular ratio: Can it predict high risk cases for potential spinal cord monitoring alerts in pediatric three-column thoracic spinal deformity corrective surgery? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
785. Bumpass DB‡\*†, **Lenke LG**, Kelly MP\*†, Blanke KM, Betz RR, Clements DH, Labelle H, Lehman RA\*†, Lonner BS, Luhmann SJ\*, Newton PO, Pahys JM\*, Parent S, Samdani AF, Shah SJ, Sponseller PD, Sucato DJ. Radiographic variability among Scheuermann’s kyphosis patients: Appreciating the individual differences of the deformity. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
786. Chapman TM\*, **Lenke LG**, Kang DG\*, McClendon J\*, Metz LN\*, Sides BA, Blanke KM. Clinical and radiographic outcomes after posterior vertebral column resection with 5 year follow up. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
787. Lehman RA\*†, Shufflebarger HL, Marks MC, Flynn JM, **Lenke LG**, Shah SA, Upasani VV, Newton PO. 3 year dashboard reporting and performance improvement modules (PIMs) significantly improved blood loss and operative time in adolescent idiopathic scoliosis. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
788. Kim HJ\*, Iyer S, Theologis A, Albert TJ, **Lenke LG**, Deviren V, Nemani VM, Boachie-Adjei O, Burch S, Mizutani J, Klineberg EO, Protopsaltis TS, Smith JS, Scheer JK, Ames CP. Extent of proximal fusion correlates with worse clinical outcomes in cervical to pelvis fusions. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
789. **Chapman Jr TM**, Baldus CR, Zebala LP, Kelly MP, Kang DG, McClendon Jr J, Metz LN, Shaffrey, CI, **Lenke LG**, Buchowski JM, Schwab FJ, Boachie-Adjei O, Glassman SD, Bridwell KH . Baseline Patient Reported Outcomes Do Not Correlate with Radiographic Parameters: A multicenter prospective NIH adult spinal deformity study of 286 patients .  Scoliosis Research Society. October 2015.  Podium Presentation.
790. Kim YC§, **Lenke LG**, Kelly MP\*†, Bridwell KH, You KH, Wilartratsami S, Koester L, Blanke KM. Do all adult spinal deformity patients with probable pseudarthrosis at a minimum 5 year follow-up need revision surgery? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
791. Kim YC§, **Lenke LG**, Gum JL\*, Chang HG, Yang CJ, Wilartratsami S, Koester L, Blanke KM. Is the C7 sagittal vertical axis (SVA) the best radiographic measure to predict clinical outcomes in adult spinal deformity? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
792. Wang X§, **Lenke LG**, Thuet E, Blanke KM, Koester L, Roth M. The deformity angular ratio describes the severity of spinal deformity and predicts the risk of neurologic deficit in posterior vertebral column resection surgery. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
793. Wang X§, **Lenke LG**, Bridwell KH, Buchowski JM\* Koester L, Blanke KM. Does the preoperative SRS mental health domain predict clinical outcomes in adult spinal deformity surgery? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
794. Huang CJ§, **Lenke LG**, Sides BA, Blanke KM. Comparison of single level vs multi-level vertebral column resection surgery for pediatric patients with severe spinal deformities. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
795. **Lenke LG.** The effect of preoperative opioid use on in-hospital pain control in adult spinal deformity patients. Mid-America Orthopaedic Association 2016 Annual Meeting. Bonita Springs, Florida, April 13-17, 2016.
796. Berven S, Kamper S, Germscheid N, Dahl B, Shaffrey C, **Lenke LG**, Lewis S, Cheung K, Alanay A, Ito M, Polly D, Kleuver MD.An International Consensus on the Appropriate Treatment for Adults with Spinal Deformity: An AOSpine Knowledge Forum Deformity Study. Podium Presentation 862. Global Spine Congress/World Forum for Spine Research (GSC/WFSR 2016), Dubai, United Arab Emirates, April 13-16, 2016.
797. Saifi C, Ha A, Cazzulino A, Makhni M, Fischer, Kim YG,Weidenbaum M, Lehman R, **Lenke LG** National Trends for Primary and Revision Posterior Lumbar Fusions throughout the United States. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
798. Saifi C, Ha A, Cazzulino A, Makhni M, Fischer, Kim YG,Weidenbaum M, Lehman R, **Lenke LG.** National Trends for Primary and Revision Lumbar Disc Arthroplasty Throughout the United States from 2005-2013. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
799. Jain A, Kebaish FN, **Lenke LG**, Qiu Y, Matsuyama Y, Ames C, Fehlings M, Dahl B, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Shaffrey C, Kebaish K. Incidence of Proximal Junctional Kyphosis in Patients with Adult Spinal Deformity Fused to the Pelvis: A ScoliRisk-1 Sub-analysis. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
800. Saifi C, Ha A, Cazzulino A, Makhni M, Fischer, Kim YG,Weidenbaum M, Lehman R, **Lenke LG.** National Trends for Primary and Revision Anterior and Lateral Lumbar Interbody Fusion Throughout the United States from 2004-2013. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
801. Jain A, Kebaish FN, **Lenke LG**, Qiu Y, Matsuyama Y, Ames C, Fehlings M, Dahl B, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L, Shaffrey C, Kebaish K Early Postoperative Surgical Site Infections in the Scoli-Risk 1 Cohort of Complex Spinal Deformity Patients Still Allowed For Improved Health Related Quality of Life Outcomes at 2 Year Follow-Up Session Title: 4B. Complications & Infection. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
802. Carreon L, Glassman S, Shaffrey C, Fehlings M , Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K. Schwab F, Pellisé F, Kebaish K, **Lenke LG.** Predictors of Health-related Quality-of-Life After Complex Adult Spinal Deformity Surgery: A Scoli-RISK-1 Secondary Analysis Session. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
803. Kang D , Lehman R, Wagner S, **Lenke LG**, Kebaish K. Sacral Screw Strain in a Long Posterior Spinal Fusion Construct with Sacral Alar-Iliac (S2AI) versus Iliac Fixation. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
804. Saigal R, Berven SH, Lafage V, Kelly MP, Kopjar B, Smith JS, Dahl BT, Cheung KM, Carreon LY, Schwab FJ, Rebmann K, Shaffrey CI, Fehlings MG, **Lenke LG**, Ames CP, Harms Study Group .Impact of New Motor Deficit on early HRQOL after Adult Spinal Deformity Surgery: Subanalysis of 272 patients from Scoli Risk 1 Prospective Study. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C. July 13-16, 2016
805. **Lenke LG**, Lehman R, Newton P, Kelly M, Clements D, Errico T, Betz R, Samdani A, Blanke K, Yan Y. Radiographic Results of Selecting the Touched Vertebra as the Lowest Instrumented Vertebra in Lenke Type 1 (Main Thoracic) & Type 2 (Double Thoracic) Curves at a Minimum 5-year Follow-up. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
806. **Lenke LG**, Shaffrey C, Carreon L, Cheung K, Kebaish K, Schwab F, Pellisé F, Ames C, Qiu Y, Dahl B, Fehlings M, AOS Knowledge Forum. Neurologic Complications Following Complex Adult Spinal Deformity Surgery: 2 Year Follow-up of the Scoli-Risk 1 Prospective, Multicenter, International Study. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
807. Djurasovic M, Glassman S, Sucato D, **Lenke LG**, Carreon L. Improvement in SRS22R Pain Scores after Surgery for Adolescent Idiopathic Scoliosis. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
808. Jain A, Kebaish FN, **Lenke LG**, Shaffrey C, Fehlings M, Dahl B, Mehdian H, Ames C, Matsuyama Y, Qiu Y, Cheung K, Schwab F, Carreon L, Pellisé F, Kebaish K. Effect of Age on Postoperative Complications and Patient Reported Outcomes in Severe Adult Spinal Deformity: Patients ?60 Years vs. > 60 Years.51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
809. Jain A, Kebaish FN, **Lenke LG**, Fehlings M, Ames C, Carreon L , Dahl B, Matsuyama Y, Qiu Y, Shaffrey C, Mehdian H, Pellisé F, Schwab F, Cheung K, Kebaish K. Impact of Depression on Health Related Quality of Life Outcomes in Surgically Treated Adult Spinal Deformity Patients: A ScoliRisk-1 Sub-analysis. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
810. Jain A, Kebaish FN, **Lenke LG**, Fehlings M, Ames C, Carreon L , Dahl B, Matsuyama Y, Qiu Y, Shaffrey C, Mehdian H, Pellisé F, Schwab F, Cheung K, Kebaish K. Complications and Patient Reported Outcomes of Primary vs. Revision Surgery for Severe Adult Spinal Deformity: A ScoliRisk-1 Sub-analysis. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
811. Mac-Thiong JC, Labelle H, Parent S, Hresko M, Sucato D, **Lenke LG**, Marks M. A Prospective Study of The Improvement in Health-Related Quality of Life Following Surgical Treatment of Lumbosacral Spondylolisthesis in Young Patients. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
812. Kang D, Buchowski J, Mokkarala M, Luksanapruksa P, **Lenke LG**. Re-operation Following Sacral Alar-Iliac (S2AI) versus Traditional Iliac Pelvic Fixation. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
813. Newton P, Bastrom T, Bartley C, Yaszay B, Marks M, Betz R, **Lenke LG**, Clements D. A Critical Assessment of &[ge] 10-Year Follow-up of Spinal Fusions for Adolescent Idiopathic Scoliosis: Outcome Improvement and Continued Follow-up Required.51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
814. Bow C, Kwan K, Samartzis D, Dekutoski M, Schwab F, Boachei-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H,Pellise F, Carreon L, Shaffrey C, Fehlings M, **Lenke LG**, Cheung K.Prevalence and risk factors for unplanned return to operating room for complex adult spinal deformity patients: Scoli-Risk 1 Prospective Multicenter International Study. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
815. **Lenke LG**, Lehman R, Lonner B, Errico T, Betz R, Shah S, Shufflebarger H, Kelly M, Newton P, Blanke K, Harm Study Group.Optimal Selection of the Lowest Instrumented Vertebra for Lenke Type 5 & 6 Thoracolumbar/Lumbar Major AIS Curves at Min. 5 Yr. 51st SRS Annual Meeting & Course, Prague, Czech Republic, September 21 - 24, 2016
816. Neurologic Complications Following Complex Adult Spinal Deformity Surgery: 2 Year Follow-up of the Scoli-Risk 1 Prospective, Multicenter, International Study Session Title: 10E. Two-Minute Point Presentations Session. 23rd International Meeting on Advanced Spine Techniques (IMAST), Washington, D.C., USA July 13-16, 2016
817. Pellisé F, **Lenke LG**, Shaffrey C, Carreon L, Cheung K, Kebaish K, Schwab, Qiu Y, Dahl B, Ames C, Fehlings M. Neurologic Complications Following Complex Adult Spinal Deformity Surgery: 2 Year Follow-Up Of The Scoli-RISK 1 Prospective, Multicenter, International Study. AOSpine Knowledge Forum Deformity. EUROSPINE 2016,Berlin, Germany October 5th, 2016
818. Kang D, Buchowski J, Mokkarala M, Luksanapruska P, Chen C, **Lenke LG**. Re-operation Following Sacral Alar-Iliac versus Traditional Iliac Pelvic Fixation. AAOS 2017 Annual Meeting. San Diego, California, March 14 – 18, 2017
819. Jain A, Kebaish F, **Lenke LG**, Carreon L, Ames C, Shaffrey C, Fehlings M, Dahl B, Schwab F, Kebaish K. Early Postoperatice Surgical Site Infections in the Scoli-Risk 1 Cohort of Complex Spinal Deformity Patients Still Allowed For Improved Health Related Quality of Life Outcomes at 2 Year Follow-Up. AAOS 2017 Annual Meeting. San Diego, California, March 14 – 18, 2017
820. Jain A, **Lenke LG**, Kebaish K, Kelly M, Errico T, Sponseller P. Cost Utility Analysis of Operative vs. Nonoperative Treatment for Adolescent Idiopathic Scoliosis. AAOS 2017 Annual Meeting. San Diego, California, March 14 – 18, 2017
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909. Makhni M, Park PJ, Cerpa M, Lin JD, **Lenke LG** .The Kickstand Rod Technique for Correction of Coronal Imbalance in Pediatric and Adult Spinal Deformity Patients.AAOS Annual Meeting. March 12 -16, 2019, Las Vegas, Nevada
910. Lertudomphonwanit T, Theologis A, **Lenke LG**, Gupta MC, Kelly MP. The Fate of High Pelvic Tilt with Good Alignment (False Type 2) in Adult Spinal Deformity Surgery Fused to the Sacrum. 2019 Global Spine Congress, 15-18 May, 2019,Toronto, Canada.
911. Lee NJ, Lin JD, Lombardi JM, Ha A, Baum GR, Osorio JA, Morr S, Lehman RA, **Lenke LG**.The Effect Of Increased Age On Perioperative Outcomes In Adult Idiopathic Scoliosis. Global Spine Congress, May 15-18, 2019, Toronto, Canada.
912. Lee N, Cerpa M, Lombardi J, Ha A, Park P, Leung E, Sardar Z, Lehman RA, **Lenke LG**. A Predictive Model for Early Reoperations and Readmissions in Adult Spinal Deformity. 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
913. Lee NJ, Cerpa M, Lin JD, Ha A,Park PJ, Leung E, Sardar ZM, **Lenke LG**, Lehman RA. A Predictive Model for Early Reoperations and Readmissions in Complex Adult Spinal Deformity Surgery. 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
914. Lee NJ, Dansby JD, Lin JD, Ha A,Park PJ, Cerpa M, Leung E, Lehman RA, **Lenke LG**. The Risks, Reasons, and Costs for 30- and 90-day Readmissions After Adolescent Idiopathic Scoliosis Surgery. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada.
915. Baum GR, Ha A,Cerpa M, Lin JD, Osorio JA, Menger RP, Morr S, Leung E, Lehman RA, Sardar ZM, **Lenke LG** .Does the Global Alignment and Proportion Score Overestimate Mechanical Complications after Adult Spinal Deformity Correction. 54th Annual Meeting September 18-21, 2019, Montréal, Canada
916. Boachie-Adjei O, Duah HO, Yankey KP, **Lenke** **LG,** Sponseller PD, SucatoDJ, Samdani AF, Newton PO, Shah SA, Erickson MA, Akoto H, Sides BA, Gupta MC, Fox Pediatric Spinal .Deformity Study Group New Neurologic Deficit and Recovery Rates in Treatment of Complex Pediatric Spine Deformities Exceeding 100 Degrees or Treated by 3CO. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
917. Kelly MP, El Dafrawy MH, **Lenke LG**. Randomized, Controlled Trial of Two Tranexamic Dosing Protocols in Adult Spinal Deformity Surgery. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
918. Mac-Thiong JC , Hresko MT, Parent S, Sucato DJ, **Lenke LG**, Marks MC, Labelle H, FRCS. Opportunities to improve the outcome of surgical treatment in high-grade spondylolisthesis. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
919. Lewis SJ, Berven SH, Matsuyama Y, **Lenke LG**, Kelly MP, Shaffrey CI, Dahl BT, Marinus de Kleuver, Spruit M, Pellisé F, Cheung K, Alanay A, Polly Jr D, Sembrano JN, Qiu Y.Outcome of Multilevel Spinal Deformity Surgery in Patients Over 60 Years of Age: A Multicenter International Prospective Study. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
920. Neuman BJ, Baldus C, Zebala LP, Kelly MP, Shaffrey C, Edwards C , Koski T, Schwab F, Glassman S, Parent S, Lewis S, **Lenke LG**, Buchowski JM, Smith JS, Crawford CH, Kim HJ, Lafage V, Lurie J, Carreon L, Bridwell KH. Patient Factors That Influence Decision Making: Randomization Versus Observational Nonoperative Versus Observational Operative Treatment for Adult Symptomatic Lumbar Scoliosis. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
921. Mac-Thiong JM, Hresko MT, Parent S, Sucato DJ, **Lenke LG**, Marks MC, Labelle H, FRCS(C). Opportunities to Improve the Outcome of Surgical Treatment in High-Grade Spondylolisthesis. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
922. Gupta MC, **Lenke LG**, Boachie-Adjei O, Bumpass DB, Garg S, Sponseller PD, Shah SA, Erickson MA, Sucato DJ, Samdani AF, Yaszay B, Pahys JM, Newton PO, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Vertebral Column Resection Improves the Sagittal Plane Greater than Other Techniques but Risks Symptomatic Junctional Kyphosis. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
923. Gupta MC, Yilgor C, Moon HJ, MD, Lertudomphonwanit T, Alanay A, Kelly MP, **Lenke LG**, Bridwell KH. Evaluation of Global Alignment and Proportion Score in an Adult Spinal Deformity Database. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
924. Scheer JK, **Lenke LG**, Smith JS, Passias PG, Kim HJ, Bess S, Protopsaltis T, Burton DC, Klineberg EO, Lafage V, Schwab FJ, Shaffrey CI, Ames CP, International Spine Study Group. Outcomes of Surgical Treatment for One Hundred and Thirty-Eight Patients With Severe Sagittal Deformity at a Minimum 2-Year Follow-Up. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
925. Wegner AM, Iyer S, Kim HJ, **Lenke LG**, Sides BA, Kelly MP, Global Alignment and Proportion (GAP). Scores in an Asymptomatic Nonoperative Cohort. SRS 54th Annual Meeting September 18-21, 2019, Montréal, Canada
926. Pham MH, Jakoi AM, Wali AR, **Lenke LG**. Trends in Spine Surgery Training during Neurological and Orthopedic Surgery Residency: A Ten-Year Analysis of ACGME Case Log Data . Congress of Neurological Surgeons (CNS) Annual Meeting October 19-23,2019, San Francisco, California
927. Lin J, Osorio J, Baum G, Menger R, Reid P, Dyrszka M, Amorosa L, Sardar ZA, Mandigo C, Angevine P, Kelly M, Cerpa M, **Lenke LG**. New Modular Classification of Adult Idiopathic Scoliosis as an Extension of the Lenke Classification of Adolescent Idiopathic Scoliosis. 27th International Meeting on Advanced Spine Techniques (IMAST), April 1-4, 2020, Athens,Greece
928. Preoperative Halo-Gravity Traction for Severe Pediatric Spinal Deformity: Can it Replace a Vertebral Column Resection? Pediatric Orthopaedic Society Of North America (POSNA), May 13-16, 2020, San Diego, CA
929. Ha A, Park PJ, Lombardi JM, Cerpa M, Baum GR, Dyrszka M, **Lenke LG,** .Femoral Head to Lower Lumbar Neural Foramen Distance as a Novel Radiographic Parameter to Predict Postoperative Neuropraxia .The 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
930. Lee N, **Lenke LG**, Cerpa M, Lombardi J, Ha A, Park P, Leung E, Sardar Z, Lehman R. A Predictive Model for Early Reoperations and Readmissions in Adult Spinal Deformity Surgery. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
931. Menger R, Park P, Marciano G, Bixby E, Cerpa M, Price D, Rote B, Vitale M, **Lenke LG**.Ambulatory Capacity Following Fusion to the Pelvis in Pediatric Spinal Deformity Patients. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
932. Cerpa M, Baum G, Leung E, Osorio J, Morr R, Menger R, Vulapalli M, Lee N, Park P, Mathew J, Ha A, Sardar Z, **Lenke LG.**Optimal Intraoperative Fluid Management in Adult Spinal Deformity Correction Surgery.Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
933. Baum G, Cerpa M, Lin J, Menger R, Morr S, Osotio J, Leing E, Vulapalli M, Sardar Z, Riew KD, Lehman RA, **Lenke LG**. The Posterior Skull to Upper Instrumentation Line (PSUIL): A Novel, Immediate Postoperative Predictor for Proximal Junctional Kyphosis in Spinal Deformity Surgery. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
934. Shimizu T, Cerpa M, **Lenke LG**.Relationship Between Pelvic Tilt and Lower Extremity Compensation in Adult Spinal Deformity with Cranio-Hip Sagittal Imbalance. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
935. McGowan K, Choi H, Mendiratta A, Thuet E, Cerpa M, Lehman RA, **Lenke LG**.Prospective Study of Intraoperative Motor Evoked Potential Monitoring to Identify Lumbosacral Nerve Root Motor Deficits. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
936. A National Perspective on the Morbidity and Readmission Risk for Patients with Ossification of the Posterior Longitudinal Ligament Undergoing Cervical Spine Surgery. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
937. Baum G, Cerpa M, Sielatycki J, Thuet E, Lin J, Menger R, Morr S, Osorio J, Lehman RA, **Lenke LG**. Clinical Utility of a Spinal Cord Shape Classification System (SCSCS) in Spinal Deformity Surgery. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
938. Ha A, MD. Lee N, Blake R, Matthew J, Cerpa M, **Lenke LG.** Can Spinal Deformity Patients Maintain Proper Arm Position in Full Length Standing Films? Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
939. Cerpa M, Sielatycki J, Thuet E, Baum, Park P, Leung E, Sardar Z, Vulapalli M, Lombardi J, Lehman R, **Lenke LG** .Prospective Validation of The Spinal Cord Shape Classification System (SCSCS) to Assess the Risk of Intraoperative Neuromonitoring Data Loss with Thoracic Deformity Correction. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
940. Wichman K, Choi H, Mendiratta A, Thuet E, Kent P, Cerpa M, Lehman R, **Lenke LG**. Prospective Study of Intraoperative MEP Monitoring to Identify Lumbosacral Nerve Root Motor Deficits. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
941. Baum G, Cerpa M, Park P, Osorio J, Lee N, Leung E, Vulapalli M, Lehman R, Riew KD, **Lenke LG**. The Posterior Cranial Vertical Line (PCVL): A Novel Predictor for Proximal Junctional Kyphosis in Spinal Deformity Surgery. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
942. Sardar Z, Cerpa M, Le Huec J, Bourret S, Hasegawa K, Wong HK, Liu G, Hey H, Riahi H, Kelly M, **Lenke LG** .Increase in Thoracic Kyphosis with Aging is the Main Factor that Leads to Positive Sagittal Balance: Results of the Multi-Ethnic Alignment Normative Study (MEANS) of Asymptomatic Adults. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
943. Lee N, Kim J, Vivas A, Lombardi J, Reidler J, Zuckerman S, Hong D, Park P, Cerpa M, Leung E, Sardar Z, Lehman R, **Lenke LG**.Do Readmissions and Reoperations Adversely Affect Patient-Reported Outcomes Associated with Complex Adult Spinal Deformity Surgery at a Minimum 2 Year Postoperative? SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
944. Lin J, Lombardi JM, Kim J, Osorio J, Cerpa M, Makhni M, **Lenke LG**. The Iliac Kickstand Screw: A Novel Pelvic Screw for Correction of Coronal Spinal Imbalance. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
945. Shimizu, Cerpa M, Leung E, Lehman R, **Lenke LG**. Understanding sagittal compensation in adult spinal deformity patients: relationship between pelvic tilt and lower extremity position. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
946. Reidler J, Zuckerman S, Vivas A, Lombardi J, Kim J, Cerpa M, Newton P, **Lenke LG**, Harms Study Group. Should Selective Thoracic Fusion Be Reserved for Non-Structural Compensatory Lumbar Curves? Radiographic and Clinical Results from Propensity Score Matched Patients at Minimum 5 Year Follow Up. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
947. Reidler J, Zuckerman S, Vivas A, Lombardi J, Kim J, Cerpa M, Newton P, **Lenke LG**, Harms Study Group Selective vs. Non-Selective Thoracic Fusion for Lenke Type 1-4C Curves: Which has More Complications at 5-Year Follow-up? SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
948. Lee N, Kim J, Vivas A, Lombardi J, Reidler R, Zuckerman S, Hong D, Park P, Cerpa M, Leung E, Sardar Z, Lehman R, **Lenke LG** . Do Readmissions and Reoperations Adversely Affect Patient-Reported Outcomes Associated with Complex Adult Spinal Deformity Surgery at a Minimum 2 Year Postoperative? SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
949. **Lenke LG**, Cerpa M, Zuckerman S, Sardar Z, Pellise, Kebaish, Smith, Shaffrey, Matsuyama, Carreon, Qiu, Cheung, Kelly M, Ames, Schwab, Boachie .Lower Extremity Motor Scores (LEMS) after Complex Adult Spinal Deformity Surgery: 5-year follow-up of the Scoli-Risk-1 Study. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
950. Mac-Thiong J, Hresko M, Alzakri A, Parent S, Sucato D, **Lenke LG**, Marks M, Labelle H. Complications of the Surgical Treatment of Pediatric High-Grade Spondylolisthesis: A Prospective Multicenter Study. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
951. Yankey KP, Duah HO, Sackeyfio A, **Lenke LG** , Sponseller, Shah S, Erickson, Sides E, Newton P, Bumpass D, Wulff I, Gupta M, Boachie O, FOX. Complications and Health Related Quality of Life in Complex Pediatric Spine Deformities Exceeding 100 Degrees or Treated By 3CO**.** SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
952. Boachie-Adjei O, Duah HO, Sackeyfio A, Yankey KP, **Lenke LG**, Sponseller P, Samdani A , Sucato, Sides E, Newton P, Shah, Akoto H, Gupta M, FOX. Does Implant Density Matter in the Surgical Outcomes of Severe Kyphoscoliosis Exceeding 100 Degrees or Treated by 3CO? SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
953. Gupta M, **Lenke LG**, Boachie, Bumpass D, Erickson M, Garg R, McCarthy, Newton P, Pahys, Samdani A, Shah, Shufflebarger H, Sponseller P, Sucato D, Yaszay B, Sides E, Kelly M, FOX . Intraoperative and Early Postoperative Complications after Surgery for Severe Pediatric Spinal Deformity Have a High Rate of Resolution at 2 Years but Affect Outcome Scores. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
954. Gupta M, **Lenke LG**, Boachie, Bumpass, Erickson, Garg, McCarthy C, Newton P, Pahys J, Samdani A, Shah, Shufflebarger H, Sponseller P, Sucato D, Yaszay B, Sides E, Kelly M, FOX . Surgical Treatment of Severe Pediatric Spinal Deformity Significantly Improves Pulmonary Function. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
955. Mac-Thiong J, Hresko MT, Alzakri A, Parent S, Sucato DJ, **Lenke LG**, Marks MC, Labelle H .Complications of the Surgical Treatment of Pediatric High-Grade Spondylolisthesis: A Prospective Multicenter Study. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
956. Zuckerman S, **Lenke LG**, Cerpa M, Sardar Z, Leung R, Vulapalli M, Pellise, Kebaish, Smith, Shaffrey, Matsuyama, Carreon, Qiu, Cheung, Kelly, Ames, Schwab, Boachie. Patient-Reported Outcomes After Complex Adult Spinal Deformity Surgery: 5-year Follow-Up Results of the Scoli-RISK-1 Study. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
957. Cerpa M, Zuckerman, **Lenke LG**, Sardar Z, Leung R, Vulapalli M, Lombardi J, Pellise, Kebaish, Smith, Shaffrey M, Matsuyama, Carreon, Qiu, Cheung, Kelly, Ames, Schwab, Boachie . Adverse Events Occurring up to 5-years After Complex Adult Spinal Deformity Surgery: A Scoli-Risk-1 Analysis. SRS 55th Annual Meeting, September 9-12, 2020 Phoenix, Arizona, USA
958. Lee NJ, McCormick KL, Hong D, Kim JS, Lombardi JM, Roye BD, **Lenke LG**, Fields M .The Morbidity, Readmissions, and Cost for Pediatric Cerebral Palsy Patients Undergoing Primary Spinal Fusion Surgery: A National Analysis on 2,779 Patients. North American Spine Society (NASS) 35th Annual Meeting, San Diego, CA October 7 – 10, 2020.
959. What Factors Influence Level Selection at the Upper Instrumented Vertebra (UIV) in patients with Adult Idiopathic Scoliosis (AdIS): A Multi-Center Survey Study of Deformity Surgeons. SRS 55th 28h IMAST Meeting, April 23-25, 2021, Vitual
960. Lin J, Lombardi JM, Kim J, Osorio J, Cerpa M, Makhni M, **Lenke LG**. The Iliac Kickstand Screw: A Novel Pelvic Screw for Correction of Coronal Spinal Imbalance. SRS 55th 28h IMAST Meeting, April 23-25, 2021, Vitual
961. Zuckerman SL, Lai C, Shen Y, Kerolus M, Buchanan I, Ha A, Cerpa M, Lee NJ, Leung E, Sardar ZM, Lehman RA, **Lenke LG**. Postoperative coronal malalignment after adult spinal deformity surgery: Incidence, risk factors, and impact on 2-year outcomes. AANS 2021 Virtual Meeting. August 21-25 2021.
962. Zuckerman SL, Lai C, Shen D, Cerpa M, Kerolus M, Buchanan I, Ha A, Leung E, Lee NJ, **Lenke LG**. Which coronal measurements and how much coronal malalignment most accurately predict 2-year PROs after ASD sugery. AANS 2021 Virtual Meeting. August 21-25 2021.
963. Zuckerman SL, Lai C, Shen D, Cerpa M, Kerolus M, Buchanan I, Ha A, Sardar ZM, Lehman RA, **Lenke LG.** Establishing a Threshold of Impairment to Define Coronal Malalignment in Adult Spinal Surgery.AANS 2021 Virtual Meeting. August 21-25 2021.
964. Zuckerman SL, Sardar ZM, Cerpa M, Le Huec JC, Bourret S, Hasegawa K, Wong HK, Liu G, Hey HW, Kelly MP, Riahi H, **Lenke LG**. Assessing Coronal Alignment from odontoid to Sacrum: A Normative Volunteer Study of the Odontoid-CSVL Distance. AANS 2021 Virtual Meeting. August 21-25 2021.
965. Zuckerman SL, Lai C, Shen D, Cerpa M, Kerolus M, Buchanan I, Ha A, Leung E, Lee NJ, **Lenke LG.** Role of Pelvic Obliquity & Leg Length Discrepancy in Adult Spinal Deformity Patients with Coronal Malalignment. AANS 2021 Virtual Meeting. August 21-25 2021.
966. Zuckerman SL, Lai C, Shen D, Cerpa M, Kerolus M, Buchanan I, Ha A, **Lenke LG.** Do Adult Spinal Deformity Patients Undergoing Surgery Continue to Improve After 1-year Postoperative? AANS 2021 Virtual Meeting. August 21-25 2021.
967. Zuckerman SL, Sardar Z, Cerpa M, Le Huec JC, Bourret S, Hasegawa K, Wong HK, Liu G, Dennis Hey HW, Riahi H, Kelly M, **Lenke LG**. How Much Pelvic Obliquity Exists in a Normative Population? A Multi-ethnic Study of Asymptomatic Adult Volunteers. AANS 2021 Virtual Meeting. August 21-25 2021.
968. Zuckerman SL, Lai C, Cerpa M, Buchanan IA, Kerolus MG, Ha A, Lee N, Leung E, **Lenke LG**. Preop Coronal Malalignment Often Leads to More Extensive Surgery Than Sagittal Malalignment in Adult Spinal Deformity. AANS 2021 Virtual Meeting. August 21-25 2021.
969. Park P, Morrisseette C, Lee N, Cerpa M, Kim HJ, **Lenke LG**.The Posterior Cranial Vertical Line (PCVL): a Novel Global Sagittal Alignment Parameter that Correlates to Proximal Junctional Kyphosis Development Following Adult Spinal Deformity Surgery. AAOS 2021 Annual Meeting August 31 - September 3, 2021
970. Ha A, Tuchman A, Matthew J, Lee N, Cerpa M, Lehman R, **Lenke LG**.Intraoperative vs Postoperative Radiographic Coronal Balance for Adult Spinal Deformity Surgery. AAOS 2021 Annual Meeting August 31 - September 3, 2021
971. Boddapati V, Danford NC, Simhon ME, Lee NJ, Mathew H, Lombardi JM, Sardar ZM**, Lenke LG**, Lehman RA. Clinical Trial Quality Assessment in Adult Spinal Surgery. Eastern Orthopaedic Association (EOA) 2021 Annual Meeting October 22, 2021.
972. Lafage R, Smith JS, Bess S, Shaffrey CI, Kim HJ, Kebaish KM, Burton DC, Hostin R, Passias PG, Protopsaltis TS, Daniels AH, Klineberg EO, Gupta MC, Kelly MP, **Lenke LG**, Schwab FJ, Lafage C, International Spine Study Group. Cluster Analysis to Identify Deformity and Disability Patterns in ASD Patients: A Step Toward a Clinically Relevant ASD Classification. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
973. Kelly MP, **Lenke LG**, Line BG, Smith JS, Shaffrey CI, Kebaish KM, Klineberg EO, Kim HJ, Schwab FJ, Gupta MC< Lafage V, Lafage R, Daniels AH, Passias PG, Protopsaltis TS, Burton DC, Bess S, International Spine Study Group. Preoperative Opioid Use Poorly Correlates with Mental Health in Adult Spinal Deformity: Time to Rethink Foregone Conclusions. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
974. Protopsaltis TS, Soroceanu A, Lafage R, Kim HJ, Balouch E, Norris Z, Smith JS, Daniels AH, Klineberg EO, Ames CP, Hart RA, Bess S, Shaffrey CI, Schwab FJ, **Lenke LG**, Lafarge V, Gupta M, International Spine Study Group. Correcting ASD Patients to Normative Alignment Results in No Functional Benefit but More PJK and PJF. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
975. Bess S, Line BG, Lefage R, Ames CP, Eastlack RK, Mundis GM, Lafage V, Klineberg EO, Daniels AH, Gupta MC, Kelly MP, **Lenke LG**, Passias PG, Protopsaltis TS, Burton DC, Kebaish KM, Kim HJ, Schwab FJ, Shaffrey CI, Smith HS, International Spine Study Group. Would You Do It Again? Discrepancies between Patient and Surgeon Willingness for Adult Spine Deformity Surgery. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
976. Uribe JS, Gandi SV, Wang MY, Mubdis GM, Kanter AS, Eastlack RK, Anand N, Park P, Smith JS, Burton DC, Kelly MP, Kim HJ, Bess S, Shaffrey CI, Schwab FJ, **Lenke LG**, Lafage V, Mummaneni PV, International Spine Study Group. Complication Rates with MIS Deformity Surgery Depend More on Number of Posterior Levels Fused than Number of Interbody Grafts. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
977. Fano AN, Hatsumoto H, Bonsignore-Opp L, Roye BD, **Lenke LG**, Herman E, Boby AZ, Luzzi AJ, Newton PO, Lonner BS, Vital MG, Harms Study Group. Upper Instrumented Vertebra (UIV) Selection Matters: Increased Risk of Proximal Junctional Kyphosis When UIV is Closer to the Apex in Scheuermann’s Kyphosis. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
978. Herman E, Matsumoto H, Fano AN, Roye BD, Netwon PO, Fields M, Boby AZ, **Lenke LG**, Lonner BS, Vitale MG, Harms Study Group. A Normal PI-LL Relationship Is Associated with Pain Improvement following Posterior Spinal Fusion for Scheuermann’s Kyphosis. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
979. Roye BD, Matsumoto H, Fano AN, Marciano GF, Iyer R, Boby AZ, **Lenke LG**, Newton PO, Vitale MG, Harms Study Group. Distal Adding-on in AIS Results in Diminished Patient Reported Outcomes at 10 Years. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
980. Ha A, Mathew J, Marciano G, Zuckerman SL, Buchanan I, Kerolus M, Cerpa M, Lombardi JM, Dryszka M, Sardar Z, Lehamn RA, **Lenke LG**. C2 Pelvic Angle (C2PA) is a Useful Intraoperative Radiographic Parameter that Correlates with the Risk of Developing Proximal Junctional Kyphosis Postoperatively. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
981. Ha A, Mathew J, Zuckerman SL, Buchanan I, Kerolus M, Cerpa M, Lombardi JM, Dryszka M, Sardar Z, Lehamn RA, **Lenke LG.** Preoperative Paraspinal Fat Atrophy of the Upper Instrumented Vertebrae Musculature in Spine Deformity Surgery is a Risk Factor for Proximal Junctional Kyphosis and Sagittal Malalignment. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
982. Ha A, Mathew J, Zuckerman SL, Buchanan I, Kerolus M, Cerpa M, Lombardi JM, Dryszka M, Sardar Z, Lehamn RA, **Lenke LG.** Central Sacral Pelvic Line (CSPL) is a Useful Radiographic Parameter that Correlates with Clinical Outcomes of Coronal Alignment after Spine Deformity Surgery. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
983. Lombardi JM, Zuckerman SL, Cerpa M, Sardar ZM, Lehman RA, **Lenke LG**. Can Machine Learning Improve Our Ability to Predict Reoperations in Adult Spinal Deformity Surgery: A Leap Forward in Predictive Modeling. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
984. Zuckerman SL, Lai C, Shen Y, Kerolus M, Buchanan I, Ha A, Cerpa M, Lee NJ, Leung E, Sardar ZM, Lehman RA, **Lenke LG**. Postoperative coronal malalignment after adult spinal deformity surgery: Incidence, risk factors, and impact on 2-year outcomes. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
985. Kelly MP, Thuet E, Mendiratta A, Choi JH, **Lenke LG** Prospective Study of Intraoperative Motor Evoked Potential Monitoring to Identify Lumbosacral Nerve Root Motor Deficits. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
986. Cerpa M, Zuckerman SL, **Lenke LG**, Kelly M, Yaszay B, Newton P, Sponseller P, Erickson M, Garg S, Pahys J, Samdani A, Cahill P, McCarthy R, Bumpass D, Sucato D, Boachie-Adjei O, Shah S, Gupta M. Myelopathic Patients with Severe Pediatric Spinal Deformity Can Improve Neurologic Function Close to Non-Myelopathic Patients by 1-Year After Surgery. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
987. Park P, Lin J, Lee N, Morrissette C, Cerpa M, Osorio J, Lehman R, **Lenke LG**. The Efficacy and Safety of Large Diameter Pedicle Screws in Adult Thoracolumbar Deformity. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
988. Cepra M, Sielatycki A, Thuet ED, Baum G, Park P, Leung E, Sardar Z, Vulapalli M, Lombardi J, Lehman R, **Lenke LG.** Prospective Validation of The Spinal Cord Shape Classification System (SCSCS) to Assess the Risk of Intraoperative Neuromonitoring Data Loss with Thoracic Deformity Correction. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
989. Sardar Z, Cerpa M, Le Huec JC, Bourret S, Hasegawa K, Wong HK, Liu GKP, Weng H, Hey D, Riahi H, Kelly MP, **Lenke** **LG.** Sagittal Spinal Alignment Varies with an Individual’s Race: Results of the Multi-Ethnic Alignment Normative Study (MEANS). Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
990. Zeeshan Sardar, Meghan Cerpa, Jean-Charles Le Huec, Stephane Bourret, Kazuhiro Hasegawa, Hee-Kit Wong, Gabriel KP Liu, Hwee Weng Dennis Hey, Hend Riahi, Michael P. Kelly, **Lenke LG**. Increase in Thoracic Kyphosis with Aging is the Main Factor that Leads to Positive Sagittal Balance: Results of the Multi-Ethnic Alignment Normative Study (MEANS) of Asymptomatic Adults. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
991. Sardar Z, Cerpa M, Le Huec JC, Bourret S, Hasegawa K, Wong HK, Liu GKP, Weng H, Hey D, Riahi H, Kelly MP, **Lenke** **LG.** Increase in Thoracic Kypthosis with Aging is the Main Factor that Leads to Positive Saggittal Balance: Results of the Multi-Ethnic Alignment Normative Study (MEANS) of Asymptomatic Adults. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
992. Mathew J, **Lenke LG**, Sardar Z, Cerpa M, Lee N, Boddapati V, Marciano G. Comparing Hyper-lordotic and Less-lordotic Cages for Achieving Segmental Lumbar Lordosis During TLIF in ASD Surgery. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
993. Cerpa M, Zuckerman S, **Lenke LG**, Pellise F, Kebaish KM, Smith D, Shaffrey CI, Matsuyama Y, Carreon LY, Qiu Y, Cheung WY, Kelly MP, Ames CP, Schwab F, Boachie O. Adverse Events Occurring up to 5-years After Complex Adult Spinal Deformity Surgery: A Scoli-Risk-1 Analysis. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
994. Cerpa M, Zuckerman S, **Lenke LG**, Pellise F, Kebaish KM, Smith D, Shaffrey CI, Matsuyama Y, Carreon LY, Qiu Y, Cheung WY, Kelly MP, Ames CP, Schwab F, Boachie O. Patient-Reported Outcomes After Complex Adult Spinal Deformity Surgery: 5-year Follow-Up Results of the Scoli-RISK-1 Study. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
995. **Lenke LG** (*remaining authors unknown*) Predictors of 30-day Complications in Deformity Surgery Patients: a National Database Study. Global Spine Conference (GSC) Paris, Fance November 3 – 6, 2021
996. Iyer R, Boddapati V, Cerpa M, Fano A, Anderson RCE, Roye BD, Vitale MG, **Lenke LG**. Salvage Treatment of Growth-Friendly Surgery in the Treatment of Early Onsent Spinal Deformity. International Congress of Early Onset Scoliosis (ICEOS). Salt Lake City, UT November 11-12, 2021
997. Fourman MS, Lefage R, Lovecchio F, Alshabab BS,Shah S, Punyala A, Ang B, Elysee J; **Lenke LG**, Kim HJ, Schwab F, Lafage V. How does Gravity Influence the Distribution of Lordosis in Patients with Sagittal Malalignment? Broadwater Spine: Base to Summit 2022, Vail, Colorado, January 14-17, 2022
998. Uribe JS, Koffie RM, Wang MY, Mundis M, Kanter AS, Eastlack RK, Anand N, Park P, Smith JS, Burton DC, Chou D, Kelly MP, Kim HJ, Bess S, Shaffrey CI, Schwab FJ, **Lenke LG**, Mummaneni PV.Are Minimally Invasive Spine Surgeons or Classical Open Spine Surgeons More Consistent with Their Treatment of Adult Spinal Deformity? Broadwater Spine: Base to Summit 2022, Vail, Colorado, January 14-17, 2022
999. Lee NJ, Park PJ, Puvanesarajah V, Clifton WE, Kwan K, Morrissette CR, Williams JL, Fields M, Leung E, Hassan FM, Angevine P, Mandigo C, Lombardi JM, Sardar ZM, Lehman RA, **Lenke LG**.How Common is Acute Pelvic Fixation Failure After Adult Spinal Surgery? A Single Center Study of 358 Patients. Broadwater Spine: Base to Summit 2022, Vail, Colorado, January 14-17, 2022
1000. What is the Incidence, Mechanism, and Protective Strategies for 2 Year Pelvic Fixation Failure after Adult Spinal Deformity Surgery with A Minimum 6 Level Fusion . 29th International Meeting on Advanced Spine Techniques (IMAST), Miami, Florida, April 6-9, 2022.
1001. Park P, Morrissette C, Lee , Cerpa M, Ha A, Zuckerman S, Lehman R., **Lenke LG** . Risk Factors for Mechanical Complications Associated with Multi-Rod Constructs in Adult Spinal Deformity: Where and Why do They Occur? 29th International Meeting on Advanced Spine Techniques (IMAST), Miami, Florida, April 6-9, 2022.
1002. Lin J, Mathew J, Lee N, Osorio J, Marciano G, Lombardi J, Sardar Z, Lehman R, **Lenke LG**.A New Sensitive Radiographic Criteria for Differentiation Between Adult Idiopathic Versus Degenerative Lumbar Scoliosis: Apical Pedicle Diameter Asymmetry. Global Spine Congress, Las Vegas, NV, June 1-4, 2022.
1003. Cervical inclination angle (CIA) normative values in an adult multi-ethnic asymptomatic population. Global Spine Congress, Las Vegas, NV, June 1-4, 2022.
1004. Hills J, Bourret S, Dennis HW, Hee Kit W, Riahi H, Liu G, Bouaiz M, LeHuec JC, Hasegawa K, Kelly M, Sardar Z, **Lenke LG**. Efficacy of the Fracture Risk Assessment Tool in Identifying Osteoporosis and Osteopenia in Adult Spinal Deformity Surgery. Global Spine Congress, Las Vegas, NV, June 1-4, 2022.
1005. A Simple Novel Classification of Paraspinal Muscle Quality at the Upper Instrumented Vertebrae to Predict Proximal Junctional Kyphosis. Global Spine Congress, Las Vegas, NV, June 1-4, 2022.
1006. Mathew J, Zuckerman S, Marciano G, Simhon M, Lee N, Boddapati V, Cerpa M, Lehman R, Sardar Z, Dryszka M, Lombardi J, **Lenke LG**. How is Life With a C2-Sacrum Instrumentation and Fusion? Evaluation by Health Related Quality of Life Metrics. AAOS 2022 Annual Meeting, Chicago, IL, March 22 – 26, 2022
1007. Lee NJ, Iyer R, Fano AN, Leung E, Boddapati V, Lombardi JM, Sardar ZM, Lehman RA, Roye BD, Vital MG, **Lenke LG**. Are Side-Bending Films Necessary? Supine Films Better Predict Structural Minor Curves for Selective Fusion in Adolescent Idiopathic Scoliosis.
1008. Lee NJ, Iyer R, Fano AN, Leung E, Boddapati V, Lombardi JM, Sardar ZM, Lehman RA, Roye BD, Vital MG, **Lenke LG**. Are Side-Bending Films Necessary? Supine Films Better Predict Structural Minor Curves for Selective Fusion in Adolescent Idiopathic Scoliosis. International Society for the Advancement of Spine Surgery 2022, Bahamas, June 1-4,2022.
1009. Lee NJ, Sardar ZM, Park PJ, Lombardi JM, Leung E, Lehman RA, **Lenke LG**. A Novel Method to Predict Postoperative Coronal Alignment Based on Intraoperative X-rays in Adult Spinal Deformity Surgery. International Society for the Advancement of Spine Surgery 2022, Bahamas, June 1-4,2022.
1010. Sanket M, Danford NC, Boddapati V, Lombardi JM, Sardar ZM, **Lenke LG**, Lehman RA. Disparities in Trauma Care: The Association of Insurance Status with Diagnostic and Therapeutic Procedure Administration in Spine Trauma. (October 2022). NASS Annual Conference; Chicago; IL. October 12-15, 2022
1011. Iyer RR, Vitale MG, Fano AN, Matsumoto H, Sucato DJ, Samdani AF, Smith JS, Gupta MC, Kelly MP, Kim HJ, Sciubba DM, Cho SK, Polly DW, Boachie-Adjei O, Angevine PD, Lewis SJ, Lenke LG. Establishing consensus: determinants of high-risk and preventative strategies for neurological events in complex spinal deformity surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1012. J Wondra, M Kelly, L Yanik, M Serra, C Ames, F Pellise, A Vila, C Shaffrey, J Smith, J Greenberg**, Lenke LG**, K Bridwell. Evaluation of Abbreviated Adult Spinal Deformity Surgical Adverse Event Prediction Tools in Adult Symptomatic Lumbar Scoliosis. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1013. Mo, Harris A, R Lafage, Neuman, Hostin, Samrat, Soroceanu, Kim, Klineberg, Gum, Gupta, Hamilton, Schwab, Burton, Daniels, Passias, Protopsaltis, Hart, Kelly, Line, Ames, Lafage, Shaffrey, Smith, Bess, **Lenke LG**, Kebaish, ISSG. Complex ASD Patients Receiving High-dose TXA have Significantly Lower Blood Loss Compared to Low-dose TXA without Increased Thromboembolic Complications. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1014. Renaud Lafage; Mitchell S. Fourman; Bess; Burton; Daniels; Gupta; Hostin; Kebaish; Ames; Kelly; Kim; Klineberg; **Lenke LG**; Lewis; Passias; Protopsaltis; Shaffrey; Smith, Justin; Schwab; Virginie Lafage; ISSG. Can AI Identify Patterns of Complex Adult Spinal Deformity with Distinct Perioperative Outcomes? Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1015. Hills, **Lenke LG**, Ames, Bess, V Lafage, R Lafage, T Protopsaltis, J Smith, C Shaffrey, Mundis, Klineberg, M Gupta, HJ Kim, M Kelly ISSG. Normalizing Lumbopelvic and Thoracolumbar Alignment Reduces Mechanical Complications in Adult Spinal Deformity. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1016. Iyer R, Vitale MG, Fano AN, Matsumoto H , Sucato DJ, Samdani AF, Smith JS, Gupta MC, Kelly MP, Kim HJ, Sciubba DM, Cho SK, Polly DW, Boachie-Adjei O, Angevine PD, Lewis SJ, **Lenke LG**. Establishing Expert Consensus: Determinants Of High-Risk & Preventative Strategies For Neurological Events In Complex Spinal Deformity Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1017. Lafage R, Elysee J, Bess S, Burton DC, Daniels AH, Diebo BG, Gupta M, Hostin R, Kebaish KM, Kelly MP, Kim HJ, Klineberg EO,**Lenke LG***,* Lewis S, Ames CP, Passias PG, Protopsaltis TS, Shaffrey CI, Smith JS, Schwab FJ, Lafage V, International Spine Study Group *.* Quantifying the contribution of lower limb compensation to upright posture: what happens if ASD patients do not compensate? Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1018. Gum JL, Elysee J, Lafage R, Smith JS, Line B, Yeramaneni S, Mo K, Lafage V, Scheer J, Soroceanu A, Buell T, Klineberg E, Kim HJ, Passias P, Kebaish K, Eastlack R, Daniels A, Mundis G, Hostin R, Protopsaltis TS, MD, D. Kojo Hamilton, MD, Michael P. Kelly, MD, Munish Gupta, MD, Robert Hart, MD, Frank J Schwab, MD, Burton D, Ames CP,  **Lenke LG,** Shaffrey CI, Bess S, International Spine Study Group. Are Supplemental-Rod Constructs (SRCs) Associated with Increased Rates of PJK/PJF?. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1019. Diebo BG, Tataryn Z, Alsoof D, Lafage R, Hart RA, Passias PG, Ames CP, Scheer MP, Lewis SJ, Shaffrey CI, Burton DC, Deviren V, Line BG, Soroceanu A, Hamilton DK, K. Klineberg EO, Mundis GM, Kim HJ, Gum JL, L. Smith JS, Uribe JS, Kelly MP, Kebaish KM, Gupta MC, Nunley PD, Eastlack RK, Hostin R, Protopsaltis TS, **Lenke LG,** Schwab FJ, Bess S, Lafage V, Daniels AH, International Spine Study Group. Height Gain Following Correction of Adult Spinal Deformity: Magnitude, Anatomic Distribution, and Association With Patient Satisfaction. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1020. Ha A, Coury JR, Luzzi AJ, Hong D, Hassan F, Lehman RA, **Lenke LG**, Sengupta DK.Biomechanical Comparison of Lumbar, Sacral and Iliac Screw Strain With the Kickstand Rod Versus Conventional Pelvic Fixation in Adult Spinal Deformity Surgery. Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1021. Coury JR, ShenY, Cerpa M, Sardar ZM, **Lenke LG.**  Fracture Risk Assessment Tool (Frax) Is Ineffective In Identifying Adult Spinal Deformity Patients At Risk For Osteoporosis. Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1022. Mo KC, MHA, Smith JS, Passias PG, Tretiakov P, Bess S, Wang K, Yeramaneni S, Neuman BJ, Hostin R, Gum JL, Lafage R, Protopsaltis TS, Gupta M, Ames CP, Klineberg EO, Hamilton DK, Schwab FJ, Burton DC, Daniels AH, Soroceanu A, Kim HJ, Hart RA, Line BG, Lafage V, Shaffrey CI, **Lenke LG**, Kebaish KM, International Spine Study. All-Cause Mortality Following Cervical and Thoracolumbar Adult Deformity Surgery:Incidence and Causes. Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1023. Park PJ,Hassan F, Morrissette C, Lee NJ, Shen Y, Herbert M, Lehman RA, L**enke LG.** The Equilibration of Sagittal Alignment Over Time In the Adult Spinal Deformity Patient – Is the Immediate Postoperative Radiograph Misleading in Ultimate Sagittal Alignment? Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1024. Kelly MP, Upasani VV, Pahys JM, Fletcher ND, George SG, Shah SA, Bastrom TP, Bartley CE, **Lenke LG**. Srs-Self Image In Adolescent Idiopathic Scoliosis At 10 Year Follow-Up: As Good As It Gets? Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1025. Can We Stop Distally At Lstv-1 For Adolescent Idiopathic Scoliosis With Lenke 1a/2a Curves? A Minimum Of 2-Year Follow-Up Study. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
1026. Smith JS,Elias E, Line B,Lafage V, Lafage R, Klineberg E, Kim HJ, Passias P, Gum JL, Kebaish KH, Eastlack R, Daniels A, Mundis G, Hostin R, Protopsaltis TS, Hamilton DK, Kelly MP, Gupta M, Hart R, Schwab FJ, Burton D, Ames CP, **Lenke LG,** Shaffrey CI,Bess S, International Spine Study Group. How Good Are Surgeons at Achieving Their Goal Sagittal Alignment Following Adult Deformity Surgery? NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1027. Scheer, Yeramaneni, Lafage, Gupta, Kim, Klineberg, Schwab, Burton, Hart, Gum, Kelly, Passias, Kebaish, Line, Protopsaltis, Shaffrey, Smith, **Lenke LG**, Bess, Ames, ISSG. The Pre-operative Inflammatory State is an Independent Risk Factor for Short-Term Post-Operative Complications in Adult Spinal Deformity Patients. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1028. Mo, Kebaish, Passias, Williamson, Vedat Deviren, MD; Kristen Roles, MS; Sarah Acselrod, BA candidate; Brenda Sides, MA; Hostin, Gum, Protopsaltis, Daniels, Samrat, Renaud Lafage, Ames, Klineberg, Hamilton, Schwab, Burton, Soroceanu, Kim, Hart, Kelly, Line, Virginie Lafage, Shaffrey, Smith, Bess, **Lenke LG**, Gupta, ISSG. A Comparative Analysis of Racial Disparities in Nationally Derived Hospital Data and Two Prospective Multicenter Surgical Databases of Adult Spinal Deformity Surgery. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1029. Joujon-Roche, Passias, Smith, Lafage, Line, Williamson, Tretiakov, Kroll, Imbo,L120 Daniels, Gum, Themi, Hamilton, Soroceanu, Scheer, Eastlack, Mundis, Kelly, Agarwal, Nunley, Than, Fessler, Traynelis, Klineberg, Khabeish, Lewis, **Lenke LG**, Hostin, Gupta, HJK, Hart, Burton, Shaffrey, Schwab, Bess, Lafage V, Ames, ISSG,. Expectations of Clinical Improvement Following Corrective Surgery for Adult Cervical Deformity Based on Functional Disability at Presentation. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1030. Diebo, Alsoof, Lafage R, Passias, Ames, Shaffrey, Burton, Deviren, Line, Soroceanu, Hamilton, Klineberg, Mundis, Kim, Gum, Smith, Lewis, Uribe, Kelly, Kebaish, Gupta, Nunley, Eastlack, Hostin, Protopsaltis, **Lenke LG**, Hart, Schwab, Bess, Lafage V, Daniels, ISSG. Impact of Self-Reported Loss of Balance and Gait Disturbance on Adult Spinal Deformity Surgery Outcomes. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1031. Passias, Oscar Krol, Lafage, Smith, Line, Rachel Joujon-Roche, Peter Tretiakov, Tyler Williamson, Bailey Imbo, Samrat, , Diebo, Daniels, Gum, Themi, Hamilton, Soroceanu, Scheer, Eastlack, Mundis, Kelly, Nunley, Nima, Klineberg, Khabeish, Lewis, **Lenke LG**, Hostin, Gupta, HJK, Ames, Hart, Burton, Shaffrey, Schwab, Bess, HJK, Lafage V, ISSG,. Prophylactic Proximal Junctional Measures Improves Cost Efficacy of Adult Spinal Deformity Surgery, With Optimal Cost Utility Seen in Those With Concurrent Optimal Realignment. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1032. Mo, Neuman, Samrat, Raad, Hostin, Passias, Gum, Lafage, Kelly Protopsaltis, Gupta, Ames, Klineberg, Hamilton, Schwab, Burton, Daniels, Soroceanu, Kim, Hart, Line, Lafage, Shaffrey, Smith, Bess, **Lenke LG**, Kebaish, ISSG. Patients with Additional Medical Comorbidities Failed to Maintain MCID+ Status at 5-years following Adult Spinal Deformity Surgery. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
1033. Kelly MP, Upasani VV, Pahys JM, Fletcher ND, George SG, Shah SA, Bastrom TP, Bartley CE, **Lenke LG**,Newton PO, Harms Study Group *.*SRS Self-Image in Adolescent Idiopathic Scoliosis at 10 Year Follow-Up: As Good as it Gets? SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
1034. Renaud Lafage; Mitchell S. Fourman; Bess; Burton; Daniels; Gupta; Hostin; Kebaish; Ames; Kelly; Kim; Klineberg; **Lenke LG**; Lewis; Passias; Protopsaltis; Shaffrey; Smith, Justin; Schwab; Virginie Lafage; ISSG. Can AI Identify Patterns of Complex Adult Spinal Deformity with Distinct Perioperative Outcomes? SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
1035. Yankey KP, Nyantakyi DO, Sackeyfio A, Wulff IA, Boachie-Adjei O, Sponseller PD, Garg S, Sides BA, Samdani AF, Bumpass DB, Yaszay B, **Lenke LG**, Erickson A, Gupta MC*.* Clinical and Radiographic Outcomes Following Complex Spine Reconstruction in Neurofibromatosis With Severe Spinal Deformity. SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
1036. Wick J, Blandino A, Smith JS, Line BG, Lafage V, Lafage R, Kim HJ, Passias PJ, Gum JL, Kebaish KM, Eastlack RK, Daniels AH, Mundis GM, Hostin R, Protopsaltis TS, Hamilton DK, Kelly MP, Gupta MC, Hart RA, Schwab FJ, Burton DC, Ames CP, **Lenke LG**, Shaffrey CI, Bess S, Klineberg EO, International Spine Study Group .The ISSG-AO Complication Intervention Score, But Not Major/Minor Designation, is Correlated With Length of Stay. SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
1037. Yoshida G, Boissiere L, Berven SH, **LenkeLG**, Lewis SJ, Matsuyama Y. Perioperative Complications in Adult Spine Deformity Surgery: Classification and Prevention Strategies. SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
1038. Lee NJ, Fields M, Hassan F, Mikhail C, Stephan S, Baksheshian J, Platt A, Lombardi JM, Sardar ZM, Lehman RA, **Lenke LG**. How to Use Preoperative Pelvic Obliquity, Leg Length Discrepancy, and Lower Extremity Compensation as an Intraoperative Tool to Predict Postoperative Coronal Alignment for Adult Spinal Deformity with 2 Years Follow up. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022
1039. Coury J, Sardar Z, Ren M, Shen Y, Vitale M, Roye B, Lombardi J,  **Lenke LG**. UIV within 3 Levels of the Thoracic Apex is the Most Significant Risk Factor for Proximal Junctional Kyphosis in Lenke Type 5 and 6 Adolescent Idiopathic Scoliosis Patients. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022
1040. Propensity Score Matched(PSM) Study Comparing Patient Reported(PROs) and Clinical Outcomes Among Patients who Achieved PI-LL(PILL)<10 versus PI-LL>10. IMAST 2023
1041. Fthimnir Hassan, **Lenke LG**, Burton, Daniels, Gupta, Hostin, Kebaish, Kelly, Kim, Klineberg, Lewis, Passias, Protopsaltis, Schwab, Shaffrey, Smith, B. Line, R. Lafage, V. Lafage, Bess; ISSG. Neurologic Outcomes of Adult Spinal Deformity Patients with Baseline Preoperative Lower Extremity Weakness: Will they Improve Following Surgery? Global Spine Congress, May 31 - June 3, 2023
1042. Comparison of Implant Failure Rates in Three versus Four Rod Constructs in Adult Idiopathic Scoliosis Surgery. Global Spine Congress, May 31 - June 3, 2023
1043. The Cranial Sagittal Vertical Axis To The Hip (CrSVA-H) Is The Best Sagittal Alignment Predictor Of Patient Reported Outcomes At 2 Years Postoperative In Adult Spinal Deformity Surgery. Global Spine Congress, May 31 - June 3, 2023
1044. Lee NJ, Fields M, Hassan F, Mikhail C, Stephan S, Baksheshian J, Platt A, Lombardi JM, Sardar ZM, Lehman RA, **Lenke LG**. How to Use Preoperative Pelvic Obliquity, Leg Length Discrepancy, and Lower Extremity Compensation as an Intraoperative Tool to Predict Postoperative Coronal Alignment for Adult Spinal Deformity with 2 Years Follow up. Global Spine Congress, May 31 - June 3, 2023
1045. Does Coronal Alignment Affect Patient Reported Outcomes for Adult Spinal Deformity Surgery? The Key May Be Lower Extremity Compensation vs. Decompensation. Global Spine Congress, May 31 - June 3, 2023
1046. Sarthak Mohanty, Fthimnir M. Hassan, **Lawrence G. Lenke**, Peter Passias, Eric O. Klineberg, Virginie Lafage, Shay Bess, Justin S. Smith, D. Kojo Hamilton, Jeffrey L. Gum, Renaud Lafage, Jeffrey Mullin, Michael P. Kelly, Bassel Diebo, Thomas J Buell, Justin K Scheer, Breton Line, Han Jo Kim, Khal Kebaish, Robert Eastlack, Alan Daniels, Alex Soroceanu, Gregory Mundis, Richard Hostin, Themistocles S. Protopsaltis, Robert A. Hart, Munish Gupta, Frank J Schwab, Christopher I. Shaffrey, Christopher P. Ames, Douglas Burton, ISSG. Machine Learning Generates Phenotypes of ASD Patients: Classification with 2Yr Prognostic Value. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1047. Coury JR, Marciano G, Malka M, Katiyar P, Greisberg G, Schaum E, Sardar Z, **Lenke LG**, Weidenbaum M. Interdisciplinary Preoperative Optimization Conference Mitigates the Risk of Post-Operative Complications in Adult Spinal Deformity Surgery. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1048. Christopher Lai, Sarthak Mohanty, Fthimnir M. Hassan, Caroline Taber, Jaques Williams, Nathan Lee, Zeeshan Sardar, Ronald Lehman, **Lawrence G. Lenke**. The Role of Forward Global Sagittal Alignment of the Cranium Relative to the Hips in Patient Reported Outcome Trajectory after Adult Spinal Deformity Surgery. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1049. Josephine R. Coury, Gerard Marciano, Matan Malka, Prerana Katiyar, Gabreilla Greisberg, Eric Schaum, Zeeshan M. Sardar, **Lawrence G. Lenke**, Mark Weidenbaum. Preoperative Optimization Conference Mitigates the Risk of Post-Operative Complications in Adult Spinal Deformity Surgery. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1050. Josephine R. Coury, Justin Reyes, Matan Malka, Natalia Czerwonka, Joseph M. Lombardi, Zeeshan M. Sardar, **Lawrence G. Lenke**.Computerized Tomography Hounsfield Units Measurements Can Predict Proximal Junctional Kyphosis in Adult Spinal Deformity Patients with Long Constructs. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1051. Yong Shen, Zeeshan M. Sardar, Gabriella Greisberg, Prerana Katiyar, Matan Malka, Fthimnir M. Hassan, Gerard Marciano, Scott L. Zuckerman, Joseph M. Lombardi, Ronald A. Lehman, **Lawrence G. Lenke**. Use of the Odontoid-L5 Pedicle Plumb Line as a Simple Method of Assessing Coronal Alignment and Outcomes. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1052. Sarthak Mohanty, Fthimnir M. Hassan, **Lawrence G. Lenke**, Peter Passias, Eric O. Klineberg, Virginie Lafage, Shay Bess, Justin S. Smith, D. Kojo Hamilton, Jeffrey L. Gum, Renaud Lafage, Jeffrey Mullin, Michael P. Kelly, Bassel Diebo, Thomas J Buell, Justin K Scheer, Breton Line, Han Jo Kim, Khal Kebaish, Robert Eastlack, Alan Daniels, Alex Soroceanu, Gregory Mundis, Richard Hostin, Themistocles S. Protopsaltis, Robert A. Hart, Munish Gupta, Frank J Schwab, Christopher I. Shaffrey, Christopher P. Ames, Douglas Burton, ISSG . Machine Learning Generates Unique Phenotypes of ASD Patients: Classification with 2Yr Prognostic Value. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
1053. A Machine-Learned Quantitative Classification of Asymptomatic Adult Spinal Sagittal Curvature: Comparison to Roussouly Types. Scoliosis Research Society 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1054. Sarthak Mohanty, Fthimnir M. Hassan, Erik Lewerenz, Zeeshan M. Sardar, Ronald A. Lehman, **Lawrence G. Lenke**. Osteoporotic Patients on Teriparatide Have Lower Pseudarthrosis Rate Compared to Patients with Osteopenia. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1055. Sarthak Mohanty, Fthimnir M. Hassan, Zeeshan M. Sardar, Ronald A. Lehman, **Lawrence G. Lenke** “Too Much of a Good Thing”: High Cell Saver Autotransfusion is Associated with Perioperative Medical Complications. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1056. Sarthak Mohanty, Andrew Platt, Fthimnir M. Hassan, Zeeshan M. Sardar, Ronald A. Lehman, **Lawrence G. Lenke**. Adult Spinal Deformity Patients Revised for Pseudarthrosis have Comparable 2Yr Outcomes to those not undergoing any Revision Surgery. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1057. Diebo, Daniels, R Lafage, Balmaceno-Criss, Hamilton, Smith JS,Eastlack, Fessler, Gum, Gupta, Hostin, Kebaish, Kim,Klineberg, Lewis, Line, Nunley, Mundis, Passias, Protopsaltis,Buell, Scheer, Mullin, Soroceanu, Ames, **Lenke LG**, Bess, Shaffrey,Schwab, V Lafage, Burton, ISSG. Lumbar Lordosis Redistribution and Segmental Correction in Adult Spinal Deformity (ASD): Does it Matter? 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1058. Buell TJ, Legarreta AD, Smith JS, Diebo B, Passias PG, Gum J, Shaffrey CI, Bess S, Klineberg EO, **Lenke LG**, Lafage V, Lafage R, Agarwal N, Kim HJ, Protopsaltis TS, Mundis GM, Eastlack, RK, Kelly MP, Daniels AH, Scheer J, Soroceanu A, Hostin RA, Kebaish KM, Hart RA, Lewis S, Schwab FJ, Ames CP, Gupta MC. Okonkwo DO, Hamilton DK, Burton DC, ISSGLong-Term (>2yr) Complications after Adult Spinal Deformity Surgery: Survivor Analysis Focused on Patients without Early- or Mid-Term Complications. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1059. Burton D, Bess S, Shaffrey C, Lewis S, Line B, **Lenke LG**, Klineberg, Ames C, Eastlack R, Mundis G, Gum J, Hamilton DK, Lafage V, Lafage R, Daniels A, Gupta M, Kelly M, Passias P, Protopsaltis T, Kebaish K, Kim HJ, Schwab F, Smith J, ISSG. Self-Image Is Underestimated as a Primary Driver for Patient Treatment and Surgical Satisfaction In Adult Spinal Deformity (ASD). 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1060. Diebo, Daniels, R Lafage, Balmaceno-Criss, Hamilton, Smith JS, Eastlack, Fessler, Gum, Gupta, Hostin, Kebaish, Kim, Klineberg, Lewis, Line, Nunley, Mundis, Passias, Protopsaltis, Buell, Scheer, Mullin, Soroceanu, Ames, **Lenke LG**, Bess, Shaffrey, Schwab, V Lafage, Burton, ISSG. Lumbar Lordosis Redistribution and Segmental Correction in Adult Spinal Deformity (ASD): Does it Matter? 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1061. Richard Hostin, MD, Samrat Yeramaneni, MBBS, PhD, Jeffrey L. Gum, MD, Breton Line, BSME, Shay Bess, MD, **, Lenke LG**, MD, Renaud Lafage, MS, Justin S. Smith, MD, PhD, Jeffrey Mullin, MD, Michael P. Kelly, MD, Bassel Diebo, MD, Thomas J Buell, MD, Justin K Scheer, MD, Virginie Lafage, PhD, Eric Klineberg, MD, Han Jo Kim, MD, Peter Passias, MD, Khal Kebaish, MD, Robert Eastlack, MD, Alan Daniels, MD, Alex Soroceanu, MD, Gregory Mundis, MD, Themistocles S. Protopsaltis, MD, D. Kojo Hamilton, MD, Munish Gupta, MD, Frank J Schwab, MD, Christopher I. Shaffrey, MD, Christopher P. Ames, MD, Douglas Burton, MD, International Spine Study Group. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1062. Jeffrey L. Gum, MD, Breton Line, BSME, Shay Bess, MD, Lawrence G. Lenke, MD, Renaud Lafage, MS, Justin S. Smith, MD, PhD, Jeffrey Mullin, MD, Michael P. Kelly, MD, Bassel Diebo, MD, Thomas J Buell, MD, Justin K Scheer, MD, Virginie Lafage, PhD, Eric Klineberg, MD, Han Jo Kim, MD, Peter Passias, MD, Khal Kebaish, MD, Robert Eastlack, MD, Alan Daniels, MD, Alex Soroceanu,MD, Gregory Mundis, MD, Richard Hostin, MD, Themistocles S. Protopsaltis, MD, D. Kojo Hamilton, MD, Munish Gupta, MD, Frank J Schwab, MD, Christopher I. Shaffrey, MD, Christopher P. Ames, MD, Douglas Burton, MD, International Spine Study Group. Surgeons Beware! Defining the “No Surgery Recommended” (NSR) Patient Who Should Not Undergo ASD Surgery. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
1063. A Prospective, Observational, Multicenter Study Assessing Functional Improvements After Multilevel Fusion for Adult Spinal Deformity (ASD): 5-Year Follow-Up Results. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023

## XIII. SCIENTIFIC EXHIBITS/POSTERS

1. Kai Y, Owen J, **Lenke LG**, Bridwell KH, Oakley D. The use of sciatic/NMEPs versus spinal potentials to predict the early onset of neurological deficits when intervention is still possible. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
2. Owen J, Kai Y, **Lenke LG**, Bridwell KH, Oakley D. The use of antidromic sensory activity to monitor multiple nerve root functions simultaneously in animals: preliminary results. Scoliosis Research Society 25th Annual Meeting, Honolulu, HI, September 1990.
3. Marushack M‡, **Lenke LG**, Bridwell KH. The surgical treatment of lumbar hemivertebra: analysis of the technique. Scoliosis Research Society 27th Annual Meeting, Kansas City, MO, September 1992.
4. Marushack M‡, **Lenke LG**, Bridwell KH. The surgical treatment of lumbar hemivertebra: analysis of the technique. American Academy of Orthopaedic Surgeons 60th Annual Meeting, San Francisco, CA, February 1993.
5. O’Brien MF\*, **Lenke LG**, Baldus C. Degenerative “De Novo” adult scoliosis. Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland, September 19-23, 1993.
6. O’Brien MF\*, **Lenke LG**, Bridwell KH, Baldus C. Degenerative “De Novo” adult scoliosis. North American Spine Society 8th Annual Meeting, San Diego, CA, October 13-15, 1993.
7. Chapman MP\*, Hamill CL\*, Bridwell KH, **Lenke LG**, Blanke K, Baldus C. Can we lordose the spine with Zielke instrumentation anteriorly? Poster Exhibit 9. Scoliosis Research Society 30th Annual Meeting, Asheville, NC, September 13-17, 1995. **John H. Moe Award for Best Scientific Poster**
8. Chapman MP\*, Hamill CL\*, Bridwell KH, **Lenke LG**. Results of three treatment methods for idiopathic thoracolumbar lumbar scoliosis. Can we lordose the spine with Zielke instrumentation? North American Spine Society 10th Annual Meeting, Washington, D.C., October 18-21, 1995.
9. Chapman MP\*, Hamill CL\*, Bridwell KH, **Lenke LG**, Blanke K, Baldus C. Can we lordose the spine with Zielke instrumentation anteriorly? Poster Exhibit E44. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Atlanta, GA, February 25-28, 1996.
10. **Lenke LG**, Betz RR, Bridwell KH, Clements III DH, Harms J, Lowe TG, Shufflebarger HL. Classification of adolescent idiopathic scoliosis (AIS): A new system addressing both coronal and sagittal planes. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
11. Clements III DH, Betz RR, Harms J, **Lenke LG**, Balsara RK. Analysis of sagittal contour after correction of thoracic idiopathic scoliosis: Anterior versus posterior instrumentation. Scoliosis Research Society 31st Annual Meeting, Ottawa, Ontario, Canada, September 25-28, 1996.
12. Marsicano JG\*, Bridwell KH, **Lenke LG**, Gupta P\*, Blanke K, Baldus C. Operative results for degenerated segments adjacent to a spinal fusion. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
13. Gupta P\*, Bridwell KH, **Lenke LG**, Marsicano JG\*, Blanke K, Baldus C. Evaluation and treatment of flat back deformity. Scoliosis Research Society 31st Annual Meeting, Ottawa, Canada, September 25-28, 1996.
14. **Lenke L**, Vedantam R\*, Linville D\*, Blanke K, Bridwell K. Comparing the push-prone vs. side bending radiographs for predicting postoperative coronal alignment in thoracolumbar and lumbar adolescent idiopathic scoliosis. 4th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 10-13, 1997.
15. Betz RR, Harms J, **Lenke LG**, Lowe TG, Clements III DH, Jeszenszky D. Anterior rigid rod instrumentation for thoracic idiopathic scoliosis. Exhibit 6. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
16. **Lenke LG**, Engsberg JR, Kemp JS, Bridwell KH, Bassett GS. Performance measures in adolescent idiopathic scoliosis patients. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
17. Vedantam R\*, **Lenke LG**, Linville D\*, Blanke K, Bridwell KH. Comparison of the push-prone and side bending radiographs for predicting postoperative coronal alignment in thoracolumbar and lumbar adolescent idiopathic scoliosis. Exhibit 19. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
18. Vedantam R\*, Linville D\*, **Lenke LG**, Bridwell KH. Effect of variation in arm position on the sagittal spinal alignment. Exhibit 27. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
19. Linville D\*, Bridwell KH, **Lenke LG**, Vedantam R\*, Leicht P. Revision surgery in the adult spinal deformity patient using combined procedures: Do revision cases have more complications? Exhibit 53. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
20. **Lenke LG**, Engsberg JR, Olree KF, Ross SA, Blanke K, Weston J. Trunk range of motion and gait analysis following adolescent idiopathic scoliosis fusion. Exhibit 66, Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 25-27, 1997.
21. Vedantam RW\*, Linville DA\*, **Lenke LG**, Bridwell KH. Effect of variation in arm position on the sagittal spinal alignment. North American Spine Society 12th Annual Meeting, New York, NY, October 1997.
22. Betz RR, Harms J, **Lenke LG**, Lowe TG, Clements III DH, Jeszenszky D. Anterior rigid rod instrumentation for thoracic idiopathic scoliosis. Orthopaedic Association of the English Speaking World, Auckland, New Zealand, February 1998.
23. Linville D\*, Bridwell KH, **Lenke LG**, Vedantam R\*, Leicht P. Complications in the adult spinal deformity patient having combined surgery. Does revision increase the risk? American Academy of Orthopaedic Surgeons 64th Annual Meeting, New Orleans, LA, March 19-23, 1998.
24. **Lenke LG**, Betz RR, Harms J, Bridwell KH, Clements III DH, Lowe TG. A new and reliable comprehensive classification system of adolescent idiopathic scoliosis. Poster Exhibit 36. 5th International Meeting on Advanced Spine Techniques, Sorrento, Italy, May 1998.
25. Betz RR, Harms J, **Lenke LG**, Clements III DH, Lowe TG. Solid rod anterior thoracic instrumentation and fusion for adolescent idiopathic scoliosis. 5th International Meeting on Advanced Spine Techniques, Sorrento, Italy, May 1998.
26. Betz RR, Harms J, **Lenke LG**, Lowe TG, Clements DH, Merola A, Haher T, Wenger D, Newton P. Anterior rigid rod instrumentation for thoracic idiopathic scoliosis. Exhibit 5. Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
27. D’Andrea LP, Betz RR, **Lenke LG**, Harms J, Clements DH, Lowe TG. The effect of continued spinal growth on sagittal contour in patients treated by anterior instrumentation for adolescent idiopathic scoliosis. Exhibit 10, Scoliosis Research Society 33rd Annual Meeting, New York, NY, September 16-20, 1998.
28. Polly DW, Kuklo TR\*, Cunningham BW, **Lenke LG**, Oda I, Klemme WR. Biomechanical analysis of anterior thoracic scoliosis constructs: effect of rod diameter and intervertebral cages. 8th Annual Spine Surgeon Transition Program’s Spine+Science+Management: Spine Fellows Conference, New Orleans, LA, November 20-21, 1998.
29. D’Andrea LP, Betz RR, **Lenke LG**, Harms J, Clements III DH, Lowe TG. The effect of continued spinal growth on sagittal contour in patients treated by anterior instrumentation for adolescent idiopathic scoliosis. Poster 252. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
30. D’Andrea LP, Betz RR, **Lenke LG**, Clements III DH, Lowe TG, Merola AA, Haher TR, Harms J, Huss GK, Blanke K, McGlothlen S. Do radiographic parameters correlate with clinical outcomes in adolescent idiopathic scoliosis? Poster 393. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
31. **Lenke LG**, Betz RR, Harms J, Clements III DH, Lowe TG, Bridwell KH, Blanke K. A new and comprehensive classification system of adolescent idiopathic scoliosis. Scientific Exhibit 358. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
32. Polly DW, Cunningham BW, Kuklo TR, **Lenke LG**, Oda I, Klemme WR. Biomechanical analysis of anterior scoliosis Constructs using intervertebral cages. 6th Annual International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, July 8-10, 1999.
33. **Lenke LG**, Betz RR, Merola AA, Clements III DH, Newton PO, Lowe TG. Curve prevalence of a new classification of adolescent idiopathic scoliosis (AIS). Can classification predict treatment? American Academy of Orthopaedic Surgeons 67th Annual Meeting, Orlando, FL, March 15-19, 2000.
34. Betz RR, **Lenke LG**, Clements III DH, Lowe TG, Newton PO. Anterior instrumentation for thoracic adolescent idiopathic scoliosis. Open and minimally invasive techniques. American Academy of Orthopaedic Surgeons 67th Annual Meeting, Orlando, FL, March 15-19, 2000.
35. **Lenke LG**. Posterior surgical management with arthrodesis in the immature spine. 7th International Meeting on Advanced Spine Techniques, Barcelona, Spain, July 2000.
36. **Lenke LG**. Selective thoracolumbar (TL) and lumbar (L) fusion in adolescent idiopathic scoliosis. 7th International Meeting on Advanced Spine Techniques, Barcelona, Spain, July 2000.
37. Betz RR, **Lenke LG**, Lowe TG, Harms J, Clements DH, Newton PO, Haher T, Merola A, Wenger D. Proximal screw pull-out during anterior instrumentation for thoracic scoliosis: Preventive techniques. Exhibit 17. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, October 18-21, 2000.
38. Betz RR, **Lenke LG**, Clements DH, Newton PO. Thoracoscopic versus open thoracotomy correction by anterior instrumentation for the treatment of thoracic adolescent idiopathic scoliosis. Exhibit 18. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, October 18-21, 2000.
39. White DK, **Lenke LG**, Kemp JS, Bridwell KH, Blanke K, Engsberg JR. Prospective evaluation of maximal oxygen consumption and ventilatory efficiency during exercise in adolescents with idiopathic scoliosis (AIS). Exhibit 68. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, October 18-21, 2000.
40. **Lenke L**, Betz R, Clements D, Newton P, Merola A, Lowe T, Wenger D, Crawford A. Interobserver and intraobserver reliability of choosing the stable vertebra: Comparing the traditional versus a new method. Exhibit 69. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, October 18-21, 2000.
41. Yukawa Y§, **Lenke LG**, Tenhula J, Riew KD, Bridwell KH, Blanke K. A prospective and comprehensive outcome study of surgically treated lumbar spinal stenosis with neurogenic claudication. Poster PE303. American Academy of Orthopaedic Surgeons 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
42. **Lenke LG**, Sweet FA\*, Blanke K, Whorton J, Bridwell KH. Prospective radiographic and clinical outcomes and complications of single solid rod instrumented anterior spinal fusion in adolescent idiopathic scoliosis. Poster PE312. American Academy of Orthopaedic Surgeons 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
43. Betz RR, **Lenke LG**, Lowe TG, Clements III DH. Comparison of anterior versus posterior instrumentation for correction of thoracic adolescent idiopathic scoliosis. Analysis by an objective radiographic scoring system. American Academy of Orthopaedic Surgeons 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
44. Kuklo TR\*, **Lenke LG**, Polly Jr. DW, Lauerman WC, Sturm PF, Hanway JF, Klemme WR, Bridwell KH. Independent surgeon assessment of clinical and radiographic features of the proximal thoracic curve and shoulder balance in adolescent idiopathic scoliosis. E-Poster 43. 8th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 12, 2001.
45. **Lenke LG**, Young S, Johnston C, Braumfield D. Biomechanical comparison of single vs. dual rod anterior long segment constructs. E-Poster 86. 8th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 12, 2001.
46. Kim YJ§, **Lenke LG**, Bridwell KH, Riew KD, O’Brien MF\*, Rhee JM\*, Hanson DS\*. CT scan accuracy of “Free Hand” thoracic pedicle screw placement in pediatric spinal deformity. Exhibit 36. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
47. Kim YJ§, **Lenke LG**, Bridwell KH, Riew KD, O’Brien MF\*, Rhee JM\*, Hanson DS\*. Free hand pedicle screw placement in the thoracic spine: is it safe? Exhibit 37. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
48. Kuklo TR\*, **Lenke LG**, Graham EJ‡, Won DS‡, Sweet FA\*, Blanke K, Bridwell KH. Correlation of radiographic, clinical and patient assessment of shoulder balance following fusion versus non-fusions of the proximal thoracic curve in adolescent idiopathic scoliosis. Exhibit 39. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
49. Merola AA, Brkaric M, Haher TR, Kohani O, Betz RR, Clements III DH, Huss G, **Lenke LG**, Lowe TG, Newton PO, Wenger DR, Marks MC, Gilbert E. Do outcome parameters correlate with surgical complications utilizing the SRS Questionnaire in the treatment of AIS? Exhibit 49. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-22, 2001.
50. Kuklo TR\*, **Lenke LG**, Graham EJ‡, Won DS‡, Sweet FA\*, Blanke K, Bridwell KH. Correlation of radiographic, clinical and patient assessment of shoulder balance following fusion versus non-fusion of the proximal thoracic curve in adolescent idiopathic scoliosis. 11th Annual Spine Surgeon Transition Program’s Spine+Science+Management: Spine Fellows Conference, New Orleans, LA, November 11-12, 2001.
51. Kuklo TR\*, **Lenke LG**, Graham EJ‡, Won DS‡, Sweet FA\*, Blanke K, Bridwell KH. Correlation of radiographic, clinical and patient assessment of shoulder balance following fusion versus non-fusion of the proximal thoracic curve in adolescent idiopathic scoliosis. Society of Military Orthopaedic Surgeons 43rd Annual Meeting, Vail, CO, December 10-15, 2001.
52. Kim YJ§, **Lenke LG**, Bridwell KH, Riew KD, Rhee JM\*, Hanson DS\*. Free hand pedicle screw placement in the thoracic spine - is it safe? American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
53. Yukawa Y§, **Lenke LG**, Fukui N, Lou J. Optimal treatment timing to rescue normal cells from spinal cord injury via Bcl-2 gene transfer *in-vitro* and *in-vivo*. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
54. Kim YJ§, **Lenke LG**, Bridwell KH, Riew KD, Rhee JM\*, Hanson DS\*. Free hand pedicle screw placement in the thoracic spine: is it safe? American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
55. Burd T‡, **Lenke LG**, Pawelek J. Upper extremity function assessment following anterior spinal fusion via open thoracotomy for adolescent idiopathic scoliosis. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.
56. Satake K§, **Lenke LG**, Kim YJ§, Bridwell KH, Blanke K. Analysis of the lowest instrumented vertebra and subjacent disc following anterior spinal fusion of thoracolumbar/lumbar idiopathic scoliosis. Poster 42. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
57. Kuklo TR\*, O’Brien MF\*, Lehman RA, Polly DW, **Lenke LG**. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
58. O’Brien MF\*, Smith DAB, Lowe TG, Kuklo TR\*, **Lenke LG**, Polly DW, Eule JM, Enguidanos ST, Hashim SM. Posterior pullout failure of deformity constructs in the thoracic spine: a biomechanical evaluation of traditional hook and thoracic pedicle screw constructs. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
59. O’Brien MF\*, Smith DAB, Eule JM, Enguidanos ST, Hashim SM, Kuklo TR\*, **Lenke LG**, Dwyer AP, Lowe TG, Polly DW. Lateral pullout failure of deformity constructs in the thoracic spine: a biomechanical evaluation of traditional hook and thoracic pedicle screw constructs. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
60. Polly DW, Kuklo TR\*, O’Brien MF\*, Schroeder TM, Nelson L, **Lenke LG**. Reliability of radiographic parameters for scoliosis evaluation. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
61. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
62. Kuklo TR\*, **Lenke LG**, O’Brien MF\*, Polly DW, Spinal Deformity Study Group. Adolescent idiopathic scoliosis measurement manual. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
63. Labelle HHL, Kuklo TR\*, **Lenke LG**, O’Brien MF\*, Polly DW, Spinal Deformity Study Group. Spondylolisthesis radiographic measurement manual. 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 23-25, 2002.
64. Betz RR, **Lenke LG**, Clements DH, Newton PO, Harms J, Wenger DR, Lowe TG, Haher TR, Merola AA. Limitations of anterior instrumentation for correction of thoracic adolescent idiopathic scoliosis in the immature (Risser 0) patient. Exhibit 7. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 18-21, 2002.
65. Newton P, Betz R, Clements D, **Lenke L**, Crawford A, Lowe T, Haher T, Merola A, Harms J, Beele B, Wenger D, Marks M. Anterior thoracoscopic instrumentation: a matched comparison to anterior open and posterior open instrumentation. Exhibit 9. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 18-21, 2002.
66. Engsberg JR, **Lenke LG**, Hollander KW, Uhrich ML, Bridwell KH. Changes in trunk range of motion (ROM) following anterior or posterior spinal fusion in adolescent idiopathic scoliosis. Exhibit 12. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 18-21, 2002.
67. Kuklo TR\*, Lehman Jr. RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. Exhibit 18. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
68. Polly DW, Kuklo TR\*, O’Brien MF\*, Schroeder TM, Nelson L, **Lenke LG**. Reliability of radiographic parameters for scoliosis evaluation. Exhibit 20. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
69. Kuklo TR\*, **Lenke LG**, O’Brien MF\*, Polly DW, Spinal Deformity Study Group. Adolescent idiopathic scoliosis (AIS) radiographic measurement manual. E-Poster 5. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
70. Engsberg JR, **Lenke LG**, Hollander KW, Ulrich ML, Cornean PK, Bae KT. Center of gravity (COG) in scoliosis. E-Poster 6. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
71. Newton PO, **Lenke LG**, Blanke K, Marks MC. Early post-operative changes in pulmonary function following anterior thoracoscopic instrumentation versus anterior open instrumentation for scoliosis. E-Poster 9. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
72. Clements DH, Betz RR, Newton PO, **Lenke LG**, Lowe TG, Merola AA, Haher TR, Marks M. Incidence of vascular complications associated with anterior thoracic instrumentation for adolescent idiopathic scoliosis. E-Poster 10. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
73. Betz RR, MacDonald JH, **Lenke LG**, Lowe TG, Newton PO, Clements DH, Wenger DR, Haher TR, Merola AA, Harms J, Shufflebarger HL. Perioperative complications of spinal fusion for thoracic adolescent idiopathic scoliosis. E-Poster 11. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
74. Kuklo TR\*, **Lenke LG**, O’Brien MF\*, Lehman RA, Schroeder TM, Polly Jr. DW. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. E-Poster 20. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
75. Rinella AS\*, **Lenke LG**, Whitaker C‡, Whorton J. Complications related to perioperative halo traction in the treatment of severe scoliosis. E-Poster 25. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
76. D’Andrea LP, Betz RR, Newton PO, Clements DH, **Lenke LG**, Haher TR, Merola AA, Sucato DJ. Reliability and validity of a spine deformity radiographic scoring system. E-Poster 40. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, September 19-21, 2002.
77. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. North American Spine Society 17th Annual Meeting, Montréal, Canada, October 29-November 1, 2002.
78. Lehman RA, Kuklo TR\*, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. 12th Annual Spine Surgeon Transition Program’s Spine+Science+Management: Spine Fellows Conference, New Orleans, LA, November 21-22, 2002.
79. Graham EJ‡, Kuklo TR\*, **Lenke LG**, Won DS‡, Sweet FA\*, Blanke KM, Bridwell KH. Correlation of radiographic, clinical and patient assessment of shoulder balance following fusion versus non-fusion of the proximal thoracic curve in adolescent idiopathic scoliosis. 12th Annual Spine Surgeon Transition Program’s Spine+Science+Management: Spine Fellows Conference, New Orleans, LA, Medtronic Sofamor Danek, November 21-22, 2002.
80. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with anterior spinal fusion. Society of Military Orthopaedic Surgeons 44th Annual Meeting, San Diego, CA, December 10-15, 2002.
81. Kuklo TR\*, O’Brien MF\*, Lehman RA, Polly DW, **Lenke LG**. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. Society of Military Orthopaedic Surgeons 44th Annual Meeting, San Diego, CA, December 10-15, 2002.
82. Kim YJ§, **Lenke LG**, Bridwell KH, Rinella AS\*, Edwards II CC\*. Pseudarthrosis in adult idiopathic scoliosis primary fusions; correlation with dominos, crosslinks and distal fusion levels. Poster 304. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 2003.
83. Rinella AS\*, **Lenke LG**, Peelle MW‡, Edwards II CC\*, Bridwell KH, Sides B. Comparison of SRS questionnaire results submitted by both parents and patients in the operative treatment of idiopathic scoliosis. Poster 314. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 2003.
84. Cole J, Murray DJ, **Lenke LG**, Bridwell KH, Bassett GS. Use of Amicar vs. Aprotinin during pediatric spinal deformity surgery. Can they help decrease blood loss? Poster 331. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 2003.
85. Maxy P, Polly DW, O’Brien MF\*, Kuklo TR\*, **Lenke LG**, Brumfield D. Finite element analysis of thoracic pedicle screw constructs. E-Poster 220. 10th International Meeting on Advanced Spine Techniques, Rome, Italy, July 10-12, 2003.
86. Lehman RA, Kuklo TR\*, O’Brien MF\*, Polly DW, **Lenke LG**. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. Eastern Orthopaedic Association 34th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003.
87. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. Eastern Orthopaedic Association 34th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003.
88. Lehman RA, Kuklo TR\*, O’Brien MF\*, Polly DW, **Lenke LG**. Accuracy and efficacy of thoracic pedicle screws in curves over 90 degrees. Southern Orthopaedic Association 20th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003.
89. Kuklo TR\*, Lehman RA, **Lenke LG**. Preoperative and postoperative CT evaluation of structures at risk with ASF. Southern Orthopaedic Association 20th Annual Meeting, Dublin, Ireland, July 30-August 3, 2003.
90. Lee SM, Suk SI, **Lenke LG**, Bridwell KH. Comparison of rigid and semi-rigid rods with segmental pedicle screw fixation in the treatment of adolescent idiopathic scoliosis (AIS). Poster 1. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
91. O’Brien MF\*, Polly DW, Kuklo TR\*, **Lenke LG**, Richard BS, Schreiber DM, Pinteric RJ, Schroeder TM, Blanke KM, Spinal Deformity Study Group. A multicenter clinical and radiographic analysis of anterior and posterior surgical techniques for treatment of “single overhang” thoracic AIS. Poster 16. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
92. **Lenke LG**, Glattes RC\*, Orchowski J\*, Spencer U\*, Blanke K, Sides B, Bridwell KH. Comparison of single vs. dual rod instrumentation for thoracolumbar/lumbar adolescent idiopathic scoliosis. E-Poster 3. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
93. Dobbs MB, **Lenke LG**, Bridwell KH. Curve prevalence of infantile and juvenile idiopathic curves using a modified Lenke classification scheme. E-Poster 57. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
94. Peelle M‡, **Lenke LG**, Bridwell K, Sides B. Iliac screw vs. Galveston rod pelvic fixation techniques in neuromuscular spinal deformity. E-Poster 59. Scoliosis Research Society 38th Annual Meeting, Québec City, Canada, September 10-13, 2003.
95. Newton PO, Faro FD, Betz RR, D’Andrea LP, Clements III DH, **Lenke LG**, Lowe TG, Merola AA, Haher TR. Selective vs. nonselective fusion of Lenke I curves in adolescent idiopathic scoliosis (AIS). Poster 387. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 10-14, 2004.
96. Roh M\*, **Lenke LG**, Edwards III CC\*, Rinella AS\*, Riew KD, Bridwell KH. Vertebral corpectomies reconstructed with titanium mesh cages. Is this a reliable technique for fusion and sagittal correction? Poster 424. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 10-14, 2004.
97. Newton PO, Faro FD, Marks MC, Blanke K, **Lenke LG**. Pulmonary function is anterior scoliosis surgery: open vs. thoracoscopic approaches. Pediatric Orthopaedic Society of North America Annual Meeting, St. Louis, MO, April 28-May 1, 2004.
98. Sanders J, Polly D, Bridwell K, **Lenke L**, Newton P, Kuklo T\*, Dormans J, Drummond D, Diab M, Richards B. Validity and reliability of the spinal appearance questionnaire in patients with idiopathic scoliosis. E-Poster 3. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
99. Newton P, Parent S, Marks M, Betz R, Clements D, D’Andrea L, **Lenke L,** Lowe T, Haher T, Merola A. Factors involved in the decision to include the thoracic spine with fusing primary thoracolumbar/lumbar (Lenke 5C and 6C) adolescent idiopathic scoliosis (AIS). E-Poster 12. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
100. Newton P, Faro F, Gollogly S, Betz R, Clements D, **Lenke L**, Lowe T, Crawford A, Haher T. Pulmonary function in adolescent idiopathic scoliosis. E-Poster 19. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
101. Lowe T, **Lenke L**, Betz R, Newton P, Clements D, Haher T, Merola A, Crawford A, Sucato D, Letko L, Wilson L. Distal junctional kyphosis (DJK) adolescent idiopathic thoracic curves following anterior or posterior instrumented fusion: Incidence, risk factors, and prevention. E-Poster 20. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
102. Lowe T, Betz R, **Lenke L**, Haher T, Merola A, Newton P, Clements D, Crawford A, Sucato D, Letko L, Wilson L. Thoracic adolescent idiopathic (AIS) curves 70-80 degrees: Are there advantages of one over the other? E-Poster 21. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
103. Kim YJ§, **Lenke L**, Bridwell K, Cheh G§. Prospective pulmonary function comparison of posterior spinal instrumentation with thoracoplasty in adolescent idiopathic scoliosis: thoracic pedicle screw versus hook instrumentation. E-Poster 23. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
104. Lowe T, Betz R, **Lenke L**, Haher T, Merola A, Newton P, Clements D, Sucato D, Letko L. Correction of left thoracic curves: A comparison of anterior versus posterior instrumentation. E-Poster 24. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
105. Kim YJ§, **Lenke LG**, Cheh G§, Riew KD. Defining the learning curve of free hand pedicle screw placement for adolescent idiopathic scoliosis surgery. Sixty-seven consecutive cases. E-Poster 25. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
106. Kim Y§, **Lenke L**, Bridwell K, Cheh G§, Sides B. Prospective pulmonary function comparison of anterior spinal fusion in adolescent idiopathic scoliosis: Thoracotomy vs. thoracoabdominal approach. E-Poster 26. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
107. Kim YJ§, Padberg AM, **Lenke LG**, Riew KD. Reliability of in-vivo triggered EMGs thresholds in detecting medial malposition of pedicle screws: Comparison between the thoracic and lumbar spine. E-Poster 91. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
108. Lee SS\*, **Lenke LG**, Peelle MW‡, Okubadejo GO‡, Cheng I\*, Hurford Jr. RK\*, Bridwell KH. Preserving the degenerative L5-S1 segment in degenerative lumbar fusion surgery in older patients: is it possible? E-Poster 180. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
109. Aubin CE, Labelle H, **Lenke L**, Lowe T, Sucato D, Emans J, Kuklo T\*. Variability of spinal instrumentation configuration in adolescent idiopathic scoliosis (AIS). E-Poster 214. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
110. Haher T, Newton P, Betz R, Clements D, **Lenke L**, Crawford A, Lowe T, Harms J, Letko L, Sucato D, D’Andrea L. Effects of rod diameter on patient outcome (SRS-24). Standard Poster 24. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
111. Kuklo TR\*, Potter BK, **Lenke LG**. Vertebral rotation in adolescent idiopathic scoliosis. What is the best radiographic correlation of postoperative derotation? Standard Poster 31, 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
112. Kuklo TR\*, Potter BK, Polly DW, **Lenke LG**. Corrective capacity of monaxial versus multiaxial thoracic pedicle screws in adolescent idiopathic scoliosis. Standard Poster 32. 11th International Meeting on Advanced Spine Techniques, Southampton, Bermuda, July 1-3, 2004.
113. Sucato DJ, Betz RR, Picetti III GD, **Lenke LG**, Hresko TM, Hu SS, Braun JT, Roye Jr. DP, Vitale MG. Defining the learning curve for performing a thoracoscopic anterior spinal fusion and instrumentation for AIS: a multi-center study. Poster 27. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
114. Acaroglu ER, Deviren V, Lee JK, Kuklo TR\*, **Lenke LG**, O’Brien MF\*, Polly Jr. DW, Puttlitz C. Thoracic spine construct stability is dependent upon the number and configuration of pedicle screws. Poster 41. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
115. Polly Jr. DW, Sanders J, Bridwell KH, **Lenke LG**, Newton PO, Kuklo TR\*, Dormans J, Drummond D, Diab M, Richards BS. Validity and reliability of the spinal appearance questionnaire in patients with idiopathic scoliosis. E-Poster 7. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
116. Kuklo TR\*, Potter BK, **Lenke LG**. Vertebral rotation in adolescent idiopathic scoliosis. What is the best radiographic correlation of postoperative derotation? E-Poster 8. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
117. Sucato DJ, Newton PO, Betz RR, **Lenke LG**, Crawford AH, Clements III DH, D’Andrea LP. The benefit of pleural closure following a thoracoscopic anterior spinal fusion and instrumentation for AIS. E-Poster 37. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
118. Aubin CE, Labelle HHL, **Lenke LG**, Lowe TG, Emans JB, Sucato DJ, Kuklo TR\*. Variability of spinal instrumentation configuration in adolescent idiopathic scoliosis (AIS). E-Poster 57. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, September 6-9, 2004.
119. Potter BK, Kuklo TR\*, **Lenke LG**. Radiographic outcomes of anterior spinal fusion versus posterior spinal fusion with thoracic pedicle screws for treatment of Lenke I adolescent idiopathic scoliosis curves. Eastern Orthopaedic Association 35th Annual Meeting, Rio Grande, PR, October 14, 2004.
120. Satake K§, **Lenke LG**, Kim YJ§, Bridwell KH, Blanke KM, Sides B, Steger-May K. Selection of the lowest instrumented vertebra in thoracic adolescent idiopathic scoliosis (Lenke type 1 and 2) following segmental posterior spinal fusion. Live poster presentation 1. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
121. Kim YJ§, **Lenke LG**, Bridwell KH. Comparative analysis of pedicle screw versus hybrid instrumentation in posterior spinal fusion of adolescent idiopathic scoliosis - A matched cohort analysis. Live poster presentation 2. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
122. Kim YJ§, **Lenke LG**, Bridwell KH, Kim J§, Cho KJ§. Thoracolumbar junctional analysis in patients fixed to T12 vs. L1 in adolescent idiopathic scoliosis: - is there any difference? Live poster presentation 4. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
123. Kim YJ§, **Lenke LG**, Cheh G§, Riew KD. Evaluation of pedicle screw placement in the deformed spine using intraoperative plain radiographs: a comparison with CT scans. Live poster presentation 5. North American Spine Society 19th Annual Meeting, Chicago, IL, October 26-30, 2004.
124. Potter BK, Kuklo TR\*, **Lenke LG**. Radiographic outcomes of anterior spinal fusion vs. posterior spinal fusion with thoracic pedicle screws for treatment of Lenke I adolescent idiopathic scoliosis curves. Society of Military Orthopaedic Surgeons 46th Annual Meeting, Vail, CO, December 6-11, 2004.
125. Kuklo TR\*, Potter BK, **Lenke LG**, Nesti LJ. Thoracic vertebral rotation in adolescent idiopathic scoliosis. What is the best plain radiographic correlate of posterior derotation? Society of Military Orthopaedic Surgeons 46th Annual Meeting, Vail, CO, December 6-11, 2004.
126. Deviren V, Acaroglu E, Lee J, Hu S, **Lenke L**, Polly D, Kuklo T, O’Brien M\*, Brumfield D, Puttlitz C. The number of pedicle screws and degree on intrinsic stability determine construct stiffness in the thoracic spine. Poster 1287. Orthopaedic Research Society 51st Annual Meeting, Washington, D.C., February 20-23, 2005.
127. Dobbs MB, **Lenke LG**, Peelle M‡, Bridwell KH. Selective thoracic fusion for AIS: Comparison of hooks versus pedicle screws. Poster 293. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
128. Dobbs MB, **Lenke LG**, Peelle M‡, Bridwell KH. Comparison of combined ASF/PSF versus PSF alone for the treatment of AIS curves >90°. Poster 298. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
129. Kuklo TR\*, Potter B, Polly Jr. DW, **Lenke LG**. Corrective capacity of monaxial versus multiaxial thoracic pedicle screws in AIS. Poster 300. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
130. Kuklo TR\*, Potter B, **Lenke LG**. Comparison of ASF versus PSF with thoracic pedicle screws for treatment of Lenke 1 AIS curves. Poster 301. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
131. Kim YJ§, **Lenke LG**, Cheh G§, Riew KD. Evaluation of pedicle screw placement in the deformed spine using intraoperative plain radiographs. Poster 322. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
132. Crawford AH, Lowe T, Betz R, **Lenke L**, Haher T, Merola A, Clayton P, Clements D, Sucato D. Correction of left thoracic curves: A comparison of anterior versus posterior instrumentation. E-Poster 25. Pediatric Orthopaedic Society of North America Annual Meeting, Ottawa, Ontario, Canada, May 12-15, 2005.
133. Sucato DJ, O’Brien M\*, Lowe T, Richards BS, **Lenke L**. Restoration of thoracic kyphosis following operative treatment for adolescent idiopathic scoliosis: Comparison of three surgical approaches. E-Poster 43. Pediatric Orthopaedic Society of North America Annual Meeting, Ottawa, Ontario, Canada, May 12-15, 2005.
134. Chien JT, Lowe T, Betz R, **Lenke L**, Newton P, Clements D, Crawford A, Letko L. The surgical treatment of double thoracic curves in adolescent idiopathic scoliosis – Factors involved in the decision to perform a selective fusion of the main thoracic curve versus a posterior fusion. Standard and E-Poster 1. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
135. Kishan S, Newton P, Betz R, **Lenke L**, Lowe T, Clements D, D’Andrea L, Sucato D. Thoracoscopic anterior instrumentation affects pulmonary function less than open thoracotomy at two years post-op. Standard and E-Poster 2, 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
136. Dobbs MB, **Lenke LG**, Bridwell KH. Comparison of combine anterior/posterior spinal fusion versus posterior fusion alone for the treatment of adolescent idiopathic curves greater than 90 degrees. Standard and E-Poster 4. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
137. Dobbs MB, **Lenke LG**, Bridwell KH. Selective posterior thoracic fusions for adolescent idiopathic scoliosis. Comparison of hooks versus pedicle screws. Standard and E-Poster 5. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
138. Lee SS\*, **Lenke LG**, Kuklo TR\*, Valenté L§, Bridwell KH, Sides B, Blanke K. Comparison of Scheuermann’s kyphosis correction by posterior only thoracic pedicle screw fixation vs. combined anterior/posterior fusion. Standard and E-Poster 18. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
139. Vora V, Crawford A, Babekhir N, Boachie-Adjei O, Perkins M, Charles G, **Lenke L**, Kim YJ§. A pedicle screw construct gives an enhanced posterior correction of adolescent idiopathic scoliosis when compared to other constructs - Myth or reality. E-Poster 27. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
140. Crawford A, Babekhir N, Lowe TG, Betz R, **Lenke L**, Haher T, Merola A, Newton P, Clements D, Sucato DJ, Letko L. Correction of left thoracic curves: A comparison of anterior versus posterior instrumentation. E-Poster 30. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
141. Crawford A, Babekhir N, Lowe TG, Betz R, **Lenke L**, Haher T, Merola A, Newton P, Clements D, Sucato DJ, Letko L, Wilson LA. PET scanning: A unique tool for vascular injuring in VATS-assisted anterior instrumentation. E-Poster 31. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
142. Newton P, Marks M, Betz R, **Lenke L**, Lowe T, Clements D, Haher T, Merola A, D’Andrea L, Crawford A, Harms J. Ten year trends in the surgical treatment of primary right thoracic adolescent idiopathic scoliosis. E-Poster 34. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
143. Sucato DJ, Newton PO, Betz RR, **Lenke LG**, Crawford A, Clements D, Lowe T, D’Andrea L, Letko L, Marks M. Anterior release prior to a posterior spinal fusion and instrumentation. Is the thoracoscopic approach as effective as an open thoracotomy? E-Poster 46. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
144. Merola AA, Newton PO, O’Brien MF\*, Haher TR, Lowe TG, **Lenke L**, Crawford A, Betz R, Clements D, Sucato D, Sponseller P, Lonner B, Caruso SA, Kubeck J, Shanti N, Brkaric M, Marks M. Lumbar sagittal plane alignment with respect to instrumentation type and surgical technique. E-Poster 47. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
145. Angevine PD\*, **Lenke LG**, Bridwell KH, Sides B. Is circumferential surgery for de novo adult scoliosis justified based on its outcomes and complications? E-Poster 73. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
146. Angevine PD\*, **Lenke LG**, Stobbs G, Bridwell KH. Cost-offset analysis of bone morphogenetic protein-2 (rhBMP-2) in primary surgery for adult idiopathic scoliosis. E-Poster 74. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
147. Lee SS\*, **Lenke LG**, Peelle M‡, Okubadejo O‡, Cheng I\*, Hurford R\*, Bridwell KH, Sides B, Stobbs G. Preserving the degenerated L5-S1 segment in degenerative lumbar fusion surgery in an older patient population: Is it possible? E-Poster 79. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
148. Dobbs MB, **Lenke LG**, Bridwell KH. Prevalence of infantile and juvenile idiopathic curves using a modified Lenke classification scheme. E-Poster 119. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
149. Sucato DJ, Newton PO, Betz RR, Picetti G, **Lenke LG**, Hresko T, Hu SS, Braun JT, Roye Jr. DP, Vitale MG. Defining the learning curve for performing a thoracoscopic anterior spinal fusion and instrumentation for AIS: a multi-center study. E-Poster 157, 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
150. Lonner B, Scharf C, Newton P, O’Brien M\*, Sponseller P, Betz R, **Lenke L**, Crawford A, Letko L, Lowe T. Operative management of Scheuermann’s kyphosis in 78 patient radiographic outcomes, complications, and techniques. E-Poster 175. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.
151. Bess RS\*, **Lenke LG**, Bridwell KH, Cheh G§, Sides B. Comparison of thoracic pedicle screw to hook instrumentation for the treatment of adult spinal deformity. EuroSpine 14th Annual Meeting, Barcelona, Spain, September 21-24, 2005.
152. Sucato DJ, Newton PO, Betz RR, Picetti III GD, **Lenke LG**, Hresko MT, Hu SS, Braun JT, Roye Jr. DP, Vitale MG. Defining the learning curve for performing a thoracoscopic anterior spinal fusion and instrumentation for AIS: A multi-center study. Poster 19. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
153. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§. Pseudarthrosis in long adult spinal deformity instrumentation and fusions to the sacrum: Incidence and risk factor analysis of 149 cases. Poster 101. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
154. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Rhim SC§. An analysis of sagittal spinal alignment after adult lumbar/lumbosacral instrumentation and fusions: Can we predict optimal sagittal balance? Poster 102. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
155. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§, Rhim SC§. Sagittal thoracic decompensation following adult lumbar spinal instrumentation and fusions to L5 or S1: Causes, incidence, and risk factors analysis. Poster 105. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
156. Kim YJ§, **Lenke LG**, Bridwell KH, Cho SK, Cheh G§, Yoon J§, Ramo B¥. Sagittal plane analysis following posterior segmental spinal instrumentation of adolescent idiopathic scoliosis. A comparison of three different posterior segmental instrumentation and fusion. Poster 108 North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
157. Yang JY§, **Lenke LG**, Riew KD, Lee JK§. The differences of various cytokine expression after spinal cord injury between young and adult rats. Poster 109. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
158. Newton PO, Marks MC, Betz RR, **Lenke LG**, Lowe TG, Clements III DH, Haher TR, Merola AA, D’Andrea LP, Crawford AH, Harms J. Ten year trends in the surgical treatment of primary right thoracic adolescent idiopathic scoliosis. Poster 8. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
159. Dobbs MB, **Lenke LG**, Bridwell KH. Prevalence of infantile and juvenile idiopathic curves using a modified Lenke classification scheme. Poster 10. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
160. Cheh G§, **Lenke LG**, Bridwell KH, Kim YJ§. Decompression alone vs. decompression and limited fusion for the treatment of degenerative lumbar scoliosis. Poster 14. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005. **Louis A. Goldstein Award for Best Clinical Poster Presentation**
161. Yang JY§, **Lenke LG**, Bridwell KH, Riew KD, Stobbs G. The impact of the lumbar spine modifier and thoracic sagittal profile on the main thoracic component of a Lenke type I scoliosis. Poster 26. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
162. Yang JY§, Riew KD, **Lenke LG**, Lee JK§. The differences of various cytokine expression after spinal cord injury between young and adult rats. Poster 34. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
163. Luhmann SJ\*, **Lenke LG**, Kim YJ§, Bridwell KH, Schootman M. Cost analysis of circumferential fusion versus posterior fusion-only with thoracic pedicle screw constructs of 70-100 degree idiopathic thoracic curves. E-Poster 4. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
164. Ramo B¥, **Lenke LG**, Kim YJ§, Sides B, Bridwell KH. Comparative analysis of SRS Questionnaire results for pedicle screw vs. hook instrumentation in the surgical treatment of adolescent idiopathic scoliosis curves >60°. E-Poster 5. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
165. Merola AA, Newton PO, O’Brien MF\*, Haher TR, Lowe TG, **Lenke LG**, Clements III DH, Betz RR, Crawford AH, Kubeck J, Shanti N. Lumbar sagittal plane alignment with respect to instrumentation type and surgical technique. E-Poster 6. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
166. Crawford AH, Babekhir N, Lowe TG, Betz RR, **Lenke LG**, Haher TR, Merola AA, Newton PO, Clements III DH, Sucato DJ, Letko LJ. Correction of left thoracic curves. A comparison of anterior versus posterior instrumentation. E-Poster 9. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
167. Polly Jr. DW, **Lenke LG**, Kuklo TR\*. Vertebral number variation and potential impact for wrong level surgery. E-Poster 18. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
168. Bess RS\*, **Lenke LG**, Bridwell KH, Cheh G§, Sides B. Comparison of thoracic pedicle screw to hook instrumentation for the treatment of adult spinal deformity. E-Poster 27. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
169. Crawford AH, Babekhir N, Lowe TG, Betz RR, **Lenke LG**, Haher TR, Merola AA, Newton PO, Clements III DH, Sucato DJ, Letko LJ. Comparison between left and right thoracic curves in idiopathic scoliosis. E-Poster 31. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
170. Breakwell LM§, Silva FE^, **Lenke LG**. Are left thoracic curves more kyphotic and stiffer than right-sided curves? E-Poster 40. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
171. Kuklo TR\*, **Lenke LG**, Potter BK, Polly Jr. DW, Sides B, Bridwell KH. Surgical revision rate of hooks versus hybrid pedicle screw constructs for AIS. E-Poster 49. Scoliosis Research Society 40th Annual Meeting, Miami, FL, October 28-30, 2005.
172. Cheh G§, **Lenke LG**, Bridwell KH, Kim YJ§. Decompression only vs. decompression and limited fusion for the treatment of degenerative lumbar scoliosis. Poster 211. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
173. Kim YJ§, **Lenke LG**, Bridwell KH, Cheh G§. Bilateral apical vertebral derotational pedicle screw instrumentation in the posterior spinal fusion of adolescent idiopathic scoliosis: A comparison with translational instrumentation technique. Poster 311. North American Spine Society 20th Annual Meeting, Philadelphia, PA, September 27-October 1, 2005.
174. Crawford AH, Babekhir N, Lowe TG, **Lenke LG**, Haher TR, Merola AA, Newton PO, Clements III DH. Correction of left thoracic curves: A comparison of anterior versus posterior instrumentation. Poster 369. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
175. Cheh G§, **Lenke LG**, Bridwell KH, Kim Y§, Stobbs G. Decompression alone vs. limited fusion for treatment of degenerative lumbar scoliosis. Poster 371. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
176. Kim Y§, Bridwell KH, **Lenke LG**, Cheh G§. Pseudarthrosis in long adult spinal deformity instrumentation and fusions to the sacrum. Poster 374. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
177. Dobbs MB, **Lenke LG**, Bridwell KH. Selective posterior thoracic spinal fusion-comparison of hooks versus screws. Poster 376, American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
178. Bess RS\*, Bridwell KH, Lee SS\*, **Lenke LG**. Reconstitution of posterior iliac bone graft site: Prospective evaluation of 2 backfilling techniques. Poster 380. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
179. Angevine PD\*, **Lenke LG**, Stobbs G, Bridwell KH. Cost-offset analysis of bone morphogenetic protein-2 in primary adult idiopathic scoliosis surgery. Poster 381. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
180. Angevine PD\*, **Lenke LG**, Bridwell KH. Adult degenerative de novo circumferential scoliosis surgery outcomes and complications of. Poster 392. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.
181. Buchowski JM\*, **Lenke LG**, Bridwell KH, Seshadri V¥. Infections following spinal deformity surgery: a twenty-year assessment of 2876 patients. American Orthopaedic Association 120th Annual Meeting, Asheville, NC, June 13-16, 2006.
182. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim S§, Kim YW§. Is the T9, T11, or L1 proximal level the more stable following lumbar/lumbosacral fusions from the thoracolumbar junction to L5-S1? E-Poster 12. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
183. Daubs MD^, **Lenke LG**, Cheh G§, Stobbs G, Bridwell KH. Adult spinal deformity surgery. Complications and outcomes in patients over age 60. Standard & E-Poster 14. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
184. Buchowski JM\*, Bridwell KH, **Lenke LG**, Lehman Jr. RA\*, Kuhns CA\*, Kim YJ§. Neurologic complications of pedicle subtraction osteotomy: a ten-year assessment. Standard & E-Poster 17. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
185. Kuhns CA\*, Bridwell KH, **Lenke LG**, Amor CJ¥, Lehman RA\*, Buchowski JM\*, Edward CC\*. Thoracolumbar deformity arthrodesis stopping at L5. Fate of the L5-S1 disc with a minimum 5-year follow-up. Standard & E-Poster 20. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
186. Buchowski JM\*, **Lenke LG**, Lehman Jr. RA\*, Kuhns CA\*, Bridwell KH. Infections following spinal deformity surgery: a twenty-year assessment of 2876 patients. Standard & E-Poster 21. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
187. Kim YB§, **Lenke LG**, Kim YJ§, Kim YW§, Bridwell KH, Stobbs G. Surgical treatment of adult lumbar scoliosis - Is anterior apical release and fusion necessary? Standard & E-Poster 24, 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
188. Lehman Jr. RA\*, **Lenke LG**, Keeler K‡, Kim YJ§, Bridwell KH, Buchowski JM\*, Kuhns CA\*. Treatment of adolescent idiopathic scoliosis with pedicle screw-only constructs: minimum 3-year follow-up of 103 consecutive cases. Standard & E-Poster 28. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
189. Cheh G§, Lehman Jr. RA\*, **Lenke LG**, Kim YJ§, Keeler K‡, Bridwell KH. The reliability of preoperative supine radiographs to predict the amount of curve flexibility in adolescent idiopathic scoliosis. Standard & E-Poster 31. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
190. Lehman Jr. RA\*, Kim YJ§, **Lenke LG**, Cheh G§, Keeler K‡. Computed tomography (CT) evaluation of pedicle screws placed into deformed spines over an 8 year period. Standard & E-Poster 32. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
191. Kim YW§, **Lenke LG**, Kim YJ§, Bridwell KH, Kim YB§. Free hand pedicle screw placement during revision spinal surgery: analysis of 552 screws. Standard & E-Poster 37. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
192. Cheh G§, **Lenke LG**, Kim YJ§, Daubs MD^, Padberg AM, Stobbs G, Hensley M. Loss of spinal cord monitoring signals in children during thoracic kyphosis correction with spinal osteotomy: Why does it occur and what should you do? Standard & E-Poster 46. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
193. Kim YJ§, Bridwell KH, **Lenke LG**, Cheh G§, Baldus C. Results of lumbar pedicle subtraction osteotomies for fixed sagittal imbalance. a minimum 5 years follow-up study. E-Poster 15. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
194. Kim YJ§, Bridwell KH, **Lenke LG**, Rhim S§, Cheh G§. Proximal junctional kyphosis following adult spinal deformity long posterior segmental instrumentation and fusion: minimum 5 years follow-up. E-Poster 18. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
195. Cheh G§, Bridwell KH, **Lenke LG**, Kim YJ§, Daubs MD^, Baldus C. Risk factors for adjacent segment degeneration following lumbar/thoracolumbar fusion with pedicle screw instrumentation: a minimum 5 year follow-up. E-Poster 38. 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006.
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236. Lehman RA\*, **Lenke LG**, Keeler KA‡, Kim YJ§, Kuhns CA\*, Buchowski JM, Bridwell KH. Operative treatment of adolescent idiopathic scoliosis with posterior pedicle screw-only constructs. Society of Military Orthopaedic Surgeons 48th Annual Meeting, Honolulu, HI, December 11-16, 2006.
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264. Mulconrey DS\*, Kuklo TR\*, **Lenke LG**, Bridwell KH, Cronen GA\*, Rose PS\*. Correction of thoracic rotation and chest wall malalignment: A comparison of hybrid versus pedicle screw constructs. E-Poster 472. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
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266. Cardoso M, Lehman Jr. RA\*, Rosner MK, Gill NW, **Lenke LG**. Structures at risk from pedicle screws in the proximal thoracic spine. A computed tomography (CT) with magnetic resonance image (MRI) correlation. E-Poster 501. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
267. Harimaya K§, **Lenke LG**, Bridwell KH, Koester L, Sides B. Increasing lumbar lordosis of adult spinal deformity patients via intraoperative prone positioning. E-Poster 512. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
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270. Harimaya K§, **Lenke LG**, Bridwell KH, Koester L, Sides B. Etiology and revision surgical strategies in failed lumbosacral fixation of adult spinal deformity constructs: a continuing problem. E-Poster 634. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
271. Mulconrey DS\*, **Lenke LG**, Bridwell KH, Cronen GA\*, Rose PS\*, Sides B. Bone morphogenetic protein (rhBMP-2) in complex pediatric spinal deformity. E-Poster 664. 14th International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas, July 11-14, 2007.
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275. Upasani VV, Caltoum C, Petcharaporn M, Bastrom T, Pawelek J, Marks MC, Betz RR, **Lenke LG**, Newton PO. Does body mass affect surgical outcomes in adolescent idiopathic scoliosis? E-Poster 39. Scoliosis Research Society 42nd Annual Meeting, Edinburgh, Scotland, September 4-8, 2007.
276. Cardoso MJ, Rosner MK, Lehman RA\*, **Lenke L**, Moser R, Gill NW, Dmitriev A. Structures at risk from pedicle screws in the proximal thoracic spine. Computed tomographic (CT) evaluation with magnetic resonance imaging (MRI) correlation. Poster 387. Congress of Neurological Surgeons 57th Annual Meeting, San Diego, CA, September 15-20, 2007.
277. Bess RS\*, Bridwell K, Lee S\*, Cronen G\*, **Lenke L**, Steger-May K. Reconstitution of posterior iliac crest bone graft site: Prospective evaluation of 3 backfilling techniques. Poster 74. North American Spine Society 22nd Annual Meeting, Austin, TX, October 23-27, 2007.
278. Daubs M^, **Lenke L**, Kim YJ§, Cheh G§, Stobbs G, Bridwell K. Does correction of preoperative coronal imbalance make a difference in outcomes of adult deformity patients? Poster 169. North American Spine Society 22nd Annual Meeting, Austin, TX, October 23-27, 2007.
279. Upasani VV, Caltoum CB, Bastrom T, Pawelek J, Betz RR, Clements III DH, **Lenke LG**, Lowe T, Newton PO. AIS patients report increased pain at 5 years compared to 2 years after surgical treatment. Poster 242. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
280. Okubadejo G‡, **Lenke LG**, Bridwell KH, Keeler KA‡\*, Davis B. Effects of rhbmp-2 on thoracic and lumbar arthrodesis: Comparison of smokers and nonsmokers. Poster 351. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5-8, 2008.
281. Mulconrey DS\*, **Lenke LG**, Bridwell KH, Cronen GA\*, Rose PS\*, Sides BA. Bone morphogenetic protein (RhBMP-2) in complex pediatric spinal deformity. E-Poster 23. Pediatric Orthopaedic Society of North America Annual Meeting, Albuquerque, NM, May 1-3, 2008.
282. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Kim YB§, Buchowski JM\*. What radiographic sagittal parameters correlate with improved SRS self-image scores post-operatively in patients with sagittal imbalance: an analysis of 102 lumbar pedicle subtraction osteotomy patients. E-Poster 206. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
283. O’Leary PT\*, Bridwell KH, Good CR\*, **Lenke LG**, Buchowski JM\*, Kim YJ§, Flynn J. Risk factors and outcomes for catastrophic failures at the top to long pedicle screw constructs (FPSC): a matched cohort analysis performed at a single center. E-Poster 207. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
284. Good CR\*, **Lenke LG**, O’Leary PT\*, Pichelmann M\*, Keeler KA‡\*, Bridwell KH, Baldus C, Koester L. Can posterior-only surgery replace combined anterior (thoracotomy/thoracoabdominal)/posterior approaches for adult scoliosis? E-Poster 214. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
285. Keeler KA‡\*, Bridwell KH, **Lenke LG**, Flynn J. Subjacent disc wedging after anterior spinal fusion for adolescent idiopathic scoliosis: the fate of the “jacked” lumbar disc. E-Poster 218. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
286. Harimaya K§, **Lenke LG**, Bridwell KH, Koester L, Sides B. Etiology and revision surgical strategies in failed lumbosacral fixation of adult spinal deformity constructs. E-Poster 252. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
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288. Kim YJ§, Boachie-Adjei O, Bridwell KH, **Lenke LG**, Kim YB§, Lawhorne TW. Comparative analysis of 2 hybrid instrumentation techniques for adult lumbar scoliosis from the thoracolumbar spine to L5 or S1. E-Poster 264. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
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290. Schlechter J, Newton PO, Upasani VV, Yaszay B, **Lenke LG**, Betz RR, Lowe T, Harms Study Group. Risk factors for distal adding-on identified: what to watch out for. E-Poster 274. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
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293. Upasani VV, Newton PO, Pawelek JB, Bastrom TP, **Lenke LG**, Lowe T, Crawford A, Betz RR, Lonner B, Harms Study Group. Preservation of thoracic kyphosis: a critical component to maintaining postoperative lumbar lordosis during the surgical treatment of adolescent idiopathic scoliosis. E-Poster 281. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
294. Sanders JO, Diab M, Richards BS, **Lenke LG**, Johnston CE, Emans JB, Sucato DJ, Erickson MA, Bridwell KH, McCarthy RE, Sarwark JF, Dormans JP, Kuklo TR\*, Shainline M, Spinal Deformity Study Group. Fixation points within the main thoracic curve: Does more instrumentation produce greater curve correction? E-Poster 284. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
295. Diab M, Kuklo TR\*, Sanders JO, **Lenke LG**, Sucato DJ. Impact of idiopathic scoliosis and its surgical treatment on appearance in children. E-Poster 285, 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
296. Daubs MD^, **Lenke LG**, Kim YJ§, Cheh G§, Bridwell KH. Does correction of preoperative coronal imbalance make a difference in outcomes of adult deformity patients? E-Poster 290. 15th International Meeting on Advanced Spine Techniques, Hong Kong, July 8-11, 2008.
297. **Lenke LG**, O’Leary PT\*, Sides BA, Koester L, Hensley M, Bridwell KH. Posterior vertebral column resection (VCR) for severe pediatric deformity: minimum 2-year follow-up on 29 consecutive patients. E-Poster 291. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
298. Harimaya K§, Mishiro T§, **Lenke** LG, Bridwell KH, Koester L, Sides BA. Increasing lumbar lordosis of adult spinal deformity patients via intraoperative prone positioning. E-Poster 295. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
299. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Hosogane N, Kim YB§. Significance of intraoperative thoracic kyphosis increase to prevent the proximal junctional kyphosis in adolescent idiopathic scoliosis following posterior segmental spinal instrumentation and fusion: a multicenter analysis of 518 cases. E-Poster 297. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
300. Hayashi K, Newton PO, Pawelek JB, Upasani VV, Aubin CE, Labelle H, **Lenke LG**, Jackson RP, Stokes IA, SRS 3D Classification Committee. The standard lateral radiograph does not represent reality at the thoracic apex in adolescent idiopathic scoliosis: A 3-dimensional analysis confirms lordosis. E-Poster 302. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
301. Schlechter J, Newton PO, Upasani VV, Pawelek JB, Betz RR, **Lenke LG**, Lonner B, Crawford A, Harms Study Group. Should postoperative pulmonary function be a criterion that affects upper instrumented vertebral body selection in AIS surgery? E-Poster 315. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
302. Diab M, Kawakami N, **Lenke LG**, Kuklo TR\*, Spinal Deformity Study Group. Ethnic variations in function and outcome after surgical treatment of adolescent idiopathic scoliosis. E-Poster 320. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
303. Kuklo TR\*, Diab M, Richards BS, Sucato DJ, **Lenke LG**, Spinal Deformity Study Group. Are there SRS preoperative questionnaire differences between kyphosis and scoliosis patients? E-Poster 328. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
304. **Lenke LG**, Lehman RA\*, Dmitriev AE. Use of dynamic stabilization system on distal adjacent kinematics for anterior spinal fusion. E-Poster 334. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
305. Thuet ED, Winscher JC, Padberg AM, Bridwell KH, **Lenke LG**, Kuklo TR\*, Dobbs MB, Schootman M, Luhmann SJ\*. A 22-year perspective of electrophysiologic monitoring for pediatric spinal deformity surgery: is there value to monitoring ALL pediatric spine cases? E-Poster 354. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
306. Harimaya K§, Mishiro T§, O’Leary PT\*, **Lenke LG**, Bridwell KH, Koester L, Sides BA. Transforaminal lumbar interbody fusion (TLIF) in the treatment of pediatric and adult spinal deformity. E-Poster 389, 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
307. Richards BS, Sucato DJ, Johnston CE, **Lenke LG**, Kuklo TR\*, Diab M, Spinal Deformity Study Group. Thoracoplasty in idiopathic scoliosis: should we keep doing it? E-Poster 394. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
308. Diab M, Oswald TS, **Lenke LG**, Kuklo TR\*, Erickson MA. Pain before and after surgical treatment of adolescent idiopathic scoliosis. E-Poster 396. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
309. Watanabe K§, **Lenke LG**, Matsumoto M, Toyama Y, Chiba K. Morphological evaluation of a new pedicle channel classification using CT scans. E-Poster 399, 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
310. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Kim YB§, Hosogane N. Comparative analysis of sagittal plane measures following posterior segmental spinal instrumented fusion of adolescent idiopathic scoliosis: hooks only vs. sublaminar wiring vs. thoracic pedicle screw instrumentation. E-Poster 405. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
311. Kim YJ§, Bridwell KH, **Lenke LG**, Kim YB§, Ahn YJ. Comparative radiographic analysis of the sagittal spinopelvic alignment between 100 asymptomatic adults and 100 sagittal imbalanced patients: what are the critical radiographic parameters? E-Poster 419. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
312. Kuklo TR\*, Diab M, Sucato DJ, Richards BS, Emans JB, **Lenke LG**, Spinal Deformity Study Group. Factors associated with pedicle screw removal secondary to EMG pedicle stimulation criteria in AIS surgery. E-Poster 451. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
313. Jones CF, Itshayek E, Zhu Q, Schwab TD, Larson CR, **Lenke LG**, Cripton PA. Evaluation of tissue loading in response to 1- and 2-level Maverick total disc replacement adjacent to a long spinal fusion. E-Poster 506. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
314. Lehman RA\*, **Lenke LG**, Richards BS, Kuklo TR\*, Bridwell KH, Spinal Deformity Study Group. Comparative analysis between Lenke type 1A-, B-, and C- curve patterns: Pedicle screw vs. hybrid constructs. Which maintains correction better? E-Poster 513. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
315. Sucato DJ, Richards BS, Johnston CE, **Lenke LG**, Kuklo TR\*, Sanders JO, Spinal Deformity Study Group. Patient/parent perceptions of shoulder imbalance following surgery correction for AIS. E-Poster 516. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
316. Richards BS, Sucato DJ, Johnston CE, **Lenke LG**, Kuklo TR\*, Polly DW, Sanders JO, Spinal Deformity Study Group. Spinal balance in idiopathic scoliosis: do radiographs really reflect the clinical picture? E-Poster 525. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
317. Freedman BA, Kuklo TR\*, **Lenke LG**, Richards BS, Sucato DJ, Polly DW. Variation in vertebral numbering: not everyone with AIS has 12 thoracic and 5 lumbar. E-Poster 528. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
318. Cronen GA\*, **Lenke LG**, Zebala LP‡, Mulconrey DS\*, Rose PS\*, Bridwell KH. The influence of gender on adult spinal deformity surgery: A comparison of radiographic outcomes and complication rates. E-Poster 530. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
319. **enke LG**, Sucato DJ, Richards BS, Bridwell KH, Kuklo TR\*, Emans JB, O’Brien MF\*, Sides BA, Spinal Deformity Study Group. The diminishing role of anterior alone surgery in main thoracic Lenke 1A and 1B adolescent idiopathic scoliosis: a multicenter analysis over the past 15 years. E-Poster 565. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
320. **Lenke LG**, Kuklo TR\*, Sucato DJ, Richards BS, Emans JB, Bridwell KH, Spinal Deformity Study Group. What radiographic and clinical factors appear crucial for the decision to perform a selective thoracic fusion in Lenke 1C/King II adolescent idiopathic scoliosis curves? E-Poster 566. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
321. Roth MD, Padberg AM, Bridwell KH, **Lenke LG**, Kuklo TR\*. The effect of bone mineral density on pedicle screw triggered EMG threshold: a comparative study. E-Poster 572. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
322. **Lenke LG**, Kuklo TR\*, Sucato DJ, Richards BS, Emans JB, Bridwell KH, Johnston CE, Sides BA. Comparison of the lower end vertebra (LEV) to the lowest instrumented vertebra (LIV) in adolescent idiopathic scoliosis: a role for the addition of an LEV modifier to the Lenke classification system. E-Poster 573. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
323. Ohno S, Glassman SD, Bridwell KH, Horton W, **Lenke LG**, Berven S, Hu SS, Carreon LY. Outcomes after surgical correction of spinal deformity in adults with concomitant hip osteoarthritis. E-Poster 580. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
324. Keeler KA‡\*, Lehman RA\*, **Lenke LG**, Bridwell KH, Sides BA. Minimum 5-year follow-up of posterior pedicle screw-only constructs in the operative treatment of adolescent idiopathic scoliosis. E-Poster 593. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
325. Lehman RA\*, **Lenke LG**, Keeler KA‡\*, Helgeson MD. Accuracy of intraoperative scoliosis radiograph to determine ultimate correction and balance after deformity correction: should it be mandatory? E-Poster 595. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
326. **Lenke LG**, Kuklo TR\*, Sucato DJ, Erickson MA, Emans JB, Richards BS, Johnston CE, Bridwell KH, Spinal Deformity Study Group. Pedicle screw constructs optimize thoracic and lumbar clinical appearance by scoliometer assessment versus hook and hybrid constructs following adolescent idiopathic scoliosis surgery. E-Poster 601. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
327. Diab M, Geula D, Sides BA **Lenke LG**. Factors that influence retention in a prospective pediatric scoliosis surgery study. E-Poster 608. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
328. Zhu Q, Itshayek E, Jones CF, Schwab FD, Larson CR, **Lenke LG**, Cripton PA. Kinematic evaluation of 1- and 2-level Maverick total disc replacement adjacent to a long spinal fusion. E-Poster 643. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
329. Lehman RA\*, **Lenke LG**, Kuklo TR\*, Richards BS, Bridwell KH, Spinal Deformity Study Group. Change in time of radiographic and balance parameters for the operative treatment of adolescent idiopathic scoliosis: posterior pedicle screw-only vs. hybrid constructs. E-Poster 682. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
330. **Lenke LG**, Kuklo TR\*, Richards BS, Sucato DJ, Bridwell KH, Spinal Deformity Study Group. Does preoperative brace-wear influence radiographic and clinical outcomes of adolescent idiopathic scoliosis surgery? E-Poster 715. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
331. Yang JY§, Lee JK, **Lenke LG**, Song HS, Hong EP. The impact of the lumbar spine modifier and thoracic sagittal profile on the main thoracic curve of Lenke type 1 scoliosis. E-Poster 720. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
332. Mishiro T§, **Lenke LG**, Koester L, Dobbs MB, Luhmann SJ\*, Bridwell KH. Modified Lenke classification system for infantile and juvenile idiopathic scoliosis. E-Poster 740. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
333. Mulconrey DS\*, Zebala LP‡, **Lenke LG**, Bridwell KH. Posterior correction of adolescent idiopathic scoliosis: Which preoperative flexibility radiograph best predicts the 2-year result? E-Poster 762. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
334. Garg S‡, Brant JA¥, **Lenke LG**, Bridwell KH, Sides BA, Keeler KA‡\*. Hemivertebra excision: comparison of circumferential vs. posterior-only approaches. E-Poster 803. 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July 8-11, 2008.
335. Hayashi K, Newton PO, Pawelek JB, Upasani VV, Aubin CE, Labelle H, **Lenke LG**, Jackson RP, Stokes IA, SRS 3-D Classification Committee. The standard lateral radiograph does not represent reality at the thoracic apex in adolescent idiopathic scoliosis: A 3-dimensional analysis confirms lordosis. Poster 9. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
336. Geck M, Rinella AS\*, Hawthorne D, Macagno A, Sides BA, Koester L, **Lenke LG**, O’Brien MF\*, Bridwell KH, Shufflebarger HL. Anterior dual rod versus posterior pedicle fixation surgery for the surgical treatment in Lenke 5C adolescent idiopathic scoliosis: A multicenter matched case analysis. Poster 13. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
337. Richards III BS, Sucato DJ, Johnston CE, **Lenke LG**, Kuklo TR\*, Diab M, Spinal Deformity Study Group. Thoracoplasty in idiopathic scoliosis – should we keep doing it? Poster 22. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
338. Sucato DJ, Kuklo TR\*, Diab M, Richards III BS, Johnston CE, **Lenke LG**, Spinal Deformity Study Group. Risk factors for critical intraoperative neuromonitoring changes during AIS surgery. E-Poster 5. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008. **Louis A. Goldstein Award for Best Clinical Poster**
339. Garg S‡, Brant JA¥, **Lenke LG**, Bridwell KH, Sides BA, Keeler KA‡\*. Hemivertebra excision: Comparison of circumferential vs. posterior-only approaches. E-Poster 9. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
340. Aubin CE, Labelle H, **Lenke LG**, Jackson RP, Newton PO, Stokes IA. Proposal for reference axis as a basis for 3D classification of idiopathic scoliosis. E-Poster 10. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
341. Harimaya K§, Son-Hing JP^, **Lenke LG**, Bridwell KH, Schwend RM^, Koester L, Sides BA. Safety and accuracy of pedicle screws placed in pediatric patients less than 10 years of age. E-Poster 15. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
342. Kuklo TR\*, Diab M, Richards III BS, Sucato DJ, **Lenke LG**, Spinal Deformity Study Group. Are there SRS preoperative questionnaire differences between kyphosis and scoliosis patients? E-Poster 24. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
343. Harimaya K§, Mishiro T§, O’Leary PT\*, **Lenke LG**, Bridwell KH, Koester L, Sides BA. Transforaminal lumbar interbody fusion (TLIF) in the treatment of pediatric and adult spinal deformity. E-Poster 50. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
344. Keeler KA\*, Lehman Jr. RA\*, **Lenke LG**, Bridwell KH, Sides BA. Direct vertebral rotation (DVR) in the treatment of thoracolumbar/lumbar adolescent idiopathic scoliosis (AIS): Can it optimize correction when fusing to L3? Poster 26. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
345. Bedigrew KM¥, Kuklo TR\*, Luhmann SJ\*, Meyer LA, **Lenke LG**, Bridwell KH. Is Aprotinin safe for pediatric spinal deformity surgery? Poster 27. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
346. Ferguson J§, Lehman Jr. RA\*, **Lenke LG**, Cheh G§, Watanabe K§, Kim YB§, Kim YW§, Daubs MD^. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws confirmed by anatomic dissection of 102 thoracic pedicles. Poster 33. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
347. Schlechter J, Newton PO, Upasani VV, Pawelek JB, Betz RR, **Lenke LG**, Lonner BS, Crawford AH, Harms Study Group. Should post-operative function be a criterion that affects upper instrumented vertebral body selection in AIS surgery? Poster 41. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
348. O’Leary PT\*, **Lenke LG**, Good CR\*, Pichelmann M\*, Keeler KA‡\*, Bridwell KH, Sides BA. TLIF as an alternative to formal anterior interbody fusion at the caudal end of long spinal deformity constructs: Does it work? Poster 47. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
349. Mulconrey DS\*, Keeler KA‡\*, **Lenke LG**, Bridwell KH, Good CR\*, O’Leary PT\*, Pichelmann M\*, Sides BA. Safety and efficacy of bone morphogenetic protein (rhBMP-2) in complex pediatric spinal deformity at a minimum two year follow-up. Poster 48. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
350. Cardoso MJ, Lehman Jr. RA\*, Rosner M, Moser III RP, Gill N, Helgeson MD, **Lenke LG**. Structures at risk from pedicle screws in the proximal thoracic spine: Computed tomographic evaluation with magnetic resonance imaging correlation. Poster 52. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
351. Kuklo TR\*, Diab M, Sucato DJ, Richards III BS, Emans JB, **Lenke LG**, Spinal Deformity Study Group. Factors associated with pedicle screw removal secondary to EMG pedicle stimulation criteria in AIS surgery. Poster 57. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
352. Blanke K, Kuklo TR\*, **Lenke LG**, Cowgill I, McCutcheon B, Spinal Deformity Study Group. Quality analysis of digital radiographic software measures: Evaluation of 29,122 specific data points. Poster 59. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.
353. Buchowski JM\*, Good C\*, **Lenke LG**, Bridwell KH. Epidural spinal cord compression with neurologic deficit associated with intrapedicular application of FloSeal during pedicle screw insertion. Poster 39. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
354. Cardoso MJ, Lehman Jr. RA\*, Dmitriev AE, Moser III R, Gill NW, Helgeson MD, Rosner MK, **Lenke LG**. Structures at risk from pedicle screws in the proximal thoracic spine: computed tomographic (CT) evaluation with magnetic resonance imaging (MRI) correlation. Poster 70. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
355. Good C\*, **Lenke LG**, O’Leary PT\*, Pichelmann M\*, Keeler K‡\*, Bridwell KH, Baldus C, Koester L. Can posterior only surgery replace combined anterior (thoracotomy/thoracoabdominal)/posterior approaches for adult scoliosis? Poster 98. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
356. Lehman Jr. RA\*, **Lenke LG**, Kuklo TR\*, Richards BS, Bridwell KH. Comparative analysis between Lenke type 1A-, B- and C-curve patterns: Pedicle screw vs. hybrid constructs: Which maintains correction better? Poster 127. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
357. Schlechter J, Newton PO, Upasani V, Yaszay B, **Lenke LG**, Betz RR, Lowe T, Harms Study Group. Risk factors for distal adding-on identified: What to watch out for. Poster 130. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
358. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Gupta MC, Marawar S. Significance of intraoperative thoracic kyphosis increase to prevent the proximal junctional kyphosis in AIS following posterior segmental spinal instrumentation and fusion. Poster 151. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
359. O’Leary PT\*, **Lenke LG**, Good C\*, Pichelmann M\*, Keeler K‡\*, Bridwell KH, Sides B. TLIF as an alternative to formal anterior interbody fusion at the caudal end of long spinal deformity constructs: Does it work? Poster 163. North American Spine Society 23rd Annual Meeting, Toronto, Ontario, Canada, October 14-18, 2008.
360. Kawakami N, Tsuji T, Imagama S, **Lenke L**, King A, Puno R, Kuklo T\*, McCarthy R, Lubicky J, Johnston C, Spinal Deformity Study Group. Three-dimensional analysis of congenital spinal deformity: Evaluation of inter-observer reliability. 2nd International Congress on Early Onset Scoliosis & Growing Spine, Montréal, Québec, Canada, November 7-8, 2008.
361. Zebala LP‡, Cronen G\*, Buchowski J\*, Kuklo T\*, **Lenke LG**, Bridwell KH, Riew KD. Sexual relations after spine surgery: Do patients have questions that are not being addressed? Poster 54. Cervical Spine Research Society 36th Annual Meeting, Austin, TX, December 4-6, 2008.
362. Lehman R\*, **Lenke LG**, Helgeson MD, Keeler KA‡\*. Accuracy/benefit of intraoperative scoliosis radiograph to determine ultimate correction and balance. Poster 250. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas, NV, February 25-28, 2009.
363. Good C\*, **Lenke LG**, O’Leary PT\*, Pichelmann MA\*, Keeler KA\*, Bridwell KH, Baldus C. Can posterior only surgery replace combined anterior (thoracotomy/thoracoabdominal)/posterior approaches for adult scoliosis? Poster 357. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas, NV, February 25-28, 2009.
364. O’Leary PT\*, Bridwell KH, Good C\*, Pichelmann MA\*, **Lenke LG**, Kuklo TR\*, Buchowski J\*, Kim YJ§, Flynn J. Acute fractures above spinal deformity pedicle screw constructs (FPSC): Risk factors and outcomes. Poster 404. American Academy of Orthopaedic Surgeons 76th Annual Meeting, Las Vegas, NV, February 25-28, 2009.
365. Jones CF, Zhu QA, Schwab TN, Larson CR, Itshayek E, **Lenke LG**, Cripton PA. Vertebral body and facet joint loading with multilevel Maverick total disc replacement adjacent to a long spinal fusion. Poster 148. Canadian Orthopaedic Association 64th Annual Meeting, Whistler, British Columbia, July 3-6, 2009.
366. Mishiro T§, **Lenke LG**, Koester LA, Bridwell K, Luhmann SJ\*. Modified Lenke classification system for infantile and juvenile idiopathic scoliosis. Poster 232. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
367. Sucato DJ, **Lenke LG**, Richards BS, Johnston CE, Kuklo TR\*, Emans J, Erickson MA, Spinal Deformity Study Group. Do patients requiring revision surgery for AIS have worse radiographic or clinical outcomes? Poster 286. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
368. **Lenke LG**, Kuklo TR\*, Sucato DJ, Richards BS, Emans JB, Bridwell KH, Johnston CE, Sides BA. Comparison of the lower end vertebra (LEV) to the lowest instrumented vertebra (LIV) in adolescent idiopathic scoliosis: A role for the addition of an LEV modifier to the Lenke classification system. Poster 299. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
369. **Lenke LG**, Sucato DJ, Richards BS, Bridwell KH, Kuklo TR\*, Emans JB, O’Brien MF\*, Sides BA, Spinal Deformity Study Group. The rate of posterior-only surgery in adolescent idiopathic scoliosis has dramatically increased over the past 15 years with less complications: A multicenter analysis. Poster 303. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
370. Richards BS, Sucato DJ, Johnston CE, **Lenke LG**, Kuklo TR\*, Diab M, Spinal Deformity Study Group. Thoracoplasty in adolescent idiopathic scoliosis? It doesn’t make a difference! Poster 313. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
371. Kim Y§, **Lenke LG**, Bridwell K, Cho SK, Cha TD. Thoracolumbar junctional analysis in patients fixed to T12 vs. L1 in adolescent idiopathic scoliosis: Is there any difference? Poster 318. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
372. Kim Y§, Bridwell K, **Lenke LG**, Kim YB§, Kim PD. Comparative radiographic analysis of the sagittal spinopelvic alignment between 100 asymptomatic adults and 100 sagittally imbalanced patients: What are the critical radiographic parameters? Poster 320. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
373. Kawakami N, Tsuji T, Ohara T, Imagama S, Watanabe K§, Yonezawa I, **Lenke LG**, Kuklo TR\*, Johnston CE, Richards BS, Lubicky JP, King AG, Puno RM, Roye DP, Emans JB. Inter-observer evaluation errors in congenital spinal deformity: Toward a proposal for common rules in the study of vertebral anomalies. Poster 320. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
374. Kuklo TR\*, O’Shaughnessy BA\*, Nabb C, Scott MT, **Lenke LG**. Can minimally invasive surgery obtain similar clinical and radiographic outcomes as an open technique for TLIFs? Poster 413. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
375. Cheung WY§, **Lenke LG**, Luk KD. Prediction of scoliosis correction with thoracic segmental pedicle screw constructs using fulcrum bending radiographs. Poster 429. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
376. **Lenke LG**, Sucato DJ, Richards BS, Erickson MA, Diab M, Kuklo TR\*, Sides BA, Spinal Deformity Study Group. Are there differences in the radiographic and clinical outcomes of moderate (<70°) versus severe (≥70°) adolescent idiopathic scoliosis undergoing posterior surgical treatment? Poster 444. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
377. Sarwark J, Richards BS, Sucato DJ, **Lenke LG**, Sanders JO, Emans JB, Parent S, Savage J, Roberts D, Schwartz D, Carreon LY, Spinal Deformity Study Group. Female-male differences in SRS-22 scores in adolescent idiopathic scoliosis. Poster 491. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
378. Chang MS\*, **Lenke LG**, Bridwell K, Cho W§, Chang YH§, Koester LA, Auerbach JD\*, Crawford CH\*, O’Shaughnessy BA\*. Combined anterior-posterior vs. posterior only fusion for severe non-spastic neuromuscular deformity. Poster 533. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
379. Lehman RA\*, Helgeson MD, Dmitriev A, **Lenke LG**. Caudad pedicle screw compression optimized thoracic kyphosis correction: A MicroCT and biomechanical analysis of pedicle morphology and screw failure. Poster 546. 16th International Meeting on Advanced Spine Techniques, Vienna, Austria, July 15-18, 2009.
380. Mishiro T§, **Lenke LG**, Koester LA, Bridwell K, Luhmann SJ\*. Modified Lenke classification system for infantile and juvenile idiopathic scoliosis. Poster 4, Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
381. Roth MD, Padberg AM, Bridwell KH, **Lenke LG**. The effect of bone mineral density on pedicle screw triggered EMG threshold: A comparative study. E-Poster 4. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
382. Zebala LP‡, **Lenke LG**, Luhmann SJ\*, Auerbach JD\*, Bridwell KH. Dual growing rod instrumentation with pedicle screw foundation at a single institution: Assessment of outcomes and complications. E-Poster 23. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
383. Kim YJ§, Bridwell KH, **Lenke LG**, Kim YB§, Kim P. Comparative radiographic analysis of the sagittal spinopelvic alignment between 100 asymptomatic adults and 100 sagittal imbalanced patients: What are the critical radiographic parameters? E-Poster 35. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
384. Cho W§, **Lenke LG**, Koester LA, Sides B, Baldus C. How much kyphosis correction can be obtained with posterior vertebral column resection (VCR)? E-Poster 52. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
385. Richards BS, Sucato DJ, Johnston CE, **Lenke LG**, Kuklo TR\*, Diab M, Spinal Deformity Study Group. Thoracoplasty in adolescent idiopathic scoliosis – It doesn’t make a difference! E-Poster 75. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
386. **Lenke LG**, Sucato DJ, Richard BS, Bridwell KH, Emans JB, O’Brien MF\*, Sides B, Spinal Deformity Study Group. The rate of posterior-only surgery in adolescent idiopathic scoliosis has dramatically increased over the past 15 years with less complications: A multicenter analysis. E-Poster 76. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.
387. Zebala L‡, Cronen G\*, Buchowski J\*, **Lenke L**, Bridwell K, Ondra S, Koski T, Venhaus L, Riew KD. Sexual relations after spine surgery: Do patients have questions that are not being addressed? Poster 63. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10-14, 2009.
388. Kim Y§, **Lenke L**, Bridwell K, Boachie-Adjei O, Clement JL, Kim Y§, Cho S, Cha T. Sagittal Plane changes according to the thoracic kyphosis change following posterior segmental spinal instrumented fusion of adolescent idiopathic scoliosis. Poster 173. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 11-13, 2009.
389. Kuhn M\*, Luhmann SJ\*, **Lenke LG**, Kuklo TR\*, Bridwell KH. The utility of erythrocyte sedimentation rate values and white blood cell counts after spinal deformity surgery in the early (≤3 month) postoperative period. E-Poster 51. Pediatric Orthopaedic Society of North America Annual Meeting/Joint Meeting with Asia Pacific Orthopaedic Association, Waikoloa, Hawaii, May 4-7, 2010.
390. Kim YJ§, **Lenke LG**, Bridwell KH, Boachie-Adjei O, Clement JL, Kim YB§, Cho SK. Distal stop at T12 vs. L1 for posterior spinal instrumented fusion in adolescent idiopathic scoliosis. E-Poster 207. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
391. Kim YJ§, Lenke LG, Bridwell KH, Gupta MC, Boachie-Adjei O, Clement JL, Cho SK\*, Cha TD, Fischer CR. Stable vertebra for surgical management of thoracic adolescent idiopathic scoliosis (Lenke type 1 and 2): How much stable is enough? E-Poster 209. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
392. Cho W§, **Lenke LG**, Bridwell KH, Dorward IG∫, Zebala LP‡\*, Pahys JM\*, Cho SK\*, Kang MM\*, Koester L. Anterior lengthening does occur in pedicle subtraction osteotomy (PSO) at the osteotomized body as well as the discs above and below geometric analysis. E-Poster 256. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
393. Cho W§, **Lenke LG**, Bridwell KH, Dorward IG∫, Zebala LP‡\*, Pahys JM\*, Cho SK\*, Kang MM\*, Koester L. The effect of posterior shortening and anterior lengthening using Smith-Petersen osteotomy (SPO) for kyphosis correction. E-Poster 285. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
394. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Yi JS§, Kang MM\*, Koester L, Sides B. Radiographic outcomes of Smith-Petersen osteotomies in the treatment of spinal deformity. E-Poster 288. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
395. Wang Y§, **Lenke LG**. Vertebral column decancellation (VCD) for the management of sharp angular spinal deformity. E-Poster 289. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
396. Dorward IG∫, **Lenke LG**, Cho W§, Kang MM\*, Koester L, Sides B. Coronal-plane correction following intraoperative prone positioning in adult spinal deformity. E-Poster 290. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
397. Sponseller PD, Newton PO, Jain A, Shah SA, Emans JB, **Lenke LG**, Sucato DJ, Shufflebarger HL, Blanke K. Vertebral column resection in children with neuromuscular spine deformity. E-Poster 311. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
398. Sucato DJ, **Lenke LG**, Richards BS, Johnston CE, Emans JB, Sanders JO, Erickson MA, Lubicky JP, Diab M. The role of spine MRI in patients with Scheuermann’s kyphosis: Is it useful or necessary? E-Poster 325. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
399. Kim YJ§, Bridwell KH, **Lenke LG**, Boachie-Adjei O, Kim YB§, Lee JK. Sagittal plane analysis following posterior lumbar spinal instrumented fusion of adult lumbar spinal deformity with or without sagittal imbalance. E-Poster 337, 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
400. Sucato DJ, **Lenke LG**, Richards BS, Johnston CE, Emans JB, Sanders JO, Erickson MA, Vitale MG, Bridwell KH. Saving lumbar motion segments with selective thoracic fusion for Lenke 1C curves provides good radiographic outcomes but no added functional benefit at two years when compared to non-selective fusion. E-Poster 369. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
401. Kim YJ§, Boachie-Adjei O, Bridwell KH, **Lenke LG**, Lee JK. Selection of proximal fusion level in adult lumbar segmental instrumented fusion to L5 or S1 for degenerative lumbar scoliosis. Is T9 or T10 more reliable? E-Poster 423. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
402. Kang MM\*, **Lenke LG**, Bridwell KH, Pahys JM\*, Zebala LP‡\*, Cho SK\*, Cho W§, Hawasli A¥, Dorward IG∫, Sides B. Low to moderate de novo adult degenerative lumbar scoliosis – Analysis of and radiographic outcomes of surgical treatment. E-Poster 451. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
403. Terai T, Kapour A, Goel VK, Sairyo K, **Lenke LG**, Mishiro T§. Biomechanical significance of iliac screws in lumbosacral fusions – A 3D finite element (FE) study. E-Poster 493. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
404. Cho W§, **Lenke LG**, Bridwell KH, Hu G§, Buchowski JM\*, Dorward IG∫, Pahys JM\*, Cho SK\*, Kang MM\*, Zebala LP‡\*, Koester L. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis: correlation with x-ray, MRI, and surgical outcome. E-Poster 523. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
405. Silva FE^, **Lenke LG**. What percent of adult idiopathic scoliotic pedicles have cancellous channels? E-Poster 599. 17th International Meeting on Advanced Spine Techniques, Toronto, Ontario, Canada, July 21-24, 2010.
406. Morse LJ, Kawakami N, **Lenke LG**, Sucato DJ, Sander JO, Diab M. Cross-ethnicity comparisons of the Scoliosis Research Society Outcomes Instrument in adolescent idiopathic scoliosis. E-Poster 210. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
407. Cho SK\*, **Lenke LG**, Bolon S, Pahys JM\*, Cho W§, Kang MM\*, Zebala LP‡\*, Koester L. Can intraoperative spinal cord monitoring reliably help prevent paraplegia during posterior VCR surgery? E-Poster 229. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
408. Crawford CH\*, **Lenke LG**, Sucato DJ, Richards BS, Emans JB, Vitale MG, Erickson MA, Sanders JO, Bridwell KH. Selective thoracic fusion in Lenke 1C curves: Prevalence and criteria. E-Poster 236. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
409. Luhmann SJ\*, **Lenke LG**, Erickson MA, Bridwell KH, Richards BS. Correction of moderate (<70-degree) Lenke 1A and 2A curve patterns: Comparison of hook, hybrid, and all-pedicle screw systems at 2-year follow-up. E-Poster 239. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
410. Cho W§, **Lenke LG**, Bridwell K, Dorward I∫, Zebala L‡\*, Pahys J\*, Cho S\*, Kang M\*, Koester L. Anterior lengthening does occur in pedicle subtraction osteotomy (PSO) at the osteotomized body as well as the discs above and below: Geometric analysis. E-Poster 240. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
411. Sucato DJ, Richards BS, **Lenke LG**, Johnston CE, Sanders JO, Emans JB, Erickson MA, Carreon LY, Spinal Deformity Study Group. Revision surgery for AIS results in SRS scores comparable to primary surgery patients. E-Poster 245. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
412. Sucato DJ, **Lenke LG**, Richards BS, Johnston CE, Emans JB, Sanders JO, Erickson MA, Vitale MG, Bridwell KH. Saving lumbar motion segments with selective thoracic fusion for Lenke 1C curves provides good radiographic outcomes but no added functional benefit at 2 years when compared to nonselective fusions. E-Poster 246. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
413. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Yi JS§, Kang MM\*, Koester L, Sides B. Radiographic outcomes of Smith-Petersen osteotomies in the treatment of spinal deformity. E-Poster 253. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
414. Vitale MG, Miller DJ, Sucato DJ, Emans JB, Erickson MA, Sanders JO, **Lenke LG**, Richards BS. Factors predicting coronal decompensation of Lenke 1 curves following selective fusion. E-Poster 255. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
415. Kang MM\*, Bridwell KH, **Lenke LG**, Zebala LP‡\*, Pahys JM\*, Cho SK\*, Cho W§, Dorward IG∫, Baldus C. Proximal junctional kyphosis in primary adult deformity surgery – PJK of 20 degrees as a critical angle. E-Poster 314. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 20-25, 2010.
416. Kang MM\*, **Lenke L**, Bridwell K, Dorward IG∫, Cho S\*, Pahys JM\*, Zebala L‡\*, Cho W§, Baldus C. Low to moderate de novo adult degenerative lumbar scoliosis: analysis of and radiographic outcomes of surgical treatment. E-Poster 1211. Congress of Neurological Surgeons 60th Annual Meeting, San Francisco, CA, October 16-21, 2010.
417. Kang MM\*, Bridwell K, **Lenke L**, Dorward IG∫, Zebala L‡\*, Pahys JM\*, Cho S\*, Cho W§, Sides B. Proximal junctional kyphosis in primary adult deformity surgery: PJK of 20 degrees as a critical angle. E-Poster 1212. Congress of Neurological Surgeons 60th Annual Meeting, San Francisco, CA, October 16-21, 2010.
418. Crawford III CH\*, **Lenke LG**, Sucato DJ, Richards III BS, Emans JB, Vitale MG, Erickson MA, Sanders JO, Bridwell KH. Selective thoracic fusion in Lenke 1C curves: Prevalence and criteria. Poster 382. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
419. Pahys J\*, Bridwell KH, **Lenke LG**, Zebala LP‡\*, Cho SKW\*, Kang MM\*, Cho W§, Baldus C. Prevalence and outcomes of coronal decompensation in multilevel spinal fusion for adult deformity. Poster 392. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
420. Foley KT, Toth JM, **Lenke L**, Wang M, Seim III HB, Turner AS. Is facet fusion biomechanically equivalent to posterolateral only fusion? Poster 342. 27th Annual Meeting of the AANS/CNS Section of Disorders of the Spine and Peripheral Nerves, Evidenced-Based Spine Surgery in the Real World, Phoenix, AZ, March 9-12, 2011
421. Rahman RK\*, **Lenke LG**, Bridwell KH, Luhmann SJ\*, Sides BA. High dose Tranexamic Acid (TXA) reduces blood loss in complex pediatric deformity spine surgery. 9th Annual AOSpine North America Fellows Forum, Banff Springs, Alberta, Canada, March 31-April 3, 2011.
422. Vitale MG, Jameel OF, Sucato DJ, Richards BS, Emans JB, Erickson MA, Sanders JO, **Lenke LG**. How much is too much? Higher degrees of curve correction correlate with worsened sagittal balance. Poster 4. Pediatric Orthopaedic Society of North America Annual Meeting, Montreal, Quebec, Canada, May 11-14, 2011.
423. Matsumoto H, Roye D, Vitale MG, Miller D, **Lenke LG**, Sucato DJ, Emans J, Richards BS. Factors predicting coronal decompensation in Lenke 1 curves following selective fusion. Poster 8. Pediatric Orthopaedic Society of North America, Montreal, Canada, May 11-14, 2011.
424. Vitale M, Miller D, Sucato D, Emans J, Erickson M, Sanders J, **Lenke L**, Richards B. Factors predicting coronal decompensation of Lenke 1 curves following selective fusion. Poster 1. American Orthopaedic Association 124th Annual Meeting, Boston, MA, June 22-25, 2011.
425. Kim YJ, Fischer C, **Lenke L**, Bridwell K, Boachie-Adjei O, Clements JL, Cho S\*, Cha T. Optimal lowest instrumented vertebra to avoid adding on or distal junctional kyphosis for thoracic adolescent idiopathic scoliosis. Poster 37. American Orthopaedic Association 124th Annual Meeting, Boston, MA, June 22-25, 2011.
426. Parent S, Aubin CE, Newton PO, **Lenke LG**, Jackson RP, Jodoin-Fontaine X, Thériault J, Labelle H. Normal values for the 3D representation of the planes of maximum curvatures (da Vinci representation) in asymptomatic adolescents. E-Poster 259. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
427. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. E-Poster 263. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
428. Nakamura Y§, **Lenke LG**, Bridwell KH, Ning Y§, Hu G§, Min WK§, Koester LA. Comparison between posterior-only correction and combined anterior/posterior fusion for severe Scheuermann’s kyphosis. E-Poster 267. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
429. Hu G§, **Lenke LG**, Bridwell KH, Koester L. Comparison of Scheuermann’s kyphosis correction by posterior-only pedicle screw fixation with or without Ponté osteotomy. E-Poster 268. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
430. Min WK§, **Lenke LG**, Bridwell KH, Lee DH§, Nakamura Y§, Park MS§, Koester L. Radiographic and clinical outcomes following scoliosis surgery in adolescent patients with Marfan syndrome – Are they different from adolescent idiopathic scoliosis? E-Poster 275. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
431. Lehman RA\*, **Lenke LG**, Blanke K, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM. Incidence/association of spondylolisthesis and adolescent idiopathic scoliosis (AIS). E-Poster 296. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
432. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Koester L, Sides BA. Radiographic and clinical outcomes of posterior column osteotomies in spinal deformity correction: Analysis of 128 patients. E-Poster 316. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
433. Rahman RK\*, **Lenke LG**, Bridwell KH, Luhmann SJ\*, Sides BA. High dose Tranexamic Acid (TXA) reduces blood loss in complex pediatric deformity spine surgery. E-Poster 342. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
434. Stallbaumer JJ\*, **Lenke LG**, Bridwell KH, Zheng J§, Koester LA. Pulmonary function comparison following adult spinal deformity surgery: minimum 2-year follow-up. E-Poster 348. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
435. Lehman RA\*, **Lenke LG**, Sucato DJ, Richards BS, Bridwell KH. Lack of agreement on performing selective thoracic fusions for Lenke 1C AIS curve patterns: evaluation of 57 SRS members. E-Poster 366. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
436. Crawford CH\*, **Lenke LG**, Sucato DJ, Richards BS, Carreon LY. Does iliac crest harvesting affect outcomes following posterior fusions for adolescent idiopathic scoliosis. E-Poster 406. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
437. Glassman SD, Carreon LY, **Lenke LG**, Sanders JO, Vitale MG, Sucato DJ. The relevance of thoracic lordosis in adolescent idiopathic scoliosis. E-Poster 427. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
438. Sucato DJ, **Lenke LG**, Blanke K, McClung A. Response to critical intraoperative neuromonitoring changes in spinal deformity surgery: A poll of spinal deformity surgeons reviewing pediatric/adolescent cases. E-Poster 446. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
439. Lehman RA\*, Kang D, **Lenke LG**, Sucato DJ. Return to sports after surgery to correct adolescent idiopathic scoliosis. E-Poster 496. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
440. **Lenke LG**, Silva FE^. What percent of adult deformity patients have cancellous pedicle channels? E-Poster 503. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
441. Cho W§, **Lenke LG**, Bridwell KH, Hu G§, Buchowski JM\*, Dorward IG∫, Pahys JM\*, Cho SK\*, Kang MM\*, Zebala LP‡\*, Koester LA. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis: Correlation with x-ray, MRI, and surgical outcomes. E-Poster 541. 18th Annual International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
442. Cho W§, **Lenke LG**, Bridwell KH, Dorward IG∫, Zebala LP‡\*, Pahys JM\*, Cho SK\*, Kang MM\*, Koester LA. Anterior lengthening does occur in pedicle subtraction osteotomy (PSO) at the osteotomized body as well as at the discs above and below: Geometric analysis. E-Poster 613. 18th International Meeting on Advanced Spine Techniques, Copenhagen, Denmark, July 13-16, 2011.
443. Vitale MG, Mackenzie WGS, Matsumoto H, Colacchio ND, Sucato DJ, Richards BS, Erickson MA, Sanders JO, **Lenke LG**, Roye DP, Williams BA. Frontal or sagittal spinal imbalance does not affect quality of life two years after posterior spinal instrumentation and fusion for adolescent idiopathic scoliosis. E-Poster 207. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
444. Lehman RA\*, **Lenke LG**, Blanke K, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM. Incidence/association of spondylolisthesis and adolescent idiopathic scoliosis (AIS). E-Poster 229. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
445. Dickson D\*, **Lenke LG**, Bridwell KH, Sides BA. Prevalence and risk factors for pseudarthrosis after lumbar pedicle subtraction osteotomy (PSO) in adult spinal deformity. E-Poster 230. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
446. Stoker GE¥, Buchowski JM\*, Bridwell KH, **Lenke LG**, Riew KD, Zebala LP‡\*. Preoperative vitamin D status in adults undergoing spinal fusion surgery. E-Poster 240. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
447. Bumpass D‡, **Lenke LG**, Bridwell KH, Stallbaumer J\*, Kim YJ§, Wallendorf M, Min WK§, Sides BA. Pulmonary function changes following posterior vertebral column resection in pediatric and adult spinal deformity patients. E-Poster 242. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
448. **Lenke LG**, Stallbaumer JJ\*, Bridwell KH, Zheng J§, Koester L. Pulmonary function comparison following adult spinal deformity surgery: minimum two-year follow-up. E-Poster 248. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
449. Nakamura Y, **Lenke LG**, Bridwell KH, Ning Y§, Hu G§, Min WK§, Koester L. Comparison between posterior-only correction and combined anterior/posterior fusion for severe Scheuermann’s kyphosis. E-Poster 249. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
450. Cho W§, **Lenke LG**, Bridwell KH, Hu G§, Buchowski JM\*, Dorward IG∫, Pahys JM\*, Cho SK\*, Kang MM\*, Zebala LP‡\*, Koester L. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis: Correlation with x-ray, MRI, and surgical outcome. E-Poster 250. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
451. Bogunovic L‡, **Lenke LG**, Bridwell KH, Luhmann SJ\*. Preoperative halo-gravity traction for severe pediatric spinal deformity: Complications, radiographic correction and changes in pulmonary function. Poster 313. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, September 14-17, 2011.
452. Dorward IG∫, **Lenke L**, Cho W§, Koester LA, Sides BA. Radiographic and clinical outcomes of posterior column osteotomies in spinal deformity correction: Analysis of 128 patients. Poster 62. Congress of Neurological Surgeons 61st Annual Meeting, Washington, D.C., October 1-6, 2011.
453. Lehman RA\*, Kang DG, **Lenke L**, Sucato D. Return to sports after surgery to correct adolescent idiopathic scoliosis. Poster 152. Congress of Neurological Surgeons 61st Annual Meeting, Washington, D.C., October 1-6, 2011.
454. Kang DG, Lehman RA\*, **Lenke L**, Gaume R, Paik H. The ventral lamina and superior facet rule: the key to accurate placement for thoracic pedicle screws. Poster 104. Congress of Neurological Surgeons 61st Annual Meeting, Washington, D.C., October 1-6, 2011.
455. Lehman R\*, **Lenke L**, Blanke K, Transfeldt E, Parent S, Labelle H, Mac-Thiong JM. Incidence/association of spondylolisthesis and adolescent idiopathic scoliosis (AIS). Poster 84. North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
456. Gomez JA, Matsumoto H, Colacchio ND, Sucato DJ, Richards II BS, Emans JB, Roye Jr. DP, Vitale MG, **Lenke LG**. Risk factors for coronal decompensation following spinal fusion for adolescent idiopathic scoliosis. Poster 249. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
457. Lehman RA\*, Kang D, **Lenke LG**, Gaume RE, Paik H, Bevevino A. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Poster 349. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
458. Stoker GE‡, Buchowski JM\*, Bridwell KH, **Lenke LG**, Riew KD, Zebala LP‡\*. Preoperative Vitamin D status of adults undergoing spinal fusion surgery. Poster 371. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
459. Cho W§, **Lenke LG**, Bridwell KH, Hu G§, Buchowski JM\*, Pahys J\*, Cho SKW\*, Kang MM\*, Zebala LP‡\*, Koester LA. The prevalence of abnormal preoperative neurologic exam in Scheuermann’s kyphosis. Poster 377. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
460. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery? 8th Annual Evidence and Technology Spine Summit, Park City, UT, February 23-25, 2012.
461. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. 8th Annual Evidence and Technology Spine Summit, Park City, UT, February 23-25, 2012.
462. Lehman RA\*, **Lenke LG**, Blanke KM, Kang DG, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM, Spinal Deformity Study Group. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis: A matched cohort analysis. 8th Annual Evidence and Technology Spine Summit, Park City, UT, February 23-25, 2012.
463. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Pulmonary function following adult spinal deformity surgery: Minimum two-year follow-up. 8th Annual Evidence and Technology Spine Summit, Park City, UT, February 23-25, 2012.
464. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ. Return to sports after surgery to correct adolescent idiopathic scoliosis. 8th Annual Evidence and Technology Spine Summit, Park City, UT, February 23-25, 2012.
465. Dorward IG∫, **Lenke L**, Stoker GE¥‡, Cho W§, Koester LA, Sides BA. Radiographic and clinical outcomes of posterior column osteotomies in spinal deformity correction: Analysis of 128 patients. Oral Poster Presentations II 201. 28th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine and Nerve Surgery in the Era of Excellence: Will You Measure Up? Orlando, FL, March 7-10, 2012.
466. Smith JS, Saulle D, Ames CP, **Lenke L**, Glassman SD, Broadstone PA, Polly Jr. DW. Shaffrey CI. Rates and causes or mortality associated with spine surgery based on 108,419 procedures: A review of the Scoliosis Research Society Morbidity and Mortality database. Oral Poster Presentations II 216. 28th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine and Nerve Surgery in the Era of Excellence: Will You Measure Up? Orlando, FL, March 7-10, 2012.
467. Kasliwal MK, Smith JS, Shaffrey CI, Saulle D, **Lenke L**, Polly Jr. DW, Ames CP, Perra J. Short-term complications associated with surgery for high-grade spondylolisthesis in adults and pediatric patients: A report from the Scoliosis Research Society Morbidity and Mortality database. Oral Poster Presentations IV 204. 28th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine and Nerve Surgery in the Era of Excellence: Will You Measure Up? Orlando, FL, March 7-10, 2012.
468. Dmitriev AE, Lehman RA\*, Kang DG, Bevevino AJ, Gaume R, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw “Hubbing” in the immature thoracic spine: A calf spine study. International Society for the Advancement of Spine Surgery Annual Meeting, Barcelona, Spain, March 20-23, 2012.
469. Bevevino AJ, Lehman RA\*, Kang DG, Dmitriev A, Helgeson M, Gaume R, **Lenke L**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A MicroCT and biomechanical analysis of pedicle morphology and screw failure. Poster 429. International Society for the Advancement of Spine Surgery, Barcelona, Spain, March 20-23, 2012.
470. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Bevevino AJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis. American Association of Neurological Surgeons 80th Annual Meeting, Miami, FL, April 14-18, 2012.
471. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H, Bevevino AJ. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. American Association of Neurological Surgeons 80th Annual Meeting, Miami, FL, April 14-18, 2012.
472. Lehman RA\*, Helgeson MD, Dmitriev AE, Paik H, Bevevino AJ, Gaume RE, Kang DG, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A microCT and biomechanical analysis of pedicle morphology and screw failure. American Association of Neurological Surgeons 80th Annual Meeting, Miami, FL, April 14-18, 2012.
473. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume R, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw “Hubbing” in the immature thoracic calf spine. Maryland Orthopaedic Association 71st Annual Meeting, Baltimore, MD, April 21, 2012.
474. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Lumbar Spine Research Society 5th Annual Meeting, Chicago, IL April 26-27, 2012.
475. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume R, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw “Hubbing” in the immature thoracic spine: A calf spine study. Virginia Orthopaedic Society Annual Meeting, Williamsburg, VA, May 4-6, 2012.
476. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Virginia Orthopaedic Society Annual Meeting, Williamsburg, VA, May 4-6, 2012.
477. Lehman RA\*, **Lenke LG**, Sucato SJ, Kang DG, Richards BS, Bridwell KH. Surgeon variability for treatment of Lenke 1C curve patterns with selective thoracic fusions. Virginia Orthopaedic Society Annual Meeting, Williamsburg, VA, May 4-6, 2012.
478. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume RE, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw Hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography analysis. Uniformed Services University Annual 2012 Research Days Poster Competition, Bethesda, MD, May 14, 2012.
479. Lehman RA\*, **Lenke LG**, Kang DG, Blanke KM, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM, Spinal Deformity Study Group. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Spine Week 2012, Amsterdam, The Netherlands, May 28-June 1, 2012.
480. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Spine Week 2012, Amsterdam, The Netherlands, May 28-June 1, 2012.
481. Bevevino A, Lehman Jr. RA\*, Kang DG, Dmitriev AE, Helgeson MD, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A micro-CT and biomechanical analysis of pedicle morphology and screw failure. Poster 2. Western Orthopaedic Association 76th Annual Meeting, Portland, OR, June 13-16, 2012.
482. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Blanke K. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Poster 15. Western Orthopaedic Association 76th Annual Meeting, Portland, OR, June 13-16, 2012.
483. Bevevino A, Lehman Jr. RA\*, Dmitriev AE, Lang DG, Helgeson MD, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: a microCT and biomechanical analysis of pedicle morphology and screw failure. Poster 2. Southern Orthopaedic Association 29th Annual Meeting, White Sulpher Springs, WV, July 18-21, 2012.
484. Kang DG, Lehman Jr. RA\*, Dmitriev AE, Bevevino A, Gaume RE, **Lenke LG**. Biomechanical effects of pedicle screw “Hubbing” in the immature thoracic calf spine. Poster 20. Southern Orthopaedic Association 29th Annual Meeting, White Sulpher Springs, WV, July 18-21, 2012.
485. Kang DG, Lehman Jr. RA\*, **Lenke LG**, Blanke KM. Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Poster 21. Southern Orthopaedic Association 29th Annual Meeting, White Sulpher Springs, WV, July 18-21, 2012.
486. Lehman RA\*, Kang DG, **Lenke LG**, Sucato DJ, Spinal Deformity Study Group. Return to sports after surgery to correct adolescent idiopathic scoliosis: A survey of the spinal deformity study group. E-Poster 218. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
487. Larson NA, Aubin CE, Polly DW, Ledonio CGT, Lonner BS, Shah SA, Sucato DJ, **Lenke LG**, Richards BS, Erickson MA, Emans JB, Weinstein SL, Minimize Implants Maximize Outcomes Study Group. Are more screws better? A systematic review of the implant density and curve correction in AIS. E-Poster 226. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
488. Xu Y§, **Lenke LG**, Kelly MP\*†, Koester L, Sides BA. Amount of coronal correction in AIS patients following posterior column osteotomies: An intraoperative radiographic study. E-Poster 245. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
489. Min WK§, **Lenke LG**, Kelly MP\*†, Kim HJ\*, Nakamura Y§, Lee DH§, Park MS§, Sides BA. Are clinical outcomes favorable following posterior vertebral column resection (PVCR) for severe adult spinal deformity? E-Poster 331. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
490. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Do preoperative curve magnitude and major thoracic deformity correction correlate with pulmonary function following adult deformity surgery? E-Poster 336. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
491. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Koester L, Sides BA. Radiographic and clinical outcomes of posterior column osteotomies in adult spinal deformity correction: Analysis of 128 patients. E-Poster 361. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
492. Silva F^, **Lenke LG**. What percentage of adult deformity patients have cancellous pedicle channels? E-Poster 384. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
493. Lehman RA\*, Dmitriev AE, Bevevino AJ, Kang DG, Helgeson M, Paik H, Gaume RE, **Lenke LG**. Caudad pedicle screw compression optimizes thoracic kyphosis correction: A micro CT and biomechanical analysis of pedicle morphology and screw failure. E-Poster 415. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
494. Kim HJ\*, **Lenke LG**, Mesfin A\*, Hershman S\*, Fogelson JL\*, Sides BA. Can long fusion crossing the cervicothoracic junction have good outcomes at a minimum two years follow-up? E-Poster 451. 19th International Meeting on Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012.
495. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume R, Paik H, **Lenke LG**. Biomechanical effects of pedicle screw “Hubbing” in the immature thoracic calf spine. North American Spine Society Spine Across the Sea, Kauai, HI, July 29-August 2, 2012.
496. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H. The ventral lamina and superior facet rule: A morphometric analysis for ideal thoracic pedicle screw start point. Poster 215. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012. **John H. Moe Best Basic Science Poster Award**
497. Dorward IG∫, **Lenke LG**, Bridwell KH, Cho W§, Koester L, Sides BA. Radiographic and clinical outcomes of posterior column osteotomies in adult spinal deformity correction: Analysis of 128 patients. E-Poster 240. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, September 5-8, 2012.
498. Lehman RA\*, Kang DG, **Lenke L**, Stallbaumer J\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 1475. Congress of Neurological Surgeons 2012 Annual Meeting, Chicago, IL, October 6-10, 2012.
499. Lehman RA\*, Kang DG, **Lenke L**, Sides BA, Stallbaumer J\*. Do preoperative curve magnitude and major thoracic deformity correction correlate with pulmonary function following adult deformity surgery? Poster 1479. Congress of Neurological Surgeons 2012 Annual Meeting, Chicago, IL, October 6-10, 2012.
500. Kang DG, Lehman RA\*, Dmitriev AE, Gaume R, Bevevino AJ, Paik H, **Lenke L**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. Congress of Neurological Surgeons 2012 Annual Meeting, Chicago, IL, October 6-10, 2012.
501. Lehman RA\*, **Lenke L**, Kang DG, Blanke K, Transfeldt EE, Labelle H, Parent S, Mac-Thiong JM, Spinal Deformity Study Group (SDSG). Prevalence of spondylolisthesis and concomitant adolescent idiopathic scoliosis. Poster 1451. Congress of Neurological Surgeons 2012 Annual Meeting, Chicago, IL, October 6-10, 2012.
502. Kang DG, Lehman Jr. RA\*, Dmitriev AE, Bevevino A, Gaume RE, Paik H, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. Poster 78. North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.
503. Kim HJ\*, **Lenke LG**, Riew KD, Oshima Y§, Mesfin A\*, Hershman S\*, Fogelson J\*, Sides B. Occipital incidence – A novel morphometric parameter for understanding occipitocervical spinal alignment. Poster 332. Cervical Spine Research Society 40th Annual Meeting, Chicago, IL, December 5-8, 2012.
504. Xu J§, Buchowski JM\*, Bridwell KH, **Lenke LG**, Mesfin A\*, Koester L, Xu Y§, Riew KD. Surgical management of cervical facet fracture/dislocation: Analysis of sixty-one cases with minimum two-year follow-up. Poster 293. Cervical Spine Research Society 40th Annual Meeting, Chicago, IL, December 5-8, 2012.
505. Lehman RA\*, Kang DG, **Lenke LG**, Gaume RE, Paik H, Bevevino AJ. The ventral lamina and superior facet rule: The key to accurate placement for thoracic pedicle screws. Society of Military Orthopaedic Surgeons 53rd Annual Conference, San Diego, CA, December 12-16, 2012.
506. Smith JS, Ames C, **Lenke LG**, Polly Jr. DW, Kasliwal MK, Broadstone PA, Glassman SD, Vaccaro A, Shaffrey CI. Scoliosis Research Society: Rates and causes or mortality associated with spine surgery based on 108,419 procedures. Poster 59. American Academy of Orthopaedic Surgery 80th Annual Meeting, Chicago, IL, March 19-23, 2013.
507. Cidambi KR, Bastrom T, Bartley C, Clements III DH, Betz RR, **Lenke LG**, Newton PO. Surgical treatment of adolescent idiopathic scoliosis: A prospective ten-year follow-up study. Poster 395. American Academy of Orthopaedic Surgery 80th Annual Meeting, Chicago, IL, March 19-23, 2013.
508. Kang DG, Lehman RA\*, Dmitriev AE, Bevevino AJ, Gaume R, Paik H, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. International Society for the Advancement of Spine Surgery, Vancouver, British Columbia, Canada, April 3-5, 2013.
509. Lehman RA\*, Kang DG, **Lenke LG**, Tracey RW, Cody JP, Sides BA, Stallbaumer JJ\*. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Virginia Orthopaedic Society 66th Annual Meeting, Washington, DC, May 3-5, 2013.
510. Lehman RA\*, Kang DG, **Lenke LG**, Tracey RW, Cody JP, Sides BA, Stallbaumer JJ\*. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery? Virginia Orthopaedic Society 66th Annual Meeting, Washington, DC, May 3-5, 2013.
511. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA, Cody J. Pulmonary function following adult spinal deformity surgery: Minimum two year follow-up. Oral Poster 242. International Society for the Advancement of Spine Surgery Annual Meeting, Vancouver, British Columbia, Canada, April 3-5, 2013.
512. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 243. International Society for the Advancement of Spine Surgery Annual Meeting, Vancouver, British Columbia, Canada, April 3-5, 2013.
513. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Do preoperative curve magnitude and major thoracic deformity correction correlate with pulmonary function following adult deformity surgery? Poster 244. International Society for the Advancement of Spine Surgery Annual Meeting, Vancouver, British Columbia, Canada, April 3-5, 2013.
514. Tracey RW, Kang DG, Lehman RA\*, Bevevino AJ, Gaume R, Paik H, Dmitriev AE, **Lenke LG**. Pedicle screw hubbing in the adult and immature thoracic spine: A biomechanical and micro-computed tomography evaluation. Poster 245. International Society for the Advancement of Spine Surgery Annual Meeting, Vancouver, British Columbia, Canada, April 3-5, 2013.
515. Tracey RW, Kang D, Lehman R\*, Cody J, **Lenke LG**, Stallbaumer J\*, Sides B. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. American Association of Neurologic Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 1, 2013.
516. Tracey RW, Lehman R\*, Kang D, Cody J, **Lenke L**, Stallbaumer JJ\*, Sides BA. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery? American Association of Neurologic Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 1, 2013.
517. Tracey RW, Lehman RA\*, Kang DG, Cody JP, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 226. International Society for the Study of the Lumbar Spine 40th Annual Meeting, Scottsdale, AZ, May 13-17, 2013.
518. Tracey RW, Lehman RA\*, Kang DG, Cody JP, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Return to sports after surgery to correct adolescent idiopathic scoliosis. Poster 227. International Society for the Study of the Lumbar Spine 40th Annual Meeting, Scottsdale, AZ, May 13-17, 2013.
519. Dorward IG∫\*, Bridwell KH, **Lenke LG**, Neuman BJ\*, O’Neill KR\*, Holekamp TF∫, Ahmad A, Baldus C. Outcomes in surgery for adolescent idiopathic scoliosis: Drivers of satisfaction and durability of results. Poster 201. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 13-16, 2013.
520. Celestre PC, Carreon LY, **Lenke LG**, Sucato DJ, Glassman SD. Sagittal alignment two years after selective and nonselective thoracic fusion for Lenke 1C adolescent idiopathic scoliosis. Poster 209. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 13-16, 2013.
521. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery? Poster 216. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 13-16, 2013.
522. Min WK§, **Lenke LG**, Kelly MP\*†, Kim HJ\*, Nakamura Y, Lee DH§, Park MS§, Sides BA. Are clinical outcomes favorable following of posterior vertebral column resection (PVCR) for severe adult spinal deformity? Poster 233. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 13-16, 2013.
523. Glaser DA, Doan J, Reighard FG, Newton PO, **Lenke LG**. Differences in 3D upright slot-scanner versus supine CT in AIS patients. Poster 277. 20th International Meeting on Advanced Spine Techniques, Vancouver, British Columbia, Canada, July 13-16, 2013.
524. Tracey RW, Kang DG, Lehman RA\*, Cody JP, **Lenke L**. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 32. Southern Orthopaedic Association 30th Annual Meeting, Palm Beach, FL, July 17-20, 2013.
525. Tracey RW, Kang DG, Lehman RA\*, Cody JP, **Lenke L**. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery? Poster 33. Southern Orthopaedic Association 30th Annual Meeting, Palm Beach, FL, July 17-20, 2013.
526. Xu Y§, **Lenke LG**, Kelly MP\*†, Koester L, Sides BA. Amount of coronal correction in AIS patients following posterior column osteotomies: An intraoperative radiographic study. Poster 208. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
527. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 217. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013. **Goldstein Award Nominee for Best Clinical E-Poster**
528. Lehman RA\*, Kang DG, **Lenke LG**, Stallbaumer JJ\*, Sides BA. Does curve magnitude/deformity correction correlate with pulmonary function after adult deformity surgery. Poster 238. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
529. Celestre PC, Carreon LY, **Lenke LG**, Sucato DJ, Glassman SD. Sagittal alignment two years after selective and nonselective thoracic fusion for Lenke 1C adolescent idiopathic scoliosis. Poster 260. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
530. Dorward IG∫\*, Bridwell KH, **Lenke LG**, Neuman BJ\*, O’Neill KR\*, Holekamp TF∫, Ahmad A, Baldus C. Outcomes in surgery for adolescent idiopathic scoliosis: Drives of satisfaction and durability of results. Poster 274. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
531. Min WK§, **Lenke LG**, Kelly MP\*†, Kim HJ\*, Nakamura Y, Lee DH§, Park MS§, Sides BA. Are clinical outcomes favorable following of posterior vertebral column resection (PVCR) for severe adult spinal deformity? Poster 281. Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 18-21, 2013.
532. Celestre PC, Carreon LY, **Lenke LG**, Sucato DJ, Glassman SD. Sagittal alignment two years after selective and nonselective thoracic fusion for Lenke 1C adolescent idiopathic scoliosis. Poster 1. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
533. Cho SK\*, Lu Y, Skovrlj B, Caridi JM, **Lenke LG**. The effect of increasing pedicle screw diameter on thoracic spinal canal dimensions: An anatomic study. Poster 43. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
534. Cho SK\*, **Lenke LG**, Bridwell KH, Kim YJ§. Recent trends in surgical management of adolescent idiopathic scoliosis: A review of 17,412 cases from the Scoliosis Research Society database 2001-2008. Poster 45. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
535. Cho SK\*, Egorova NN, Bridwell KH, **Lenke LG**, Caridi JM, Kim YJ§. Comparative analysis of osteotomies during adult spinal fusions: A retrospective review of 3,990 cases from the Scoliosis Research Society Morbidity and Mortality database. Poster 46. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
536. Lehman RA\*, Kang DG, **Lenke LG**, Sides BA. Pulmonary function following adult spinal deformity surgery: Minimum two-year follow-up. Poster 122. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
537. Lehman RA\*, Kang DG, **Lenke LG**, Sides BA. Comparison of pulmonary function in adults younger and older than age 60 undergoing spinal deformity surgery. Poster 123. North American Spine Society 28th Annual Meeting, New Orleans, LA, October 9-12, 2013.
538. Dorward IG∫\*, **Lenke L**, Bridwell K, McCoy K, Holekamp TF∫, Neuman BJ\*, O’Neill K\*, Ray WZ, Sides BA, Koester LA. Surgery for idiopathic scoliosis in adolescent versus young adults: A matched cohort analysis. Poster 367. Congress of Neurosurgical Surgeons Annual Meeting, San Francisco, CA, October 2013.
539. Dorward IG∫\*, Bridwell K, **Lenke L**, O’Neill K\*, Neuman BJ\*, Holekamp TF∫, Ahmad AS, Baldus CR. Outcomes in surgery for adolescent idiopathic scoliosis: Drives of satisfaction and durability of results. Poster 1022. Congress of Neurosurgical Surgeons Annual Meeting, San Francisco, CA, October 2013.
540. Silva F^, **Lenke LG**, Bridwell KH, Koester LA. Clinical and radiographic outcomes of Lenke-Silva treatment levels 2 and 3. Poster 427. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 30th Annual Meeting, Orlando, FL, March 5-8, 2014.
541. Cho SK\*, **Lenke LG**, Bridwell KH, Kim YJ§. Comparative analysis of four osteotomies performed during pediatric spinal fusion surgery. Poster 253. American Academy of Orthopaedic Surgery 81st Annual Meeting, New Orleans, LA, March 11-15, 2014.
542. Gum J\*, Crawford III CH\*, **Lenke LG**, Buchowski JM\*, Edwards CC\*, Glassman SD, Carreon LY. Culture profile of surgical site infections after topical vancomycin instrumented spine fusions. Poster 348. American Academy of Orthopaedic Surgeons 81st Annual Meeting, New Orleans, LA, March 11-15, 2014.
543. Glaser DA, **Lenke L**. 3D upright slot-scanner EOS vs supine CT: A clinical examination. Poster 683. Orthopaedic Research Society 60th Annual Meeting, New Orleans, LA, March 15-18, 2014.
544. Kang DG, Lehman RA\*, **Lenke LG**. Sacral screw strain in a long posterior spinal fusion construct with sacral alar-iliac (S2A1) versus iliac fixation. Maryland Orthopaedic Association 73rd Annual Meeting, Baltimore, MD, April 20, 2014.
545. Wagner S, Lehman RA\*, **Lenke LG**. A finite-element model to accurately predict biomechanical behavior of the human lumbosacral spine. Maryland Orthopaedic Association 73rd Annual Meeting, Baltimore, MD, April 20, 2014.
546. Asghar J, Shah SA, Lehman RA\*†, **Lenke LG**, Newton PO, Pahys JM\*, Yaszay, Miyanji F, Samdani AF, Shufflebarger HL. The use of Ponte osteotomies (PO) in AIS: Are they safe? Poster 211. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
547. Kim YC§, **Lenke LG**, Bridwell KH, Zebala LP‡\*, Gum JL\*, Li Q§, Kim YW§, Koester L, Blanke K. How does surgical correction of spinal deformity affect total body sagittal alignment? E-Poster 233. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
548. Kim YC§, **Lenke LG**, Bridwell KH, Gum JL\*, Tauchi R§, Li Q§, Kim YW§, Kim SW§, Koester L, Blanke K. Novel radiographic parameters for the assessment of total body sagittal alignment. E-Poster 234. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
549. Kim YC§, **Lenke LG**, Bridwell KH, Hyun SJ§, Tauchi R§, Chang HG, Koester L, Blanke K. Results of revision surgery for pseudarthrosis following pedicle subtraction osteotomy for fixed sagittal imbalance: Minimum 5-years post revision. E-Poster 245. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
550. Kim YC§, **Lenke LG,** Bridwell KH, Kelly MP\*†, Chang HG, Kim YW§, Koester L, Blanke K. Results of revision surgery for proximal junctional kyphosis following posterior instrumentation – Minimum two-years post revision. E-Poster 248. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
551. Gum JL\*, **Lenke LG**, Bridwell KH, Sides BA, Salehi A, Bumpass DB‡\*, Sugrue PA\*, Karikari I\*, Kelly MP\*†. What is the fate of adult and pediatric spinal deformity reconstruction after prior deep wound infection? E-Poster 252. 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16-19, 2014.
552. Sugrue PA\*, Bridwell KH, **Lenke LG**, Ahmad A, Gum JL\*, Bumpass DB‡\*, Karikari I\*, O’Neill KR\*, Kim SD\*, Carreon LY. Major revision surgery as a result of pseudarthrosis or proximal junctional kyphosis is the most likely complication to negatively impact patient reported outcome scores in adult spinal deformity. E-Poster 221. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
553. Karikari I\*, Bridwell KH, **Lenke LG**, Sugrue PA\*, Bumpass DB‡\*, Ahmad A, Gum JL\*. Decompression in adult lumbar deformity surgery is associated with increased perioperative complications but favorable long term outcomes. E-Poster 224. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
554. Gum JL\*, Bridwell KH, **Lenke LG**, Bumpass DB‡\*, Sugrue PA\*, Karikari I\*, Kim SD\*, O’Neill KR\*, Carreon LY. SRS appearance domain correlates the most with patient satisfaction after adult deformity surgery to the sacrum at 5 year follow-up. E-Poster 230. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
555. Rahman RK\*†, **Lenke LG**, Gum JL\*, Raja-Rahman N. Posterior vertebral column resection: Complications and clinical outcomes with minimum 5-year follow-up. E-Poster 243. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
556. Mohapatra A, Zebala LP‡\*, **Lenke LG**, Wilson RZ, Kelly MP\*†. The influence of topical vancomycin on surgical site infection rates following instrumented thoracolumbar surgery. E-Poster 244. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
557. Vitale MG. Pace GI, Wright ML, Matsumoto H, Erickson MA, Flynn JM, Glotzbecker M, Ibrahim KN, Lewis SJ\*, Luhmann SJ\*, Richards BS, Sanders JO, Shah SA, Skaggs DL, Smith JT, Song K, Sponseller PD, Sucato DJ, Roye DP, **Lenke LG**. Creation of a consensus-based checklist for the response to intraoperative neuromonitoring changes in spine deformity surgery. E-Poster 252. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
558. **Lenke LG**, Boachie-Adjei O, Sucato DJ, Newton PO, Shufflebarger HL, Sponseller PD, Emans JB, Shah SA, Lonner BS, Samdani AF, Kelly MP\*†, Sides BA. The deformity angular ratio accurately predicts risk of intraoperative spinal cord monitoring alerts during surgery for severe pediatric spinal deformity. E-Poster 271. Scoliosis Research Society 49th Annual Meeting, Anchorage, AK, September 11-13, 2014.
559. Cheung K, Bow C, Samartzis D, Dekutoski M, Schwab F. Boachie-Adjei O, Kebaish K, Ames C, Qiu Y, Matsuyama Y, Dahl B, Mehdian H, Pellise-Urquiza F, Carreon L, Shaffrey C, Fehlings M, **Lenke L**. Risk factors for non-neurological complications in adult spinal deformity surgery: An international, prospective, multi-center study of 269 cases. Hong Kong Orthopaedic Association 34th Annual Congress, Hong Kong, China, November 15-16, 2014.
560. Lehman Jr. RA\*†, Kang D, **Lenke LG**, Wagner S, Sides B. Pulmonary function following adult spinal deformity surgery: Minimum two-year follow up. Poster 367. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
561. Gum J\*, Carreon LY, Buchowski JM\*, **Lenke LG**, Glassman SD. Utilization trends of PSOs compared to PSFs for deformity: A national database analysis, 2008-2011. Poster 382. American Academy of Orthopaedic Surgeons 82nd Annual Meeting, Las Vegas, NV, March 24-28, 2015.
562. **Lenke LG**, Samdani AF, Yaszay B, Lonner BS, Sponseller PD, Erickson MA, Garg S‡, Kelly MP\*†, Pahys JM\*, Jain VV, Cahill PJ, Yan Y, Sides BA, Fox Pediatric Spinal Deformity Study Group. Interobserver and intraobserver reliability of determining the deformity angular ratio in severe pediatric deformity curves. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
563. Wu J, Parent S, Aubin CE, Kadoury S, Newton PO, **Lenke LG**, Lafage V, Labelle H. Towards a new 3D classification for adolescent idiopathic scoliosis (AIS): 3D subgroups derived from a consensus approach from members of the SRS 3D taskforce. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
564. Chapman TM\*, **Lenke LG**, Kang DG\*, McClendon J\*, Metz LN\*, Sides BA, Blanke KM. Can radiography be minimized in pediatric spinal deformity using surface topography? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
565. Kang DG\*, Lenke LG, Gum JL\*, Lehman RA\*†, Kelly MP\*†, Blanke KM, Koester L, Bumpass DB‡\*†, Hwang CJ§, Metz LN\*, Chapman TM\*, McClendon J\*, Wagner SC. Reliability of shoulder height assessment in adolescent idiopathic scoliosis. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
566. Kang DG\*, Buchowski JM\*, **Lenke LG**, Lehman RA\*†, Luksanapruksa P§, McClendon J\*, Chapman TM\*, Metz LN\*. Can S2-alar-iliac (S2AI) screws be placed accurately without fluoroscopy? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
567. Kang DG\*, Lehman RA\*†, **Lenke LG**, Luksanapruksa P§, Abraamyan T, Koester L, Metz LN\*, McClendon J\*, Chapman M\*. Does single- versus two-stage pedicle subtraction osteotomy in spinal deformity surgery influence perioperative complications? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
568. Metz LN\*, **Lenke LG**, Sides BA, Kim YC§, Kim HJ\*, Kelly MP\*†, Lehman RA\*†, Kang DG\*, McClendon J\*, Chapman TM\*, Blanke KM. Age affects total body sagittal alignment in asymptomatic adults. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
569. Knott PT, Sturm PF, Lonner BS, Betz RR, Cahill PJ, Betsch M, McCarthy RE, Kelly MP\*†, **Lenke LG**. Can radiography be minimized in pediatric spinal deformity using surface topography? Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
570. **Lenke LG**, Newton PO, Lehman Jr. RA\*†, Kelly MP\*†, Clements III DH, Errico TJ, Betz RR, Samdani AF, Blanke KM, Harms Study Group. Radiographic results of selecting the touched vertebra as the lowest instrumented vertebra in Lenke type 1 (main thoracic) and type 2 (double thoracic) curves at a minimum 5-year follow-up. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
571. Jain A, Kebaish FN, **Lenke LG**, Qiu Y, Matsuyama Y, Ames C,Fehlings M, Dahl B, Mehdian H, Cheung K, Schwab F, Pellisé F, Carreon L , Shaffrey C, Kebaish K. Incidence of Proximal Junctional Kyphosis in Patients with Adult Spinal Deformity Fused to the Pelvis: A ScoliRisk-1 Sub-analysis. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
572. Jain A, Kebaish FN, **Lenke LG**, Dahl B, Cheung K, Pellisé F, Qiu Y, Fehlings M, Ames C, Matsuyama Y, Mehdian H, Schwab F, Carreon L , Shaffrey C, Kebaish .Geographical Variations in Practice Patterns and Outcomes in Surgically Treated Adult Spinal Deformity Patients: A ScoliRisk-1 Sub-analysis .51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
573. Jain A, Kebaish FN, **Lenke LG**, Dahl B, Cheung K, Pellisé F, Qiu Y, Fehlings M, Ames C, Matsuyama Y, Mehdian H, Schwab F, Carreon L , Shaffrey C, Kebaish .Early Postoperative Surgical Site Infections in the Scoli-Risk 1 Cohort of Complex Spinal Deformity Patients Still Allowed For Improved Health Related Quality of Life Outcomes at 2 Year Follow-Up. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
574. Carreon L , Glassman S, Shaffrey C, Fehlings M, Dahl B, Ames C, Matsuyama Y, Qiu Y, Mehdian H, Cheung K, Schwab F, Pellisé F, Kebaish, **Lenke LG**. Predictors of Health-related Quality-of-Life After Complex Adult Spinal Deformity Surgery: A Scoli-RISK-1 Secondary Analysis. 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
575. KimYC, **Lenke LG**, Kim TH, Jang C, Kim YW, Chang HG , Gum J, Wilartratsami S, BlankeK. Does Coronal or Sagittal Correction for Adult Spinal Deformity More Significantly Affect Acetabular Coverage? 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
576. Jain A, Kelly M , Samdani A, **Lenke LG**, Lonner B, Shah S, Newton P, Marks M, Sponseller PAre Health Related Quality of Life Outcomes Stably Maintained Between 1-Year and 5-Year Follow-up in Surgically Treated Patients with Adolescent Idiopathic Scoliosis? 51st SRS Annual Meeting & Course, Prague, Czech Republic,September 21 - 24, 2016
577. Cazzulino A, Holekamp T, Riew KD, **Lenke LG** , Seetharaman M, Lehman RA. Bone Density Decreases from the Cervical Spine to the Sacrum: Correlation of DXA and Hounsfield Units using Computed Tomography (CT). American Academy of Orthopaedic Surgeons 2017 Annual Meeting, San Diego, California, March 14-17,2017
578. Jain A, Kebaish J, **Lenke LG**, Carreon L, Ames C, Shaffrey C, Fehlings M, Dahl B, Schwab F, Kebaish K. Impact of Depression on Health Related Quality of Life Outcomes in Surgically Treated Adult Spinal Deformity Patients. American Academy of Orthopaedic Surgeons 2017 Annual Meeting, San Diego, California, March 14-17,2017
579. Planned staged surgery for severe pediatric spinal deformity does not reduce complications within 90 days of surgery: A prospective matched cohort study. SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
580. Comprehensive Complication Classification for Adult Spinal Deformity: Impact on Patient Outcomes. SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
581. Who Gets Staged Surgery in Severe Pediatric Spinal Deformity? SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
582. Pre-operative Halo-Gravity Traction: Can it Replace a Vertebral Column Resection? SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
583. Gupta MC, **Lenke LG**, Boachie-Adjei O, Cahill PJ, Garg S, Samdani AF, Shufflebarger HL, Sides BA, Sponseller PD, Kelly MP . High Rate of Intraoperative Monitoring (IOM) Alerts in 176 Severe Pediatric Deformity Patients and its Relationship to the Deformity Angularity Ratio (DAR). SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
584. Marked Increase in Long Fusion Constructs throughout the United States over a Recent Decade. SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
585. The Role of Pelvic Parameters on S2 Alar-Iliac (S2AI) Screw Trajectory. SRS 52nd Annual Meeting & Course, Philadelphia, Pennsylvania, September 6-9, 2017
586. Laratta JL, Shillingford JN, Saifi C, Lombardi JM, Lehman RA**, Lenke LG**. The Rise and Fall of Bone Morphogenetic Protein. North American Spine Society (NASS) Annual Meeting, Orlando, Florida , October 25th -28th
587. Laratta JL, Shillingford JN, Saifi C, Lombardi JM, Lehman RA, **Lenke LG**. The Unprecedented Increase in Neuromonitoring Utilization over a Recent Decade. North American Spine Society (NASS) Annual Meeting, 2017, Orlando, Florida , October 25th -28th
588. Laratta JL, Kaushal NK, Shillingford JN, Lombardi JM, Saifi C, Lehman RA, **Lenke LG**. Pediatric Spinal Fusion Procedures have Massively Increased Throughout the United States over a Recent Decade. North American Spine Society (NASS) Annual Meeting, 2017, Orlando, Florida , October 25th -28th
589. Laratta JL, Shillingford JN, Saifi C, Lombardi JM, **Lenke LG**, Lehman RA. Vertebroplasty and Kyphoplasty Utilization Trends throughout the United States. North American Spine Society (NASS) Annual Meeting, 2017, Orlando, Florida , October 25th -28th
590. Laratta JL, Shillingford JN, Saifi C, Lombardi JM, **Lenke LG**, Lehman RA. Outpatient Spinal Fusion: The New Frontier. North American Spine Society (NASS) Annual Meeting, 2017. Orlando, Florida , October 25th -28th
591. Laratta JL, Shillingford JN, Lombardi JM, **Lenke LG**, Lehman RA. Hospital Readmission following Spinal Fusion throughout the United States. North American Spine Society (NASS) Annual Meeting, 2017, Orlando, Florida , October 25th -28th
592. Laratta JL, Shillingford JN, Lombardi JM, Saifi C, Lehman RA**, Lenke LG**, Riew KD. Tobramycin Powder Eradicates Spinal Wound Contamination: An in Vivo Rabbit Model. North American Spine Society (NASS) Annual Meeting, 2017, Orlando, Florida , October 25th -28th
593. Osorio JA, Lin JD, Cerpa M, Morr S, Baum GR, **Lenke LG** .Can We Predict Postoperative Sagittal Lumbar Alignment from Intraoperative Prone-Positioned Radiographs? 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
594. Lin JD, Menger RP, Cerpa M, Baum GR, Morr S,**Lenke LG.** Avoiding Challenging and Potentially Dangerous Pedicle Screws: Leaving out the Proximal Thoracic Concave Apical Screw(s) in Adolescent Idiopathic Scoliosis (AIS). 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
595. Osorio JA, Lin JD, Menger RP, Cerpa M, Baum GR, Morr S, **Lenke LG**. Leaving Screw Out In PT Curve In AIS. 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
596. Makhni MC, Park PJ, Cerpa M, Lin J , **Lenke LG.**The Novel “Kickstand Rod” Technique for Correction of Coronal Imbalance in Pediatric and Adult Spinal Deformity Patients. 26th International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019, Amsterdam, the Netherlands.
597. Lee NJ, Joshua Li X, Cerpa M, Leung E, Sardar ZM, , Lehman RA, **Lenke LG**. Development of a Surgeon Specific Risk Stratification Model for Complex Adult Spinal Deformity Surgery. SRS 54th Annual Meeting September 18-21, 2019,Montréal, Canada.
598. Ha A, Blake R, Levitsky M, Konigsberg,Boddapati V, Cerpa M, **Lenke LG**. The Varus Knee Phenomenon in Spine Deformity Patients. North American Spine Society 34th Annual Meeting, September 25-28, 2019, Chicago, IL
599. Ha A, Tuchman A, Mathew J, Lee NJ, Cerpa M, Benkli B, Lombardi J, **Lenke LG**. Novel Intraoperative Coronal Radiographic Parameter for Adult Spinal Deformity & The Varus Knee Phenomenon in Spine Deformity Patients. The 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
600. Park P, Beauchamp EC, Cerpa M, Makhni M, Sielatycki, Lee NJ, Lehman RA, **Lenke LG** Can Ketamine Decrease Postoperative Opiod Use following Adult Spinal Deformity Surgery. The 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
601. Beauchamp E, Sielatycki A, Lombordi J, Shimizu T, Zhou R, Liu X, Cerpa M, **Lenke LG**, Harm Study Group.Can Surgeons Agree on Radiographic and Clinical Shoulder Balance in Adolescent Idiopathic Scoliosis Patients? The 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
602. A National Perspective on the Morbidity and 90Day Readmission Risk for Patients with Ossification of the Posterior Longitudinal Ligament Undergoing Cervical Spine Surgery. 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
603. Lee NJ, McCormick KL, Hong D, Kim JS, Lombardi JM, Roye BD, **Lenke LG**, Fields M .The Morbidity, Readmissions, and Cost for Pediatric Cerebral Palsy Patients Undergoing Primary Spinal Fusion Surgery: A National Analysis on 2,779 Patients. 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
604. Spinal Deformity Surgery for Pediatric Patients with Marfan Syndrome: A Nationwide Assessment on Short-term Outcomes and Readmission Risk. 27th International Meeting on Advanced Spine Techniques April 1-4, 2020, Athens, Greece
605. Ha A, Sardar Z, Barum G, Cerpa M, Lombardi J, **Lenke LG**. Can a Partial Intraoperative GAP Score Predict Postoperative Mechanical Failure and Serve as a Target During Surgery? Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
606. Morr S, Cerpa M, Osorio J, Lin J, Baum G, Sardar Z, Menger R, Lehman RA, **Lawrence LG**.C2-SVA: When Angles are too Complicated and the X-Ray is too Small. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
607. Menger R, Park P, Konigsberg M, **Lenke LG**, Vitale M.Choice of Lowest Instrumented Vertebra in Adolescent Idiopathic Scoliosis: Discordance in Stable Sagittal Vertebra and Coronal Last Touched Vertebra. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
608. Baum G, Cerpa M, Lin J, Menger R, Morr S, Osorio J, Fernandes F, Kang KC, Kim H, Lin W, Liu X, Shah S, Tang S, Lie Z, Lehman RA, **Lenke LG**. Left or Right, I Just Don't Know!: Weak Agreement Between Preoperative Clinical Pictures and X-Rays for Determination of Shoulder Balance and UIV Selection in Adult Idiopathic Scoliosis. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
609. Baum G, Ha A, Cerpa M, Lin J, Osorio J, Menger R, Morr S, Leung E, Lehman RA, Zeeshan S, **Lenke LG**.Does the Global Alignment and Proportion Score Overestimate Mechanical Complications After Adult Spinal Deformity Correction? Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
610. Ha A, MD. Lee N, Blake R, Matthew J, Cerpa M, **Lenke LG**.Can Spinal Deformity Patients Maintain Proper Arm Position in Full Length Standing Films? Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
611. Gelfand, Lin J, De la Garza Ramos R, Osorio J, Baum G, Morr S, **Lenke LG**.Predictors of 30-day Complications in Deformity Surgery Patients: a National Database Study. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil
612. Comparing 30-day Complications for Deformity Correction Surgery in Patients Older and Younger than 55. Global Spine Congress (GSC) May 20-23, 2020 , Rio de Janeiro, Brazil

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1. Park PJ, Morrissette C, Lee NJ, Cerpa M, Kim HJ, **Lenke LG**..The Posterior Cranial Vertical Line (PCVL): A Novel Classification System for Defining Global Sagittal Alignment. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
2. **Lombardi J, Lee J, VivasA , Kim J, Riedler J, Cerpa M, Lehman R, Lenke LG.Worse Preoperative Health-Related Quality of Life Scores (HRQOL) are Predictive of Achieving Minimum Clinically Important Differences (MCID) in Oswestry Disability Index (ODI) at 1- and 2- Years After Complex Adult Spinal Deformity (ASD) Surgery.** SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
3. **Lenke LG.** Building and Advocating Dedicated Spine Teams: Anesthesia and OR. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
4. Lewis S, Qiu Y, **Lenke LG**, Kelly MP, De Kleuver M, Dahl B, Shaffrey C, Spruit M, Pellisé F, Cheung K, Alanay A, Polly D, Sembrano J, Matsuyama Y, Berven SH. SRS-22r Score of a Prospective Evaluation of Elderly Deformity Surgery: A Prospective Observational, Multicenter Study. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
5. Mitchell B, Skaggs D, **Lenke LG**, Bastrom T, Bartley C, Newton P .Preoperative LIV Translation and LIV Tilt are Risk Factors for Adding-On in Lenke 1/2AR Curves. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
6. Smith J, Kelly M, Yanik E, Baldus, Buell T,  Lurie J, Edwards C, Glassman, **Lenke LG**, Boachie-Adjei, Buchowski, Carreon, Crawford III C, Lewis S, Koski T, Parent S, Lafage V, Gupta M,  Kim HJ, Ames C, Bess S, Schwab F, Shaffrey C, Bridwell K. Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis at 5-6 Year Follow-Up: Outcomes and Impact of Related Serious Adverse Events.SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
7. Gupta M, **Lenke LG**, Boachie O, Bumpass D, Erickson, Garg S, McCarthy, Newton P, Pahys J, Samdani A, Shah, Shufflebarger J, Sponseller P, Sucato D, Yaszay B, Sides E, Kelly M, FOX . Surgery for Severe Pediatric Spinal Deformity Results in Improved Spinal Appearance Questionnaire Scores at 2 Years. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
8. Lewis S, Qiu Y, **Lenke LG**, Kelly MP, De Kleuver M, Dahl B, Shaffrey C, Spruit M, Pellisé F, Cheung K, Alanay A, Polly D, Sembrano J, Matsuyama Y, Berven SH. Change in Oswestry Disability Index at 24 months following Multilevel Spinal Deformity Surgery in Patients over 60 years of age: A Multicenter International Prospective Study. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
9. Kim JS, Arvind V, Schwartz JT, Valliani A, Geng E, Lee NJ, Lombardi JM, Vivas AC, Reidler JS, Zuckerman JD, Cho B, Vulapalli M, Cho SK, Lehman RA , **Lenke LG**, Riew KD .Natural language processing of operative note dictations to automatically generate CPT codes for billing. North American Spine Society 35th Annual Meeting, October 7-10, 2020, San Diego, CA.
10. Kim JS, Lee NJ, Lombardi JM, Vivas A, Zuckerman JD, Reidler JS, MD, Cerpa M, Leung E, Lehman RA , **Lenke LG**.Extended length of stay after complex adult spinal deformity surgery: predictors and impact on clinical and patient-reported outcomes. North American Spine Society 35th Annual Meeting, October 7-10, 2020, San Diego, CA.
11. **Lenke LG**. Femoral Head to Lower Lumbar Neural Foramen Distance and Postoperative Neuropraxia in Adult Degenerative Spine Patients. 2020 Lumbar Spine Research Society 13th Annual Meeting, November 12-15, 2020, Virtual
12. Ball JR, Konigsberg MW, Plachta S, Fields MW, Matsumoto H, Roye BD, Arora S, Roye DP, **Lenke LG**, Skaggs DL, Vitale MG . Variability in Stable Sagittal Vertebra (SSV) During Full-Length Biplanar X-rays can Affect the Choice of Fusion Levels in Patients with Adolescent Idiopathic Scoliosis. American Academy of Orthopaedic Surgeons 2021 Annual Meeting, March 9 - 13 in San Diego, CA
13. Ha A, Mathew J, Zuckerman SL, Buchanan I, Kerolus M, Cerpa M, Lombardi JM, Dryszka M, Sardar Z, Lehamn RA, **Lenke LG.** C2 Pelvic Angle (C2PA) is a Useful Radiographic Parameter that Correlates with Clinical Outcomes of Symptomatic Proximal Junctional Kyphosis. Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
14. Kerolus MG, Zuckerman SL, Buchanan IA, Ha A, Iyer R, Cerpa M, Lombardi JM, Lehman RA, Riew D, **Lenke LG**. Does Upper Instrumented Vertebrae Selection Influence 2-Year Postoperative Cervical Sagittal Range of Motion Following Thoracolumbar Spinal Deformity Surgery Starting in the Upper Thoracic Region? Scoliosis Research Society (SRS) 56th Annual Meeting St. Louis, Missouri, USA September 22-25, 2021.
15. The PCVL: A Novel, Immediate Postoperative Predictor for Proximal Junctional Kyphosis in Spinal Deformity Surgery. Global Spine Confernce 2021, Paris, France, November 3-6, 2021
16. Mathew J, Zuckerman S, Marciano G, Simhon M, Lee N, Boddapati V, Cerpa M, Lehman R, Sardar Z, Dryszka M, Lombardi J, **Lenke LG**. How is Life With a C2-Sacrum Instrumentation and Fusion? Evaluation by Health Related Quality of Life Metrics. AAOS 2022 Annual Meeting, Chicago, IL, March 22 – 26, 2022
17. Coury JR, Shen Y, Cerpa M, Lee N, Weidenbaum M, Sardar ZM, **Lenke LG** . Efficacy of Fracture Risk Assessment Tool (FRAX) Criteria in Identifying Osteoporosis and Osteopenia in an Adult Spinal Deformity Population. 29th International Meeting on Advanced Spine Techniques (IMAST), Miami, Florida, April 6-9, 2022.
18. Lomardi J, Morrisette C, Salleb-Aouissi A, Mohamed A, Shreedhar Inamdar A, **Lenke LG** .Predicting Proximal Junctional Kyphosis Using Machine Learning in Patients Undergoing Adult Spinal Deformity Surgery. 29th International Meeting on Advanced Spine Techniques (IMAST), Miami, Florida, April 6-9, 2022.
19. Mathew J, Zuckerman S, Marciano G, Simhon M, Lee N, Boddapati V, Cerpa M, Lehman R, Sardar Z, Dryszka M, Lombardi JM, **Lenke LG**. What Radiographic and Clinical Factors Ultimately Lead to a C2-Sacrum Instrumented Spinal Fusion? Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
20. Mathew J, Zuckerman S, Marciano G, Simhon M, Lee N, Boddapati V, Cerpa M, Lehman R, Sardar Z, Dryszka M, Lombardi JM, **Lenke LG** .C2-Sacrum Instrumented Fusion Has Been Performed--What's Next? Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
21. Mathew J, Zuckerman S, Marciano G, Simhon M, Lee N, Boddapati V, Cerpa M, Lehman R, Sardar Z, Dryszka M, Lombardi JM, **Lenke LG** .How is Life With a C2-Sacrum Instrumented Fusion? Evaluation by Patient Reported Outcomes. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
22. Shen Y, Sardar Z, Le Huec JC, Bourret S, Hasegawa K, Wong H, Liu G, Hey HW, Riahi H, Kelly M, **Lenke LG**.Variation in Lumbar Shape and Lordosis in a Large Asymptomatic Population: Multi-Ethnic Alignment Normative Study (MEANS). Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
23. Coury JR, Shen Y, Cerpa M, Lee N, Weidenbaum M, Sardar ZM, **Lenke LG** .Efficacy of the National Osteoporosis Foundation (NOF) Criteria in Identifying Osteoporosis and Osteopenia in an Adult Spinal Deformity Population. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
24. Coury JR,Shen Y, Cerpa M,Lee N,Weidenbaum M, Sardar ZM, **Lenke LG**. Central Sacral Pelvic Line (CSPL) is a Useful Radiographic Parameter that Correlates with Clinical Outcomes of Coronal Balance after Spine Deformity Surgery. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
25. Ha A, Mathew J,Ferrer X,Coury J,Luzzi A,Hog D, Zuckerman S, Buchanan I, Kerolus M,Cerpa M, Lombardi J,Dyrszka M,Sardar Z, Lehman R, **Lenke LG**. C2 Pelvic Angle (C2PA) is a Useful Radiographic Parameter that Correlates with Clinical Outcomes of Symptomatic Proximal Junctional Kyphosis. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
26. Ha A, Mathew J,Ferrer X,Coury J,Luzzi A,Hog D, Zuckerman S, Buchanan I, Kerolus M,Cerpa M, Lombardi J,Dyrszka M,Sardar Z, Lehman R, **Lenke LG** . C2 Pelvic Angle (C2PA) is a Useful Intraoperative Radiographic Parameter that Correlates with the Risk of Developing Proximal Junctional Kyphosis Postoperatively. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
27. Ha A, Mathew J, Blake R, Konigsberg M, Hammoor B,Voddapati V, Cerpa M, **Lenke LG**. The Varus Knee Phenomenon in Spinal Deformity Patients. Global Spine Congress (GSC), Las Vegas, NV, June 1-4, 2022
28. Lin J, Mathew J, Lee N, Osorio J, Marciano G, Lombardi J, Sardar Z, Lehman R, **Lenke LG**.A New Sensitive Radiographic Criteria for Differentiation Between Adult Idiopathic Versus Degenerative Lumbar Scoliosis: Apical Pedicle Diameter Asymmetry. Global Spine Congress, Las Vegas, NV, June 1-4, 2022.
29. Scheer, Gupta, Kim, Lafage, Klineberg, Schwab, Burton, Hart, Gum, Kelly, Passias, Kebaish, Line, Protopsaltis, Shaffrey, Smith, **Lenke LG**, Bess, Ames, ISSG. Objective Physical Frailty Variables and Their Relationship to Short-Term Complications in Adult Spinal Deformity Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
30. Mo, Kebaish, Passias, Williamson, Vedat Deviren, MD; Kristen Roles, MS; Sarah Acselrod, BA candidate; Brenda Sides, MA; Hostin, Gum, Protopsaltis, Daniels, Samrat, Renaud Lafage, Ames, Klineberg, Hamilton, Schwab, Burton, Soroceanu, Kim, Hart, Kelly, Line, Virginie Lafage, Shaffrey, Smith, Bess, **Lenke LG**, Gupta, ISSG. A Comparative Analysis of Racial Disparities in Nationally Derived Hospital Data and Two Prospective Multicenter Surgical Databases of Adult Spinal Deformity Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
31. Diebo, Alsoof, Lafage R, Passias, Ames, Shaffrey, Burton, Deviren, Line, Soroceanu, Hamilton, Klineberg, Mundis, Kim, Gum, Smith, Uribe, Kelly, Kebaish, Gupta, Nunley, Eastlack, Hostin, Protopsaltis, **Lenke LG**, Hart, Schwab, Bess, Lafage V, Daniels, ISSG. Global Alignment and Surgical Outcomes of Adult Spinal Deformity Patients with Total Hip Arthroplasty. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
32. Ani, Fares; Protopsaltis, Themistocles; Parekh, Yesha; Odeh, Khalid ; > Lafage, Renaud; Smith, Justin; Eastlack, Robert; **Lenke LG**; Schwab, Frank ; Mundis, Gregory; Gupta, Munish; Klineberg, Eric; Lafage, Virginie; Hart, Robert; Burton, Douglas; Ames, Christopher; Shaffrey, Christopher; Bess, Shay; International Spine Study Group. Determining The Best Vertebra For Measuring Pelvic Incidence And Spinopelvic Parameters In Transitional Anatomy. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
33. Puvanesarajah V, Marciano GF, Hassan FM, Lee NJ, Thuet ED, Lombardi JM, Sardar ZM, Lehman RA**, Lenke LG**. The Deformity Angular Ratio: Can Three-Dimensional Ct Improve Prediction Of Intraoperative Neuromonitoring Events? Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
34. Park PJ, Morrissette C, Hassan F, Lee N, Cerpa M, Kim HJ, Sardar ZM, **Lenke LG**. The Posterior Cranial Vertical Line (Pcvl): A Novel Radiographic Marker For Classifying Global Sagittal Alignment. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
35. Scheer JK, Gupta MC, Kim HJ, Lafage V, Klineberg EO, Schwab FJ, Burton DC, Hart RA, Gum JL, Kelly MP, Passias PG, Kebaish KM, Line BG, Protopsaltis TS, Shaffrey CI, Smith JS, **Lenke LG**, Bess S, Ames CP, International Spine Study Group . Objective Physical Frailty Variables And Their Relationship To Short-Term Complications In Adult Spinal Deformity Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
36. Mo, Kebaish, Passias, Williamson, Vedat Deviren, MD; Kristen Roles, MS; Sarah Acselrod, BA candidate; Brenda Sides, MA; Hostin, Gum, Protopsaltis, Daniels, Samrat, Renaud Lafage, Ames, Klineberg, Hamilton, Schwab, Burton, Soroceanu, Kim, Hart, Kelly, Line, Virginie Lafage, Shaffrey, Smith, Bess, **Lenke LG**, Gupta, ISSG. A Comparative Analysis of Racial Disparities in Nationally Derived Hospital Data and Two Prospective Multicenter Surgical Databases of Adult Spinal Deformity Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
37. Fourman M, Bess S, Kelly MP, Klineberg EO, Hamilton DK, Ames CP, Burton DC, Daniels AH, Lafage R, **Lenke LG**, Passias PG, Protopsaltis TS, Lewis SJ, Kebaish KM, Kim HJ, Hostin R, Gum JL, Gupta MC, Schwab FJ, MD; Shaffrey CI, Smith JS, Lafage V, International Spine Study Group. Social And Economic Deprivation Does Not Negatively Impact Pre-Operative Promis Scores For Adult Spine Deformity. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
38. Ani F, Protopsaltis TS, Walia A, Lafage R, Soroceanu A, Smith JS, Kelly MP, P Hamilton DK, K, **Lenke LG,** Ames CP, Klineberg EO, Hart RA, Burton DC, Schwab FJ, Shaffrey CI, Bess S, Lafage V, International Spine Study Group . Using Normative Pelvic Tilt To Determine Pelvic Compensation, Overcorrection/Undercorrection, And Their Effect On Outcomes And Pjf After Asd Surgery. Scoliosis Research Society 57th Annual Meeting, Stockholm, Sweden, September 14-17, 2022
39. Renaud Lafage; Mitchell S. Fourman; Bess; Burton; Daniels; Gupta; Hostin; Kebaish; Ames; Kelly; Kim; Klineberg; **Lenke LG**; Lewis; Passias; Protopsaltis; Shaffrey; Smith, Justin; Schwab; Virginie Lafage; ISSG. Can AI Identify Patterns of Complex Adult Spinal Deformity with Distinct Perioperative Outcomes? NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
40. Fthimnir Hassan, **Lenke LG**, Burton, Daniels, Gupta, Hostin, Kebaish, Kelly, Kim, Klineberg, Lewis, Passias, Protopsaltis, Schwab, Shaffrey, Smith, B. Line, R. Lafage, V. Lafage, Bess; ISSG. Neurologic Outcomes of Adult Spinal Deformity Patients with Baseline Preoperative Lower Extremity Weakness: Will they Improve Following Surgery? NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
41. Renaud Lafage; Jonathan Elysee; Themi; Passias; Kim; Alex Soroceanu; Bret; Mundis; Shaffrey; Ames; Klineberg; Gupta; Burton; **Lenke LG**; Bess; Smith, Justin; Schwab; Virginie Lafage; ISSG. Mechanisms of Lumbar Spine “Flattening” in Adult Spinal Deformity: Defining Changes in Shape that Occur Relative to a Normative Population. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
42. Coury J, Paskey T, Roye BD, **Lenke LG**, Vitale MG. Decreasing the Rate of Allogenic Blood Transfusions at Columbia for Adolescent Idiopathic Scoliosis (AIS) Patients. NASS 37th Annual Meeting, Chicago, Illinois, October 12-15, 2022
43. Coury J, Sardar Z, Ren M, Shen Y, Vitale M, Roye B, Lombardi J,  **Lenke LG**.The Rate of Major Complications in Lenke Type 5 and 6 Adolescent Idiopathic Scoliosis Deformity Correction is Low but Back Pain is Common. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022
44. Coury J, Sardar Z, Ren M, Shen Y, Vitale M, Roye B, Lombardi J,  **Lenke LG**. Decreasing the Rate of Allogenic Blood Transfusion in Adolescent Idiopathic Scoliosis Deformity Surgery. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022
45. Coury J, Sardar Z, Ren M, Shen Y, Vitale M, Roye B, Lombardi J,  **Lenke LG**. Thoracic Kyphosis Increases but Cervical or Lumbar Lordosis Does Not Change Through the Unfused Segments After Surgical Correction of Lenke Type 5 and 6 Curves. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022
46. Patient Reported Function Outcomes Versus Objective Fitness Assessments: Are Patients Telling the Truth About Their Fitness Level? Global Spine Congress, May 31 - June 3, 2023
47. Prospective Enrollment of Primary vs. Revision Adult Spinal Deformity Patients: Are They Different in Their Preoperative Characteristics, Intraoperative Techniques Utilized, and Early Postoperative Complications? Global Spine Congress, May 31 - June 3, 2023
48. Hassan, Fthimnir; **Lenke, Lawrence**; Berven, Sigurd; Kelly, Michael ; Smith, Justin; Shaffrey, Christopher; Dahl, Benny; de Kleuver, Marinus; Spruit, Maarten; Pellise, Ferran; Cheung, Kenneth; Alanay, Ahmet; Polly, David; Sembrano, Jonathan; Matsuyama, Yukihiro; Qiu, Yong; Lewis, Stephen. Independent Prognostic Factors Associated with Improved Patient-Reported Outcomes in the Prospective Evaluation of Elderly Deformity Surgery (PEEDS) Study: Can We Identify "the Winners"? Global Spine Congress, May 31 - June 3, 2023
49. What is the Value of Measuring Intraoperative Coronal Alignment for Adult Spinal Deformity Patients with Coronal Malalignment? Global Spine Congress, May 31 - June 3, 2023
50. Use of a Kickstand Rod Improves Coronal Alignment and Maintains Correction Compared to Control at Two-Year Follow-Up. Global Spine Congress, May 31 - June 3, 2023
51. The Association of Race with Outcomes and Procedural Administration in Cervical Spine Trauma. Global Spine Congress, May 31 - June 3, 2023
52. Evaluation of the Odontoid-Coronal Vertical Axis Line in Coronal Alignment in a Symptomatic Cohort. 58th Annual Meeting, Seattle, Washington, September 6-9, 2023
53. Sarthak Mohanty, Andrew Platt, Joseph Lombardi, Cole Morrissette, Fthimnir Hassan, Erik Lewerenz, Chris Mikhail, Stephen Stephan, Josh Baksheshian, Zeeshan Sardar, Ronald Lehman, **Lenke LG**. Proximal junctional kyphosis(PJK) and pseudoarthrosis are the most common reasons for reoperation following adult deformity surgery – which has worse outcomes? NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
54. Yong Shen, Zeeshan M. Sardar, Fthimnir M. Hassan, Scott L. Zuckerman, Christopher S. Lai, **Lenke LG**.Evaluation of the Novel Odontoid-Coronal Vertical Axis Line in Coronal Alignment. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
55. Stephen Stephan, Fthimnir M. Hassan, Christopher Mikhail, Andrew Platt, Joseph M. Lombardi, Zeeshan M Sardar, Ronald A Lehman, **Lenke LG**. Revision of Harrington Rod Constructs: Are Patient Outcomes and Complication Rates as Good as We Think? NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
56. Sarthak Mohanty, Andrew Platt, Joseph M. Lombardi, Cole Morrissette, Fthimnir M. Hassan, Erik Lewerenz, Christopher Mikhail, Stephen Stephan, Josh Baksheshian, Zeeshan Sardar, Ronald Lehman, **Lenke LG**. Proximal Junctional Kyphosis & Pseudoarthrosis Are the Most Common Reasons for Reoperation Following Adult Deformity Surgery – Which has Worse Outcomes? NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
57. Mir, Passias, Lafage, Smith, Tretiakov, Dave, Line, Diebo, Daniels, Gum, Themi, Hamilton, Buell, Soroceanu, Scheer, Eastlack, Mullin, Mundis, Hosogani, Yagi, Kelly, Park, Nunley, Chou, Mumaneni, Klineberg, Khabeish, Lewis, Hostin, Gupta, HJK, Ames, Hart, **Lenke LG**, Shaffrey, Bess, Schwab, Lafage, Burton, ISSG.What Degree of Malalignment Justifies Performance of Three Column Osteotomy in Revision Lumbar Spinal Fusion? NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
58. Jeffrey Mullin, MD, Jeffrey L. Gum, MD, Mohamed Soliman MD, Breton Line, BSME, Shay Bess, MD, **Lawrence G. Lenke**,MD, Renaud Lafage, MS, Justin S. Smith, MD, PhD, Michael P. Kelly, MD, Bassel Diebo, MD, Thomas J Buell, MD, Justin K Scheer, MD, Virginie Lafage, PhD, Eric Klineberg, MD, Han Jo Kim, MD, Khaled Kebaish, MD, Robert Eastlack, MD, Alan Daniels, MD, Stephen Lewis, MD, David Okonkwo, MD, Alex Soroceanu, MD, Gregory Mundis, MD, Richard Hostin, MD, Themistocles S. Protopsaltis, MD, D. Kojo Hamilton, MD, Munish Gupta, MD, Frank J Schwab, MD, Christopher I. Shaffrey, MD, Christopher P. Ames, MD, Peter Passias, MD, Douglas Burton, MD, International Spine Study Group. Utilization of TXA in ASD Patients with PotentialContraindications for TXA does NOT Lead to Increased Thromboembolic Complications: Critical Information for Surgical and Anesthesia Teams. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
59. Burton D, Bess S, Shaffrey C, Lewis S, Line B, **Lenke LG**, Klineberg, Ames C, Eastlack R, Mundis G, Gum J, Hamilton DK, Lafage V, Lafage R, Daniels A, Gupta M, Kelly M, Passias P, Protopsaltis T, Kebaish K, Kim HJ, Schwab F, Smith J, ISSG. Self-Image Is Underestimated as a Primary Driver for Patient Treatment and Surgical Satisfaction In Adult Spinal Deformity (ASD). NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023
60. Passias, Tretiakov, Mir, Dave, Lafage, Smith, Line, Diebo, Daniels, Gum, Themi, Hamilton, Buell, Soroceanu, Scheer,

Eastlack, Mundis, Hosogani, Yagi, Kelly, Turner, Kanter, Fessler, Fu, Khabeish, Lewis, Hostin, Gupta, HJK, Ames, Hart,**Lenke LG**, Shaffrey, Schwab, Lafage, Klineberg, Bess, Burton, ISSG. Identifying Tranexamic Acid Dosing Predictive of Decreased Risk of Intra-Operative Transfusion Accounting for Body Mass Index

and Surgical Invasiveness in Complex Adult Spinal Deformity Surgery. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023

1. Passias, Tretiakov, Mir, Dave, Lafage, Smith, Line, Diebo,Daniels, Gum, Themi, Hamilton, Buell, Soroceanu, Scheer,

Eastlack, Mundis, Hosogani, Yagi, Kelly, Turner, Kanter, Fessler, Fu, Khabeish, Lewis, Hostin, Gupta, HJK, Ames, Hart, **Lenke LG**, Shaffrey, Schwab, Lafage, Klineberg, Bess, Burton, ISSG. Identifying Tranexamic Acid Dosing Predictive of Decreased Risk of Intra-Operative Transfusion Accounting for Body Mass Index and Surgical Invasiveness in Complex Adult Spinal Deformity Surgery. NASS 38th Annual Meeting, Los Angeles, CA, October 18-21, 2023

## XIV. Meeting/Course Faculty/Guest Lecturer/Invited Speaker

1. Low Back and Sciatica Pain Symposium, St. Louis, MO, May 18, 1990.

History and physical examination of the patient with low back pain and sciatica

1. Low Back and Sciatica Pain Symposium, St. Louis, MO, May 17, 1991.

History and physical examination of the patient with low back pain and sciatica

1. 2nd Annual Practical Anatomy Workshop: Spinal Surgery Fracture Fixation Course, St. Louis, MO, April 1992.
   * Cotrel-Dubousset instrumentation for thoracolumbar fractures
2. National Association of Orthopaedic Nurses, St. Louis Branch, St. Louis, MO, May 1992.
3. The surgical treatment of thoracolumbar burst fractures
4. 2nd Annual Spine Surgeon Transition Program’s Spine+Science+Management, Sofamor-Danek Group, New Orleans, LA, November 1992.
5. Lumbar hemivertebra excision. Analysis of the technique Techniques in Spinal Instrumentation 1st Annual Meeting, New York, NY, December 1992.
   * Recognition and treatment of double thoracic idiopathic scoliosis
6. 3rd Annual Practical Anatomy Workshop: Spinal Fracture Fixation, St. Louis, MO, March 15-20, 1993.
   * Part I: Cervical Spine Trauma: 3-D Video Demonstration – Hands-on Laboratory
   * Occipitocervical fusion techniques
   * Posterior C1-C1 wiring techniques: Gallie, Brooks, Songer cables
   * Posterior subaxial wiring techniques: Roger’s wiring, Bohlman’s triple wiring, facet wiring
   * Part II: Thoracolumbar Spine Trauma: 3-D Video Demonstration – Hands-on Laboratory
   * Posterior thoracolumbar segmental spinal fixation
   * Cotrel-Dubousset pedicle screws, rods and hooks
   * Texas Scottish Rite pedicle screws, rods and hooks
   * VSP plating techniques
   * Posterolateral decompression techniques
7. Treatment of Surgical Spine Disease Symposium, St. Louis, MO, March 1993.
   * Surgical treatment of spinal stenosis
   * Panelist - Pediatric Scoliosis

Panelist - Degenerative Spine

1. Clinical Conference of the Southwest Clinical Society 71st Fall Meeting, Kansas City, MO, November 1993.

Evaluation and management of low back pain and sciatica

1. National Association of Orthopaedic Nurses Annual Meeting, St. Louis, MO, November 1993.
   * Treatment of thoracolumbar burst fractures
2. 4th Annual Practical Anatomy Workshop: Cervical, Thoracic, and Lumbar Fracture Fixation, St. Louis, MO, May 1994.

C1-C2 instrumentation: sacral screw fixation

1. 5th Annual Practical Anatomy Workshop: Spinal Fracture Fixation, St. Louis, MO, May 1-5, 1995.
   * Anterior transthoracic approach to the spine
   * Thoracic and thoracolumbar fracture pattern analysis and treatment

Endoscopic principles and techniques

1. Anterior Scoliosis Study Group Meeting, Biedermann MOTECH, New York, NY, July 21-22, 1995.

Presentation of best case examples

1. National Marfan Foundation 10th Annual Meeting, St. Louis, MO, August 1995.

Orthopaedic spinal aspects of Marfan syndrome

1. Group International Cotrel-Dubousset XI Annual Meeting, Asheville, NC, September 1995.

Fixed pelvic extension with lumbar hyperlordosis in a spastic cerebral palsy patient. A case report

1. Scoliosis Research Society 39th Annual Meeting, Asheville, NC, September 1995.

Travelling fellow report to the SRS

1. Critical Care Conference Program 2nd Annual Meeting, Bonne Terre, MO, September 1995.

The clinical management of spinal cord injury

1. Illinois Academy of Family Practitioners, Mattoon, IL, November 1995.

Evaluation and management of adult low back pain

1. Practical Anatomy Workshop: Nursing and Paramedical Course, St. Louis, MO, November 1995.
   * Thoracolumbar spinal anatomy and pathology

Cervical spine anatomy and pathology

1. Anterior Scoliosis Study Group Meeting, Sofamor-Danek, Beaver Creek, CO, January 18-20, 1996.

Intra and interobserver reliability of using the King classification for idiopathic thoracic scoliosis

1. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Atlanta, GA, February 22-26, 1996.
   * ICL 218: Adult Spinal Deformity
   * Scoliosis (idiopathic and degenerative)
     + Kyphosis and revision surgery
2. Evolution of CD-Improvements and Methods in Instrumentation, Sofamor-Danek, New York, NY, March 1996.

CD-Horizon. Early experiences with complex adolescent scoliosis

1. Management of Chronic Pain Seminar, Washington University School of Medicine, St. Louis, MO, April 26, 1996.
   * Spine history and examination and treatment of lower back pain (LBP)
2. 6th Annual Practical Anatomy Workshop: Spinal Trauma, St. Louis, MO, September 9-12, 1996.
   * Thoracolumbar and lumbar spinal fracture patterns
   * Anterior vertebrectomy and spinal canal decompression

Anterior retroperitoneal approach to the mid-lumbar spine

1. Update on CD-Horizon Instrumentation, Sofamor-Danek, Ottawa, Canada, September 1996.

The surgical treatment of lumbar scoliosis with and without pelvic obliquity

1. Fingers-to-Toes Comprehensive Orthopaedic Review Course 1st Annual Meeting, St. Louis, MO, November 1996.
   * Evaluation and treatment of thoracic and lumbar back pain

Spondylolisthesis and kyphosis

1. 6th Annual Spine Surgeon Transition Program’s Spine+Science+Management, Sofamor-Danek, New Orleans, LA, November 1996.
   * Academic spinal surgery

Panelist - Complex Spine Case Presentations

1. Ski with the Spine Center 9th Annual Meeting, Whistler, British Columbia, Canada, January 1997.
   * Update on spinal cord monitoring

CD Horizon update and demonstration

1. Anterior Scoliosis Study Group, Sofamor-Danek, Beaver Creek, CO, January 23-25, 1997.
   * A new classification system for adolescent idiopathic scoliosis
   * Lumbar curve response to selective anterior vs. posterior spinal fusion in thoracic adolescent idiopathic scoliosis
   * Performance measures in adolescent idiopathic scoliosis undergoing ASF vs. PSF: A prospective evaluation

A radiographic grading system for surgical treatment of adolescent idiopathic scoliosis

1. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, CA, February 13-17, 1997.
   * ICL 107: Deformity of the Cervical Spine (4 mm Moss-Miami Product Introduction)
     + Results of adolescent idiopathic thoracic scoliosis treated with an anterior rigid rod
   * ICL 125: Spondylolysis and Spondylolisthesis
     + Treatment of high-grade spondylolisthesis
   * ICL 305: Adult Spinal Deformity: Scoliosis (Idiopathic and Degenerative and Kyphosis)
     + Conservative treatment and indications for surgical management in adult idiopathic scoliosis, degenerative scoliosis and kyphosis
   * ICL 405: Adult Spinal Deformity: Complications and Revision Surgery
     + Complications of adult spinal deformity surgery
2. Federation of Spine Associations 12th Annual Meeting, Scoliosis Research Society, San Francisco, CA, February 16, 1997.
   * Controversies in Adolescent Idiopathic Scoliosis Symposium
     + The crankshaft phenomenon: Who is really at risk?
3. Update on CD-Horizon Instrumentation, Sofamor-Danek, Miami, FL, April 1997.

Complex pediatric lumbar scoliosis with and without pelvic obliquity

1. Controversies in the Management of Pediatric and Adult Trauma, Deformity, and Spondylolisthesis, GICD, St. Louis, MO, May 8-10, 1997.
   * The pathology of spinal cord injury: Results of pharmacologic manipulation
   * Management of a “typical” adult spondylolisthesis
     + PRO-We can only help back pain by arthrodesis if it is associated with deformity (scoliosis, spondylolisthesis). We cannot help back pain caused by DDD without deformity
2. 4th International Meeting on Advance Spine Techniques, Scoliosis Research Society, Southampton, Bermuda, July 10-13, 1997.
   * Faculty - Round Table: Advanced Scoliosis Construct Strategies
   * Breakout Session 4 - Anterior instrumentation for thoracic idiopathic scoliosis with the 4- and 5-mm Moss-Miami System

Breakout Session 5 - Sacroiliac fixation techniques including intrasacral technique, S1 and S2 screws and Galveston screw technique

1. 7th Annual Practical Anatomy Workshop: Spine Fracture Fixation Course, St. Louis, MO, September 10-13, 1997.
   * Anterior corpectomy and spinal canal decompression

Anterior retroperitoneal approach to the mid-lumbar spine

1. Scoliosis Research Society 32nd Annual Meeting, St. Louis, MO, September 24, 1997.
   * New comprehensive 3-dimensional classification system of adolescent idiopathic scoliosis
   * Moderator - Techniques of Surgery
     + What progress have we made in treating spinal deformity in the last ten years?
2. Making Sense of Spinal Instrumentation, Spinal Science Advancement Foundation, Sofamor-Danek, Memphis, TN, October 18, 1997.
   * Spinal anatomy and surgical anatomy. Evolution of spinal instrumentation: From Harrington rods to the future
   * Hands-on Workshop - Anterior cervical trauma construct
   * Hands-on Workshop - Anterior thoracolumbar construct
   * Hands-on Workshop - Deformity construct
     + Hands-on Workshop - Degenerative construct
3. Fingers-to-Toes Comprehensive Orthopaedic Review Course for Primary Care Physicians 2nd Annual Meeting, St. Louis, MO, November 1997.

Office evaluation and treatment of low back pain

1. Harms International Scoliosis Study Group, Beaver Creek, CO, January 1998.
   * Anterior instrumentation. Update of functional analysis
   * Classification and treatment algorithms: New classification system update

Classification and treatment algorithms: Radiographic grading system

1. The 4th Annual International Course on Total Spine: Advanced Concepts and Constructs, Spinal Science Advancement Foundation, Sofamor-Danek, Cancun, Mexico, January 30-February 1, 1998.
   * Sacro-pelvic fixation: advanced techniques
   * Workshop - Sacro-pelvic fixation

Scoliosis correction techniques: posterior

1. American Academy of Orthopaedic Surgeons 65th Annual Meeting, New Orleans, LA, March 1998.
   * Annual Review and Update Course
     + Pediatric spinal deformities
   * ICL 141: An Eclectic Approach to Adolescent Scoliosis. A Comprehensive Approach to Adolescent Idiopathic Scoliosis Surgery
     + Curve classification and an overview of surgical management
     + Posterior instrumentation: The rod or screws
   * ICL 308: Spondylolysis and Spondylolisthesis
     + Treatment of high-grade spondylolisthesis
2. Advanced Scoliosis Constructs Course, DePuy AcroMed, New Orleans, LA, March 1998.

Results and outcome in anterior thoracic scoliosis correction

1. Japanese Traveling Fellowship Day, St. Louis, MO, March 1998.

Spontaneous lumbar curve correction in anterior vs. posterior selective thoracic fusion in adolescent idiopathic scoliosis

1. Spinal Surgery in Children and Adolescents, Miami Beach, FL, April 4,1998.
   * Classifying adolescent idiopathic scoliosis: King vs. alternatives
   * Indications for perioperative halo traction in severe pediatric spinal deformity
   * Perspective: Anterior or posterior in adolescent idiopathic spinal deformity surgery?
   * Indications and justification for pedicle screws in adolescent idiopathic deformity

Moderator - Congenital Scoliosis and Spondylolisthesis Sessions

1. 5th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Sorrento, Italy, May 1998.
   * Anterior thoracic instrumentation in adolescent idiopathic scoliosis

Demonstration and Round Table Discussion. Sacropelvic fixation: Advance techniques of 4-point fixation

1. Global Spine: Surgical Principles and the Latest Techniques, Spinal Science Advancement Foundation, Sofamor-Danek, Kamuela, HI, June 5-7, 1998.
   * Long fusions to the pelvis: Indications, techniques, and contraindication
   * Cantilever correction of scoliosis: Anterior vs. posterior techniques

Sacropelvic fixation: Advance techniques of four-point fixation

1. Making Sense of Spinal Instrumentation, Spinal Science Advancement Foundation, Sofamor-Danek, Memphis, TN, October 1998.

Spinal anatomy and surgical anatomy. Evolution of spinal instrumentation: From Harrington rods to the future

1. North American Spine Society 13th Annual Meeting, San Francisco, CA, October 1998.

Moderator - Scoliosis Session

1. Fingers-to-Toes Comprehensive Orthopaedic Review Course for Primary Care Physicians 3rd Annual Meeting, St. Louis, MO, October 1998.

Nonoperative treatment of back pain

1. Annual Review and Update Course, American Academy of Orthopaedic Surgeons, Philadelphia, PA, November 1998.
   * ICL: Review and Update for Practicing Orthopaedic Surgeons

Pediatric spinal deformities

1. 9th Annual Practical Anatomy Workshop: Spinal Fraction Fixation, St. Louis, MO, January 21-24, 1999.
   * Anterior corpectomy and spinal canal decompression

Anterior retroperitoneal approach to the mid and lower lumbar spine

1. American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999.
   * ICL 422: A Comprehensive Approach to Adolescent Idiopathic Scoliosis Surgery
     + A new surgical classification: Predicting and assessing treatment
2. The Spine: Skull to Sacrum/Birth to Old Age, St. Louis, MO, February 1999.
   * Congenital anomalies and syndrome scoliosis

Lumbar stenosis

1. Ski with Big Time Spine, Snowbird, UT, March 7-9, 1999.
   * Treatment algorithms as applied to the new comprehensive classification system of AIS
   * Prevalence of curves with the new and comprehensive classification of AI
   * Long fusions to the sacrum

Moderator - Adolescent Idiopathic Scoliosis Case Review

1. Practical Anatomy Workshop: TLIF Course, St. Louis, MO, June 1999.

L5 resection for spondyloptosis

1. 6th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Vancouver, British Columbia, Canada, July 8-10, 1999.
   * Anterior scoliosis correction strategies, including thoracoscopic, 2B
   * Saving distal fusion levels – Anterior screws in adolescent idiopathic scoliosis
   * Pedicle screw fixation in adolescent idiopathic scoliosis: Is there an anatomically viable and safe technique?
   * A new surgical classification of idiopathic scoliosis: Assessing and predicting treatment

Panelist - Spondylolisthesis: A. High-grade isthmic in children, B. Low-grade in the adult, RT

1. Practical Anatomy Workshop: Advanced Techniques in Cervical Spine Decompression & Stabilization, St. Louis, MO, August 20-22, 1999.

Anterior cervical surgery

1. CME Course, Scoliosis Research Society, San Diego, CA, September 22, 1999.

Moderator - Session III: Late Complications (Deformity – Pediatric) – Patient Selection

1. Complications in management of spinal disorders: How to avoid and how to improve the outcome

Tutorial - Anterior treatment of scoliosis, role of sagittal plane analysis and treatment, biomechanical rationale and data

1. American College of Surgeons Annual Meeting, October 1999.

Symposium - Anterior approaches to the spine – approaches for thoracic deformity

1. International Scoliosis Think Tank, Sofamor-Danek, Naples, FL, November 1999.

Tutorial - Sagittal analysis in the anterior treatment of idiopathic scoliosis, and sagittal spinal imbalance, causes and remedies

1. Big Time Spine, Ocean Reef, FL, November 17-20, 1999.
   * Long fusions to the sacrum
   * Sagittal spinal alignment and balance
   * Selective thoracolumbar scoliosis
   * Prospective comparison of radiographs in idiopathic scoliosis…What is the best indicator of correction?
   * Tutorial - A Comprehensive Approach to Adolescent Idiopathic Scoliosis Surgery
     + Curve classification in idiopathic scoliosis: Impact on decision making
   * Moderator - Round Table Discussion: Scoliosis Classification
   * Panelist - Round Table Discussion: Problems in Scoliosis

Moderator - Session III: Scoliosis

1. VII Annual Symposium Critical Issues in Surgery: Avoiding Complications and Improving Outcomes in Orthopaedic Surgery, St. Thomas, Virgin Islands, December 9-11, 1999.

Management of the severely traumatized spine patient: Critical issues in surgery

1. Total Spine: Advanced Concepts and Constructs 6th Annual International Course, Cancun, Mexico, February 17-20, 2000.
   * Complications in lumbo-sacral fixation: Symptoms, science, and solutions. Pseudarthrosis
   * Complex open anterior correction of scoliosis
   * Sacro-pelvic fixation: Techniques

Moderator - Pediatric and Adult Deformity

1. American Academy of Orthopaedic Surgeons 67th Annual Meeting, Orlando, FL, March 15-19, 2000.
   * ICL 209: A Comprehensive Approach to Adolescent Idiopathic Scoliosis
     + Posterior instrumentation: The role of screws
     + Classification of adolescent idiopathic scoliosis: Predicting and assessing treatment; pedicle screws in idiopathic scoliosis. (Surgical approach to adolescent idiopathic scoliosis)
   * ICL: Spondylolysis and Spondylolisthesis
     + The treatment of high-grade spondylolisthesis
2. Spine Think Tank 2, Orthovita, Philadelphia, PA, April 2000.

Preservation of sagittal plane. Biomechanical rationale and data

1. St. Louis University: Spinal Fraction Fixation Course, St. Louis, MO, May 3-7, 2000.

Management of the severely traumatized spine patient: Anterior thoracolumbar spine; anterior vertebral and spinal canal decompression

1. Failures in Spinal Surgery: A Tribute, Baltimore, MD, May 12-14, 2000.
   * The posterior tension band
   * Flat-back syndrome

Degenerative scoliosis. Evaluation and treatment options

1. Spinal Deformity: Challenges and Solutions of Surgical Treatment, Fajardo, Puerto Rico, May 2000.

Classification of spinal deformity

1. Spine and Peripheral Nerve Workshop 12th Annual International Meeting, USUHS, Bethesda, MD, June 2000.

Spinal osteotomy and sacro-pelvic fixation techniques

1. Surgical and Nonsurgical Management of Neck and Low Back Pain Symposium, St. Louis, MO, June 2000.

Surgical management of degenerative lumbar deformity and scoliosis

1. Current Thinking in the Surgical Management of Spinal Deformity in the Young Child, GICD, Barcelona, Spain, July 5, 2000.

Posterior surgical management with arthrodesis in the immature spine

1. 7th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Barcelona, Spain, July 5-8, 2000.
   * Co-Leader - Round Table Case Discussion 1.4: Deformity
   * Faculty - Instructional Course Lecture 2C: Anterior Scoliosis Correction Strategies, Including Thoracoscopic
   * Moderator - Didactic Session 2B: Deformity: Selective Anterior Instrumentation of Thoracolumbar/Lumbar AIS

Moderator - Didactic Session 4B: Lumbar Degenerative, Infection, Tumor

1. Big Time Spine, Chicago, IL, September 9, 2000.
   * ICL: Advanced Spinal Treatment
     + A new surgical classification of idiopathic scoliosis…curve prevalence
   * Spinal osteotomy for sagittal and coronal imbalance
   * Thoracic screw placement in deformity

In-situ fusion for high grade spondylolisthesis in children and adults

1. Pedicle Fixation in the Thoracic Spine, Medtronic Sofamor Danek, Memphis, TN, September 22, 2000.
   * Correction and fusion of idiopathic scoliosis – thoracic pedicle screw vs. anterior screw instrumentation

Free-hand placement of thoracic screws for spinal deformity

1. Spine Education Summit, DePuy AcroMed, Miami, FL, November 17-19, 2000.
   * Selective anterior treatment of thoracic, thoracolumbar, and lumbar in adolescent idiopathic scoliosis
   * Results of pedicle subtraction osteotomy (PSO) for fixed sagittal imbalance
   * Thoracic pedicle screws in spinal deformity
   * AIS anterior open treatment selective thoracic/TL/lumbar fusions
   * AIS classification trial
   * Results of pedicle subtraction osteotomy (PSO) for fixed sagittal imbalance
   * Moderator - A New Classification of Adolescent Idiopathic Scoliosis
   * Workshop Instructor - Problems in Spinal Reconstruction
   * Workshop - Classification of Idiopathic Scoliosis

AIS - A new classification

1. Fingers-to-Toes Comprehensive Orthopaedic Review Course for Primary Care Physicians 5th Annual Meeting, St. Louis, MO, December 2, 2000.

Evaluation of idiopathic scoliosis and other coronal plane spinal deformities

1. Classic and Contemporary Insights into Spinal Surgery, GICD, New York, NY, December 8-9, 2000.
   * Adolescent Idiopathic Scoliosis: Anterior Open Treatment
     + Selective thoracic/TL/lumbar fusions
   * A new surgical classification of adolescent idiopathic scoliosis

Free hand placement of thoracic screws in spinal deformity

1. Big Time Spine, Vail, CO, February 2001.
   * Decision Making In the Adult with Fixed Coronal or Sagittal Imbalance
     + Spinal osteotomy in the patient with fixed coronal and/or sagittal imbalance
   * Thoracic pedicle screws in spinal deformity: Techniques and justification
   * Moderator - A New Classification of Adolescent Idiopathic Scoliosis
     + Classification of adolescent idiopathic scoliosis: Treatment based
2. American Academy of Orthopedic Surgeons 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001.
   * ICL 105: Metastatic Bone Disease: Surgical and Non-Surgical Management
     + Spinal metastases
   * ICL 153: A Comprehensive Approach to Adolescent Idiopathic Scoliosis Surgery
     + A new surgical classification: Predicting and assessing treatment
     + Posterior instrumentation: The role of screws
   * ICL 404: Spondylolysis and Spondylolisthesis
     + Treatment of high grade (>50%) spondylolisthesis
3. International Spine Symposium, Perth, Australia, April 30-May 2, 2001.
   * Thoracic “Free Hand” pedicle screw placement in spinal deformity: Technique, pitfalls, complications and results
   * Classification of adolescent idiopathic scoliosis: Past, present and future
   * Anterior single vs. dual rod instrumentation for idiopathic scoliosis
   * Degenerative scoliosis: evaluation and treatment options
   * TLIF-Indications and outcomes
   * Circumferential treatment of thoracolumbar burst fractures

Moderator - AIS Classification and Case Presentations

1. Topics on Spinal Deformity: Surgical Challenges and Solutions, Amelia Island, FL, May 11-12, 2001.
   * Update on the Lenke et al. surgical classification of adolescent idiopathic scoliosis
   * Free hand placement of thoracic pedicle screws: Techniques and nerve surveillance
   * Moderator - Spondylolisthesis Breakout Session
   * Moderator - Idiopathic Scoliosis Roundtable

Moderator - Case Classification Session

1. 5th Annual International Course on Global Spine, BroadWater, Maui, HI, June 14-17, 2001.
   * Anterior open single vs. dual rod instrumentation for idiopathic scoliosis
   * Flatback syndrome/osteotomies
   * Surgical treatment of high grade pediatric spondylolisthesis

Moderator - Pedicle Screw Instrumentation

1. Surgical Management of Adult Spinal Deformity with Degeneration, GICD, Pre-IMAST Course, Paradise Island, Bahamas, July 11, 2001.

Long segment fixation to the sacrum: “Must go front and back”

1. 8th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Paradise Island, Bahamas, July 13, 2001.
   * Spinal instrumentation in the highly skeletally immature patient
   * Thoracic pedicle screws: Free hand placement technique and instrumentation principles

A new surgical classification of adolescent idiopathic scoliosis and 2-year follow-up results of The Harms Study Group

1. Minimally Invasive Scoliosis Tutorial, DePuy AcroMed, Children’s Pediatric Orthopedic and Scoliosis Center, San Diego, CA, July 16-17, 2001.
   * Learning Curve – Pitfalls and Tips for Success
     + Thoracoscopic spinal surgery: Endoscopic spinal surgery
2. 4th Annual International Pediatric Orthopaedic Symposium, Lake Buena Vista, FL, August 29-September 2, 2001.
   * Idiopathic scoliosis: Classification and surgical management
     + Pedicle screws for idiopathic scoliosis surgery
3. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, September 19-21, 2001.
   * ICL: Fundamentals of Spinal Deformity
     + Spinal cord monitoring

Moderator - Spinal Cord Research Session

1. Pedicle Fixation in the Thoracic Spine Tutorial, Medtronic Sofamor Danek, Half Moon Bay, CA, October 12-13, 2001.
   * Endoscopic spinal surgery

Free hand placement of thoracic pedicle screws and results in scoliosis surgery

1. Japanese Scoliosis Society 35th Annual Meeting, Yamada Inoue Memorial, Nagoya, Japan, November 16-21, 2001.
   * Single vs. dual rod instrumentation for scoliosis
   * The evaluation and treatment of degenerative lumbar scoliosis
   * Panelist - Complex Spinal Deformity Case Presentations

Pros and cons of pedicle screws in the treatment of scoliosis and other spinal deformities

1. Spinal Sagittal Balance, GICD-USA, Chicago, IL, December 6-9, 2001.
   * Treating Segmental, Reconstruction and Global Malalignment
     + Classification of scoliosis: The importance of the sagittal plane
     + Global sagittal imbalance – who is an operative candidate? How to decide?
   * Endoscopic/minimally invasive subgroup – why is this needed?

Prospective evaluation of infantile and juvenile idiopathic scoliosis

1. The Surgical Management of Spinal Disorders 11th Annual Course, GICD-USA, Medtronic Sofamor Danek, Beaver Creek, CO, January 19-22, 2002.
   * Anterior open single vs. dual rod instrumentation for idiopathic scoliosis
   * Operative technique for anterior thoracolumbar fusion using CD Horizon Legacy Spinal System
   * Thoracic pedicle screws: Techniques & results

Moderator - AIS Complex Case Discussion

1. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-17, 2002.

* Moderator - ICL 112: Spondylolysis and Spondylolisthesis
* Treatment of high grade (>50%) spondylolisthesis
* Moderator - ICL 169: Adolescent Idiopathic Scoliosis: State of the Art
* Anterior treatment of AIS
* Anterior open single vs. dual rod instrumentation for idiopathic scoliosis
* Moderator - ICL 372: Kyphosis of the Thoracic and Thoracolumbar Spine in the Pediatric Patient
  + - Surgical complications: Prevention & treatment

1. Thoracic Pedicle Screw Course, Medtronic Sofamor Danek, Columbia, MO, February 21, 2002.

Free hand placement of thoracic pedicle screws: Results in scoliosis surgery

1. Total Spine: Advances in Theory, Techniques, and Technology 8th Annual Meeting, Spinal Science Advancement Foundation, Medtronic Sofamor Danek, Cancun, Mexico, March 15-18, 2002.
   * Thoracic pedicle screws: Techniques and results
   * Skeletally immature patients: Indications, techniques, and results
   * Case presentations
   * Moderator - Complex Spinal Deformity Case Discussions

Demonstration: Placement of Thoracic Pedicle Screws

1. Spinal Deformity Study Group: Advanced Deformity Seminar, Medtronic Sofamor Danek, Scottsdale, AZ, April 16-20, 2002.
   * Deformity techniques – 2002
   * How to treat deformity patients: Anterior vs. posterior vs. both
   * Instrumentation of the young child
   * Patient photography in spinal deformity
   * Spinal osteotomy for fixed sagittal & coronal imbalance
   * The use of pedicle screws in the treatment spinal deformities

Anterior treatment of scoliosis: State of the art

1. Pedicle Fixation in the Thoracic Spine, Medtronic Sofamor Danek, Bethesda, MD, April 26-28, 2002.

Free hand placement of thoracic pedicle screws

1. Pre IMAST Debate, Scoliosis Research Society, Montreux, Switzerland, May 22, 2002.
   * Moderator - AIS
     + Segmental pedicle screw fixation is superior to conventional posterior fusion
   * Scheuermann’s kyphosis
     + PRO: Posterior only is superior to circumferential technique
   * Surgical Challenges in Spinal Deformity
     + CON: Congenital hemivertebra excision: Posterior transpedicular technique is superior to circumferential A/P technique
2. Practical Strategies in Spine Surgery, American Academy of Orthopaedic Surgeons, Chicago, IL, June 28-30, 2002.

Flatback deformity/osteotomies

1. 6th Annual International Course on Global Spine, BroadWater, Maui, HI, July 13, 2002.
   * Open anterior scoliosis correction: Indications, techniques, results

Thoracic pedicle screws for scoliosis correction: Indications, techniques, results

1. AANS Innovations in Spinal Fixations: An Advanced Course, Medtronic Sofamor Danek, Memphis, TN, July 26, 2002.
   * Free-hand thoracic screw placement

Sacro-pelvic fixation: Rationale and techniques

1. SIRCOT/SIROT XXII World Congress, San Diego, CA, August 28-29, 2002.
   * + Free hand thoracic screw placement: techniques and results
2. 6th International Congress on Spinal Surgery, Ankara, Turkey, September 4-7, 2002.
   * An overview of adult spinal deformity
   * New classification system in AIS: Impact on surgery

Moderator - Deformity Free Podium presentations

1. Emerging Technologies – SPINE Workshop, Boston, MA, September 27-29, 2002.
   * + Free-hand thoracic screw placement
2. Spinal Deformity Study Group Meeting, Medtronic Sofamor Danek, Auckland, New Zealand, October 9-20, 2002.
   * Neuromuscular spinal deformity
   * Spinal osteotomy for the treatment of spinal imbalance
   * Free-hand thoracic screw placement

Case presentations

1. Global Spine: Surgical Principles and the Latest Techniques, Spinal Science Advancement Foundation, Medtronic Sofamor Danek, Dana Point, CA, October 2002.
   * Open anterior scoliosis correction: Indications, techniques, results
   * Thoracic pedicle screws: Techniques and results in deformity surgery

Moderator - Degenerative Scoliosis Panel Discussion

1. Australian Orthopaedic Association 67th Annual Scientific Meeting, Melbourne, Australia, October 12, 2002.
   * New classification system in AIS: Where to start and where to stop
   * Use of thoracic pedicle screws in pediatric and adult spinal deformity
   * TLIF-transforaminal lumbar interbody fusion: Indications & results

Evaluation and surgical treatment of degenerative lumbar scoliosis

1. XII Argentine Congress of the Argentine Society of Spine Pathology, Medtronic Sofamor Danek, Córdoba City, Argentina, October 24-26, 2002.
   * Classification and treatment of AIS
   * The use of pedicle screws for the correction of pediatric and adult spinal deformity
   * Spinal osteotomy for the correction of fixed sagittal and/or coronal imbalance to the spine

Surgical treatment of degenerative de novo lumbar scoliosis

1. Advanced Concepts in Anterior Scoliosis Treatment, Medtronic Sofamor Danek, St. Louis, MO, November 2002.
   * Anterior surgery – Indications for open and endoscopic approaches
   * Open anterior treatment of scoliosis: Single vs. dual rods
   * The use of pedicle screws for the correction of pediatric and adult spinal deformity

Case presentations

1. Advanced Thoracic Pedicle Screw Course, Medtronic Sofamor Danek, St. Louis, MO, November 2002.
   * + Free hand placement of thoracic pedicle screws and use in scoliosis surgery
2. 5th Annual International Pediatric Orthopedic Symposium, American Academy of Orthopaedic Surgeons, Orlando, FL, December 7-8, 2002.

Classification and operative treatment of adolescent idiopathic scoliosis

1. Harms International Study Group, Beaver Creek, CO, January 3-5, 2003.
   * Interobserver and intraobserver reliability of choosing the stable vertebra. Comparing the traditional King vs. the “A” lumbar vertebra method

Moderator - Case Presentations

1. The Surgical Management of Spinal Disorders, Spinal Deformity Education Group, Medtronic Sofamor Danek, Beaver Creek, CO, January 18, 2003.
   * Biomechanics, indications, techniques, and outcomes for posterior thoracic pedicle screws
   * Isthmic spondylolisthesis from pediatric to adult: Indications, treatment options and outcomes

Case presentation

1. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, LA, February 5-9, 2003.
   * Moderator - ICL 110: Kyphosis of the Thoracic and Thoracolumbar Spine in the Pediatric Patient
     + Surgical complications: Prevention & treatment
   * Moderator - ICL 318: Adolescent Idiopathic Scoliosis: State of the Art
     + Classification of AIS: Treatment based
     + Anterior open treatment of AIS
   * Moderator - ICL 370: Spondylolysis and Spondylolisthesis
     + Treatment of high grade (>50° spondylolisthesis)
2. Advanced Concepts in Anterior Scoliosis Treatment & Advanced Techniques in Spinal Deformity Surgery, Medtronic Sofamor Danek, Half Moon Bay, CA, February 21-22, 2003.
   * Anterior surgery – Indications for open and endoscopic approaches
   * Open anterior treatment of scoliosis: Single vs. dual rods
   * Free hand thoracic pedicle screw placement and clinical use in scoliosis and kyphosis surgery

Spinal osteotomy techniques for the correction of fixed sagittal and/or coronal malalignment to the spine

1. Total Spine: Advances in Theory, Techniques, and Technology 9th Annual Meeting, Spinal Science Advancement Foundation, Cancun, Mexico, April 5-8, 2003.
   * Advances in anterior correction of TL and thoracic AIS including dual rod and endoscopic techniques
   * Posterior thoracic screw derotation techniques for AIS

Thoracic pedicle screws

1. Spinal Deformity Study Group, Medtronic Sofamor Danek, Scottsdale, AZ, April 10-12, 2003.
   * Anterior treatment of scoliosis: State of the art
   * Deformity basics
   * New deformity procedural trends – 2003
   * How do we treat these patients? Anterior vs. posterior; rod sizes: which system; why?
   * Instrumentation of the young child
   * Spinal osteotomy for fixed sagittal & coronal imbalance

The use of thoracic pedicle screws in the treatment of spinal deformities: Challenges and training

1. Challenges and Advancements in Pediatric and Adult Spinal Deformity, Kiawah Island, SC, May 16-17, 2003.
   * Use of pedicle screws in adult and pediatric deformity
   * Anterior open vs. endoscopic treatment for scoliosis

Posterior only treatment with pedicle screws for kyphotic deformity

1. Advanced Concepts in Spinal Deformity Surgery (Anterior & Posterior), Medtronic Sofamor Danek, Colorado Springs, CO, May 18-19, 2003.
   * Anterior surgery – Indications for open and endoscopic approaches
   * Open anterior treatment of scoliosis: Single vs. dual rods
   * Free hand thoracic screw placement and clinical use in the treatment of spinal deformity

Spinal osteotomy techniques for the correction of fixed sagittal and/or coronal malalignment to the spine

1. 7th Annual International Course on Global Spine – Surgical Principles and the Latest Techniques, Spinal Science Advancement Foundation, BroadWater, Dana Point, CA, June 27-29, 2003.
   * AIS classification and when to do a selective fusion
   * Free hand thoracic screw placement and clinical use in scoliosis and kyphosis surgery
   * Spinal osteotomy in degenerative lumbar kyphoscoliosis
   * Posterior treatment of thoracic AIS with thoracic pedicle screws (TPS) and direct apical vertebral derotation (DAVD)

Panel Discussion - Adult degenerative scoliosis and kyphoscoliosis

1. 10th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Rome, Italy, July 2003.
   * Moderator - Panel Discussion

Endoscopic scoliosis surgery

1. Pedicle Screw Fixation of the Thoracic Spine, Beth Israel Medical Center/Spine Institute, New York, NY, September 23, 2003.

Free hand thoracic pedicle screw placement

1. Fellows Forum, North American Spine Society, San Diego, CA, October 24, 2003.
   * A new classification of AIS: Treatment based

The use of thoracic pedicle screws (TPS) in pediatric and adult spinal deformity

1. Spinal Deformity Study Group Symposium 2003: Advanced Concepts in Spinal Deformity Surgery, Medtronic Sofamor Danek, St. Louis, MO, November 13-15, 2003.
   * Anterior surgery – Indications for open and endoscopic approaches
   * Open anterior treatment of scoliosis: Single rods

Free hand placement and the use of thoracic pedicle screws (TPS) in pediatric and adult spinal deformity Results of kyphosis correction with TPS/SPOs

1. Making Sense of Spinal Instrumentation, Spinal Science Advancement Foundation, Medtronic Sofamor Danek, New York, NY, December 4-7, 2003.
   * What’s new in spinal deformity treatment
   * Posterior technique correction options for thoracic AIS: Posterior with screws

The use of thoracic pedicle screws (TPS): in scoliosis correction

1. Spinal Deformity Education Group: Advancements in Spinal Deformity Care, Medtronic Sofamor Danek, Beaver Creek, CO, January 17-20, 2004.
   * The use of thoracic pedicle screws (TPS) in pediatric and adult spinal deformity
   * Strategies for surgical correction of AIS
   * Degenerative spondylolisthesis: Decompression + fusion + instrumentation

Pediatric case presentation

1. Emerging Treatment Course, Spinal Science Advancement Foundation, Medtronic Sofamor Danek, Beaver Creek, CO, January 2004.
   * + Emerging treatment options for spinal deformity. TPS: Indications/technique/outcomes
2. Advanced Concepts in Deformity Surgery, Medtronic Sofamor Danek, Tampa, FL, January 31, 2004.
   * Thoracic pedicle screw for pediatric and adult spinal deformity
   * Indications for open and endoscopic anterior approaches to scoliosis
   * Single vs. dual rod instrumentation for scoliosis
   * Thoracic pedicle screw placement
   * Clinical use of TPS in deformity surgery

Introduction to spinal osteotomies

1. Advanced Techniques in Spinal Deformity Surgery, Medtronic Sofamor Danek, San Francisco, CA, February 27-28, 2004.
   * Anterior scoliosis surgery-indications for open and endoscopic approaches
   * Open anterior treatment of scoliosis: Single vs. dual rods
   * Introduction to spinal osteotomies
   * Thoracic pedicle screw placement techniques

Clinical use of thoracic pedicle screws in deformity surgery

1. American Academy of Orthopaedic Surgeons 71st Annual Meeting, San Francisco, CA, March 10-14, 2004.
   * Moderator - ICL 230: Spondylolysis and Spondylolisthesis
     + Treatment of high grade (>50%) spondylolisthesis
   * Moderator - ICL 274: Adolescent Idiopathic Scoliosis: State-of-the-Art
     + Classification of AIS: Treatment based
     + Anterior open single vs. dual rod instrumentation for idiopathic scoliosis
   * ICL 315: Kyphosis of the Thoracic and Thoracolumbar Spine in the Pediatric Patient
     + Surgical complications: Prevention & treatment
2. Spine Fellow Focus Group, American Academy of Orthopaedic Surgeons, Medtronic Sofamor Danek, San Francisco, CA, March 2004.

Surgical treatment of degenerative *de novo* lumbar scoliosis

1. Fingers-to-Toes Comprehensive Orthopaedic Review Course for Primary Care Physicians 9th Annual Meeting, St. Louis, MO, April 24, 2004.

Evaluation and treatment of pediatric kyphosis

1. Pediatric Orthopaedic Society of North America Annual Meeting, St. Louis, MO, April 29, 2004.
   * Anterior surgery for scoliosis: Indications and use of single vs. dual rods

Thoracic pedicle screw placement techniques and clinical use in pediatric deformity surgery

1. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons 72nd Annual Meeting, Orlando, FL, May 1-6, 2004.

Special Lecture: Spinal deformity: Overview and basic principles

1. 8th Annual Internation Course on Global Spine: Surgical Principles and the Latest Techniques, BroadWater, Chicago, IL, June 25-26, 2004.
   * Basics of posterior treatment of thoracic scoliosis: Rationale, results, and complications
   * Treatment of thoracic hyperkyphosis with Smith-Petersen osteotomies

Adult deformity case conference

1. 11th International Meeting on Advanced Spine Techniques, BroadWater, Scoliosis Research Society, Southampton, Bermuda, July 1-3, 2004.

Surgical management of adult degenerative scoliosis

1. Advanced Techniques in Spinal Deformity Surgery, Medtronic Sofamor Danek, Memphis, TN, July 16-17, 2004.
   * Endoscopic instrumentation and fusion – Technique and clinical results
   * Anterior scoliosis surgery – indications for open & endoscopic approaches
   * Open anterior instrumentation techniques: Single vs. dual rods
   * Thoracic pedicle screw placement techniques

Introduction to spinal osteotomies

1. Innovative Techniques in Spine Surgery, Medtronic Sofamor Danek, Los Cabos, Mexico, August 4-7, 2004.

What’s new in: Deformity surgery

1. Advanced Techniques for Thoracic Fixation and Deformity Correction, Hospital for Joint Diseases/Medtronic Sofamor Danek, Secaucus, NJ, October 6-9, 2004.
   * Posterior correction techniques for scoliosis and kyphosis using screws

Thoracic pedicle screw placement techniques

1. Degenerative Lumbar Scoliosis Forum, North American Spine Society, Chicago, IL October 28, 2004.

Surgical treatment of degenerative de novo lumbar scoliosis

1. Fellows Forum, North American Spine Society, Chicago, IL, October 29, 2004.

Classification and treatment of adolescent idiopathic scoliosis

1. Spinal Deformity Study Group Symposium 2004: Emerging Trends and Advanced Surgical Techniques, Medtronic Sofamor Danek, St. Louis, MO, November 4-6, 2004.
   * Anterior scoliosis surgery – Indications for open and endoscopic approaches
   * Free hand placement and clinical use of thoracic pedicle screw in deformity surgery
   * Results of kyphosis correction with TPS/SPOs
   * Case presentations
   * Moderator - Osteotomies for Treatment of Fixed Spinal Malalignment/Imbalance

Panel Discussion/Q & A: Open vs. endoscopic, single-rod vs. dual-rod – when and why?

1. 38th Annual Meeting of the Japanese Scoliosis Society, Shizuoka, Japan, November 12, 2004.

Treatment of severe pediatric scoliosis

1. Pre-Adolescent Scoliosis 3rd Annual Meeting, Tokyo, Japan, November 14, 2004.

Treatment for infantile and juvenile idiopathic scoliosis

1. Harms Study Group, DePuy Spine, Beaver Creek, CO, January 7-8, 2005.
   * Curves that bend out between 20 & 30 degrees

Stable vertebrae

1. Transforaminal Lumbar Interbody Fixation, Medtronic Sofamor Danek, Las Vegas, NV, January 14-15, 2005.
   * TLIF in deformity

Case presentations

1. American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C., February 23-27, 2005.
   * Moderator - ICL 175: Adolescent Idiopathic Scoliosis. State-of-the-Art
     + Anterior open single vs. dual rod instrumentation for idiopathic scoliosis
     + Classification of AIS: Treatment based
   * ICL 383: Modern Techniques in Cervical Spine Surgery
     + Upper thoracic pedicle screws
   * Symposium T - What’s New in Pediatric Orthopaedics?
     + Current instrumentation techniques: Are pedicle screws worth it?
2. Fellows Forum, American Academy of Orthopaedic Surgeons, Medtronic Sofamor Danek, Washington D.C., February 23, 2005.
   * Evaluation and surgical treatment of adult scoliosis

Classification and treatment of adolescent idiopathic scoliosis

1. International Training of Japanese Spinal Surgeons, American Academy of Orthopaedic Surgeons, Medtronic Sofamor Danek, Washington D.C., February 25, 2005.

* Free hand placement and treatment of spinal deformity with TPS

1. Pediatric Orthopaedic Surgeons of North America Specialty Day, American Academy of Orthopaedic Surgeons, Washington D.C., February 26, 2005.

* Posterior Pedicle Screw Fixation and Posterior Spinal Fusion without Anterior Surgery
  + Debate: The best treatment for a 13-year-old female with a stiff 85° right thoracic idiopathic scoliosis
* ICL: Adolescent Idiopathic Scoliosis: State-of-the-Art
* Etiology, natural history, non-operative treatment
* Thoracoscopic applications for spinal deformity treatment

1. Federation of Spine Associations 20th Annual Meeting, American Academy of Orthopaedic Surgeons, Washington D.C., February 26, 2005.

Section I – NASS: Thoracic decompensation

1. Advanced Techniques in Pediatric Spinal Deformity Surgery, Medtronic Sofamor Danek, San Francisco, CA, March 4-5, 2005.

* Anterior scoliosis surgery – Indications for open and endoscopic approaches
* Open anterior instrumentation techniques: Single *v*s. dual rods
* Clinical use of thoracic pedicle screws in pediatric deformity surgery
* Results of kyphosis correction with TPS/SPOs

PSO and VCR for pediatric deformity correction

1. Spinal Deformity Study Group, Medtronic Sofamor Danek, San Diego, CA, April 28-30, 2005.

Infantile, juvenile, adolescent summary & discussion

1. Argentina Spine Course, Medtronic Sofamor Danek, Buenos Aires, Argentina, May 16-17, 2005.

* Lenke treatment-directed classification system for AIS
* Advances in spinal cord monitoring
* Scoliosis surgery by the anterior approach using CD Horizon dual rod spinal system
* Limits of anterior surgery – when is posterior a better approach?
* Treatment of AIS >70° by posterior-only approach
* Thoracic kyphosis surgery by the posterior-only approach
* Congenital scoliosis: Surgical treatment by VERTEX/LEGACY 3.5/4.5
* Anterior column support – Indications & surgical technique
* Iliac screws for pelvic fixation: Indications & surgical technique
* Myelomeningocele – Surgical treatment
* Surgical treatment of degenerative *de novo* lumbar scoliosis
* Scoliosis with sagittal imbalance: Anterior decancellation procedures
* Evaluation and surgical treatment of flatback syndrome with spinal osteotomies: SPOs & PSOs
* Complications and predictive factors to flatback treatments
* Revision surgery – BMP uses and results
* Surgical treatment on neurological scoliosis

Case discussions

1. Advanced Techniques in Pediatric Deformity Surgery (Anterior & Posterior Approaches), Medtronic Sofamor Danek, Memphis, TN, May 20-21, 2005.

* Anterior scoliosis surgery-indications for open and endoscopic approaches
* Open anterior instrumentation techniques: single vs. dual rods
* Clinical use of thoracic pedicle screws in deformity surgery
* SPOs/TPS for pediatric kyphosis correction
* Panel - Q + A Topic: Lumbosacral Construct Issues and Pediatric Osteotomies
* Panel Discussion - Screws vs. Hooks/Wires Analysis for Deformity Correction
* Demo Lab 1
  + Instrumentation in T-L spine
  + Open fixation techniques
  + TPS – Derotation techniques
    - Lumbar PSO

1. Pediatric Deformity Focus Meeting, Medtronic Sofamor Danek, Memphis, TN, May 23-24, 2005.

* Classification of idiopathic scoliosis
* Pediatric case presentation

1. 9th Annual International Course on Global Spine: Spinal Motion, Fusion and Realignment, BroadWater, San Francisco, CA, June 24-26, 2005.

* Posterior kyphosis correction with TPS and SPOs: Are anterior releases needed anymore?
* Moderator - Session 5: Spinal Realignment
* Selection of Fusion Levels in Adult Idiopathic Scoliosis: How Distal do You have to Go?
* Panelist - Case Discussions: Adult Fixed Spinal Deformity
* Panelist - Case Discussion: Treatment of a “Typical” Right Thoracic AIS

Panelist - Adult Degenerative Deformity

1. Innovative Techniques in Spine Surgery 2nd Annual Meeting, Los Cabos, Mexico, July 20-23, 2005.

* TLIF for degenerative and deformity
* Evaluation and treatment of degenerative lumbar scoliosis
* Spondylolisthesis in children and adults
* Evaluation and treatment of adult scoliosis
* Spinal osteotomies to correct fixed spinal imbalance
* Iliac screw fixation for sacropelvic support
* What’s new in: Thoracic pedicle fixation?

Panel - Educating Surgeons in New Technology

1. Asia Pacific Spine Congress, Scoliosis Research Society, Jeju Island, Korea, August 25-27, 2005.

* Avoiding ASF in pediatric and adult deformity surgery utilizing pedicle screw fixation
* Approaches to the pediatric patient undergoing intervertebral stapling
* Workshop - Thoracic pedicle screw free-hand insertion and 3-D deformity correction techniques
* Case Discussions - Trauma/tumor/infection

Moderator - Case Conference

1. Congenital Scoliosis Conference, Medtronic Sofamor Danek, Tokyo, Japan, August 28, 2005.

Congenital scoliosis: Posterior hemivertebra excision

1. 4th Forum of GICD Europe, Barcelona, Spain, September 20, 2005.

Spinal osteotomy for the treatment of fixed deformity in ankylosing spondylitis

1. State-of-the-Art Strategies in Scoliosis Management, Symposium Lunch Workshop, EuroSpine, Medtronic Sofamor Danek, Barcelona, Spain, September 21, 2005.

* Adolescent Idiopathic Scoliosis: Thoracic screw placement

Pelvic Fixation: Neuromuscular scoliosis

1. Fusionless Treatment of Scoliosis, EuroSpine, Medtronic Sofamor Danek, Barcelona, Spain, September 20, 2005.

* Clinical experiences
* Concepts including preclinical work

Case presentations

1. LEGACY™ Surgeon Panel Meeting, EuroSpine, Medtronic Sofamor Danek, Barcelona, Spain, September 22, 2005.

* Rod diameter selection in pediatric and adult spinal deformity correction
* LEGACY™ extensions (iliac, reduction screws)

1. Lumbosacral Reconstruction in the Aging Spine, Medtronic Sofamor Danek, Philadelphia, PA, September 29, 2005.

* Indications for lumbosacral junction reconstruction: Construct planning for anterior & posterior support

Case presentation

1. Fellows Forum, Medtronic Sofamor Danek, Philadelphia, PA, September 29, 2005.

Classification and treatment of adolescent idiopathic scoliosis

1. Young Spine Deformity Symposium 2nd Annual Meeting, Sarah M. & Charles E. Seay and Martha & Pat Beard Center for Excellence in Spine Research, Texas Scottish Rite Hospital, Dallas, TX, October 6, 2005.

Surgical solutions for optimal correction of primary and revision severe pediatric spinal deformities

1. Training for Tomorrow’s Deformity Surgeon, Medtronic Sofamor Danek, San Diego, CA, October 16-18, 2005.

* Advanced thoracic, lumbar, sacral, and iliac screw placement

Succeeding in clinical practice as a spinal deformity surgeon

1. Scoliosis Research Society 40th Annual Meeting, Medtronic Sofamor Danek, Miami, FL, October 28, 2005.

* ICL: Fusion Level Selection in AIS
  + - Critical choices for the long-term

1. Spinal Deformity Study Group Symposium 2005: Emerging Trends and Advanced Surgical Techniques in Spinal Deformity, Medtronic Sofamor Danek, St. Louis, MO, November 10-12, 2005.

* Open anterior dual rod instrumentation for thoracolumbar/lumbar AIS
* Current Techniques for adult deformity correction using pedicle screws, SPOs & TLIF
* Upper thoracic pedicle screw placement and construct planning/correction techniques for pediatric deformity

Pediatric case discussions

1. 14th Annual Spine Surgeon Transition Program’s Spine+Science+Management, Medtronic Sofamor Danek, Las Vegas, NV, November 17-19, 2005.

* Cervicothoracic fixation techniques
* Hyperlordosis case presentation
* Roundtable Discussion - Spine cases
* Roundtable Discussion - Practice transition issues
* Hands-on Cadaver Lab - Thoracic pedicle screw fixation

Hands-on Cadaver Lab - Cervicothoracic fixation

1. 2nd International Pediatric Orthopaedic Society of North America/American Academy of Orthopaedic Surgeons Pediatric Orthopaedic Symposium, Orlando, FL, November 30-December 4, 2005.

* ICL: Posterior Treatment of Scoliosis
* Selecting fusion levels when using pedicle screw constructs
* ICL: PSO & VCR for Posterior Deformity Correction
* Posterior vertebral column resection for severe spinal deformities

Panel - Case Based Discussion – Idiopathic Scoliosis

1. Spinal Deformity Study Group, Medtronic Sofamor Danek, Chicago, IL, December 1-3, 2005.

Infantile, juvenile, adolescent summary & discussion

1. 3rd Annual International Course on Spinal Focus, Medtronic Sofamor Danek, New York, NY, December 9-11, 2005.

* The Kyphosing Spine-Overview of surgical techniques
* Thoracolumbar kyphosis with “flatback” syndrome: Posterior only SP
* Panelist - Kyphosing Spine Case Presentations, Discussions and Voting

Panelist - Adult Degenerative Scoliosis

1. The 16th Annual Dr. Tom Lowe Spine Symposium: The Surgical Management of Spinal Disorders, Beaver Creek, CO, January 15-17, 2006.

* Complications of pedicle screw implants in pediatric & adult patients
* Deformity realignment and fixation options for the cervicothoracic junction
* Cervicothoracic fixation techniques
* Moderator - Part 3: Thoracic Sagittal Plane Deformity

Moderator - Case Discussions

1. Aging Spine Technology Assessment Meeting, Medtronic Sofamor Danek, Memphis, TN, February 13, 2006.

* Aging spine deformity challenges

Degenerative scoliosis literature review

1. Advanced Techniques in Deformity Surgery, Medtronic Sofamor Danek, Scottsdale, AZ, February 17-18, 2006.

* Anterior scoliosis surgery – indications for open & endoscopic approaches
* Free hand TPS: Basic & advanced techniques: construct planning/execution for scoliosis correction utilizing pedicle screws
* Revision deformity surgery: Assessment, treatment and prevention
* PSO & VCR for severe spinal deformity
* Case presentations
* Moderator - Open vs. Endoscopic – Why and when
* Moderator - Revision Spinal Surgery Treatment

Moderator - Q + A Topic: Lumbosacral Construct Issues and Osteotomies

1. 1st Annual International Course – Spine Surgery: On the Cutting Edge, BroadWater, Cancun, Mexico, February 24-26, 2006.

* The use of pedicle screws to avoid anterior release surgery
* Optimizing deformity correction with spinal osteotomies. And, when to refer to a deformity center?
* Moderator - Session 1: Adult Spinal Deformity
* Moderator - Session 2: Adult Spinal Deformity

Panelist - Case Discussion Panel: Adult Spinal Deformity

1. Spine Surgeon Transition Program - Fireside Series: *Deformity Surgery-is it right for your practice*, Medtronic Sofamor Danek, Orlando, FL, March 17, 2006.

* Adult degenerative deformity practice
* Getting started as a deformity surgeon

Succeeding in clinical practice as a spinal deformity surgeon

1. American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.

* ICL: 285: Modern Techniques in Cervical Spine Surgery
  + - Upper thoracic pedicle screws

1. International Hands-on Advanced Spinal Instrumentation Course, Medtronic Sofamor Danek, Vancouver, Canada, March 30-April 1, 2006.

* Thoracic pedicle screw placement techniques & avoiding complications
* State-of-the-art: Spinopelvic fixation
* Case presentations

Moderator - Proximal Thoracic Hyperkyphosis Case Discussions

1. Pediatric Surgeon Spine Deformity Meeting, Medtronic Sofamor Danek, Memphis, TN, April 3-4, 2006.

* Use of pedicle screws & posterior osteotomies to avoid anterior releases in spinal deformity surgery
* Classification of idiopathic scoliosis

Case presentations

1. Special Symposium on Spinal Deformity, Medtronic Sofamor Danek, Perto, Portugal, April 8, 2006.

Classification & surgical treatment of adolescent idiopathic scoliosis

1. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Sofamor Danek, Dallas, TX, April 28-29, 2006.

* Free hand TPS: Basic & advanced techniques: Construct planning & execution for scoliosis correction utilizing pedicle screws
* Revision deformity surgery: Assessment, treatment, and prevention
* PSO & VCR for severe spinal deformity

Anterior scoliosis surgery – Indications for open & endoscopic approaches

1. Pediatric Orthopaedic Society of North America Annual Meeting, American Academy of Orthopaedic Surgeons, San Diego, CA, May 3-6, 2006.

* Instructional Course Lecture
  + - Complications of pedicle screws

1. The 79th Annual Congress of the Japanese Orthopaedic Association, Yokohama, Japan, May 18-21, 2006.

Symposium 9: Posterior treatment of idiopathic scoliosis using pedicle screws

1. 3rd International Chinese Scoliosis Meeting, Beijing, China, May 22, 2006.

Current scoliosis surgical treatment: *What’s new, what’s out*

1. Global Spine – Techniques and Technologies from Skull to Sacrum, BroadWater, Las Vegas, NV, June 9-11, 2006.

* Use of pedicle screws & posterior osteotomies to avoid anterior releases in adult scoliosis & kyphosis
* Fixed sagittal imbalance
* Adult degenerative deformity practice
* Moderator - Pediatric and Adult Spinal Deformity
* Moderator - Session 3: Advanced TL Techniques
* Moderator - Session 4: Advanced Techniques in Spinal Deformity Surgery
* Panel - Case Discussion: Combined Coronal and Sagittal Malalignment
* Panel - Case Discussions: Spinal Deformity Treatment for >age 60

Panel - Case Discussions: Pediatric

1. 13th International Meeting on Advanced Spine Techniques, BroadWater, Scoliosis Research Society, Athens, Greece, July 12-15, 2006.

* ICL: Advanced Pediatric & Adult Spinal Deformity Correction Techniques
* Considerations for optimal spinal deformity surgical correction
* Specific adult deformity correction techniques
* ICL: Scoliosis Affecting the Adult
* Primary sagittal deformity – adjacent segment problems
* Primary coronal deformity dealing with double major curves & “when can we be selective?”
* ICL: Fusionless Treatment of Scoliosis
  + - Preliminary experience with anterior tethering for scoliosis & modified “growing rod” techniques

1. Training for Tomorrow’s Deformity Surgeon, Medtronic Sofamor Danek, Chicago, IL, August 28-29, 2006.

* Succeeding in clinical practice as a spinal deformity surgeon
* Advanced thoracic, lumbar, sacral, and iliac screw placement
* Biomechanical analysis of a custom disc prosthesis placed below a simulated long lumbar fusion construct: Is it stable and feasible?

Adult case presentations

1. Spine Surgeon Transition Program, Medtronic Sofamor Danek, Memphis, TN, October 12-13, 2006.

Construct planning. How, when & why

1. The Pediatric Spine, Washington University School of Medicine, St. Louis, MO, October 14, 2006.

* Pediatric spondylolisthesis and kyphosis

Congenital and dysplastic scoliosis

1. Emerging Trends and Advanced Surgical Techniques in Spinal Deformity: Symposium 2006, Medtronic Sofamor Danek, St. Louis, MO, November 2-4, 2006.

* Are anterior releases necessary for pediatric scoliosis correction with pedicle screws and appropriate posterior releases/osteotomies?
* Avoiding anterior approaches in adult spinal deformity reconstructions: The role of osteotomies and TLIFs/PLIFs

VCR for severe pediatric or adult fixed spinal deformity

1. 15th Annual Spine Surgeons Transition Program’s Course “Spine+Science+Management”, Medtronic Sofamor Danek, New Orleans, LA, November 17-18, 2006.

* Cervicothoracic fixation techniques

Incorporating deformity into your practice

1. The 17th Annual Dr. Tom Lowe Spine Symposium: The Surgical Management of Spinal Disorders, BroadWater, Beaver Creek, CO, January 14-15, 2007.

* Surgical technique forums: Treatment of post-traumatic kyphosis with PSOs
  + - Spinal deformity: Revision surgical treatment for adult scoliosis: Indications and techniques for addressing coronal balance preop and postop. What is the best way to fix the sacrum?

1. ONE Spine: Controversies in Spine Surgery 1st Annual Meeting, BroadWater, Cancun, Mexico, February 3-4, 2007.

* Biomechanical analysis of a custom disc prosthesis placed below a simulated long lumbar fusion constructs: Is it stable and feasible?
* MAST deformity applications
* Posterior VCR
* Primary treatment of adjacent segment problems

Treatment of kyphotic spinal deformity: Is there any reason to go anterior anymore?

1. American Academy of Orthopaedic Surgeons 74th Annual Meeting, San Diego, CA, February 14-18, 2007.

* ICL 286: Modern Techniques of Cervical Spine Surgery
* Upper thoracic pedicle screws
* ICL 345: Congenital Scoliosis/Spinal Deformity in Young Children
  + - Infantile and juvenile idiopathic scoliosis

1. Pediatric Orthopaedic Society of North America Specialty Day, American Academy of Orthopaedic Surgeons, San Diego, CA, February 14-18, 2007.

* ICL: Fusionless treatment of the growing child
  + - When is fusion the better option?

1. Current Concepts in Emerging Technologies in Spine, Medtronic Spinal & Biologics, Vail, CO, February 18-21, 2007.

* Segmental fixation in adolescent deformity
* Panelist - Breakout Session 1: Adolescent Idiopathic Deformity: Selection of Distal Fusion Level

Panelist - Breakout Session 7: Adult Deformity: Advanced Posterior Techniques

1. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Spinal & Biologics, Scottsdale, AZ, February 23-24, 2007.

* Revision deformity surgery: Assessment, treatment, and prevention
* Anterior scoliosis surgery – Indications for open & endoscopic approaches
* Free hand TPS: Basic & advanced techniques: Construct planning & execution for scoliosis correction utilizing pedicle screws

PSO & VCR for severe spinal deformity

1. Current Concepts in Spinal Deformity 6th Annual Symposium, Las Vegas, NV, March 2, 2007.

* Is anterior surgery necessary?

Multilevel osteotomies for revision surgery

1. SRS Beijing Course, Scoliosis Research Society, Beijing, China, April 4, 2007.

* Adult idiopathic & degenerative scoliosis: Principles of fusion level selection & surgical techniques

Surgical treatment of severe sagittal and/or coronal spinal deformity

1. Pediatric Spinal Deformity: On the Cutting Edge, BroadWater, Miami, FL, April 13-14, 2007.

* Avoiding anterior release and fusion in ALL pediatric deformity treated with posterior segmental pedicle screw fixation - is it possible?
* Posterior vertebral column resection for non-idiopathic severe pediatric deformity

AIS case discussion

1. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Spinal & Biologics, Dallas, TX, April 20-21, 2007.

* Freehand TPS: Basic & advanced techniques: Construct planning/execution for scoliosis correction utilizing pedicle screws
* Revision deformity surgery: Assessment, treatment, & prevention
* Role of TLIF in deformity
* PSO and VCR for severe spinal deformity
* Anterior scoliosis surgery – Indications for open and endoscopic approaches

AIS case discussions

1. Aging Spine Care: Cases in Surgical & Non-Surgical Management, Medtronic Spinal & Biologics, Chicago, IL, April 27-28, 2007.

* Adjacent level management
* Degenerative lumbar scoliosis (DLS) evaluation & treatment options
* Adult degenerative lumbar scoliosis cases
* Moderator - Degenerative Scoliosis

Moderator - How I Treated it and Take Home Points

1. Spinal Deformity Study Group, Medtronic Spinal & Biologics, Scottsdale, AZ, May 10-12, 2007.

Infantile, juvenile, and adolescent deformity: an interactive discussion

1. National Association of Orthopaedic Nurses Congress, St. Louis, MO, May 22, 2007.

Pediatric and adult spinal deformity surgery in 2007: Extreme makeover

1. Chilean Spine Course, Santiago, Chile, May 24-26, 2007.

* Advantages & benefits and also shortcomings of the Lenke classification system
* Advice & tricks for placing TPS and correction maneuvers
* Evaluation and treatment philosophy of adult degenerative scoliosis (ADS)
* Corrective strategies for sagittal imbalance

Surgical treatment of severe scoliosis/kyphosis

1. The Spine Summit: Emerging Technologies & Best Practices, BroadWater, Maui, HI, June 8-10, 2007.

* Adult idiopathic & degenerative scoliosis: Principles of fusion level selection & surgical techniques
* Surgical treatment of primary adult scoliosis: The SRS adult deformity classification system – patients who have not had prior surgery – How do we pick levels and when do we need to go to the sacrum?

When is posterior instrumentation and fusion of the entire curve necessary?

1. Current Concepts & Techniques of Spinal Deformity, Medtronic Spinal & Biologics, Toronto, Canada, June 15-16, 2007.

* Classification of idiopathic scoliosis, determination of fusion levels and the role of selective fusion
* Derotation
* Free hand technique of thoracic pedicle screw insertion
* Gaines procedure
* Approach to high-grade spondylolisthesis
* Lumbar & sacral pedicle screw placement
* Spinal bifida surgical treatment

Vertebral column resections (VCR)

1. Training Tomorrow’s Deformity Surgeon, Medtronic Spinal & Biologics, Chicago, IL, June 24-26, 2007.

* Succeeding in clinical practice as a spinal deformity surgeon
* Advanced thoracic, lumbar, sacral, and iliac screw placement
* Phases of surgeon development
* Adjacent level management
* Fixed sagittal imbalance

Posterior VCR

1. 14th International Meeting on Advanced Spine Techniques, BroadWater, Scoliosis Research Society, Paradise Island, Bahamas, July 9-11, 2007.

* ICL: Fusionless Treatment of Scoliosis
* Preliminary experience with anterior tethering for scoliosis & modified “growing rod” techniques
* ICL: Scoliosis Affecting the Adult
  + - Primary sagittal deformity – adjacent segment problems

1. Emerging Trends and Advanced Surgical Techniques in Spinal Deformity: Symposium 2007, Medtronic Spinal & Biologics, St. Louis, MO, November 8-10, 2007.

* Posterior VCR for severe pediatric/adult spinal deformity: Indications/results/tips & pearls
* Adult revision cases

Pediatric revision cases

1. Spinal Deformity Study Group Winter Meeting, Chicago, IL, November 29-December 1, 2007.

* Selective vs. non-selective fusions for AIS
* AIS surgery in brace vs. no brace patients
* Revision incidence in AIS
* Clinical appearance of patients with TPS vs. other constructs
* LEV modifier for AIS classification
* Radiographic assessment: 1-year vs. 2-year. Is 1-year sufficient?

Case presentations

1. ONE Spine: Controversies in Spine Surgery 2nd Annual Meeting, BroadWater, Cancun, Mexico, February 7-9, 2008.

* Posterior VCR
* Sagittal imbalance & PSOs
* Con: The patient should undergo pain management without surgery as risks to treatment due to medical comorbidities outweigh the benefits
* Adult degenerative lumbar scoliosis case

Moderator - Adult Deformity

1. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Spinal & Biologics, Los Angeles, CA, February 15-16, 2008.

* Free hand TPS: Basic & advanced techniques: Construct planning/execution for scoliosis correction utilizing pedicle screws
* PSO & VCR for severe spinal deformity
* Revision deformity surgery: Assessment, treatment, and prevention

Pediatric osteotomy case discussions

1. American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 5, 2008.

* ICL 170: Congenital Scoliosis and Spinal Deformity in Young Children
  + - Infantile and idiopathic scoliosis

1. Pediatric Orthopaedic Society of North America Specialty Day, American Academy of Orthopaedic Surgeons, San Francisco, CA, March 5, 2008.

* ICL: PSO & VCR for Posterior Deformity Correction
  + - Posterior VCR for severe scoliosis

1. Spine Surgeon Transition Program, Medtronic Spinal & Biologics, Memphis, TN, March 13-15, 2008.

* Sagittal imbalance and PSOs

1. Aging Spine Care, Medtronic Spinal & Biologics, Chicago, IL, April 4-5, 2008.

* Radiographic and clinical factors important for decision making in degenerative lumbar scoliosis
* How I treat it and take home pearls
  + - Adult DLS cases

1. MAST Deformity Expanded Users Group Meeting, Medtronic Spinal & Biologics, Memphis, TN, April 10-11, 2008.

* Deformity overview: Past and present

Principles of segmental, regional, and global correction

1. 4th Advanced Deformity Meeting, DePuy Spine, Zurich, Switzerland, April 17-18, 2008.

* Indications for posterior vertebral resection
* Are health related outcomes, QUALY’s, SRS-22 an effective tool for evaluating patient satisfaction in this group? Is a new questionnaire necessary?

Early prophylactic intervention – stapling, tethering, wedge osteotomies

1. Advanced Techniques in Deformity Surgery for Spine Surgeons, Medtronic Spinal & Biologics, Albuquerque, NM, May 1, 2008.

* PSO and VCR for severe spinal deformity
* Panelist- Case Presentation and Panel Discussion

Moderator - Panel Discussion: Future of Deformity Surgery

1. 25th Anniversary of the First Surgery using CD® Instrumentation, Medtronic Spinal & Biologics, Paris, France, June 19-20, 2008.

Post-laminectomy proximal thoracic hyperkyphosis in a neurofibromatosis patient with severe myelopathy and chin-on-chest deformity

1. The Surgical Management of Spinal Disorders, International Meeting on Advanced Spinal Deformity Pre-Course, BroadWater, Scoliosis Research Society, Shenzhen, China, July 7, 2008.

* Adult scoliosis and kyphosis: Evaluation and surgical management
* Spondylolisthesis: Spectrum of care for all ages

Trauma case discussion

1. 15th International Meeting on Advanced Spine Techniques, BroadWater, Scoliosis Research Society, Hong Kong, China, July 8-11, 2008.

* Posterior VCR in adult deformity
* Posterior kyphosis correction with TPS & SPOs: Are anterior releases needed anymore?
* Transitioning from open to less invasive deformity surgery
* HOMSA – Minimally invasive techniques as an adjunct to open surgery
* Leader - Roundtable Discussion on Adult Deformity
* Faculty - ICL: MAST Deformity: Advances in Minimally Invasive Treatment
* Faculty - ICL: Triplanar Correction in Adult Deformity
* Faculty - ICL: Critical Evaluation of Bone Grafting Technologies: Bone graft options for adult deformity
* Faculty - ICL: Pediatric Deformity: Derotation and Emerging Technologies: Pediatric spinal osteotomies
* Faculty - Fundamentals Session: Deformity
* AIS classification, selection of fusion levels, and correction techniques
* Advanced pediatric & adult spinal deformity correction techniques
* Moderator - Adult Deformity
  + - Adult spinal deformity cases

1. Advances in Spinal Deformity 1st International Symposium and Cadaveric Workshop, Medtronic Spinal & Biologics, Toronto, Ontario, Canada, September 5-6, 2008.

* The classification of AIS
* Free hand technique
* O-Arm® imaging system overview

Vertebral column manipulation (VCM)

1. Spinal Deformity 2008: Optimal Clinical Practice, SRS Young Surgeon Program, Medtronic Spinal & Biologics, Salt Lake City, UT, September 10, 2008.

HOMSA: Hybrid open muscle sparing approach

1. SRS Pre-Meeting Course, Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10, 2008.

* Vertebral column resection for AIS
* Moderator - Indications and Techniques to Posterior Osteotomies in AIS Patients (Risser 0-5)

Panelist - Avoiding Disasters

1. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, UT, September 10-13, 2008.

* ICL: 3D Scoliosis Evaluation and Classification
* Case presentation & clinical relevance of 3D analysis

Hibbs Society Session: Vertebral column resection (VCR) for AIS

1. SRS World Wide Program on Spinal Deformity: Current Concepts, Scoliosis Research Society, New Delhi, India, October 2-4, 2008.

* Selective fusion – outcomes/evidence for recommendations
* Complications in the treatment of adult spinal deformity
* Neurological complications – how to prevent them

Case example: Traction and posterior approach

1. Emerging Trends and Advanced Surgical Techniques in Spinal Deformity: Symposium 2008, Medtronic Spinal & Biologics, St. Louis, MO, November 6-8, 2008.

* SPO vs. PSO vs. VCR for thoracic and TL kyphosis realignment: Sorting out the risk/benefit ratios
* Moderator - Adult Complex Revisions
* Case discussions
* Moderator - Adolescent and Adult Deformity Cases
  + - Case discussions

1. 17th Annual Spine Surgeons Transition Program’s Course “Spine+Science+Management”, Medtronic Spinal & Biologics, New Orleans, LA, November 20-22, 2008.

* Complex spinal deformity treatment: 2008

Complex case discussions

1. 5th Annual International Pediatric Orthopaedic Symposium, American Academy of Orthopaedic Surgeons, Orlando, FL, December 3-7, 2008.

* Indications and techniques for spinal osteotomies and vertebral resection in idiopathic scoliosis and Scheuermann kyphosis

Panel Member - Case-Based Discussions

1. 19th Annual Dr. Thomas Lowe Spine Symposium: The Surgical Management of Spinal Disorders, BroadWater, Beaver Creek, CO, January 17-20, 2009.

* Complications on patients whom I have operated. What are the risk factors for such situations? How do I get out of the quicksand?
* Moderator - Spinal Deformity: Fusionless and Minimally Invasive Techniques – Hope or Hype?
* Panel - Spinal Deformity: AIS and Adult

Panel - Spinal Deformity: Complications

1. ONE Spine: Controversies in Spine Surgery 3rd Annual Meeting, BroadWater, Cancun, Mexico, February 6-7, 2009.

* Moderator - Adult Deformity Challenges
* The best surgical approach is an anterior DLIF/XLIF +/- posterior instrumentation
* The optimal surgical treatment is anterior release/ASF with post Inst/SPOs PSF
* Thoracic VCR for severe scoliosis

Optimal treatment is brace/extension cast instead of posterior ORIF

1. Advanced Techniques in Deformity Surgery for Pediatric Spine Surgeons, Medtronic Spinal & Biologics, Philadelphia, PA, February 20-21, 2009.

* PSO and VCR for severe spinal deformity

Pediatric osteotomy case discussions

1. American Academy of Orthopaedic Surgeons, 76th Annual Meeting, Las Vegas, NV, February 25-28, 2009.

* ICL 244: Congenital Scoliosis and Spinal Deformity in Young Children
  + - Infantile and idiopathic scoliosis

1. Spine Surgeon Transition Program, Fireside Series: Avoiding and Managing Complications in Spine Surgery, Medtronic Spinal & Biologics, Las Vegas, NV, February 25, 2009.

Avoiding and managing complications in spine surgery

1. Open Deformity Meeting, Medtronic Spinal & Biologics, Madrid, Spain, March 6-7, 2009.

* The Lenke classification of AIS: Treatment directions
* Vertebral column manipulation (VCM)
* Posterior vertebral column resection (VCR)
* Thoracic pedicle screws: Start points and free hand technique
* Adult spinal deformity cases

Pediatric spinal deformity cases

1. Pediatric Spinal Deformity: On the Cutting Edge II, BroadWater, Coral Gables, FL, April 3-4, 2009.

* Pulmonary function after AIS surgery
* Potpourri of new information in AIS
* Panel Member - Discussion: Fusion Level and Approach Selection in AIS

Panel Member - Discussion: Neurological Changes or Monitoring Change with Deformity Surgery

1. XXII Brazilian Spine Society Meeting, Scoliosis Research Society, Iguassu Falls, Parana, Brazil, April 28-May 1, 2009.

* Management of sagittal deformities in adults: Decision making on osteotomies (SPO/PSO/VCR)
* Newer techniques and trends in pediatric spinal deformity
* Fixation of L5-S1: Techniques and indications in pediatric deformity

Adult spinal deformity cases

1. 1st Chinese Scoliosis Research Society International Meeting, Scoliosis Research Society, Beijing, China, May 14-18, 2009.

* Avoiding neurologic complications during VCR surgery
* Avoiding neurologic complications during kyphosis surgery
* Updates and additions to the Lenke classification system of AIS

AIS cases

1. X Congress of the South African Spine Society, Medtronic Spinal & Biologics, Sun City, South Africa, May 25-31, 2009.

* Construct selection for posterior correction
* Treatment options and overview of surgical strategies – posterior-only
* Coping with complications. Cases not gone to plan – Case discussions
* Posterior vertebral column resection
* Does coronal balance play a role in the outcomes of adult spinal deformity?
* Pedicle screws for pediatric & adult spinal deformity
* Evaluation and surgical treatment of adult degenerative lumbar scoliosis
* Workshop - Posterior Correction of AIS with Vertebral Derotation using the VCM Device
* Workshop - TLIF for Pediatric and Adult Deformity
* Workshop - Degenerative Spinal Deformities
* Workshop - Pedicle Subtraction Osteotomy
* Workshop - HOMSA

Workshop - Iliac Screws

1. 16th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Vienna, Austria, July 15-18, 2009.

* ICL 1B: Spondylolisthesis in the Adolescent and Young Adult
* High grade spondylolisthesis: When and how to reduce
* Moderator - ICL 2D – Adult Deformity II
* VCR for severe adult spinal deformity
* Moderator - ICL 4C – Adolescent Idiopathic Scoliosis II
* Indications and technique for post VCR in severe primary and revision AIS
* ICL 5E – Adult/Pediatric Deformity: My Worst Complication and How I Treated It
* Overview of potential complications and their potential clinical impact
* My worst complication
* Fundamentals Session: Adult Deformity
* Sagittal plane deformity and correction

Moderator - Round Table Discussions: Adult Deformity

1. Scoliosis Research Society 44th Annual Meeting, San Antonio, TX, September 23-26, 2009.

* Complications in Spinal Deformity Surgery: Segment 7 - Do Deformity Surgeons Learn from Their Mistakes?
  + The mistakes I’ve made too many times
* Critical Concepts in Adult Deformity Surgery: Segment 2 - Surgical Techniques for Adult Deformity
  + - Posterior osteotomies: When have you done enough?

1. Spinal Deformity Study Group China Section Meeting, Scoliosis Research Society, Shanghai, China, October 9, 2009.

Activities of Spinal Deformity Study Group-USA

1. Understanding the Treatment of Spine Deformity, Medtronic Spinal & Biologics, Wroclaw, Poland, November 16-18, 2009.
   * AIS classification system
   * What is the current “best practice” for the treatment of idiopathic scoliosis?
   * Surgical approaches – The advantages and drawbacks of using anterior, posterior and combined approaches
   * Conservative medical management of AIS – Who benefits?
   * Complications and revisions of AIS surgery
   * Can the genetic profile predict curve progression in AIS?

The treatment of adult spine deformities – The when, where and how of vertebral osteotomies

1. First European Federation of National Associations of Orthopaedics and Traumatology Expert Meet Expert Forum, Autonomous University of Barcelona, Spanish Spine Society, Barcelona, Spain, November 19-20, 2009.
   * Posterior 3-column osteotomies including pedicle resection and vertebral resection
   * Complications of vertebral osteotomies

Problem with fixation to S1

1. 3rd International Congress on Early Onset Scoliosis and Growing Spine, The Growing Spine Foundation, Istanbul Turkey, November 20-21, 2009.
   * Complications – What is acceptable with current techniques?
   * Moderator - Case Discussion

Moderator - Free Podium presentations

1. 26th AANS/CNS Section on Disorders of the Spine and Peripheral Nerves: Staying Ahead of the Curve: Succeeding in Changing Times, Orlando, FL, February 17-20, 2010.
   * Special Course III: Surgical Techniques for Adult Deformity
     + Segment 2 – Surgical Techniques for Adult Deformity: Posterior osteotomies: When have you done enough?
   * Moderator - Panel 2: Management of Intraoperative Problems in Deformity Cases
   * Questions & Discussion
   * Scientific Session I – Spinal Surgery Ahead of the Curve (New Technology and Techniques
     + Looking ahead in spinal deformity surgery
2. Advanced Deformity for Spine Surgeons Technique Training, Medtronic Spinal & Biologics, Dallas, TX, February 19-20, 2010.
   * Apical derotation maneuvers for the T & L spine
   * PSO and VCR for severe spinal deformity

Safety in spinal deformity surgery/O-Arm/intraoperative imaging

1. 8th Annual AOSNA Fellows Forum, AOSpine North America, Banff, Alberta, Canada, April 8-10, 2010.

Surgical treatment of spinal deformity: State of the art in 2010

1. Society on Scoliosis Orthopaedic and Rehabilitation Treatment 7th International Conference on Conservative Management of Spinal Deformities, Montréal, Canada, May 20-22, 2010.
   * Evaluation and treatment of adult scoliosis

Classification of adolescent idiopathic scoliosis: past, present and future

1. AAOS/SRS Webinar: Idiopathic Scoliosis: Current Concepts, Challenges and Complications, May 25, 2010.
   * Curve classification and guidelines for treatment
   * Role of releases and osteotomies

Complications and how to avoid them: Neurologic injury

1. ONE Spine: 4th Annual Controversies in Spine Surgery, BroadWater, Nassau, Bahamas, June 25-26, 2010.
   * Deformity Challenges
     + Adult spinal deformity update
     + Video: 2010 update: New advances in vertebral body resection for severe adult deformity
     + Case Debate: 58-year-old with untreated AIS and back pain. Posterior-only is the preferred treatment
   * Panelist - Deformity Challenges
   * Moderator - Surgical Technique Forums & Working Lunch. Case Round Tables

Moderator - The Aging Spine

1. Cleveland Spine Review: Hands-on 2010, Cleveland Clinic, Cleveland, OH, July 7-13, 2010.
   * Thoracic instrumentation techniques tricks and pearls
   * Lab: Dorsal Thoracic Exposures and Instrumentation

Deformity cases

1. 17th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Toronto, Ontario, Canada, July 22-24, 2010.
   * Keynote Address - Introduction
   * ICL 1B Spondylolisthesis - The benefit of reduction vs. in situ in the treatment of L5-S1 high-grade spondylolisthesis
   * Moderator - ICL 2D Adult Deformity II: Use of Osteotomies in Adult Spinal Deformity
     + Introduction
     + Post VCR for severe adult deformity
   * Moderator - ICL 3D Adult Deformity III: Decision Making Relative to Extension to the Sacrum Pelvis
     + Enhanced fusion for sacropelvic fusion: Graft options, interbody supplementation and biologics
   * Moderator - ICL 5E Adult/Pediatric Deformity: My Worse Complication and How I Treated It
     + Introduction
     + My Worst Complication
   * Fundamentals Session: Adult Deformity - Sagittal plane deformity in adults: Surgical options

Panelist - Round Table Case Discussions Adult Deformity

1. ONE Spine Fellow’s and Resident’s Course 1st Annual Meeting, Seattle Science Foundation, Seattle, WA, August 20-22, 2010.
   * Surgical planning for AIS: Fusion levels, anterior vs. posterior and minimizing complications

Posterior deformity correction: Techniques/pearls/mistakes

1. SRS/AMCICO Pre-Congress Course, Scoliosis Research Society, Acapulco, Mexico, September 12-13, 2010.
   * Expert Lecture: All you need to know about congenital scoliosis: Classification, diagnosis, associated conditions, management, fusion vs. excision
   * Degenerative Adult Scoliosis
     + Complications: Prevention, recognition and management. Is it worth it (cost vs. benefit)?
   * Sagittal Alignment problems
     + Flatback syndrome: Causes, prevention, correction
     + Posterior spinal osteotomies: Types, indications, execution, complications, outcomes
2. Scoliosis Research Society 45th Annual Meeting, Kyoto, Japan, September 21-24, 2010.

Moderator - Adolescent Idiopathic Scoliosis

1. The 5th International Congress of Chinese Orthopaedic Association, Spinal Deformity Pre-Course, Scoliosis Research Society, Chengdu, China, November 11-14, 2010.
   * SRS Presidential remarks
   * Moderator - Section 1 AIS
   * Moderator - Case Discussions
   * Section 3: Severe Spinal Deformity
     + Posterior osteotomies for the treatment of pediatric and adult spinal deformity
2. 7th Annual International Pediatric Orthopaedic Symposium, Pediatric Orthopaedic Society of North America, Academy of Orthopaedic Surgeons, Orlando, FL, November 29-December 3, 2010.
   * Moderator - ICL: Idiopathic Scoliosis: Selection of Fusion Levels
     + Idiopathic scoliosis: selection of fusion levels
   * ICL Spine: State of the Art Management
     + Selective thoracic fusion: picking the right case and LIV
     + Hemivertebra resection
     + Panelist - Cases: Surgical decision-making scoliosis, kyphosis, EOS
3. Hands-On Workshop, Medtronic Spinal & Biologics, Orlando, FL, December 1, 2010.
   * Moderator - Osteotomies and Instrumentation Techniques to Maximize Correction
     + PSF with instrumentation: Role of releases & osteotomies
   * Moderator - Medtronic Spine: Reduction and Fixation for Spondylolisthesis
     + Reduction vs. in situ in the treatment of high-grade spondylolisthesis
4. The 20th Annual Dr. Tom Lowe Spine Symposium: The Surgical Management of Spinal Disorders, BroadWater, Beaver Creek, CO, January 14-17, 2011.
   * Panelist - Adult Deformity I
   * Panelist - Adult Deformity II
     + Management of kyphosis and sagittal imbalance in the adult patient, both primary and iatrogenic. Classification, decision making and analyzing the risk/benefit ratio
     + Infection
5. Association of Spine Surgeons of India Conference 2011, Association of Spine Surgeons of India, Mumbai, India, January 27-28, 2011.
   * Panel - Planning Surgery in Adolescent Idiopathic Scoliosis
     + Classification of AIS and its role in planning surgery
   * Panel - Adult Scoliosis
     + Proximal and distal junctional problems
   * Corrective Osteotomies for Restoring Sagittal Balance
     + PVCR technique in rigid kyphoscoliosis
   * Guest Lecture: Complications in deformity surgery: Avoidance and effect on outcomes
   * Panel - Spondylolisthesis Management
     + Overview of surgical techniques
6. American Academy of Orthopaedic Surgeons 78th Annual Meeting, San Diego, CA, February 15-19, 2011.
   * ICL 307: Complications of Pediatric Spinal Surgery: Identification, Evaluation, Treatment and Prevention
     + Classification of AIS and its role in planning surgery
   * Symposium: Spinal Deformity: What Every Orthopaedic Surgeon Needs to Know
     + Adolescent idiopathic scoliosis
7. Controversies in Deformity Spine Surgery Symposium, Stryker Spine, Santa Fe, NM, March 4-5, 2011.
   * Classification, operative indications and selection of fusion areas
   * Optimizing safety during spine surgery
   * VCR for severe deformity

TLIF: Use in adult deformity treatment

1. Spinal Deformity LIVE, BroadWater, Washington University School of Medicine, St. Louis, MO, March 10-11, 2011.
   * Live surgery #2: Pediatric posterior VCR
   * Moderator - Case Discussion: Pediatric Revision
     + Pediatric revision cases
   * Live surgery #2: Adult pedicle subtraction osteotomy
   * Moderator - Case Discussions: Adult Revision Deformity
     + Adult revision cases
2. Pediatric Spine Deformity: On the Cutting Edge III, BroadWater, Coral Gables, FL, April 1-2, 2011.
   * Debate: There is No Indication for Thoracoplasty in the Surgical Treatment of AIS
     + Pro
   * VCR in pediatric deformity
   * Panelist - Perioperative Neurological Events

Panelist - AIS

1. Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society, Scoliosis Research Society, Burr Ridge, IL, April 28-30, 2011.
   * Lab 1: Implant placement into the occiput cervical and thoracic spine
   * Lunch Lecture: Optimizing safety in spinal deformity surgery
   * Spinal osteotomies: SPO/PSO/VCR

Lab 2: Spinal osteotomies: SPO/PSO/VCR

1. 18th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Copenhagen, Denmark, July 14-16, 2011.
   * Optimizing neurologic safety during spinal deformity surgery
   * ICL 2C – Adult Deformity II: Use of Osteotomies in Adult Spinal Deformity
     + Vertebral column resection
   * Moderator - Debate 5: Optimal Treatment for a 15-year-old, Two Years Post-Menarche with a 45-Degree Lenke 5C Scoliosis
   * ICL 3C – Adult Deformity III: Decision Making Relative to Extension to the Sacrum Pelvis
     + Mistakes to avoid and surgical strategy in obtaining optimum balance at the lumbosacral junction
2. Scoliosis Research Society 45th Annual Meeting, Louisville, KY, September 14-17, 2011.
   * Moderator - Pre-Course: Session II: Techniques for Optimizing Safety and Outcomes in Spinal Deformity Surgery
     + Optimizing safety during posterior vertebral column resection (VCR) surgery
     + Optimizing safety in spinal deformity surgery: What I have learned in my 20-year career
   * Opening Ceremonies
   * Introduction of the 2011 Harrington Guest Lecturer: Keith H. Bridwell, MD
   * SRS Lifetime Achievement Award for 2011: Ronald L. DeWald, MD
   * Presidential Address

Introduction to the 41st President of the SRS

1. Advances in Spine: Pediatric Deformity, Medtronic Spinal & Biologics, Memphis, TN, October 3-4, 2011.
   * VCR for severe pediatric spinal deformity
   * Use of the O-Arm
   * Determining distal fusion levels in adolescent idiopathic scoliosis
   * Osteotomy overview and planning

Salvage techniques and revision scoliosis surgery

1. Pre XI SILACO-Current Techniques in Scoliosis, Medtronic Spinal & Biologics, Buenos Aires, Argentina, October 11, 2011.
   * Current approach to AIS: When to go anterior, and posterior fusion levels
   * Optimizing 3D correction of pediatric spinal deformities

Complications and revisions of AIS surgery

1. XI Congress SILACO, Scoliosis Research Society, Buenos Aires, Argentina, October 12-15, 2011.
   * Fusion levels and instrumentation planning for adolescent idiopathic scoliosis
   * Round Table Discussion: This went well…this did not
   * Severe and difficult curve (>90°) management and complications: PSO and VCR

Workshop - Osteotomies: PSO and VCR

1. Adult Spine Deformity Hands-On Adult. Chicago, IL, November 2-5, 2011.
   * Optimizing safety in spinal deformity surgery
   * Moderator - Session 2
     + Spinal osteotomies: SPO/PSO/VCR

Moderator - Case Discussions

1. China Orthopaedic Association, Scoliosis Research Society, Beijing, China, December 1-2, 2011.
   * Moderator - Early-Onset Spinal Deformity
   * Moderator - Case Discussions on Early-Onset Spinal Deformity
   * Moderator - Debate: Best Treatment for a 55-degree Thoracolumbar AIS Curve
   * Moderator - Adult Spinal Tumors and Deformity
   * Moderator - Case Discussions on Complex Pediatric and Adult Deformity
   * Panel - Case Discussions on AIS and Pediatric Kyphosis
   * Panel - Case Discussions on Adult Idiopathic Scoliosis
   * Optimizing safety during spinal deformity surgery
   * Debate: Best Treatment for a 95-degree Fixed Angular Thoracolumbar Kyphosis in an Adult
     + Posterior VCR

Closing remarks

1. AOSpine Davos Course, Davos, Switzerland, December 11-16, 2011.
   * Overview lecture: State of deformity surgery in 2011
   * Complex Case Presentation: Adult Fixed Coronal and Sagittal Imbalance (Revision Surgery)
     + Case solution
   * Complex Case Presentation: Congenital Scoliosis with Spine Anomalies and Rib Fusions
     + Take-home message
   * Complex Case Presentation: Syndromal Scoliosis-Neurofibromatosis with Dysplastic Thoracic Kyphoscoliosis
     + Update lecture

Moderator - Complex Case 1: Adult Scoliosis with Double Major Curve

1. Spinal Deformity Symposium, Medtronic Spinal & Biologics, Barcelona, Spain, January 19-20, 2012.
   * Optimal correction of scoliosis curves based on anchorage and correction maneuvers
   * The when, where and how vertebral osteotomies

Revision spinal deformity surgery: who is a candidate and how to successfully complete

1. Spine on the Mountain, BroadWater, Vail, CO, January 26-28, 2012.
   * Frontiers of spinal deformity – lessons for the typical spine practice
   * Improving outcomes: When to go front, when to go back, and when to go both front and back

Panel - When does a lumbar degenerative case become a deformity?

1. American Academy of Orthopaedic Surgeons 79th Annual Meeting, San Francisco, CA, February 7-11, 2012.
   * ICL: Complications of Pediatric Spinal Surgery: Identification, Evaluation, Treatment and Prevention
     + Complications of spine osteotomies
   * ICL: My Worst Complication in Spine Surgery: Evaluation, Management and Outcomes of Adult Deformity
     + Adult revision Scheuermann’s kyphosis patient undergoing a posterior vertebral column resection (VCR) with intraoperative aortic injury
   * ICL: Spinal Growth Modulation
     + Anterior tether
2. ASSICON Worldwide Conference, Scoliosis Research Society, New Delhi, India, February 23-26, 2012.
   * Pitfalls and complications in the treatment of EOS
   * Surgical treatment of severe scoliosis deformities step by step (with videos)

Signal change in the OR: What the next steps should be

1. Complications in Pediatric Spinal Deformity, BroadWater, Salt Lake City, UT, March 1-3, 2012.

Severe kyphosis and myelopathy

1. Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society, Burr Ridge, IL March 16-17, 2012.
   * Welcome Introduction
   * Optimizing safety in spinal deformity surgery
   * Spinal osteotomies: SPO/PSO/VCR
   * Cases & panel discussions

Hands-on Skills Lab - Spinal Osteotomies: SPO/PSO/VCR

1. Spinal Deformity Live, BroadWater, Washington University School of Medicine, St. Louis, MO, April 19-20, 2012.
   * Live surgery 1: Pediatric deformity
   * Live surgery 2: Adult deformity
   * Moderator - Adult Primary Deformity
     + Adult case discussion
   * Moderator - Pediatric Revision Deformity
     + Pediatric case discussion
2. 5th Annual Global Dubai Spine Masters. State-of-the-Art Complex Spine Reconstruction & Deformity Management Strategies. Dubai, United Arab Emirates, May 6-8, 2012.
   * Surgical planning in AIS
   * Techniques for limiting blood loss during major spinal surgeries
   * Free hand pedicle screw placement in the scoliotic spine
   * Video Case Presentations
     + Pedicle subtraction osteotomy
   * Untreated idiopathic scoliosis in the young adult: When do you start considering surgical intervention
   * Keynote Lecture: The role for vertebral column resections in the management of severe spinal deformity
   * Panel - Degenerative Deformity. Case Presentations
     + Elderly patients with a double major idiopathic scoliosis deformity
   * Panel - Case Presentations
     + Thoracolumbar burst fracture with progressive kyphosis in an osteoporotic female
   * Moderator - Case Presentations
     + Cases that could be ended at L5 or sacrum/pelvis
3. 1st Annual Dilemmas in Deformity, South Devan, United Kingdom, May 9-10, 2012.
   * Flatback
   * Debate: Balancing or Breaking the Spine
     + Breaking

Keynote: Spinal osteotomies

1. Pediatric Orthopaedic Society of North America Annual Meeting, American Academy of Orthopaedic Surgeons, Denver, CO, May 17-18, 2012.
   * Moderator - Spine Symposium
   * Instructional Course Lectures
     + TLIF for pediatric deformity
     + Vertebral column manipulator (VCM)
2. 19th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Istanbul, Turkey, July 16-20, 2012.
   * Moderator - General Session 1: Whitecloud Award Nominees – Clinical Science
   * Instructional Course Lecture 2C: Adult Deformity II: Use of Osteotomies in Adult Spinal Deformity
     + Vertebral column resection for severe adult deformity
   * Instructional Course Lecture 2D: Adolescent Idiopathic Scoliosis I: Classification and Fusion Level Selection
     + How the Lenke Classification System guides fusion levels
   * Complications Series: My Worst Complication in AIS and Strategies to Prevent
   * Instructional Course Lecture 4D: Adolescent Idiopathic Scoliosis II: Correction Techniques for Simple to Severe Curves
     + Vertebral column resection
3. Scoliosis Research Society 47th Annual Meeting and Pre-Meeting Course, Chicago, IL, September 5-8, 2012.
   * Cases for Discussion: Revision spondyloptosis resection surgery from a posterior-only approach: Review of four cases
   * Sagittal Plane Deformity: Cradle to Grave
     + Sagittal plane in neuromuscular spinal deformity
   * Has the refinement of the vertebral column resection technique (VCR) forever changed the approach to the treatment of severe spinal deformities in children over the past decade?
     + Panel - Debate and Case Discussion: Has Pedicle Screw Instrumentation and VCR Replaced the Need for Multi-Stage Surgery for the Treatment of Severe Pediatric Spinal Deformity?
4. Innovative Solutions for Spinal Deformity – Addressing Surgical Complications, Medtronic Spinal & Biologics, Memphis, TN, September 20-21, 2012.
   * Use of Enabling Technologies in Deformity Surgery
     + Safety in spinal surgery: The role of navigation and neural monitoring
   * Derotation Techniques & Associated Challenges
     + Case presentations and key learnings
     + Enbloc/hybrid VCM
   * Lab Technique Overview

Adult lab technique demo

1. Master’s Deformity Peer-to-Peer, DePuy Spine, Raynham and Boston, MA, September 28-29, 2012.
   * Seeing the spine in 3D: Classification
   * Panelist - Coronal Imbalance in Adult Deformity Surgery

Moderator - VCR: How Aggressive Does Your Approach Need to be for Severe Pediatric Deformity >90°?

1. 18th Annual Meeting of Spine Society of Ho Chi Minh City Vietnam combined with BJD Decade, Worldwide Conference, Scoliosis Research Society, Ho Chi Minh City, Vietnam, November 30-December 2, 2012.
   * Classification and operative treatment of adult idiopathic scoliosis
   * The basic science and clinical reality of spinal tethering for juvenile scoliosis
   * Use of various spinal osteotomies for correction of spinal kyphosis

The use of TLIFs for correction of lumbar segmental instability with or without regional/global spinal deformity

1. The Surgical Management of Spinal Disorders, 22nd Annual Dr. Tom Lowe Spine Symposium, BroadWater, Beaver Creek, CO, January 18-21, 2013.
   * Session 1: Complications. My Worst Complications—And What Can We Learn
     + Case 2: Adult spinal deformity complications
   * Session 3: Adult Deformity I
     + Avoiding and treating neurologic complications in adult deformity surgery
     + Case 1: Lumbosacral pseudarthrosis following idiopathic scoliosis surgery. Why did it happen? How do we fix it?
   * Moderator - Session 10: Adult Deformity II. Case Presentations
     + Complications, other than neurologic, in the surgical treatment of adult spinal deformity. What are the common complications, can we reduce the prevalence and how do they impact patient care?
     + Case 3: Major vascular injury during posterior 3-column surgery
2. Spine on the Mountain: Global Spinal Balance, BroadWater, Vail, CO, January 31-February 2, 2013.
   * Panel - Session 3: Biologics. Case Presentations
   * Session 4: Adult Lumbar Degenerative Stenotic Scoliosis
     + My 5 most important tips when treating adult lumbar degenerative stenotic scoliosis
   * Panel - Session 4: Adult Lumbar Degenerative Stenotic Scoliosis. Case Presentations
   * Panel - Session 5: Thoracolumbar Spine. TL Degenerative Deformity Cases

Grade 2/3 spondylolisthesis. How I approach it

1. Association for Collaborative Spine Research, Chicago, IL February 15-16, 2013.
   * Research III: Deformity

AOSpine Scoli-Risk-1 study

1. Spinal Deformity Live, BroadWater, Washington University School of Medicine, St. Louis, MO, March 7-9, 2013.
   * Live Surgery #1: Pediatric Deformity Case
   * Moderator - Session 4: Concurrent Case Discussions: Primary Pediatric Deformity
   * Moderator - Dinner Cases
   * Live Surgery #2: Adult Deformity Case

Moderator - Session 8: Case Discussions: Adult Revision Deformity

1. American Academy of Orthopaedic Surgeons 80th Annual Meeting, San Francisco, CA, March 19-23, 2013.
   * ICL 125: Complications of Pediatric Spinal Surgery: Identification, Evaluation, Treatment and Prevention
     + Complications of spine osteotomies: Smith-Petersen/Ponté osteotomy (SPO), pedicle subtraction osteotomy (PSO) and vertebral column resection (VCR)
2. Scoliosis Research Society Symposium: A Decade of Change in the Treatment of Pediatric & Adult Spinal Deformity: What innovations in diagnostic, guidance and surgical techniques have proven effective? 80th AAOS Annual Meeting, San Francisco, CA, March 20, 2013.

Has the refinement of the vertebral column resection technique (VCR) revolutionized the approach to the treatment of severe spinal deformities in children over the past decade?

1. Global Spine Congress 2013: Fundamentals in Spine Deformity Care, AOSpine, Hong Kong, China, April 2-4, 2013.
   * Spinal Deformity in the Child

Adolescent idiopathic scoliosis

Panelist - Case Presentations with Panel Discussion

1. Spinal Deformity Down Under, Sydney, Australia, April 5-6, 2013.
   * Classification: Does it lead to improved outcomes?
   * Three-dimensional correction of AIS: Techniques, is there a “gold standard”?
   * Case 4 - VCR in pediatric deformity
   * Osteotomies and VCR: Decision making and surgical technique
   * Pitfalls in adult deformity: Proximal junctional kyphosis
     + Crossing the lumbosacral junction or stopping at L5
2. 4th Annual Pediatric Spinal Deformity: On the Cutting Edge, BroadWater, Coral Gables, FL, April 12-13, 2013.
   * Session III: Complications in Deformity Surgery
     + Complications of VCR
   * Session IV: AIS
     + VCR techniques for severe deformity: How to do it and how to learn it
3. 6th Annual Spring Deformity Surgeon Education Symposium: Complications in Spine Deformity, Guest Speaker, Stryker Spine, New Orleans, LA, April 25-27, 2013.

Optimizing neurologic safety in spinal deformity surgery

1. Pediatric Orthopaedic Society of North America Annual Meeting, American Academy of Orthopaedic Surgeons, Toronto, Ontario, Canada, May 2-3, 2013.
   * Period 1, Debate Session C: The Thoracolumbar (Lenke 5) Curve
     + I only do posterior approach
   * Debates Session D: High Grade Spondylolisthesis
     + The case for reduction and interbody fusion
   * Panel Member - High Grade Spondylolisthesis Case Presentations/Panel Discussion

Moderator - Period 2: Free Podium presentation Session

1. SILACO-GEER Worldwide Conference Pre-Meeting Course, Spain Spine Society, Scoliosis Research Society, Valencia, Spain, May 29, 2013.
   * Session II: Complications and Reconstruction
     + Reconstructive surgery in AIS
     + Debate: Severe AIS: No need for anterior approach for severe AIS
     + Panel 2 - Case Presentations – AIS
   * Session V: Adult Scoliosis Deformity in the Elderly
     + Restoration of sagittal balance of the spine in the elderly
   * Session VI: Surgical Treatment of Adult Scoliosis
     + PJK risk factors and management
2. ONE Spine Master’s Course: 2013 Controversies in Spine Surgery, Seattle Science Foundation, Seattle, WA, June 7, 2013.
   * Featured Speaker: Stenosis at the bottom of spinal deformities and deformity constructs

Hands-On Cadaver Lab - Posterior osteotomy techniques

1. 20th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Vancouver, British Columbia, Canada, July 10-13, 2013.
   * Moderator - Concurrent Roundtable Session 1B: Adolescent Idiopathic Scoliosis

Moderator - Concurrent Roundtable Session 3D: My Most Complex and Challenging Case

1. Hands-On Workshop: Implant Selection in the Complex Spine, Medtronic Spinal & Biologics, 20th International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Vancouver, British Columbia, Canada, July 12, 2013.
   * Design rationale for complex spine implants
   * Case studies in AIS

Hands-on SOLERA 5.5/6.0 instruments and implants with sawbones

1. Fourth Annual ONE Spine Resident’s & Fellow’s Course, Seattle Science Foundation, Seattle, WA, August 16-18, 2013.
   * Hands-on Cadaver Lab & Exhibits
   * Posterior osteotomy techniques

Posterior deformity correction: Techniques, pearls and mistakes

1. Scoliosis Research Society 48th Annual Meeting Pre-Meeting Course, Lyon, France, September 18, 2013.
   * Combined Afternoon Session 1: Techniques for the Preservation of Sagittal Balance: An International Perspective
     + Sagittal imbalance due to congenital dorsal hemivertebra: When is treatment indicated?
   * Educational Program, Half-Day Course 3: Sagittal Plane Deformity Corrective Techniques
     + Osteotomy techniques: Vertebral column resection
2. Evolution of Therapies in Sagittal Plane Deformity: “30 Years of Innovation and Counting”, Medtronic Spinal & Biologics, Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 19, 2013.

Spinal column realignment in the AIS patient

1. Early Onset Scoliosis Symposium: Pushing the Boundaries of Spine Treatment with Low Dose Images, EOS Imaging, Scoliosis Research Society 48th Annual Meeting, Lyon, France, September 19, 2013.

How EOS has changed my practice

1. Innovative and Advanced Surgery of the Degenerative and Deformed Lumbar Spine, St. Louis University, Saint Louis, MO, September 26-28, 2013.
   * Hands-on Lab
   * Scoliosis Treatment Options
     + Open correction of deformity
     + Three column osteotomy of the lumbar spine
     + Worst case of my career - what I learned from it and how I would do it differently today
2. 1st Annual Spine Deformity Solutions: A Hands-On Course from the Scoliosis Research Society, Burr Ridge, IL, October 3-5, 2013.
   * Session 2: Thoracolumbar Posterior Open and Minimally Invasive Techniques
     + Open posterior thoracic techniques, including osteotomies and vertebral column resection techniques
     + Video demonstration and discussion of posterior open and MIS techniques
3. 57th Annual Fall Congress of the Korean Orthopaedic Association, Plenary guest speaker, Seoul, Korea, October 17-19, 2013.
   * Surgical treatment of adolescent idiopathic scoliosis: Progressing from 2 dimensional to 3 dimensional analysis and correction
   * Spinal osteotomies for the treatment of pediatric and adult spinal deformity

Optimizing safety during spinal deformity surgery

1. 2013 Midwest Deformity Peer to Peer, DePuy Synthes, Chicago, IL, October 25-26, 2013.
   * Moderator - Vertebral Column Resection: Specific Helpful and Helpless Techniques
   * Panelist - What I Have Learned From EOS 3D Imaging and What I Hope to Learn

My next/last worst case

1. NUH Singapore Deformity Spine Course, Webinar, Medtronic Spinal & Biologics, November 23, 2013.

Spinal osteotomies in the treatment for the treatment of pediatric and adult spinal deformity

1. Spine: Base to Summit, BroadWater, Beaver Creek, CO, January 17-20, 2014.
   * Session 1: What Have We Learned? Treatments 10 Years Ago vs Today
     + How I treated lumbar flatback syndrome 10 years ago. How should we treat today?
   * Panel - Session 3: Spine Surgery at the Junctions – Part 2
     + Case discussions: Practical solution at the T-L-S junctions
   * Panel - Case discussions: Lumbar Spine
   * Moderator - Fireside Chat: Interactive Case Discussions: Revision Surgery
   * Session 8: Lumbar Approach Selection – From Minimal to Maximal
     + Open posterior approach: When and why it is best
2. SRS/ASSICON Worldwide Conference, Kolkata, India, January 23-26, 2014.
   * Early Onset Scoliosis
     + Early onset congenital scoliosis
     + Case discussion
   * Adult Deformity
     + Complications of adult spinal deformity surgery: How to avoid them
     + Case discussion
3. Medtronic Spinal & Biologics Workshop, SRS/ASSICON Worldwide Conference, Kolkata, India, January 23, 2014.

Spinal osteotomies for the treatment of pediatric & adult spinal deformity

1. Neurologic Complications in Pediatric Spine Surgery, Salt Lake City, UT, January 31-February 1, 2014.
   * Session 2: Working Lunch: Case Discussions
     + Delayed neurological loss
   * Moderator - Session 3: Responding to Intraoperative Neuromonitoring (IONM). Changes in High Risk/Unstable Spine
     + Approaching the high risk patient: Pre, intra and postoperative considerations
     + Loss of evoke potentials during vertebral column resection – what’s different?
   * Session 6: General IONM Issues
     + Revisiting the unstable (high risk) spine checklist
2. Spine Deformity LIVE, BroadWater, Washington University School of Medicine, Saint Louis, MO, February 28-March 1, 2014.
   * Surgery - Adult pedicle subtraction osteotomy
   * Moderator - Session #3: Spinal Deformity Case Discussions. Pediatric spinal deformity – primary and revision
   * Moderator - Spinal Deformity from Occiput to Sacrum

PASE lab rotation

1. Spinal Deformity Complications & Revisions: Lessons Learned, Medtronic Spinal & Biologics, Dublin, Ireland, March 6-7, 2014.
   * Similarities and differences regarding the surgical management of pediatric versus adult deformity
   * Sagittal balance-the new gold standard in preventing revision?

What do we do about the evolution of idiopathic scoliosis in adults? Analysis of long follow-up cases (Harrington, CD...)

1. Scoliosis Research Society Symposium, 81st American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March 11-15, 2014.
   * Loss of Standing Balance: The Lifelong (Cradle to Grave Management of Sagittal Imbalance of the Spine
     + How have recent advances in surgical techniques improved the success and safety of surgery in adult sagittal deformity?
2. Meeting of the Minds: Advanced Spinal Deformity Product Training & Clinical Symposium, K2M, Washington D.C., April 4-5, 2014.
   * Adolescent Session
     + Clinical algorithm for treatment of AIS
     + Treatment of severe, rigid, coronal plane pediatric deformities
   * Adult Session
     + Indications & complications of osteotomies of adult spinal deformity
   * Hands-On Workshop. Applying MESA Deformity®, EVEREST® and RAVINE®
     + Multi rod constructs
   * Chairman - Kyphosis & Spondylolisthesis Session
     + Scheuermann’s overcorrection and PJK development: How to avoid and treat
   * Chairman - Congenital Session
     + Correction of congenital kyphosis, including angular deformity
   * Anterior Surgery Session
     + Debate: Is there still a place for anterior surgery in AIS? (counterpoint & vote)
   * Chairman - PJK Session
     + What can we do in the future
3. 2nd Spine Deformity Solutions: A Hands-On Course, American Association of Neurological Surgeons, Scoliosis Research Society, Houston, TX, April 24-26, 2014.
   * Fireside Chats
     + Pediatric spinal deformity cases
   * Thoracolumbar Posterior Open and Minimally Invasive Techniques
     + Open posterior thoracic technique, including osteotomies and vertebral column resection technique
     + Video demo and discussion of posterior open and minimally invasive techniques
4. XXXVII National Congress of the Italian Society of Spine Surgery and Italian Group for Scoliosis SICV & GIS, Medtronic Spinal & Biologics, Milan, Italy, May 15-17, 2014.
   * AIS surgery: direct derotation of the curve

Vertebral osteotomies in spine surgery

1. K2M Proximal Junctional Kyphosis Hands-On Workshop, 21st International Meeting on Advanced Spine Techniques, Valencia, Spain, July 16, 2014.

Why is PJK a real problem now?

1. 21st International Meeting on Advanced Spine Techniques, Pre-course, Scoliosis Research Society, Valencia, Spain, July 16, 2014.
   * Symposia B: Return to Play after Spinal Surgery
     + Return to sports after fusion for AIS
   * Moderator - Concurrent Session 5B: Adolescent Idiopathic Scoliosis Roundtable
   * Debate Series #3, 9C: Safety Instructional Course Lecture
     + Intra-operative safety strategies for three-column osteotomy
   * Concurrent Session 10B: Adult Deformity II: Surgical Planning & Techniques Instructional Course Lecture
     + Role for vertebral column resection in adult spinal deformity
2. Spinal Deformity Complications & Revisions: Lessons Learned, Medtronic Spinal & Biologics, Miami, FL, August 14-15, 2014.
   * Is sagittal balance the new gold standard in preventing revision?

Case discussions: What do we know about the evolution of idiopathic scoliosis in adults? Analysis of long follow up cases (Harrington, CD, etc.)

1. Scoliosis Research Society 49th Annual Meeting, Pre-Meeting Course, Anchorage, AK, September 10, 2014.
   * Afternoon Session II: How We Learn: Mentors, Mentees and Reverse Mentoring
     + ASF/PSF versus vertebral column resection: Indications

Moderator - Morning Session I: What We Know About Severe Spine Deformity and How We Teach It

1. Scoliosis Research Society 49th Annual Meeting, Educational Program, Half-Day Courses, Anchorage, AK, September 11, 2014.
   * Surgical Techniques in the Management of Adult Spinal Deformity: Tips and Tricks
     + Posterior-based osteotomies for deformity correction (PSO and VCR)
   * Lunchtime Symposium: From Study Group to Podium: Challenges and Opportunities in Multicenter/Study Group Research
     + What it takes to get started
2. Innovative and Advanced Surgery of the Degenerative and Deformed Lumbar Spine, PASE Workshop, St. Louis University, St. Louis, MO, October 2-4, 2014.
   * Treatment options: Open correction of deformity, 3 column osteotomies of the lumbar spine

Cadaver Demonstration: Lumbar PSO

1. 3rd Spine Deformity Solutions: A Hands-On Course, Scoliosis Research Society, Burr Ridge, IL, October 9-11, 2014.
   * Fireside Chats: Pediatric spinal deformity cases
   * Session 1: Thoracolumbar Posterior Open and Minimally Invasive Techniques
     + Open posterior thoracic techniques including osteotomies and vertebral column resection techniques
2. 8th International Congress on Early Onset Scoliosis and Growing Spine (ICEOS), BroadWater, Warsaw, Poland, November 20-21, 2014.
   * Ask the Faculty Case Discussion and Receptions
     + Unsolved problems still in need of answers/suggestions
   * Session 8: Masters’ Tips & Tricks
     + Master’s technique: VCR & growing rods
3. 11th Annual International Pediatric Orthopaedic Symposium, POSNA, AAOS, Lake Buena Vista, FL, December 3-6, 2014.
   * Leader - IPOS Breakout Session: AIS-Best Practices in 2014
   * Concurrent Session: AIS: State-of-the-Art
     + Mistakes I have made and seen in treating AIS
   * Panelist - Controversial AIS Cases
   * Extreme Surgery: Hope or Hype?
     + Multilevel VCR
4. Spine: Base to Summit Annual Meeting, BroadWater, Beaver Creek, CO, January 16-19, 2015.
   * Moderator - Session 5: PJK
     + PJK and PJ failure: Sorting out the myriad of contributing risk factors in order to lessen to occurrence of this ongoing and unsolved issue
   * Session 6: Fireside Chats. Complex Deformity and Revision
     + Fixed thoracic hyperkyphosis along with fixed sagittal imbalance in a 60 y/o patient with 24 prior spine surgeries
   * Session 7: Morning Crossfire: Lumbar Lordosis Restoration
     + Opinion 1: Do it posteriorly
   * Session 8: Adult Deformity
     + Case #3: Deformity with spinal claudication symptomatology. Patient aged over 60 years
5. Evidence-Based Pediatric Deformity Care, Harms Study Group, Las Vegas, NV, January 24, 2015.
   * Debate: All AIS 1C Curves Should be Fused Selectively
     + Affirmative stance
   * Debate: Is Anterior Surgery in AIS Ready for a Comeback?
     + Negative stance
6. Spine Surgery LIVE, BroadWater, Washington University School of Medicine, St. Louis, MO, February 12-14, 2015.
   * Surgery #1: Pediatric VCR
   * Surgery #@: Adult Lumbar PSO
   * Session 6: Spinal Surgery Case Discussions

Moderator: - Adult Deformity

1. 15th Brazilian Congress of Spine Surgery, São Paulo, Brazil, March 11-13, 2015.
   * Degenerative Lumbar Column
     + Spinal deformity surgery: Essential considerations
   * Lumbar Spine Stenosis and Adult Scoliosis
     + Degenerative lumbar scoliosis: Spectrum of surgical options
   * Adolescent Idiopathic Scoliosis Principles
     + Adolescent idiopathic scoliosis: Classification and operative treatment
   * Special Lectures: Spinal Balance and Treatments – The Origin/Nature/Methods and Limits of Knowledge
     + Spinal osteotomy for the treatment of deformities
2. 5th Pediatric Spinal Deformity: On the Cutting Edge, BroadWater, Coral Gables, FL, April 10-11, 2015.
   * Session II: Spondylolisthesis: Complications
     + Complications of VCR: Avoidance and management
   * Session III: Early Onset Scoliosis: Congenital Deformity
     + My most challenging case and what I learned: Congenital thoracic deformity
   * Session V: AIS and Miscellaneous
     + VCR technique (video)

Debate: AIS: Lenke 1C curves: Selective fusion is treatment of choice

1. Global Spine Congress, AOSpine International, Buenos Aires, Argentina, May 20-22, 2015.
   * Early Onset Scoliosis

The value of MAGEC growing rods over conventional open distraction techniques – fact or fiction?

Growth modulation: thoracoscopic stapling – useful prophylaxis or over treatment?

MIS technique in AIS: Useful or another fad?

1. AO Deformity KF Symposium, AOSpine International, Buenos Aires, Argentina, May 23, 2015.
   * + Neurologic complications
2. ONE Spine Master’s Course, Seattle Spine Foundation, Seattle, WA, June 26, 2015.
   * Vertebral column resection, pedicle osteotomy and osteotomies for severe scoliosis correction: When and which procedure
     + Hands-on cadaver lab: Posterior osteotomy techniques
3. 22nd International Meeting on Advanced Spine Techniques, Scoliosis Research Society, Kuala Lumpur, Malaysia, July 8-12, 2015.
   * Session 2C. Debate Series 1
     + Debate 2. What is the best way to achieve lumbar lordosis?
   * Session 13. Video Based Surgical Techniques
     + Three-column osteotomy
4. Scoliosis Research Society 50th Annual Meeting, Pre-Meeting Course, Minneapolis, MN, September 30, 2015.
   * Session: Adolescent Idiopathic Scoliosis
     + Lenke 1A AIS deformity
     + Classification of AIS (then, now, future)

Moderator - The Future

1. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, September 30-October 3, 2015.
   * 3D Management of Adolescent Idiopathic Scoliosis, Lunchtime Symposium
     + Case presentation: Different curve types to be treated differently based on 3D anatomy and representation
     + Closing remarks and perspectives

Moderator - Adolescent Idiopathic Scoliosis

1. 5th Spine Deformity Solutions: A hands-on course, Scoliosis Research Society, Istanbul, Turkey, October 22-25, 2015.
   * Fireside Chat: Pediatric Spinal Deformity
   * Session 1: Thoracolumbar Posterior Open and Minimally Invasive Techniques
     + Open posterior thoracic techniques: including osteotomies and VCR technique
2. Global Spine Outreach Annual Symposium, Adult and Pediatric Spinal Deformity: Evaluation, Decision Making, and Treatment, Cali, Colombia, November 13, 2015.

- Adolescent idiopathic scoliosis: evaluation, decision making and treatment

- Pediatric spinal deformity – case discussions: case 2: a complex pediatric deformity for discussion

- Complex pediatric reconstructive topics: congenital spine deformity - treatment techniques

- Intraoperative monitoring: clinical experience with intra-operative neuro-monitoring

- Adult deformity: posterior spinal osteotomies: when, where and how?

- Adult deformity case discussions: case 2: A complex, revision adult deformity

1. 5th Spine Update Conference & Workshop, Al-Khobar, Saudi Arabia, December 1 – 3, 2015

Session 1 : Adult Spinal Deformity

-Selection of fusion Levels for Adult Spinal Deformity

-Deformity Correction techniques

Session 2 : Adolescent Idiopathic Scoliosis

-Selection of fusion Levels for Adult Spinal Deformity

-Spinal Osteotomies in the treatment of Adult Spinal Deformity

1. 1st Annual International Spinal Deformity Symposium, BroadWater, Chicago, IL, December 4-5, 2015.
   * The challenges of adult spinal deformity
   * Moderator - Session 4: Progress and Challenges in the Surgical Management of Spinal Deformity
   * Rules to live by in complex spinal deformity surgery: Things I wish I’d known at the start of my career
   * Panel - Surgical Management of High Grade Spondylolisthesis in Adult: Case Discussions
   * Session 6: Practical Deformity Surgery Tips
     + When you should *not* do a PSO!
   * Moderator - Session 7: Surgical Management of Symptomatic PJK following prior TL to S or Upper Thoracic to Sacrum Surgery
   * Panel - Surgical Management of Symptomatic PJK following prior TL to S or Upper Thoracic to Sacrum Surgery: Case Discussions
   * Session 9: Revision Surgery for Failed Primary Adult Deformity Surgery
     + How I think a case through: Bringing together the research and practical tips

Panel - Revision Surgery for Failed Primary Adult Deformity Surgery

1. 9th International Congress on Early Onset Scoliosis (ICEOS) November 19 & 20, 2015, Seaport Hotel, Boston, MA

-Free Paper #14: The Radiographic and Clinical Impact of Preoperative Halo-Gravity Traction in the Treatment of Early-Onset Spinal Deformity

-Session 8: What Have We Learned?

* + Lessons Learned from Adults with EOS: What can EOS Surgeons do Better?
  + Masters Technique: Does VCR have a Role in EOS

1. 17th Annual Palm Beach Symposium January 30th – February 1st Kravis Center, West Palm Beach, FL

-Spinal Deformity Corrective Surgery: Extreme Makeovers

1. Spine Summit 2016 - 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves March 16 - 19, 2016, Orlando, FL

-Neurological Complications in Spinal Deformity Surgery

-Anterior column reconstruction superfluous

-High Grade Spondylolisthesis: Reduce and Realign

1. 2016 Transfer Center Nurses' Symposium at NYPH/Columbia University Medical Center Spinal Deformity Corrective Surgery: Extreme Makeovers, , April 28th,2016
2. 355. GEER Scientific Congress of the Spanish Society Spine Program. Spinal Surgery and Reconstructive Surgery Osteotomies. June 2nd, 2016 Toledo, Spain
   * Session 2: Reconstructive Surgery In Growing And Adolescent Reconstructive surgical strategy Selection of the osteotomy
   * Session 3: Reconstructive Surgery In The Elderly Reconstructive surgery in sagittal imbalance. Thoracic and lumbar osteotomies
   * Session 4: Outcomes Of Reconstructive Surgery Optimizing safety in spinal reconstructive surgery
3. 356. IMAST: The 23rd International Meeting on Advanced Spine Techniques. July 13-16,2016, Washington D.C

-Optimal Sagittal Alignment in Adult Deformity: Patient Selection, Surgical Techniques, and Instrumentation Options

-Osteotomy Planning: What Factors Force My Hand in Performing Osteotomies?

-Surgical Techniques: A Video-Based Session : Deformity TLIF

1. Nordic Spinal Deformities Society 2016 meeting. August 25-27, 2016 , Naantali Finland
   * Is pedicle screw instrumentation evidence based for AIS
   * Vertebral column resection for severe pediatric scoliosis
   * Revision adult deformity surgery
2. 2016 Global Spine Outreach Symposium. Mexico City, MX, October 22, 2016

-Classification of Adolescent Idiopathic Scoliosis

-Neuromonitoring: Algorithm for Monitoring Changes

-Vertebral Column Resection

1. Scoliosis Research Society & Asia Pacific Spine Society Spine Deformity Solutions: A Hands-On Course.
   * + October 28- 30, 2016, Hong Kong, China
   * Adult Spinal Deformity Reconstruction Cases TL/Lumbar
   * Session 2: Osteotomies and Pelvic Fixation – VCR
   * Session 3: Adult Spinal Deformity & Cervical Deformity- Neurologic Complications
2. Broadwater 2nd Annual International Spinal Deformity Symposium. November 11-12,2016, Chicago, IL
   * Session 3: AIS-Step-by-Step Surgial Treatment: PSF with VCR of a 150 Deg 4AN Curve
   * Session 6: Combined coronal and sagittal imbalance in the Adult-Intro to Problem and Recent Lit Review
   * -Session 8: Complications: Avoidance and Treatment –Neurologic
3. The 50th Annual Meeting of Japanese Scoliosis Society. November 17th – 19th , 2016, Sakyo-ku, Kyoto

-Vetebral column resection for severe spinal deformity: Experience of over 250 cases of the past 15 years

1. The Total Spine Series 2016/2017, Broadwater, New York, NY, December 9, 2016 - January 8, 2017
   * Correction of adult global spinal imbalance
   * VCR for complex pediatric spinal deformity
2. Spine: Base to Summit, Broadwater, Beaver Creek, Co, January 26-29, 2017
   * Extreme Deformity: Lessons Learned over 10 years
   * Debate: Spinal deformity surgery: total body biplane. X-ray imaging is always needed. Agree / Disagree
   * Case Discussion: Complex Thoracolumbar Deformity
   * Session 5: Degenerative Deformity
   * Case Discussion: Complex Deformity
3. Scoliosis Research Society IMAST: The 24th International Meeting on Advanced Spine Techniques. Cape Town, Africa, July 12-15, 2017
   * Revision 3-4 Level Case: How to Avoid a 3 Column Osteotomy
   * 3C: Adolescent Idiopathic Scoliosis: Surgical Pearls to Achieve Success for Each Lenke Curve Type: The “Rule Book”
   * My Learning Curve for 3 Column Osteotomies (3CO): What I Learned to Make is Safe and Efficient
4. Medtronic “Decision Making for the Complex Adult Patient” Course Jersey City, NJ , July 28-29, 2017
   * -Posterior Correction of TL to Sacrum for Degenerative Lumbar Scoliosis
   * -Iliac Fixation Principles & Techniques
   * -Increasing Lordosis Through Interbody
5. Medtronic Regional Deformity Symposium-The University of Hong Kong-Shenzhen Hospital, Guangdong, China, August 4th,2017
   * + -30' Topic: Spinal Osteotomies for the Treatment of Pediatric and Adult Spinal Deformity
   * 30' Topic: AIS Surgical Pearls to achieve success for each Lenke Curve type: the "Rule Book"
6. Medtronic Summer University: Speechs & Case Discussion, Shanghai , China, August 5th-6th ,2017
   * 20' Topic:Optional Sagittal Alignment in Adult Deformity
   * 8' Topic: Lenke Classification
   * 20' Topic: Strategies and Techniques to Reduce Complications in AIS
7. Medtronic Skull to Sacrum, September 21-23, 2017Jersey City, NJ
   * Planning for Optimal Outcomes: The Role of Sagittal Alignment and Balance
   * Iliac Fixation
   * Adult Deformity Correction
   * Extreme Deformity: Lessons Learned Over 10 Years
8. Merc Annual Musculoskeletal Education and Research Center Symposium, August 25-26, 2017, Philedelphia,PA
   * Optimal Treatment of a 120° AIS Curve
9. SRS 52nd Annual Meeting & Course, Philadelphia, PA, September 6-9, 2017
   * + Management of a Catastrophic Intra-Operative Events: The WHO Standard of
     + Care in Handling these Events
     + -Severe Neglected AIS, is VCR Needed?
10. Global Spine Outreach Spinal Deformity Symposium, Mexico City, MX, October 28, 2017

Classification of Adolescent Idiopathic Scoliosis

* + - -Advanced 3-Column Osteotomies
    - -Neuromonitoring: Algorithm for Monitoring Changes
    - -Vertebral Column Resection

1. .Broadwater 3rd Annual International Spinal Deformity Symposium (ISDS) November 3-4, 2017 Chicago, IL
   * PSF with VCR
   * Kickstand Iliac Screw/Rod Construct for Optimizing Coronal Alignment in Adult Spinal Deformity
   * Tips and Pearls
2. 2nd Kuwait Conference on Orthopedics Update “Cutting-edge information and maximize networking opportunities in the field of Orthopedics & Rehabilitation” December 7 – 9th 2017, Kuwait City
   * -Spine deformity approach in adolescence
   * -Update on congenital scoliosis management
   * -Adolescent Idiopathic Scoliosis
   * -Selective fusion state of the art Shoulder level
   * -UIV in general Sagittal Kyphosis and selection of UIV LIV selection
   * -Optimizing safety and avoiding complications
   * -Role of intraoperative 3 D module
   * -Management of intraoperative Neuromonitoring changes
   * Kyphosis in AIS
   * -Normal sagittal parameters
   * -PCO for Restoration of kyphosis
   * -PCO for Sagittal vs coronal deformity
   * -Spine derotation does it affect kyphosis restoration
3. Broadwater Spine Base to Summit, January 18th -21st, 2018, Beaver Creek, CO
   * -Deformity correction—MIS
   * -Complex adult deformity with comorbidities: Operate now because comorbidities are not reasonably modifiable, or optimize preoperatively.
   * -The impact of spinal flexibility on deformity correction. How to measure preoperative flexibility and assess the need for osteotomies
   * -Intraop technical tips on safe and optimal spinal realignment in the coronal, sagittal, and axial planes
   * Complex spinal deformity
   * PCO or PSO
4. 35th Anniversary of the CD Correction Philosophy, January 25 – 26, 2018, Medtronic ,Athens, Greece
   * Assembling the right multidisciplinary team to maximize surgical outcomes
   * The value of a complication data base in deformity surgery
   * Cervical response to thoracic deformity: What does this mean for the PED & ASD world?
   * My strategy to avoid proximal junctional kyphosis PJK
   * Evolution of surgery for AIS over 35 years: Have outcomes improved?
   * SO or not PSO: When is it appropriate and what are the techniques that create necessary alignment from anterior or posterior?
   * Intraoperative neuromonitoring during adult spinal deformity surgery: Alert positive cases in different surgical
   * Procedures
5. Medtronic Decision Making for the Complex Pediatric & Adult Patient, February 16-17-2018, Westin Lake Las Vegas, , Henderson, NV
   * Planning for Optimal Outcomes: The Importance of Global Sagittal Balance and Avoiding Complications
6. Spine Summit 2018 – 34th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando,FL March 14-17,2018
   * -Thoracolumbar Deformity Classification and Optimal Treatment Paradigms
7. European Spine Journal – Meet The Experts Two Decades of Sagittal Balance, March 16-17,2018
   * Meliá Castilla Madrid, Spain
   * -Parameters of global body alignment
8. 2018 LatAm Deformity Observership Presbyterian Hospital, April 9-10, 2018, Medtronic, New York, US
   * Spinal Osteotomies for Deformity Correction
9. 3rd Annual Summit in Safety in Spine Surgery, April 20th,2018, Broadwater New York,NY, US
   * Avoidance of Catastrophic Intraop Events
   * Industry CEOs Discuss How to Make the Team “Row in the Same Direction”
10. 25th International Meeting on Advanced Spine Techniques (IMAST), July 11-14, 2018, Los Angeles, CA
    * Special Symposium Building Efficiencies and Minimizing Redundancies/ 25 Years of IMAST from Those Who Built It
    * -How to Build a Spine Hospital
    * -Perspectives on the Evolution of IMAST
    * ALIF vs TLIF for Sagittal Restoration in Deformity Correction
    * -TLIF – I Can Get Great Correction with Lordotic Cages and Good Technique without the Morbidity
    * Common Challenges in Adult Spinal Deformity: Treatment Based Case Approach
    * -Lessons for Performing Pedicle Subtraction Osteotomy: These Have Kept Me Out of Trouble
    * -Global Alignment Planning: Matching Osteotomies and Instrumentation to the Deformity
11. Medtronic Surgery Observation Program. September 11-12, 2018, New York, NY
    * Preop and Postop Case Presentations and Discussions
    * Surgery 1: AIS
12. Skull To Sacrum, Medtronic, September 13-15, 2018, New York,NY
    * What I Want the Next Generation of Spinal Reconstruction Surgeons to Know: Lessons Learned Over 25+ Years of Practice
    * Planning for Optimal Outcomes: The Role of Global Coronal Sagittal Alignment and Balance.
    * 3CO, or Not to 3CO?
    * Rod Selection, Configuration, and Number with a Goal of Optimizing Correction While Preventing Implant Breakage and Pseudoarthrosis
13. 16th Annual Congress Of The Czech Spine Surgery Society And Slovak Spine Society. October 14-16, 2018, Brno, Czech Republic
    * Global Coronal And Sagittal Radiographic Alignment In Spinal Deformity Patients
14. 3rd Annual International Spinal Deformity Symposium (ISDS), November 30 - December 1, 2018, New York, New York.
    * Surgical Treatment Options For Adult Spinal Deformity (ASD)
    * Patient Presentation:Revision Spinal Reconstruction
15. Spine: Base to Summit 2019. January 18-21, 2019, Vail, CO
    * Session 3 Complex Spinal Deformity Coronal Realignment - How I do it. Technical execution of optimal: Coronal realignment
    * Session 9: Case Discusions -TL Deformity
    * Session 5: Complex Deformity
16. Broadwater Pediatric Spinal Deformity: On the Cutting Edge VII, March 1-2, 2019, Gables, FL.
    * Lessons Learned From My Most Challenging AIS Case With Distal Level Issues
    * Lessons Learned From My Most Challenging Cervicothoracic Anomaly
    * Construct for Challenging Pathology
    * Three Column Osteotomy In Deformity
17. AANS Annual Scientific Meeting -Benzel Symposium: State-of-the-art in Complex Spine Surgery, April 11-12, 2019, San Diego, CA
    * How Vertebral Column Resection has Revolutionized Care  For the Most Severe Spinal Deformity Patients
18. 4th Annual Safety in Spine Surgery Summit, April 26th, 2019, Broadwater, New York, NY
    * Examining the Black Box: Root Cause Analyses of Neurological injury
19. Perking Union Medical College Hospital (PUMCH) International Congress on Spine Deformity & 1st International Early Onset Scoliosis Summit, May 3-4, 2019, Beijing, China
    * A New Classification System of Adult Idiopathic Scoliosis
    * Correction of Coronal Imbalance: The Kickstand Screw-Rod Construct
    * When are 3 Column Osteotomies Necessary for Spinal Deformity Correction.
20. Global Spine Congress 2019, May 15–18, 2019, Toronto, Canada
    * Cutting Edge Updates in Spine Surgery: Current Concepts in Adult Deformity Surgery
21. 12th International Musculoskeletal Society (I.M.S.) Annual Meeting. July 1-2, 2019
    * Lenke Classification: Why Did we Need this New Classification, Case Studies
    * Role of Osteotomies in Challenging Cases
    * Clinical and Radiographic Evaluation of Adult Deformity: What are the Landmines?
    * Sagittal Balance Correction: Open Techniques
22. 26th International Meeting on Advanced Spine Techniques, July 17-20, 2019, Amsterdam, the Netherlands
    * My Worst Complication: Lessons Learned from the Masters Case 1
    * Posterior Vertebral Column Resection in Severe Deformity
23. 2019 International Course Argentine Society of Pathology of the Spine (SAPCV), August 8-9, 2019, Argentina
    * Sagittal Alignment and Optimization during Revision Spinal Surgery
    * Experts Panel: Drs. Lenke, Ames, Schwab, Gupta
    * Coronal Plane Alignment: The Often Neglected but Important Component to Optimal Spinal Reconstruction Surgery
    * Multi-Rod Constructs in Spinal Reconstruction: Current Use and Technical Tips for Insertion
    * MODULE 5: ADULT -Experts Panel: Drs. Gupta, Lenke; Samdani, Shah, Munhoz Da Rocha
    * Complex Deformity
24. Scoliosis Research Society 54th Annual Meeting & Course, September 18-21, 2019, Montréal, Canada
    * Adolescent Idiopathic Scoliosis II Moderator
    * Posterior Only Correction is Effective in Achieving Alignment Goals
    * When Do You Really Need a PSO or VCR?
25. North American Spine Society’s 34th Annual Meeting, September 25-28, 2019, Chicago, IL
    * Lessons Learned in Adult Deformity Surgery
    * How to Maximize Lumbar Lordosis with Transforaminal Lumbar Interbody Fusion
    * Technique Demo: Complex Osteotomy for Spinal Deformity Correction
26. Medtronic: Skulll to Sacrum. October 10-11, 2019, New York, NY
    * Managing the Imbalance: My Personal Journey as a Spine Surgeon, Husband, Father
    * Surgical Planning for Optimal Outcomes
    * Optimizing Screw Purchase and MRC Configuration in TL Deformity Correction
    * My Biggest Failures/My Most Complex Cases
27. 5th Annual International Spinal Deformity Symposium (ISDS), December 6-7, 2019, New York, New York.
    * SCM/Neurologic Complications during TL Deformity Surgery: Avoidance and Treatment
    * Surgical Theater
    * Building a Solid Foundation for the Adult Deformity Construct
    * AcuPac Advanced – A Novel Bone Grafting Solution
    * Utilization of 360 Degree Virtual Reality for Planning
    * Complex Spinal Deformity Correction
    * On Which ASD Patients Am I Doing a 3CO in 2019?
    * Multi-Rod Constructs for ASD: Why, When and How?
    * Middle age Female with Multiple Prior Spine Surgeries, last one a T4-Sac. PSF complicated by DWI and implant removal, Pseudarthrosis, Coronal and Sagittal Imbalance: How to Salvage?
    * Tips and Pearls
28. Spine: Base to Summit Annual Meeting, BroadWater, Beaver Creek, CO, January 23-26, 2020.
    * Complex spinal deformity
    * Lessons I’ve learned in complex deformity: Principles that will serve you well
    * Open correction
29. European Spine Journal ‘Meet the Experts’, March 13th – 14th, 2020, Madrid, Spain
    * Revision after pediatric spine deformity surgery
30. SANS Academy Residents Webinar, Friday, 1 May 2020
    * Adult Idiopathic Scoliosis
31. Moroccan Spine and Spinal Cord Surgery Society Webinar, May 26,2020
    * Posterior Spinal Osteotomies For The Treatment Of Spinal Deformity
32. SRS 55th Annual Meeting, September 9-12, 2020, Phoenix, Arizona, USA
    * Session 9: Nerves and Big Curves: Advances in neuromonitoring and management of Severe Spinal deformity
33. SRS 56th Annual Meeting, September 22-25, 2021, St. Louis, Missouri, USA
    * Session Title: Adult Summary
    * Session Title: Radiographic Alignment: How to assure Intraoperatively that Preoperative Alignment Targets are Reached
34. North American Spine Society: Cadaver Lab Instructor: Methods to Treat Coronal Malalignment; October 2021, Boston, MA
35. Medtronic Skull to Sacrum 2021 New York, November 19, 20 2021
    * Moderator: Leadership in Spinal Surgery
    * Intraoperative Correction Techniques
    * Moderator: How to Manage when things don’t go well
36. 7th International Spinal Deformity Symposium (ISDS), Dec 3rd-4th 2021 New York, NY
    * Moderator: Adult Scheuermann’s Kyphosis Session
    * Tips and Pearls: Adult Scheurmann’s Kyphosis
    * Acupac Advanced and Acupac Deformity: Novel Bone Graft Solutions
    * Development of BPG for High Risk Spinal Deformity
    * Moderator: Neurologic Complications During Spinal Deformity Surgery
    * Moderator: Adult Dysplatic Neurofibromatosis: Cervico-Thoracic Kyphoscoliosis with Myelopathy
37. Broadwater Spine: Base to Summit 2022, Vail, Colorado, January 14-17, 2022
    * My evolution as a deformity surgeon over the last 20 years: Concepts, techniques and tools
    * Severe adult scoliosis - Large curve, with sagittal and coronal imbalance and with large lumbosacral fractional curve
    * Obeid 2 degenerative scoliosis
    * Complex adult degenerative deformity – case discussions

1. Broadwater Pediatric Spinal Deformity: On the Cutting Edge, Coral Gables, FL, March 4-5, 2022
   * Defining the Limit of STF In Lenke C Curves
   * D-Wave Changes in Neurologic Monitoring: How to Do it & How it Helps
   * Adult Deformity after Pediatric Deformity Surgery

1. 29th International Meeting on Advanced Spine Techniques (IMAST), April 6-9, 2022. Miami, FL
   * Kickstand Rod Technique: How to Best Apply this Intra-Operative Technique
   * Technology is Great But Freehand is Still the Standard
2. Spine Safety Summit April 2022 (Virtual)
   * Best Practice Guidelines for Assessing High Risk Spinal Deformity Patients and Procedures
3. University of Toronto Spine Program -SpineFEST 2022 ,June 13, 2022, Toronto, Canada
   * Optimizing Safety in Pediatric and Adult Spinal Deformity Surgery
   * Tips and Perils of Managing the Imbalanced Life of a Busy Academic Spine Surgeon
4. Medtronic Virtual China Summer University & 25th Anniversary Opening Ceremony August 26,2022, Shanghai, China

-What should we focus on AIS in next decade?

1. SRS 57th Annual Meeting, September 14-17, 2022 ,Stockholm, Stockholm
   * Lower Arc PSO
   * Classification of Adolescent Idiopathic Scoliosis: Why We Needed Another Classification System and What Are Next Steps
   * Managing Bilateral MEP Changes with Preserved SSEP
   * Anticipation of Preoperative Likelihood and Preoperative Change in Management
2. Medtronic Skull to Sacrum 202, November 11- 12, 2022, Chicago, IL
3. Weill Cornell Medicine NYC-MISS 2022: 16th New York City Minimally Invasive Spine, Endoscopy, Robotics, 3D Navigation, and Augmented Reality Spine Symposium ''Case Based and Hands-On''
   * Open Surgery for Deformity
   * Surgical Demonstration and Lab Dissection
4. SRS - Silaco Worldwide Course: Spinal Deformities, January 27 - 28 2023, Mexico City, Mexico
   * Neglected deformities in Developed countries
   * Posterior Osteotomies
   * Scheuermann Disease: Surgical Treatment
5. 8th Annual International Spinal Deformity Symposium, December 2–3, 2022, New York, NY
   * Tips and Pearls
   * Moderator: IONM and Neurologic Issues in Deformity Surgery
   * The Value of Integrating AI-driven Surgical planning and Patient-specific Implants into Your Adult Deformity Practice
   * Low Lumbar “Sandwich” PSO
6. Weill Cornell Medical College Minimally Invasive Spine Surgery and Enabling Technologies Symposium - NYC MISS 2022, December 15-17,2022, New York, NY
   * Open Surgery for Deformity
   * Surgical Demonstration and Lab Dissection
   * 423. Spinal Masters Series on Spinal Deformity: Feb 2-4,2023, Beaver Creek, CO
   * -Preopertaive Optimization of the Spinal Deformity Patient
   * -Surgical Techniques to Optimize Correction while Minimizing Risks
   * -Case moderator of Complex Deformity Cases

424Pediatric Spinal Deformity: On the Cutting Edge, March 3–4, 2023, Miami FL

* + What are the limits of selective thoracic fusion in AIS?
  + Adult sequelae of pediatric spinal surgery
  + Debate: Management of L5 lysis in 16y/o athlete: How to best guarantee results?
  + Debate: Adolescent high grade spondylolisthesis ( Gr 3 & >): To reduce or not?

4258th Annual Safety in Spine Surgery Summit, April 15, 2023, New York,NY

* + Neurological safety across my career
  + SESSION 3: Using Technology to Make ORs Safer (or At Least Different)
  + How do you advocate for teams in the setting of pressured healthcare system economics?
  + Strategies to address and tackle burnout and job dissatisfaction with spine surgeons

## XV. VISITING PROFESSOR/GUEST LECTURER/INVITED SPEAKER

1. University of North Carolina, Grand Rounds, Chapel Hill, NC, September 13, 1991.

Results of Cotrel-Dubousset Instrumentation (CDI) for adolescent idiopathic scoliosis (AIS) with minimum 2-year follow-up

1. West Virginia University, Grand Rounds, Morgantown, WV, October 30, 1991.

The surgical treatment of degenerative spondylolisthesis with spinal stenosis

1. Columbus Orthopaedic Society, Grand Rounds, Columbus, OH, October 30, 1992.

The surgical treatment of spinal fractures

1. University of Louisville, Grand Rounds, KY, Louisville, KY, January 16, 1995.

Pathology of sagittal spinal alignment

1. Washington University School of Medicine, Neurosurgical Grand Rounds, St. Louis, MO, March 1996.

Biomechanical considerations for the correction of spinal pathology with instrumentation

1. BJC Primary Care Physicians, Grand Rounds, St. Louis, MO, December 1997.

Lumbar spinal stenosis

1. University of California, Grand Rounds, San Francisco, CA, April 27, 1998.

Classifying adolescent idiopathic scoliosis. Perspectives for anterior vs. posterior surgical treatment

1. University of Louisville, Grand Rounds, Louisville, KY, May 12, 1998.

* Anterior solid rod instrumentation for adolescent idiopathic scoliosis

A new and comprehensive classification system for adolescent idiopathic scoliosis

1. New Techniques in Scoliosis Surgery, German Spine Research Society, Frankfurt, Germany, July 1998.
   * New classification system for scoliosis: Why do we need a new classification?

Anterior release with posterior instrumentation in the treatment of double major curves

1. Oakland Children’s Hospital, Pediatric Spinal Deformity Conference, Oakland, CA, March 20, 1999.

Congenital scoliosis. Spontaneous lumbar curve response to selective anterior vs. posterior thoracic instrumentation and fusion

1. University of Missouri, Grand Rounds, Columbia, MO, January 4, 2000.

Newest classification of adolescent idiopathic scoliosis

1. Ohio State University Medical Center, Grand Rounds, Cleveland, OH, February 11, 2000.

A new comprehensive classification of adolescent idiopathic scoliosis (AIS). Predicting and assessing treatment

1. Thomas Jefferson University, Grand Rounds, Philadelphia, PA, March 2, 2000.

* A new classification of AIS. An algorithmic approach

Preservation of sagittal plane. Biomechanical rationale and data

1. Japanese Orthopaedic Association Annual Meeting, Kobe, Japan, April 2000.

* Clinical results of posterior fusion for degenerative lumbar pathology

Pediatric and adult spinal deformity

1. Nagoya University, Nagoya, Chikusa-ku, Japan, April 2000.

Complex anterior scoliosis surgery

1. Nippon Medical Hospital, Sendagi, Bunkyo-ku, Tokyo, Japan, April 2000.

Pediatric and adult spinal deformity surgery

1. Tokyo Women’s Medical University, Shinjuku-ku, Tokyo, Japan, April 2000.

Pediatric and adult spinal deformity surgery with emphasis on the AM8 CD Horizon System

1. Tufts University, New England Baptist Medical Center, Grand Rounds, Medford, MA, May 2000.

Degenerative scoliosis – Radiographic features

1. Northwestern University, Grand Rounds, Chicago, IL, June 10, 2000.

A new surgical classification of adolescent idiopathic scoliosis (AIS): Predicting and assessing treatment

1. Tokyo Medical University, Nishi-Shinjuku, Tokyo, Japan, November 18, 2001.

Anterior single vs. dual rod instrumentation for scoliosis

1. Okayama University, Tsushima-Naka, Okayama, Japan, November 19, 2001.

Evaluation and treatment of lumbar degenerative scoliosis

1. Seoul Spine Institute, Inje University Medical School, Seoul, South Korea, November 20, 2001.

The use of spinal cord monitoring in the treatment of scoliosis and other spinal deformities

1. Asan Medical Center, Seoul, South Korea, November 21, 2001.

* Free hand placement of thoracic pedicle screws in spinal deformity
* The evaluation and treatment of degenerative lumbar scoliosis
* Classification of adolescent idiopathic scoliosis

The use of spinal cord monitoring in the treatment of scoliosis and other spinal deformities

1. University of Cincinnati, Cincinnati Children’s Hospital, Grand Rounds, Cincinnati, OH, March 19-20, 2002.

* Anterior treatment of scoliosis: State of the art
* The use of pedicle screws in the treatment of spinal deformities

A new classification of adolescent idiopathic scoliosis

1. Walter Reed Medical Center, Grand Rounds, Bethesda, MD, April 27, 2002.

Free hand placement of thoracic pedicle screws: Results in scoliosis

1. Northwestern University, Grand Rounds, Chicago, IL, June 28, 2002.

A new surgical classification of adolescent idiopathic scoliosis

1. Atlanta Scottish Rite Hospital, Guest Speaker for Endowed Lectureship, Atlanta, GA, November 21-22, 2002.

* A new classification of AIS: Treatment based
* The use of pedicle screws for the correction of pediatric spinal deformity
* The surgical treatment of neuromuscular spinal deformity
* Surgical treatment of pediatric kyphosis. How to avoid complications
* Anterior treatment of scoliosis: State of the art

Pediatric low & high grade spondylolisthesis

1. Northwestern University, Grand Rounds, Chicago, IL, December 2002.

A new classification system of AIS: Treatment based

1. University of Washington, Grand Rounds, Seattle, WA, January 22, 2003.

* Idiopathic scoliosis: Classification and surgical management
* A new classification system of AIS: Treatment based

Spondylolisthesis

1. Shriners Hospital for Children, Grand Rounds, Springfield, MA, April 3-4, 2003.

* A new classification of AIS: Treatment based

Anterior open treatment of AIS

1. Columbia Presbyterian Medical Center, Grand Rounds, New York, NY, April 24, 2003.

* A new classification of AIS: Treatment based

Thoracic pedicle screws (TPS) for spinal deformity

1. Michigan State University, Resident Program Grand Rounds, Kalamazoo, MI, May 8-10, 2003.

* A new classification of AIS: Treatment based
* Thoracic pedicle screws (TPS): For the treatment of spinal deformity
* Anterior treatment of AIS: State of the art
* Spondylolisthesis
* Global spinal imbalance – Who is an operative candidate? How to decide

Case presentation

1. Rush-Presbyterian – St. Luke’s Medical Center, Grand Rounds, Chicago, IL, October 1, 2003.

A new classification of AIS: Treatment based

1. New York University Hospital for Joint Disease, Grand Rounds, Spine Lectureship, New York, NY, October 9-10, 2003.

* A new classification of AIS: Treatment based

The use of thoracic pedicle screws (TPS) in pediatric and adult spinal deformity

1. University of Indiana Medical Center, Grand Rounds, Indianapolis, IN, January 14-15, 2004.

* A new classification of AIS: Treatment based

An overview of adult scoliosis deformity

1. Twin Cities Spine Center, Grand Rounds, Minneapolis, MN, May 7, 2004.

* Classification and treatment of adolescent idiopathic scoliosis

The use of thoracic pedicle screws (TPS) in pediatric and adult spinal deformity

1. St. Luke’s-Roosevelt Medical Center, Grand Rounds, New York, NY, June 10, 2004.

* Advances in treatment of spinal deformity: Thoracoscopic techniques and thoracic pedicle screws

Classification and treatment of adolescent idiopathic scoliosis

1. Québec Scoliosis Society Annual Meeting, Presidential Guest Lecturer, Montréal, Québec, Canada, October 15, 2004.

* Lenke classification of AIS: Treatment recommendations

Results of TPS for spinal deformity treatment

1. Chiba University, Inage-ku, Chiba-shi, Chiba, Japan, November 15, 2004.

* Thoracic pedicle screws for the treatment of spinal deformity

Spinal osteotomies: SPOs and PSOs

1. Tokyo University, Bunkyo, Tokyo, Japan, November 16, 2004.

* Thoracic pedicle screws in pediatric spinal deformity

Spinal osteotomies: SPOs and PSOs

1. St. Marianna University School of Medicine, Asahi-ku, Kanagawa, Yokohama, Japan, November 17, 2004.

* Thoracic pedicle screws for spinal deformity treatment

Lenke classification system of AIS: Treatment direction

1. Sun Yat-Sen University School of Medicine, Guangzhou, Guangdong, China, November 19, 2004.

* Thoracic pedicle screws for spinal deformity

Lenke classification of AIS

1. Lenox Hill Hospital, Grand Rounds, New York, NY, January 20, 2005.

* Evaluation and surgical treatment of adult scoliosis

Evaluation and surgical treatment of flatback syndrome with spinal osteotomies: SPOs & PSOs

1. AI duPont Institute, Grand Rounds, Wilmington, DE, January 26, 2005.

* Update on evaluation and treatment of adolescent idiopathic scoliosis
* Lenke classification for AIS: Treatment based

Use of TPS for pediatric spinal deformity

1. Carolinas Medical Center, Grand Rounds, Charlotte, NC, April 25, 2005.
   * + Update on evaluation and treatment of adolescent idiopathic scoliosis
2. University of Oklahoma Medical Center, Visiting Professor/Resident Graduation, Oklahoma City, OK, May 5-6, 2005.

* Spinal osteotomies: What, why, when, where, and how
* Spondylolisthesis: Spectrum of pathology in all ages

Evaluation and treatment of pediatric idiopathic scoliosis: State of the art

1. 10th Annual Brazilian Spine Society Meeting, Presidential Guest Lecturer, Salvador, Bahia, Brazil, May 11-13, 2005.

* Correction of pediatric and adult spinal deformity with thoracic pedicle screws
* Evaluation and treatment of adult spinal deformity
* Spinal osteotomy for the treatment of fixed deformity

Lenke classification system of adolescent idiopathic scoliosis

1. Stanford University Medical Center, Grand Rounds, Palo Alto, CA, June 22, 2005.

Update on evaluation and treatment of adolescent idiopathic scoliosis

1. Michigan State–Grand Rapids, Grand Rounds, Grand Rapids, MI, July 27, 2005.

* Lenke classification system of adolescent idiopathic scoliosis: Treatment directions

Evaluation and surgical treatment of adult scoliosis

1. Hokkaido University School of Medicine, Kita-ku, Sapporo, Hokkaido, Japan, August 29, 2005.

Free hand TPS placement and posterior scoliosis correction

1. City Wide Spine & University of CA-San Diego, Grand Rounds, San Diego, CA, February 8, 2006.

* Classification and surgical treatment of adolescent idiopathic scoliosis

Use of pedicle screws and osteotomies to avoid anterior releases in spinal deformity surgery

1. Wake Forest University–Baptist Medical Center, Grand Rounds, Winston-Salem, NC, April 19, 2006.

The Lenke classification system of operative AIS: Treatment directions

1. Walter-Reed Army Medical Center, Grand Rounds, Washington D.C., May 8-9, 2006.

* Classification & surgical treatment of adolescent idiopathic scoliosis

Use of pedicle screws & posterior osteotomies to avoid anterior releases in spinal deformity surgery

1. The 79th Annual Congress of the Japanese Orthopaedic Association, Yokohama, Japan, May 19, 2006.

Invited Lecture 7: Evaluation and treatment of adult spinal deformity patients

1. 301 Military Hospital, Haidian, Beijing, China, May 21, 2006.

Classification and surgical treatment of adolescent idiopathic scoliosis

1. Nanjing University Medical School, Gulou Hospital, Nanjing, China, May 23, 2006.

* Use of pedicle screws and posterior osteotomies to avoid anterior releases in spinal deformity surgery

Current scoliosis surgical treatment: *What’s new, what’s out*

1. Peking University Medical College, Dongcheng, Beijing, China, May 22, 2006.

Current scoliosis surgical treatment: *What’s new, what’s out*

1. National University of Singapore, Singapore, June 11-15, 2006.

* The Lenke AIS classification system: Treatment discussions
* Evaluation and treatment of adult spinal deformity

The use of pedicle screws & osteotomies to avoid anterior release/fusion in pediatric & adult spinal deformity surgery

1. Cedars-Sinai Symposium, Cedars-Sinai Medical Center, Los Angeles, CA, June 27, 2006.

* The use of pedicle screws & osteotomies to avoid anterior release/fusion in pediatric & adult spinal deformity surgery

The Lenke classification system of adolescent idiopathic scoliosis: Treatment directions

1. Washington University School of Medicine, Neurosurgery, Grand Rounds, St. Louis, MO, August 2, 2006.

Current spinal deformity treatment 2006: What’s new, what’s out

1. British Scoliosis Society Annual Meeting, Greg Houghton Memorial Lecture, Dublin, Ireland, September 28-29, 2006.

* Routine & advanced thoracic screw placement
* Use of small implants in pediatric spinal deformity
* TLIF for degenerative deformity
* PSO & VCR for severe spinal deformity

Avoiding anterior release/fusion in pediatric & adult spinal deformity surgery

1. Brown Medical School/Rhode Island Hospital, Grand Rounds, Providence, RI, October 17-18, 2006.

The Lenke classification system of adolescent idiopathic scoliosis: Treatment directions

1. Akron Children’s Musculoskeletal Health Center, Grand Rounds, Akron, OH, December 8, 2006.

* Cervical & cervicothoracic deformity correction techniques
* Current pediatric & adult scoliosis treatment 2006: *What’s new, what’s out*
* Management themes in infantile & juvenile idiopathic & congenital scoliosis
* Spondylolisthesis: Spectrum of pathology in all ages
* Treatment of kyphotic spinal deformity: Is there any reason for a formal anterior approach anymore?

Difficult deformity case discussions

1. Albert Einstein College of Medicine/Montefiore Medical Center, Grand Rounds, New York, NY, May 8, 2007.

Surgical treatment decisions for AIS based on the Lenke classification system

1. Washington University School of Medicine, Neurosurgery, Grand Rounds, St. Louis, MO, August 23, 2007.

Current spinal deformity treatment 2007: What’s new, what’s out

1. 9th HC Yang Visiting Professorship, University of Hong Kong, Hong Kong, China, September 24-28, 2007.

* Thoracic pedicle screw placement and correction techniques
* Surgical treatment decisions for AIS based on the Lenke classification system

Posterior VCR for non-idiopathic severe pediatric deformity

1. Keio University, Minato, Tokyo, Japan, October 10, 2007.

Posterior VCR for the treatment of pediatric and adult spinal deformity

1. 41st Annual Meeting of the Japanese Scoliosis Research Society, Nagoya, Japan, October 12-13, 2007.

* Pedicle screw construct for the treatment of AIS
* VCR for severe pediatric and adult deformity

rhBMP-2 use in pediatric and adult spinal deformity

1. University of Kansas City, Grand Rounds, Wichita, KS, October 25, 2007.

* Evaluation & surgical treatment of adult degenerative lumbar scoliosis
* The Lenke classification of AIS: Treatment based

Surgical treatment of spinal deformity circa 2007: Extreme makeovers

1. Northwestern University, Grand Rounds, Chicago, IL, April 4, 2008.

Surgical treatment of spinal deformity circa 2008: Extreme makeovers

1. Research Triangle Park Orthopaedic Society, Grand Rounds, Chapel Hill, NC, April 22, 2008.

Spinal deformity surgery in 2008: Extreme makeovers

1. Case Western University, Bohlman Visiting Professor/Grand Rounds, Cleveland, OH, April 30, 2008.

* Spinal deformity correction in 2008: Extreme makeovers from a posterior only approach

The Lenke classification of AIS: Treatment directions

1. Edward Dawson Memorial Lectureship, University of CA–Los Angeles, Santa Monica, CA, October 1, 2008.

The Lenke classification of AIS: Treatment directions

1. University of Utah Orthopaedic Center, Grand Rounds, Salt Lake City, UT, March 11, 2009.

* The Lenke classification and surgical treatment of AIS

Spinal deformity correction in 2009: Extreme makeovers from a single posterior approach

1. 14th Annual Brazilian Spine Society Meeting, Presidential Guest Lecturer, Salvador, Bahia, Brazil, April 30-May 1, 2009.

* Management of sagittal deformities in adults: Decision making on osteotomies
* Newer techniques and trends in pediatric spinal deformity

Fixation of L5-S1: Techniques and indications in pediatric deformity

1. Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China, May 17-18, 2009.

* Surgical treatment of severe spinal deformity

Surgical strategies for idiopathic scoliosis

1. Guangzhou Hospital, Medtronic Spinal & Biologics, Guangzhou, Guangdong, China, October 9, 2009.

Direct vertebral rotation (DVR)

1. Nanjing Gulou Hospital, Medtronic Spinal & Biologics, Nanjing, China, October 10, 2009.

Direct vertebral rotation (DVR)

1. Sofield Day, Shriners Hospital for Children – Chicago Unit, Chicago, IL, November 13, 2009.
   * Classification and fusion level selection in AIS
   * The surgical treatment of neuromuscular spinal deformity

Posterior vertebral column resection (VCR) for severe pediatric spinal deformity

1. Thomas Jefferson University, The Rothman Institute, Grand Rounds, Philadelphia, PA, April 8, 2010.

Classification of adolescent idiopathic scoliosis: King to Lenke to the future

1. Neuroscience/Neurosurgery, Grand Rounds, Stanford University, Palo Alto, CA, April 16, 2010.

Surgical treatment of spinal deformity: State of the art in 2010

1. Fellows Alumni Spine Day Conference, Cincinnati Children’s Hospital, the University of Cincinnati College of Medicine, Cincinnati, OH, April 24, 2010.
   * Classification of adolescent idiopathic scoliosis: King to Lenke to the future

Posterior VCR for severe pediatric spinal deformity

1. Laura B. Flawn, MD Endowed Professorship in Diseases of the Spine and Spine Trauma, The University of Texas Health Science Center at San Antonio, San Antonio TX, October 4, 2010.
   * Spinal deformity correction for a posterior only approach: Extreme makeovers

Classification of AIS: From King to Lenke to the future

1. Puget Sound Spine Interest Group, Seattle Neuroscience Institute of Swedish Medical Center, Seattle, WA, January 14, 2011.

Optimizing safety during spinal deformity surgery

1. IX Curso de Columna Eduardo Luque, Instituto Nacional de Rehabilitacion, Mexico City, Mexico, January 20-21, 2011.
   * Results of surgical treatment of AIS
   * Past, present and future of the surgical treatment of AIS
   * Step by step – my surgical technique for the treatment of AIS

Posterior osteotomies in the treatment of severe spine deformities

1. St. Joseph’s Hospital, Grand Rounds, Patterson, NJ, April 28, 2011.

AIS classification and selection of fusion levels

1. 16th Annual Spine Fellows Conference, Spine Institute of New York, New York, NY, April 28, 2011.

Posterior treatment of spinal deformity with optimal correction while maximizing safety

1. 10th Annual David B. Levine, MD Distinguished Lecturer, Hospital for Special Surgery, New York, NY, June 10, 2011.

Optimizing safety in spinal surgery

1. Nationwide Children’s Hospital, Grand Rounds, Columbus, OH, November 18, 2011.

The surgical treatment of adolescent idiopathic scoliosis: State-of-the-art

1. 34th Annual Resident-Alumni Thesis Day, Northwestern University, Evanston, IL, May 4, 2012.
   * Classification of AIS: From King to Lenke to the future

Severe spinal deformity patients treated with posterior vertebral column resection: “Extreme makeovers”

1. 7th Annual UCSF Spine Symposium, Ritchey Lecture, University of California–San Francisco, CA, June 1-2, 2012.

Optimizing safety and correction in spinal deformity surgery

1. Waverly Lecture, NorthShore University HealthSystem, Evanston, IL, October 6, 2012.
   * Classification of AIS: from King to Lenke to the future

Severe spinal deformity patients treated with a posterior VCR: “extreme makeovers”

1. Columbia University, Grand Rounds, New York, NY, May 8-9, 2013.

The use of osteotomies in the treatment of pediatric and adult spinal deformities

1. University of Alabama, Grand Rounds, Birmingham, AL, May 14, 2013.

Classification of adolescent idiopathic scoliosis. From King to Lenke to the future

1. Resident Graduation Day, Johns Hopkins University, Baltimore, MD, June 14-15, 2013.

Spinal osteotomies for the treatment of pediatric and adult spinal deformity

1. Arthur Steffee Lectureship, Iowa State University, Iowa City, IA, September 6-7, 2013.
   * Classification of AIS: Past, present and future
   * Evaluation and treatment of high-grade isthmic spondylolisthesis

Optimizing safety in spinal deformity surgery

1. University of Missouri, Grand Rounds, Columbia, MO, November 5-6, 2013.

AIS: Current state-of-the-art

1. Clinical Symposia Lecture series, Cedars-Sinai Spine Center, Los Angeles, CA, December 10-11, 2013.
   * Spinal osteotomies for the treatment of pediatric and adult deformity

Classification of AIS from King to Lenke to the future

1. Annual Orthopaedic Day Conference, Guest Lecturer, Denver Children’s Hospital, Denver, CO, April 17-19, 2014.
   * Classification and treatment of adolescent idiopathic scoliosis: Past, present and future

The use of spinal osteotomies in pediatric spinal deformity surgery

1. Scoliosis Surgery Over the Century: From Hibbs to Present, Columbia University, New York, NY, September 28, 2014.

Adolescent idiopathic scoliosis: From where we have come?

1. Duke University Medical Center, NSU Lectureship/Orthopaedic Surgery Grand Rounds, Durham, NC, October 28, 2014.
   * Spinal osteotomies for the treatment of pediatric and adult spinal deformity

Case presentations

1. Hospital for Special Surgery, Guest Lecturer Spine Grand Rounds, New York, NY, February 5, 2015.
   * Age affects total body sagittal alignment in asymptomatic adults
   * Do adult spinal deformity patients with severe but flexible sagittal malalignment need 3-column osteotomies?

Variations in sagittal alignment parameters based on age

1. Philadelphia Orthopaedic Society, Grand Rounds, Kambin Lecturer, Philadelphia, PA, April 13, 2015.

Spinal deformity in 2015: “Extreme makeovers”

104. Hospital for Joint Diseases - NYU Langone Medical Center, Grand Rounds, New York, NY , December 11th, 2015

* Vertebral Column Resection for the Treatment of Severe Spinal Deformity: Balancing Correction with Safety

105. Grand Rounds Speaker at the Dept of Neurosurgery, Columbia University, New York, New York, February 11th,2016

Vertebral Column Resection (VCR) for Severe Spinal Deformity: Balancing Safety with Correction

106. Principles and Techniques of Complex Spine Reconstruction, Weill Cornell Medical College, New York,NY, April 9th,2016

* Vertebral Column Resection
* Thoracolumbar Deformity Cases

1. 2016 Emans Spine Symposium, Harvard Medical School, Boston, MA, November 8th,2016

* What I have learned the past 15 years and over 250 Posterior VCR cases

1. Longwood Grand Rounds, Harvard Medical School/Brigham and Women’s Hospital,Boston,MA April 29th,2017

-VCR for Severe Spine Deformity

1. UCSF Orthopaedic Surgery Grand Rounds Lecture Series, University of California, San Francisco, CA, May 26th,2017

Severe Spinal Deformity Treated with a Vertebral Column Resection

110.Stanford University Neurosurgery Grand Rounds, Stanford, Ca, June 2nd,2017

-Severe Spinal Deformity Treated with Vertebral Column Resection

111. Orthopaedic Grand Rounds at Lenox Hill Hospital/Northwell Health, New York,NY, June 19th,2017

- The Use of Spinal Osteotomies for Spinal Deformity Correction

112. Cornell Medicine’s Neurological Surgery Grand Rounds, New York,NY, January 29,2018

-VCR for Severe Spine Deformity

113. University of Maryland Orthopeadic Grand Rounds, Baltimore, MD, February 21st,2019

-Spine osteotomy for the treatment of pediatric and adult spinal deformity

114. UCSF 64th Annual LeRoy C. Abbott Society Scientific Program and 51st Annual Verne T. Inman Lectureship CME Conference, San Francisco, CA, May 9-10, 2019

- Optimizing Safety in Spinal Deformity Reconsructive Surgery

- Building a Spine Hospital:Conception to Reality to Success

115. Northwell Health at Long Island Jewish Medical Center Grand Rounds at the Dept of Orthopedics, Queens, NY, October 20th, 2019

- Current Concepts in ASD:

- Describe current radiographic anaylysis of ASD patients

- Present Surgical Treatment Options, Results, Complications and Outcomes

- Explain how big data and analytics will help Improve patient selection and surgical outcomes

- VCR Surgery for Severe Spinal Deformity

- Describe what a VCR surgery entails

- Explain Current Indications and Risks Involved

- Present Data on correction, complications and Outcomes of VCR Surgery

116. Meet The Experts 2021 Meeting: Revision Surgery, Madrid, Spain, October 29th-30th, 2021

- Revision after Pediatric Spine Deformity Surgery

- Revision for Proximal Junctional Failure

117. Ohio State University Grand Rounds and Resident Lecture, Department of Orthopaedics , Columbus, Ohio, March 9, 2022

- Managing the Imbalance of an Academic Spinal Deformity Surgeon, Father and Husband

- Spinal Osteotomies for the Treatment of Pediatric and Adult Spinal Deformity

118. Tater-Hall Visiting Professor At The University Of Toronto “Spinefest” Fellow Graduation Program. Toronto, Canada June 13,2022

-Optimizing Safety During Pediatric and Adult Spinal Deformity Surgery

-Managing the Imbalance Life of a Busy Academic Spine Surgeon

119. Seattle Science Foundation 10th Annual SSF Spine Masters 2022, Seattle, WA ,June 18, 2022

-My most Challenging Deformity Cases

120. San Diego Spine Foundations Annual Meeting: Bridging The Gap, July 29-30, 2022

- SESSION 3 – Bridging the Gap: From Surgeon to Administration - Panel

- KEYNOTE SESSION 4 – Bridging the Gap: What Are the Gaps Within Our

Specialty? – Panel

-SESSION 7 – Bridging the Gap: From Pediatric to Adult– Panel

-Universal Truths for All Surgeons as They Relates to IOM

121. Barrow Neurological Institute Grand Rounds , Phoenix, AZ, February 16-18, 2023

-Adult Spinal Deformity: How Did We Get Here, and Where Are We Going Next?

122. UC San Diego Health Grand Rounds, San Diego, CA, March 16 – 17, 2023

-Past, Present, & Future of Pediatric and Adult Spine Deformity Surgery

## XV. Electronic Webinar/Zoom/Webex Presentations

1. Virtual Grand Rounds between 4 Spine Centers Facilitated by Medtronic Spine, April 8, 2020

-PSO: When Is It Really Needed and Techniques to Optimize Correction and Minimize Complications

1. Medtronic Global Webinar on COVID-19 & Spine Care Worldwide, April 28, 2020
2. Moroccan Spine and Spinal Cord Surgery Society Live Webinar, May 26, 2020

-Posterior Spinal Osteotomies for the Treatent of Spinal Deformity

1. Scoliosis Research Society Webinar : Intra-operative Difficulties: Mitigation Strategies, June 4, 2020

-The Difficult Spinal Anchor: What are the Options

1. Medtronic Masters In China: International Spinal Deforomity Sumit Forum, June 6, 2020

-Treatment Strategies for Severe AIS

1. Rutgers-New Jersey Medical School & Robert Wood Johnson Medical School Virtual Grand Rounds, June 10,2020

-A New Classification of Adult Idiopathic Scoliosis: Evaluation and Treatment Guidelines

1. Lenox Hill Hospital Zucker School of Medicine at Hofstra Virtual Global Spine Conference, July 2nd, 2020

-A New Classification of Adult Idiopathic Scoliosis: Treatment Recommendations

1. Azevedo Lima Hospital- Spine Talk Lives , July 8th, 2020

-A New Classification of Adult Idiopathic Scoliosis: Evaluation and Treatment Recommendations

1. Broadwater: Pearls of Modern Spine Surery, July 15th, 2020

- Correcting Coronal Imbalance with the Kickstand Screw-rod Construct

1. University of Pennsylvania Inaugural Vincent Arlet Ortho-Spine Lecture, August 20th,2020

- Optimizing Safety During Complex Spinal Deformity Reconstructions with an Eye Towards All Orthopedic Surgeons

- A New Modular Classification System of Adult Idiopathic Scoliosis Leveraging the Long-Standing AIS Classification System.

- Posterior VCR for Severe Pediatric Thoracic Kyphoscoliosis with Myelopathy

1. Broadwater: Cervical Thoracic Deformity and the Choice of Osteotomies and Instrumentation Live Webinar, August 19, 2020

– Moderator

1. Inagural Vincent Arlet Lectureship in Spinal Surgery at the University of Pennsylvania, August 20th ,2020

- Optimizing Safety During Spinal Deformity Reconstructive Surgery

-A New Classification of Adult Idiopathic Scoliosis: Treatment Recommendations

-Vertebral Column Resection Cases and Video

1. Scoliosis Research Society Virtual 55th Annual Meeting. September 9- 13, 2020

-Moderator: Session 3: Nerves and Big Curves: Advances in Neuromonitoring and Management of Severe Spinal Deformity

-Section 2: Multidisciplinary Approaches to Risk Mitigation - Building and Advocating Dedicated Spine Teams: Anesthesia and OR

-Moderator: Evolutions in Spine Care: Innovative Solutions for Complex Cases

-Lower Extremity Motor Scores (LEMS) After Complex Adult Spinal Deformity Surgery: 5-Year Follow-Up of the Scoli-Risk-1 Study

1. Salzburg Weill Cornell Seminar in Neurosurgery, October 1st ,2020

-Classification and Treatment of Adult Idiopathic Scoliosis (AdIS)

-Correction Mechanics for Spinal Deformity Surgery

1. Broadwater: Pearls of Modern Spine Surgery, October 21 ,2020

- Use of Multi-Rod Constructs in Adult Spinal Deformity Patients Fused to the Sacrum/Pelvis

1. Duke Neurosurgery Spine Symposium, October 23rd-25th, 2020

-Guest Lecture: Surgical Treatment of High Grade Spondylolisthesis:Tips and Pearls

1. Massachusetts General Hospital Department of Orthopaedic Surgery, October 29, 2020

-Adult Idiopathic Scoliosis (AdIS): A New Classification System and Treatment Recommendations

1. Iberian and Latin American Spine Societies (SILACO) Webinar, October 31st ,2020

-Surgical Management of Adolescent Idiopatic Scoliosis

1. Barrow Neurological Institute Ground Rounds, November 6, 2020

-Adult Idiopathic Scoliosis: A New Classification and Treatment Recommendations

1. Medtronic Skull to Sacrum 2020, November 13-14, 2020
2. Och Spine Hospital Orthopedics Spine Division Ground Rounds, November 16, 2020

-L5 PSO for Adult Spinal Deformity

1. 56th Meeting of the Chilean Society of Orthopedic Surgery, November 18th - 21st, 2020

- Lenke AIS Classification System- Still Relevant After 20 Years

- Selective Thoracic Fusion in AIS

- VCR for Severe Pediatric Spinal Deformity

1. 6th Annual International Spinal Deformity Symposium (ISDS), December 4,2020

-A New Classification of Adult Idiopathic Scoliosis (AdIS) Modeled after the Lenke Classification System of Adolescent Idiopathic Scoliosis (AIS)

-Previous Lumbar Ant. and Post. solid Fusion but Sagittal and Coronal Malalignment

-Panel Discussion Moderator: Combined Coronal and Sagittal Malalignment in a patient with a prior anterior and posterior lumbar fusion

1. Bombay Spine Society Annual National Spine Conference, December 19-20, 2020

- Does the Lenke Classification of AIS provide Valid Instrumentation levels?

1. Keck School of Medicine of USC Orthopaedic Surgery Grand Rounds, January 14, 2021

-A New Classification of Adult Idiopathic Scoliosis Modeled after the Lenke Adolescent Idiopathic Scoliosis System with Treatment Recommendations.

1. Association of Spine Surgeons of India - ASSICON 2021, January 31, 2021

- History of my Career

-Role of 3D Models in Spine Surgery

-Vertebral Column Resection for Severe Spinal Deformity

1. World Spinal Column Society-Meet the Experts-Tips & Tricks from Master in Deformity Surgery, February 7, 2021

-Basic Spinal Deformity Correction Techniques that All Deformity Surgeons Need to Understand

1. Eurospine 2021 Conference – Keynote, Adult Deformity, August 10, 2021

-Evolution of posterior techniques for spinal deformity correction: 10 years back, current, and 10 years forward

1. German Spine Society Meeting 2021 – Keynote, Spine Deformity, December 9-10, 2021

-Revision Pediatric Spine Defomrity Surgery: Etiologies and Solutions

-Spinal Osteotomies for the Treatment of Severe Adult Spinal Deformity

1. Thomas Jefferson University Hospital Grand Rounds, Department of Neurosurgery, January 21, 2022

- Posterior Spinal Osteotomies for Spinal Deformity

1. Henry Ford Hospital Neurosurgery Virtual Grand Rounds, Department of Neurosurgery, February 23,2022

- Posterior Spinal Osteotomies for the Treatment of Adult Spinal Deformity

1. KSNS Spring Meeting & SRS Traditional Worldwide Course, Songdo ConvensiA, Incheon, South Korea, March 11-12,2022

* Adding-on and Shoulder Imbalance in AIS
* How to Reduce Complication Rates, PJK and Revision Surgery

1. Annual Spine Course of the Asociación Argentina de Neurocirugía

- A New Classification of Adult Idiopathic Scoliosis Modeled after the Lenke Classification System of AIS: Treatment Recommendations

1. Virtual Scoliosis Research Society WWC, ASSICON 2022, Patna, India, April 29, 2022

- ASD: Complications are the rule, not the exception !!

1. 25th Anniversary of Medtronic Summer University——Opening Ceremory Online Webinar with simultaneous interpretation, August 26,2022

-Overseas KOL Talk Show

-Deformity: From Mountain Top to See the Past

-What should we focus on in the operative treatment of AIS in the next Decade?

1. NASS AM22 Pre-Meeting Webinar: "Best and Worst Cases in Spinal Deformity", August 25, 2022

- Severe Spinal Deformity Causing Thoracic Myelopathy

1. Cedar-Sinai Medical Center Department of Spine Surgery Gound Rounds, August 31, 2022

- Spinal Osteotomies for Spinal Deformity Correction

1. Salzburg Weill Cornell Seminar in Neurosurgery, September 25 – October 1, 2022

-Basics of Adult Spinal Defomity Correction

1. University of Chicago Medicine & Biological Sciences - Department of Neurological Surgery Ground Rounds, October 19,2022

– Vertebral Column Resection (VCR) for the Treatment of Severe Spinal Deformity

1. Och Spine Grand RoundsWebinar Series, November 14, 2022

* Surgeon Evolution: How have my surgicaltechniques and decision making changed over the past 15 years and why?

1. 50 Years Of Diagnosis And Treatment Of Vertebral Deformities At Gaetano Pini Orthopedic Institute In Milan, November 25-26, 2022

- The Future of Spinal Deformity Surgery

1. Scoliosis Research Society Spinopelvic Fixation: Where are we Now?, April 1, 2023

- What I am Doing Now Works Pretty Well

1. Medtronic Evening with the Experts Webinar, April 4, 2023

-My Experience with UNiD Technology in Pediatric Spinal Deformity Surgery

1. Salzburg Weill Cornell Seminar in Neurosurgery (Spine), September 17 –23, 2023

- Basics of Adult Deformity Correction

## XVI. INSTRUCTIONAL MANUALS/VIDEOS/TUTORIALS

1. Resident CORE Curriculum: Developmental Abnormalities of the Spine. Myelodysplasia and Klippel-Feil Syndrome. NASS, December 1995.
2. Editorial: Anterior Correction of Scoliosis using the Ventral Derotation Spondylodesis (VDS) According to Zielke, Osteotech, December 1995.
3. Video Surgical Workshop of Spinal Fracture Fixation: Parts I & II - Anterior Transthoracic – Retroperitoneal Approach to the Lumbar Spine. Anterior L1 Vertebrectomy; Spinal Canal Decompression; Thoracoscopy; Spinal Endoscopy, and Thoracic and Lumbar Spine Trauma. MVP, Sofamor-Danek, St. Louis, MO, 1996.
4. Instructional Manual – OR Allied Health Professions: Update on Spinal Instrumentation, Part 1. Spinal Anatomy, Part 5: Evolution of Spinal Instrumentation. Spinal Science Advancement Foundation, December 1996.
5. CD HORIZON® Spinal System: A Review and Discussion of Four Posterior Spinal Deformity Corrections using a New Low Profile, Top Tightening Spine Instrumentation System--Case Study Review. Sofamor-Danek Group, March 1997.
6. SRS Tutorial: Anterior Thoracic Instrumentation and Fusion for Adolescent Idiopathic Scoliosis. St. Louis Children’s Hospital, St. Louis, MO, June 22, 1998.
7. SRS Tutorial: Anterior Thoracic Instrumentation and Fusion for Adolescent Idiopathic Scoliosis. St. Louis Children’s Hospital, St. Louis, MO, September 1998.
8. Surgical Technique Video: CD HORIZON® ECLIPSE™. Medtronic Sofamor Danek, 2000.
9. 10-Minute Instructional Video: Thoracic Pedicle Screws for Adolescent Idiopathic Scoliosis. Medtronic Sofamor Danek, June 2000.
10. SRS Tutorial: Pedicle Screw Instrumentation for Scoliosis. St. Louis Children’s Hospital, St. Louis, MO, July 17, 2000.
11. Making Sense of Spinal Surgery, 8-Volume CD-ROM: Procedures of Spinal Surgery. Spinal Science Advancement Foundation, May 2001.
12. Instructional Video: Techniques of Pedicle Subtraction Osteotomy. Medtronic Sofamor Danek, May 29, 2001.
13. SRS Tutorial 14: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, May 14, 2001.
14. SRS Tutorial 15: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, June 25, 2001.
15. 5-Minute Instructional Video: Open Dual Rod LEGACY™ Instrumentation for Adolescent Idiopathic Scoliosis. Medtronic Sofamor Danek, June 2001.
16. SRS Tutorial 16: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, July 23, 2001.
17. SRS Tutorial 1: Anterior Open Treatment of Idiopathic Scoliosis. St. Louis, MO, February 1, 2002.
18. SRS Tutorial 2: Thoracic and Lumbar Pedicle Screws for Idiopathic Scoliosis. St. Louis, MO, February 1, 2002.
19. Introduction for CD HORIZON® Scoliosis. Medtronic Sofamor Danek, April 2002.
20. Anterior Instrumentation in the Treatment of Idiopathic Scoliosis. Using CD HORIZON® LEGACY™ Anterior Instrumentation “State of the Art”. Medtronic Sofamor Danek, May 2002.
21. CD HORIZON® LEGACY™ Spinal System. Anterior Dual Rod Surgical Technique. Medtronic Sofamor Danek, April 2002.
22. SRS Tutorial: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, April 29, 2002.
23. SRS Tutorial: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, June 10, 2002.
24. SRS Tutorial 9: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, July 29, 2002.
25. Anterior Spinal Fusion with PYRAMESH® Kidney Bean and Mini Kidney Bean Cages V. Medtronic Sofamor Danek, December 2002.
26. LIBERTY™ Iliac Screw Placement. Medtronic Sofamor Danek, 2003.
27. 12-Minute Instructional Video: Direct Vertebral Derotation Using Posterior Thoracic Pedicle Screws. Medtronic Sofamor Danek, January 2003.
28. 10-Minute Instructional Video: Direct Vertebral Derotation Using Anterior Dual Rod LEGACY™ Instrumentation for Thoracolumbar/Lumbar Scoliosis. Medtronic Sofamor Danek, February 2003.
29. 12-Minute Instructional Video: Lumbar Pedicle Subtraction Osteotomy for Treating Sagittal Imbalance. Medtronic Sofamor Danek, February 2003.
30. 5-Minute Instructional Video: Iliac Fixation Using CD HORIZON® Fixed Iliac Screws. Medtronic Sofamor Danek, February 2003.
31. SRS Tutorial 3: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, April 28, 2003.
32. SRS Tutorial 5: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, June 23, 2003.
33. 10-Minute Instructional Video: Scheuermann’s Kyphosis Correction using Thoracic Pedicle Screws and Smith-Petersen Osteotomies. Medtronic Sofamor Danek, November 2003.
34. X10 CROSSLINK® Plate: Surgical Technique. Medtronic Sofamor Danek, 2003.
35. Rod Diameter Selection in Pediatric and Adult Spinal Deformity Correction. Medtronic Sofamor Danek, 2003.
36. CD HORIZON® LEGACY™ 5.5 mm Spinal System: Deformity Surgical Technique. Medtronic Sofamor Danek, February 2004.
37. Importance of Proper Utilization of CD HORIZON® CROSSLINK® Plates in Adult Spinal Deformity Surgery. Medtronic Sofamor Danek, April 2004.
38. Sacropelvic Fixation: Iliac and Sacral Screw Indications and Placement Technique. Medtronic Sofamor Danek, 2004
39. SRS Tutorial: Treatment of Pediatric Spinal Deformity with Thoracic Pedicle Screws. Shriners Hospital for Children, St. Louis, MO, May 17, 2004.
40. SRS Tutorial: Treatment of Pediatric Spinal Deformity with Thoracic Pedicle Screws. Shriners Hospital for Children, St. Louis, MO, June 14, 2004.
41. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, October 13, 2004.
42. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, December 13, 2004.
43. Clinical Indications for a Single-Screw, Dual-Rod Construct in Anterior Spinal Fixation. Medtronic Sofamor Danek, 2004.
44. 5-Minute Instructional Video: Scoliosis Derotation Animation Using CD HORIZON® LEGACY™ 5.5 mm Instrumentation. Medtronic Sofamor Danek, August 2005.
45. Kyphosis Correction using Smith-Petersen Osteotomies and Thoracic Pedicle Screws. Medtronic Sofamor Danek, August 2005.
46. SRS Tutorial: Thoracic Pedicle Screws in Pediatric Spinal Deformity. St. Louis Children’s Hospital, St. Louis, MO, September 26, 2005.
47. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, December 5, 2005.
48. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, January 10, 2006.
49. CD HORIZON® LEGACY™ Spinal System – Deformity Surgical Technique. Medtronic Sofamor Danek, 2006.
50. CD HORIZON® ENGAGE™ 6.35 mm Spinal System – Surgical Technique. Medtronic Sofamor Danek, 2006.
51. CD HORIZON® LEGACY™ Spinal System – Iliac Fixation Surgical Technique. Medtronic Sofamor Danek, 2006.
52. 5-Minute Instructional Video: Vertebral Column Manipulation (VCM) Video for Adolescent Idiopathic Correction. Medtronic Sofamor Danek, May 2006.
53. 5-Minute Instructional Video: Vertebral Column Resection (VCR) Video for Severe, Rigid Scoliosis Correction. Medtronic Sofamor Danek, June 2006.
54. CRESCENT® Instrumentation Set Technique. Medtronic Sofamor Danek, 2006.
55. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, July 25, 2006.
56. New Single Screw/Dual Rod CD HORIZON® ECLIPSE™ System. Medtronic Sofamor Danek, September 2006.
57. Use of CD HORIZON® LEGACY™ Multiaxial Reduction Screws® (MARS): Considerations in the Sagittal Plane. Medtronic Sofamor Danek, November 2006.
58. Techniques for Coronal Plane use of MARS® (multi-axial reduction screws). Medtronic Sofamor Danek, November 2006.
59. Pedicle Subtraction Osteotomy: Indication, Technique, and Potential Complications. Medtronic Sofamor Danek, 2006.
60. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, April 24, 2007.
61. SRS Tutorial 5: Posterior Vertebral Column Resection. St. Louis Children’s Hospital, St. Louis, MO, June 28, 2007.
62. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, July 16-20, 2007.
63. SRS Tutorial 5: Posterior Vertebral Column Resection. St. Louis Children’s Hospital, St. Louis, MO, September 13, 2007.
64. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, September 17-21, 2007.
65. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, January 7-11, 2008.
66. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, March 18, 2008.
67. SRS Tutorial: Posterior Vertebral Column Resection for Severe Adult Spinal Deformity. Barnes-Jewish Hospital, St. Louis, MO, April 28, 2008.
68. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, May 12-16, 2008.
69. CD HORIZON® X10 CROSSLINK® Plate - Surgical Technique. Medtronic Spinal & Biologics, April 2008.
70. CD HORIZON® LEGACY™ System. Pedicle Subtraction Osteotomy and Vertebral Column Resection Surgical Technique. Medtronic Spinal & Biologics, 2008.
71. CD HORIZON® LEGACY™ Spinal System with Vertebral Column Manipulation (VCM) Instrument Set. Advanced Deformity Correction Surgical Technique. Medtronic Spinal & Biologics, 2008.
72. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, St. Louis, MO, July 30-August 1, 2008.
73. Milestone in Understanding Three-Dimensional Spinal Deformity, insert in *Spine*, Medtronic Spinal & Biologics, 2008.
74. Screw Starting Point Chart, Medtronic Spinal & Biologics, 2008.
75. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, July 30-August 1, 2008.
76. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, March 18, 2008.
77. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, October 27-31, 2008.
78. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, January 5-9, 2009.
79. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, April 6-10, 2009.
80. POSNA Tutorial: Pedicle Screw Instrumentation for Pediatric Spinal Deformity. Shriners Hospital for Children, St. Louis, MO, April 21, 2009.
81. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, July 27-28, 2009.
82. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, November 2-5, 2009.
83. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, St. Louis, MO, January 25-29, 2010.
84. Medtronic Spinal & Biologics Super Site Week. Barnes-Jewish Hospital, St. Louis Children’s Hospital, Shriners Hospital for Children, St. Louis, MO, May 3-7, 2010.
85. POSNA Tutorial: Pediatric Vertebral Column Resection (VCR). St. Louis Children’s Hospital, December 9, 2010.
86. CD HORIZON® LEGACY™ System Multi-Axial Reduction Screws (MARS): Techniques and Considerations for Spinal Correction in the Sagittal, Coronal, and Axial Planes. Medtronic Spinal & Biologics, 2011.
87. Scoliosis Research Society Global Outreach Program Host Site, August 2012.
88. Scoliosis Research Society International Scholar Award Host Site, October 2013.
89. Scoliosis Research Society Luque Fellow Award Host Site, October 2013.
90. Scoliosis Research Society Global Outreach Program Host Site, October 2013.
91. Scoliosis Research Society Traveling Fellows Host Site, August 2013.
92. Scoliosis Research Society Global Outreach Program Host Site, August 2012.
93. Scoliosis Research Society Traveling Fellows Host Site, August 22-25, 2013.
94. Scoliosis Research Society Traveling Fellows Host Site, August 24-28, 2014
95. Scoliosis Research Society Traveling Fellows Host Site, July 12-15, 2016
96. North American Spine Society Micro CME Webinar – Sagittal Imbalance, July 10th, 2019

## XVII. PUBLISHED Abstracts

1. Gaehle KE, Moore S, Weindel J, Steiner, LA, **Lenke LG**. Adult lumbar scoliosis: Treatment with combined anterior-posterior spinal fusion. *AORN J* 1991;54(3):546
2. **Lenke LG**, Bridwell KH, Bullis D, Betz RR, Baldus C, Schoenecker PL. Results of *in-situ* fusion for isthmic spondylolisthesis. *Orthop Trans* 1992;16(1):142
3. Sedgewick T‡, Bridwell KH, **Lenke LG**, Baldus C. Surgical treatment of degenerative spondylolisthesis with associated spinal stenosis: the need for transverse process fusion with and without fixation coupled with decompression. *Orthop Trans* 1992;16(1):142-3
4. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Preventing decompensation in King Type II and III curves treated with Cotrel-Dubousset Instrumentation (CDI): 24 to 64 month follow-up. *Orthop Trans* 1992;16(1):158
5. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Results of Cotrel-Dubousset instrumentation (CDI) for adolescent idiopathic scoliosis (AIS): Minimum 2 year follow-up. *Orthop Trans* 1992-1993;16(3):694
6. **Lenke LG**, Bridwell KH. Results of Cotrel-Dubousset Instrumentation (CDI) for adolescent idiopathic scoliosis (AIS). Minimum 2-year follow-up. *Orthop Trans* 1992-1994;17:48
7. Sedgewick T‡, Bridwell KH, **Lenke LG**, Baldus C. Surgical treatment of degenerative spondylolisthesis with associated spinal stenosis: the need for transverse process fusion with and without fixation coupled with decompression. *Orthop Trans* 1993-1994;17(1):59
8. Marushack M‡, Bridwell KH, **Lenke LG**. Lumbar hemivertebra resection in children. An analysis of the technique. *Orthop Trans* 1993-1994;17(1):128
9. **Lenke LG**, Bridwell KH, Baldus C, Blanke K, Schoenecker PL. Ability of Cotrel-Dubousset instrumentation (CDI) to preserve distal lumbar motion segments in adolescent idiopathic scoliosis (AIS). *Orthop Trans* 1993-1994;17(4):981
10. O’Brien MF\*, **Lenke LG**, Bridwell KH, Stokes M, Padberg AM. Evoked potential monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery. *J Amer Paraplegia Society* 1994;17(2):75
11. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to spinal cord injury: an immunohistochemical investigation. *J Amer Paraplegia Society* 1994;17(2):104
12. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K. Preoperative spinal canal investigation in “large” adolescent idiopathic scoliosis curves (70°-140°): Is it warranted? *Orthop Trans* 1994;18(1):85
13. O’Brien MF\*, **Lenke LG**, Bridwell KH, Stokes M, Padberg A. SSEP monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery: A prospective study. *Orthop Trans* 1994;18(1):99
14. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. The use of fresh frozen allograft for posterior spinal fusions in neuromuscular scoliosis. Does it work? *Orthop Trans* 1994;18(1):114
15. **Lenke LG**, Bridwell KH, O’Brien MF\*, Baldus C, Blanke K. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. *Orthop Trans* 1994;18(1):119
16. **Lenke LG**, Bridwell KH, Jaffe AS‡. Effects of spinal surgery on creatine kinase MB levels. Possible confusion with diagnostic criteria for acute myocardial infarction. *Orthop Trans* 1994;18(1):270–1
17. O’Brien MF\*, **Lenke LG**, Bridwell KH, Joyce ME‡. Astrocyte response to spinal cord injury: an immunohistochemical investigation. *Orthop Trans* 1994;18(3):691
18. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. Posterior spinal fusion supplemented with only allograft bone in paralytic scoliosis. Does it work? *Orthop Trans* 1994;18(3):812
19. Bridwell KH, **Lenke LG**, O’Brien MF\*, Baldus C, Blanke K. Fresh frozen allograft for posterior spinal fusions in neuromuscular scoliosis. *Orthop Trans* 1994-1995;18(4):1099–100
20. **Lenke LG**, Bridwell KH, O’Brien MF\*, Baldus C, Blanke K. Recognition and treatment of the proximal thoracic curve in adolescent idiopathic scoliosis treated with Cotrel-Dubousset instrumentation. *Orthop Trans* 1994-1995;18(4):1104
21. O’Brien MF\*, **Lenke LG**, Bridwell KH, Stokes M, Padberg AM. SSEP monitoring of upper extremity function during thoracic and lumbar spinal deformity surgery: A prospective study. *Orthop Trans* 1994-1995;18(4):1107–8
22. O’Brien MF\*, **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Preoperative spinal canal investigation in adolescent idiopathic scoliosis with curves greater than or equal to 70°. *Orthop Trans* 1994-1995;18(4):1100–1
23. **Lenke LG**, Bridwell KH, Blanke K, Baldus C. Analysis of pulmonary function and chest cage dimension changes following thoracoplasty in idiopathic scoliosis. *Orthop Trans* 1995;19(2):346–7
24. Gelb DE\*, **Lenke LG**, Bridwell KH, Blanke K, McEnery KW. An analysis of sagittal spinal alignment in 100 asymptomatic middle and older aged volunteers (age 39 to 82): What is normal? *Orthop Trans* 1995-1996;19(3):585–6
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27. **Lenke LG**, Bridwell KH, Baldus C, Blanke K. Prospective analysis of nutritional status normalization following spinal surgery: risk factors for delayed return to baseline. *Orthop Trans* 1995-1996;19(3):592
28. **Lenke LG**, Padberg AM, Russo MH, Bridwell KH, Gelb DE\*. Triggered EMG stimulation threshold for accuracy of pedicle screw placement. An animal model and clinical correlation. *Orthop Trans* 1995-1996;19(3):604
29. Chapman MP\*, Bridwell KH, **Lenke LG**, Hamill CL\*, Baldus C, Blanke K. Assignment of risk factors for transition syndrome. An analysis of patients who have broken down above or below a solid fusion. *Orthop Trans* 1995-1996;19(3):615
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32. **Lenke LG**, Bridwell KH, Blanke K, Baldus C, Weston J. Radiographic and clinical assessment of Cotrel-Dubousset instrumentation (CDI) in adolescent idiopathic scoliosis (AIS): 5 to 10 year follow-up. *Orthop Trans* 1995-1996;19(3):631
33. Hamill CL\*, **Lenke LG**, Bridwell KH, Chapman MP\*, Blanke K, Baldus C. The use of pedicle screw fixation to improve correction in the lumbar spine of patients with idiopathic scoliosis: Is it warranted? *Orthop Trans* 1995-1996;19(3):643
34. Lou J, **Lenke LG**, Xu F. *In-vivo* Bcl-2 oncogene neuronal expression in the rat spinal cord. *Paraplegia* 1996;19(2):127
35. Komanetsky RM, Padberg AM, **Lenke LG**, Bridwell KH, Russo MH. Neurogenic motor evoked potentials: A prospective comparison of stimulation methods in spinal deformity surgery. *Paraplegia* 1996;19(2):133
36. Chapman MP\*, Bridwell KH, **Lenke LG**, Hamill CL\*, Baldus C, Blanke K. Risk factors for transition syndromes above or below solid fusions. *Orthop Trans* 1996;20(1):15-16
37. Lou J, **Lenke LG**, Xu F, O’Brien MF\*. *In-vivo* Bcl-2 oncogene neuronal expression in the rat spinal cord. *Orthop Trans* 1996;20(2):445
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40. Brown CA‡, **Lenke LG**, Bridwell KH, Hasan SA‡, Blanke KM. Pediatric thoracolumbar and lumbar pedicle screws. Short and long term complications. *Orthop Trans* 1997;21(1):75
41. Gupta P\*, **Lenke LG**, Bridwell KH, Marsicano JG\*, Baldus C, Blanke K. Incidence of neural axis abnormalities in infantile and juvenile patients with spinal deformity: is a screening MRI necessary? *Orthop Trans* 1997;21(1):24–5
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47. Bridwell KH, **Lenke LG**, Baldus C, Blanke K. Major intraoperative neurologic deficits in pediatric and adult spinal deformity patients – Incidence and etiology at one institution. *Orthop Trans* 1997-1998;21(4):1098–9
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## XVIII. educational videos/ Video articles

1. IHL's WeChat. [Lin teacher big hall] "super doctor" Lenke the next stop. July 07, 2017. <http://mp.weixin.qq.com/s/qSCs2V36a_R2SowqYaoWvw>

2. Introduction: Video Illustrations of Techniques and Strategies for Adult and Pediatric Spinal Deformity Surgery

<https://thejns.org/video/view/journals/neurosurg-focus-video/2/1/article-pIntro.xml>

## XX. Spine Surgery consulting and product development

* + - 1. CD Horizon System Development Team: 1998-2002
      2. CD Horizon Legacy Development Team: 2002-2005
      3. CD Horizon Solera Development Team: 2010-12
      4. Vertebral Column Manipulator Development Surgeon- 2006-10
      5. CD Horizon Modulex Development Team: 2015-2022
      6. Medtronic Powerease Development Team: 2010-2012
      7. Medtronic Crosslink Development Surgeon- 2004
      8. Medtronic Artic and Artic-L Development Team- 2014-16
      9. Medtronic Braive Tether Development Team- 2021-2023
      10. Consultant: Sofamor-Danek Spine Company 1995-2000
      11. Consultant: Medtronic Spine and Biologics: 2000-present
      12. Consultant: Depuy Moss-Miami 1997-99
      13. Consultant: K2M 2016-18
      14. Consultant: EOS Technologies: 2015-18
      15. Consultant: Abyrx 2019-2021
      16. Consultant: Acuity Surgical 2018-Present
      17. Acupac, Deformity Pac Allograft Bone Graft Developer- Acuity Surgical 2018-present
      18. Executive Consultant Team Member-Medtronic Spine: 2020-present

## XIX. PATENTS

* + - 1. Novel Ultrapurification Method To Allow Safe Use Of Intrasite Vancomycin And Other Antimicrobials For Prevention And/Or Treatment Of Wound Infections. Filed February 8,2017. Application number 62/456,693
      2. Novel Broad-Spectrum Compounded Antimicrobial Medication For Prevention Or Treatment Of Surgical Or Traumatic Wound Infections For Use By The Intrasite Route Of Administration. Filed February 8,2017. Application number 62/456,642
      3. Low Profile Bone Screw Extender and its Application in Minimum Invasive Spinal Surgeries. Filed February 3, 2009. Patent No. 8,727,972 issued May 20, 2014.
      4. Methods and Instruments for Spinal Derotation (Vertebral Column Manipulator Device). Patent No. 7,655,008 B2 issued February 2, 2010.
      5. Contourable Spinal Staple with Centralized and Unilateral Prongs. Patent No. 6,830,571 B2 issued December 14, 2004.
      6. Contourable Spinal Staple with Centralized and Unilateral Prongs. Patent No. 6,533,787 B1 issued March 18, 2003.
      7. Rod and Anchor System and Method for Using. Filed December 3, 2008. USPTO Publication No. 2010-0137918 A1. Application No. 12/326927.
      8. Adjustable Vertebral Body Elevator (for the PSO/VCR tool set). Filed February 7, 2008. USPTO Publication No. 2009-0404148 A1. Application No. 12/027545.
      9. Hook for Vertebral Osteosynthesis Device, and Device Including Same. Filed May 4, 2009. USPTO Publication No. EP2288302 A1. Application No. EP20090738552.
      10. Lateral Pars Anchor for Posterior Fixation. Attorney Docket No. P32113.00. France Application No. 0852966.
      11. Non Pedicular Posterior Spinal Fixation. Attorney Docket No. P31316.00. France Application No. 0852967.
      12. Spinal Stabilization System and Method. Filed February 15, 2012. USPTO Publication No. US20130211453 A1. Application No. US 13/397,365.
      13. Spinal Correction System and Method. Filed April 2, 2013. Application No. 13749658.4 – 1506. PCT/US2013024637.
      14. Spinal Implant. Filed October 30, 2017. Application No. C00017411.USD1
      15. Spinal Correction System and Method. Filed \_\_\_ . Docket No. C00011151*.USI3. Applocation* No. \_\_\_\_\_\_
      16. Intrasite Administration And Dosing Methods And Pharmaceuticals For Use Therein. Filed 2/8/18 Pub. Date 8/9/18 Docket No. HKL.300PCT/ Docket No. HKL.300UTI PCT Pub No. US2018/0221296 A1 U.S. App. No. 15/892,227
      17. Surgical Instrument And Method. United States Patent 11,426,215 . Rezach , et al. August 30, 2022. Appl. No.: 17/078,631. Family ID: 1000006529012
      18. Multiaxial Receivers with Tethers. Attorney Docket No.: A0008415US01. Filed 11/20/22

## XXI. philantrhopic educational, research, and institutional programs established and supported thru the lenke family foundation, est. by elizabeth and lawrence lenke in 2000

1. Child of the Sacred Heart Scholarship for need-based Tuition Support at Villa Duchesne/Oak Hill School, St. Louis, MO

1998- Present

1. Priory Scholarship for need-based Tuition Support at Priory Junior and High School, St. Louis, MO 2002- present

1. University of Notre Dame Scholarship for Pre-Med Student Tuition Assistance, Notre Dame, IN 2010- present
2. Creighton University Lenke Honors Program in Nursing, Omaha, NE 2012-present
3. Scoliosis Research Society Platinum Endowment Support, Milwaukee, WI 2011-present
4. Orthopedic Research and Education Foundation (OREF), Visionary endowment support, 2012- present
5. Support for Goal of Tuition-Free Medical School Education at Northwestern University Medical School, Chicago, IL 2014-present
6. Lawrence G. and Elizabeth A. Lenke Distinguished Professorship in Orthopedic Spinal Surgery at Washington University-St. Louis, St. Louis, MO Established 2015-Present
7. Clinical Research Fund Support for Thomas S. Clanton, MD, Foot and Ankle Orthopedic Surgon, Steadman-Hawkins Orthopedic Clinic, Vail, CO 2016
8. Clinical Research Fund Support thru New York-Presbyterian Hospital for Dr. Chris Ahmad, Professor of Orthopedic Surgery and Chief of Sports Medicine at Columbia University Dept. of Orthopedic Surgery, New York, NY 2017
9. Lenke Global Education Center established at Villa Duschense High School, St. Louis, MO 2017
10. Lenke Innovation Lab established at Felician University, Rutherford, New Jersey, 2017
11. Clinical Research Fund Support for Bryan J. Kelley, MD, Arthroscopic Hip Specialist and Surgeon-in-Chief, Hospital for Special Surgery, New York, NY 2018
12. Support for establishment of the Richard H. Gelberman Distinguished Professorship in Orthopedic Surgery at Washington University- St. Louis, MO 2019-present
13. Support of Scholars Program in Schools of Science and Engineering at the University of Notre Dame, Notre Dame, IN 2019-present
14. Support for Harms Study Group thru the Setting Scoliosis Straight Foundation, San Diego, CA 2012-present
15. Support for Global Spine Outreach (GSO), Chicago IL 2005-present
16. Support for James T. Rutka, MD PhD Endowment Fund thru the Neurosurgical Research and Education Foundation (NREF), 2021
17. Support for Michael F. O’Brien, MD Endowment Fund established in his honor by Setting Scoliosis Straight Foundation (SSSF), San Diego CA 2021
18. Support for establishment of the Complex Spine Study Group (CSSG) by past Columbia Univ. Spine Surgery Fellows, San Diego, CA 2022-present
19. Support for INX Conference of Felician University sponsored by Lenke Family Innovation Lab at the United Nations, June 7, 2022
20. Clincal Research Fund Support thru New York-Presbyterian Hospital for Yuri W. Novitsky, MD, Director of the Columbia University Hernia Center

## SUMMARY

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