

PIERCE D. NUNLEY, M.D.

Director
Spine Institute of Louisiana

Associate Professor
Department of Orthopaedic Surgery
Louisiana State University Health Sciences Center

Spine Institute of Louisiana
1500 Line Avenue, STE 200
Shreveport, Louisiana 71101-4643
(318) 629-5555 Phone
(318) 629-5595 Fax

EMAIL: pnunley@louisianaspine.org
WEBSITE: <http://www.louisianaspine.org>



Louisiana State University Health Sciences Center
1501 Kings Highway
Shreveport, Louisiana 71130-3932
Phone: 318-675-6180

Shreveport, Louisiana 71109

EMAIL: pnunley@lsuhsc.edu
WEBSITE:

<http://www.lsuhschshreveport.edu/departments/ClinicalDepartments/orthopaedicsurgery>



EDUCATION:

Undergraduate: University of Kansas
Lawrence, Kansas
Biology, Chemistry, Liberal Arts, Performing Arts
Honors: Alpha Chi Sigma (National Honors Chemistry Society)
Bachelor of Arts - Human Biology, 1986

Medical: University of Kansas Medical College
Kansas City, Kansas
Honors: Anatomy Prosector and Instructor- Department of Orthopaedic Surgery
Pharmacology Clinical Honors Program
Doctor of Medicine, 1991

Internship: Louisiana State University Medical Center
Shreveport, Louisiana, 1992

Residency: Louisiana State University Medical Center
Shreveport, LA, 1996

Spine Fellowships: Prof. Walter Dick, M. D.
Prof. Bernard Jeanneret, M. D.
Arbeitsgemeinschaft für Osteosynthesefragen (AO) Scholarship
University of Basel
Switzerland
Spine Fellowship, 1996

David K. Selby, M. D.
Dallas Spine Group
University of Texas Southwestern
Spine Fellowship, 1997

SPECIALIZED TRAINING:

Enneking Musculoskeletal Pathology Course
St. Augustine, FL. April 1994

CERTIFICATION:

American Board of Spine Surgery – Board Certified (Written Exam - 12/2004, Oral Exam -10/2006)
American Board of Orthopaedic Surgeons – Board Certified (Written - 6/1996, Oral - July 2000)
MOC: Oral Exam 7/20/2009, participating in MOC & WLA
Federation Licensing Examination (FLEX) - Certified August 1991

LICENSURE:

Louisiana 1991 to present
Texas 1996 to present

MEDICAL PRACTICE:

Spine Institute of Louisiana – Shreveport, Louisiana – 2003 to present
Louisiana State University Health Sciences Center
Associate Professor, Department of Orthopaedic Surgery –1999 to present
Chief of Spine Service - 2010 to 2012
Orthopedic Specialists of Louisiana - Shreveport, Louisiana - 1999 to 2003
Orthopaedic Specialists of Springfield - Springfield, Missouri - 1997 to 1999

HOSPITAL AFFILIATIONS:

Specialists Hospital Shreveport - Active Staff
Louisiana State University Medical Center - Active Staff
Red River Surgery Center – Active Staff
Christus-Highland Medical Center - Courtesy Staff
Willis-Knighton Medical Centers - Courtesy Staff

PROFESSIONAL AFFILIATIONS:

Cervical Spine Research Society (CSRS) – Fellow
Scoliosis Research Society (SRS) – Fellow
Alfred R. Shands Jr. Circle Recognition Society (OREF – SHANDS SOCIETY)
Society for Minimally Invasive Spine Surgery (SMISS) – Fellow
Society of Lateral Access Surgery (SOLAS) – Founding Member
North American Spine Society (NASS) - Member
American Academy of Orthopaedic Surgeons (AAOS) – Fellow
American College of Spine Surgery (ACSS) - Fellow
International College of Surgeons - Fellow (FICS)
International Society for the Advancement of Spine Surgery (ISASS, SAS) - Fellow
AO (Arbeitsgemeinschaft für Osteosynthesefragen) International
Louisiana Orthopaedic Association
Louisiana State Medical Society
Shreveport Medical Society

PROFESSIONAL POSITIONS & APPOINTMENTS

Medical Director & Managing Partner - Spine Institute of Louisiana
Associate Professor - Louisiana State University Health Sciences Center, Dept. of Orthopaedic Surgery
Chief of Spine Service – (2010-2012) LSUHSC, Dept. of Orthopaedic Surgery
Chairman of Board – (11/2009 to Present) American Board of Spine Surgery
(<http://www.americanboardofspinesurgery.org>)
Board of Directors – Physician Hospitals of America – 2016 - 2019
Associate Editor – The Spine Journal (2006 to Present)
Review Board - Global Spine Journal, (Official journal for AOSpine International) (2011 to present)
Reviewer – BMJ (British Medical Journal) 2015 to present.
Board of Scientific Advisors – (2005 to 2016) K2M Medical
Technical Advisory Board – (2005-2012) Syndicom, Inc
Scientific Advisory Board – (2006-2013) Spinal Motion, Inc
Scientific Advisory Board – (2010-2012) Nanovis
Board of Trustees – (2001 to 2015) Selby Spine Foundation
Board of Directors – (2003 to Present) Spine Institute of Louisiana Foundation, Inc
Board of Directors – (2012 to Present) Specialists Hospital of Shreveport
Board of Directors – (2012 to Present) MIL Properties, LLC

COMMITTEE APPOINTMENTS

ISASS 2018 Annual Meeting – Toronto, CA – Overall Program Chair

LOA Liaison to Workers Compensation Advisory Council (Louisiana)
Governor Edwards appointed. 2017 - 2018

FDA Panel Member – “A Prospective, Multi-center, Randomized Study Comparing the VertiFlex® Superior™ Interspinous Spacer (ISS) to the X-STOP® Interspinous Process Decompression (IPD®) System in Patients with Moderate Lumbar Spinal Stenosis” 2/20/2015

Cervical Spine Research Society Research (CSRS) Committee – 2011 - 2015

Co-Chairman of the Scientific Committee: 2013 Annual Meeting of the American College of Spine Surgery

ISASS Program Committee 2013, 2014, 2015, 2016, 2017, 2018

Cervical Spine Society Annual Instructional Course Invited Lecturer 2012, 2013, 2016

Spine Technology Awards Judge 2010, 2012

Selby Spine Conference – Co-Chair (2008 to present)

INTERNATIONAL SOCIETY FOR THE ADVANCEMENT OF SPINE SURGERY (ISASS)
Annual Scientific Program Committee, 2013, Vancouver, BC, Canada.

INTERNATIONAL SOCIETY FOR THE ADVANCEMENT OF SPINE SURGERY (ISASS)
Annual Scientific Program Committee, 2012, Barcelona, Spain.

INTERNATIONAL SOCIETY FOR THE ADVANCEMENT OF SPINE SURGERY (ISASS)
Delegate for ISASS at the Specialty and Service Society Caucus (SSS)
AMA House of Delegates, New Orleans, LA 2011

SOCIETY FOR MINIMALLY INVASIVE SURGERY (SMISS)
Member - Education Committee. Term: 2010-Present

NORTH AMERICAN SPINE SOCIETY (NASS)
Member - Evidence-based Guideline Development Committee
Term: 2009-2011

NORTH AMERICAN SPINE SOCIETY (NASS)
Member - Alternative and Complementary Medicine Committee
Liaison - to AAOS Complimentary & Alternative Medicine Committee
Term: February 2004 – October 2008

AMERICAN ACADEMY OF ORTHOPEDIC SURGEONS (AAOS)
Member - Complementary & Alternative Medicine Committee
Liaison - to NASS Alternative and Complementary Medicine Committee
Term: 2003-2007

NORTH AMERICAN SPINE SOCIETY (NASS)
Member - Research Fund Management Committee
Term: January 2004 – October 2006

PERSONAL INFORMATION:

Date of Birth: December 13, 1963
Place of Birth: Lawrence, Kansas
Marital Status: Married – Amie C. Jew, M.D.

EXTRACURRICULAR ACTIVITIES:

Computers: Internet and Medical Systems Design and Digital Photography
Music: Performance and Composition - Voice, Guitar, Violin, and Piano
Sports/Hobbies: Flying (Commercial Rated Pilot), Cycling, Swimming, Skiing, Golf, Photography, Cooking.

AWARDS/RECOGNITION:

The Charles D. Ray Award, Best Clinical Paper, “Radiographic Adjacent Segment Pathology Following Treatment with TDR or ACDF at One or Two Levels: A Prospective, Randomized, Controlled FDA Clinical Trial at Seven Years” ISASS 2017, Boca Raton, FL 12-15 April 2017

Best Paper Award: Spine Motion Technology: Clinical Implications and Risk Factors of Heterotopic Ossification after Cervical Total Disc Replacement at Seven Years. Pierce D. Nunley, MD. Et al. NASS, Orlando, FL 27 October 2017

Best Paper: Disc Replacement and Socioeconomics: Seven-Year Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or Two Levels, NASS 2016, 28 October 2016

Charles D. Ray Award for Best Clinical Paper, “Sagittal Alignment of One-level TDR and ACDF Patients: Ana Analysis of Patient Outcomes from a Randomized, Prospective, Clinical Trial” ISASS 2014

51 Spine Surgeons on Top Leadership Strategies, Becker’s Spine Review, 25 November 2013

102 Surgeons Focused on Spine Surgery Research, Becker’s Spine Review, 23 Jan 2013

The 28 Top Spine Surgeons in America – Orthopedics, Vol 8, Issue 13, April 2012

15 Spine Surgeons Recognized for Research – Becker’s Spine Review, 08 May 2012

Outstanding Paper Award for Surgical Science; The Spine Journal, 2012

Visiting Professor – USF Department of Orthopaedic Surgery, Spine Service Grand Rounds, 20 January 2012

“Best Papers” –Annual Meeting of North American Spine Society, 24-27 October 2012, Dallas, TX

Keynote Speaker – Spine Society of Australia, 23rd Annual Scientific Meeting, Sydney, Australia 2012

Invited Faculty: 8th Annual Evidence & Technology Spine Summit, 22-25 February 2012, Park City, UT

Cervical Spine Research Society (CSRS) 2011 - 21st Century Research Grant - \$80,700

Cervical Spine Research Society (CSRS) 2010 Research Awards Paper – 2nd Place

Spine Technology 2010 Awards, The Best Lumbar Care Technology – 3rd PlaceI “The Deformity Cricket”

Outstanding Paper Award for Surgical Science; The Spine Journal 2010

“Best Papers” –Annual Meeting of North American Spine Society, October 2010, Orlando, FL

Keynote Speaker – North Carolina Spine Society Annual Meeting 2009

Congress of Neurological Surgeons: Top Ten Papers 2009

PUBLICATIONS:**Referred Journals**

Badve SA, Kurra S, **Nunley PD**, Lavelle WF. The Mobi-C® Cervical Disc and Other Devices for Two-Level Disc Replacement: Overview of Its Safety and Efficacy. *Expert Rev Med Devices*. 2019 Mar 25:1-9.

Than KD, ... **Nunley PD**, ISSG, et al. Analysis of complications with staged surgery for less invasive treatment of adult spinal deformity. *World Neurosurg*. 2019 Mar 18. pii: S1878-8750(19)30758-2

Park P, ... **Nunley PD**, ISSG, et al. Is achieving optimal spinopelvic parameters necessary to obtain substantial clinical benefit? An analysis of patients who underwent circumferential minimally invasive surgery or hybrid surgery with open posterior instrumentation. *J Neurosurg Spine*. 2019 Feb 22:1-6

Eastlack RK, ..., **Nunley PD**, ISSG, et al. Early and Late Reoperation Rates With Various MIS Techniques for Adult Spinal Deformity Correction. *Global Spine J*. 2019 Feb;9(1):41-47

Chou D, ... **Nunley PD**, ISSG, et al. Treatment of the Fractional Curve of Adult Scoliosis with Circumferential Minimally Invasive Surgery Versus Traditional, Open Surgery: An Analysis of Surgical Outcomes. *Global Spine J*. 2018 Dec;8(8):827-833

Nunley PD, et al. Interspinous process decompression is associated with a reduction in opioid analgesia in patients with lumbar spinal stenosis. *J Pain Res*. 2018 Nov 20;11:2943-2948

Nunley PD, et al. Heterotopic Ossification After Cervical Total Disc Replacement at 7 Years-Prevalence, Progression, Clinical Implications, and Risk Factors. *Int J Spine Surg*. 2018 Aug 15;12(3):352-361

Park P, ... **Nunley PD**, ISSG, et al. The impact of age on surgical goals for spinopelvic alignment in minimally invasive surgery for adult spinal deformity. *J Neurosurg Spine*. 2018 Nov 1;29(5):560-564

Nunley PD, et al. Interspinous Process Decompression Improves Quality of Life in Patients with Lumbar Spinal Stenosis. *Minim Invasive Surg*. 2018 Jul 2;2018:1035954

Eastlack RK, ... **Nunley PD**, ISSG, et al. Home Versus Rehabilitation: Factors that Influence Disposition After Minimally Invasive Surgery in Adult Spinal Deformity Surgery. *World Neurosurg*. 2018 Oct;118:e610-e615

Campbell PG, **Nunley PD**. The Challenge of the Lumbosacral Fractional Curve in the Setting of Adult Degenerative Scoliosis. *Neurosurg Clin N Am*. 2018 Jul;29(3):467-474

Badve SA, **Nunley PD**, Kurra S, Lavelle WF. Review of long-term outcomes of disc arthroplasty for symptomatic single level cervical degenerative disc disease. *Expert Rev Med Devices*. 2018 Mar;15(3):205-217

Radcliff K, ... **Nunley PD**, et al. Long-term Evaluation of Cervical Disc Arthroplasty with the Mobi-C® Cervical Disc: A Randomized, Prospective, Multicenter Clinical Trial with Seven-Year Follow-up. *Int J Spine Surg*. 2017 Nov 28;11:31

Publications: (Continued)

- Nunley PD**, Coric D, Frank KA, Stone MB. Cervical Disc Arthroplasty: Current Evidence and Real-World Application. *Neurosurgery*. 2018 Dec 1;83(6):1087-1106
- Coric D, Guyer RD, **Nunley PD**, et al. Prospective, randomized multicenter study of cervical arthroplasty versus anterior cervical discectomy and fusion: 5-year results with a metal-on-metal artificial disc. *J Neurosurg Spine*. 2018 Mar;28(3):252-261
- Campbell PG, **Nunley PD**, et al. Short-term outcomes of lateral lumbar interbody fusion without decompression for the treatment of symptomatic degenerative spondylolisthesis at L4-5. *Neurosurg Focus*. 2018 Jan;44(1):E6
- Nunley PD**, Mundis GM Jr, Fessler RG, ISSG, et al. Impact of case type, length of stay, institution type, and comorbidities on Medicare diagnosis-related group reimbursement for adult spinal deformity surgery. *Neurosurg Focus*. 2017 Dec;43(6):E11
- Than KD, ... **Nunley PD**, ISSG, et al. Complication rates associated with open versus percutaneous pedicle screw instrumentation among patients undergoing minimally invasive interbody fusion for adult spinal deformity. *Neurosurg Focus*. 2017 Dec;43(6):E7
- Uribe JS, ... **Nunley PD**, MIS ISSG, et al. Patients with High Pelvic Tilt Achieve the Same Clinical Success as Those with Low Pelvic Tilt After Minimally Invasive Adult Deformity Surgery. *Neurosurgery*. 2018 Aug 1;83(2):270-276
- Nunley PD**, et al. Five-year durability of stand-alone interspinous process decompression for lumbar spinal stenosis. *Clin Interv Aging*. 2017 Sep 6;12:1409-1417
- Mundis GM Jr, ... **Nunley PD**, ISSG et al. A Critical Analysis of Sagittal Plane Deformity Correction with Minimally Invasive Adult Spinal Deformity Surgery: A 2-Year Follow-Up Study. *Spine Deform*. 2017 Jul;5(4):265-271
- Nunley PD**, et al. Superior Interspinous Spacer Treatment of Moderate Spinal Stenosis: 4-Year Results. *World Neurosurg*. 2017 Aug;104:279-283
- Uribe JS, ... **Nunley PD**, MIS-ISSG et al. Does MIS Surgery Allow for Shorter Constructs in the Surgical Treatment of Adult Spinal Deformity? *Neurosurgery*. 2017 Mar 1;80(3):489-497
- Nunley PD**, et al. Interspinous Process Decompression: Expanding Treatment Options for Lumbar Spinal Stenosis. *Biomed Res Int*. 2016;2016:3267307
- Nunley PD**, Sandhu F, Frank K, Stone M. Neurological Complications after Lateral Transpsoas Approach to Anterior Interbody Fusion with a Novel Flat-Blade Spine-Fixed Retractor. *Biomed Res Int*. 2016;2016:8450712
- Nunley PD**, et al. Preliminary Results of Bioactive Amniotic Suspension with Allograft for Achieving One and Two-Level Lumbar Interbody Fusion. *Int J Spine Surg*. 2016 Apr 18;10:12
- Hisey MS, ... **Nunley PD**, et al. Prospective, Randomized Comparison of One-level Mobi-C Cervical Total Disc Replacement vs. Anterior Cervical Discectomy and Fusion: Results at 5-year Follow-up. *Int J Spine Surg*. 2016 Feb 26;10:10

Publications: (Continued)

- Than KD, ... **Nunley PD**, ISSG, et al. Clinical and radiographic parameters associated with best versus worst clinical outcomes in minimally invasive spinal deformity surgery. J Neurosurg Spine. 2016 Jul;25(1):21-5
- Ament JD, Yang Z, **Nunley PD**, et al. Cost Utility Analysis of the Cervical Artificial Disc vs Fusion for the Treatment of 2-Level Symptomatic Degenerative Disc Disease: 5-Year Follow-up. Neurosurgery. 2016 Jul;79(1):135-45
- Jackson RJ, ... **Nunley PD**. Subsequent surgery rates after cervical total disc replacement using a Mobi-C Cervical Disc Prosthesis versus anterior cervical discectomy and fusion: a prospective randomized clinical trial with 5-year follow-up. J Neurosurg Spine. 2016 May;24(5):734-45
- Park P, ...**Nunley PD**, ISSG, et al. Comparison of Complications and Clinical and Radiographic Outcomes Between Nonobese and Obese Patients with Adult Spinal Deformity Undergoing Minimally Invasive Surgery. World Neurosurg. 2016 Mar;87:55-60
- Nunley PD**, et al. Letter to the Editor: Response to letters regarding Mobi-C cervical artificial disc. J Neurosurg Spine. 2016 Mar;24(3):516-8
- Patel VV, **Nunley PD**, et al. Superior(®) InterSpinous Spacer for treatment of moderate degenerative lumbar spinal stenosis: durable three-year results of a randomized controlled trial. J Pain Res. 2015 Oct 3;8:657-62
- Park P, ... **Nunley PD**, ISSG, et al. Can a Minimal Clinically Important Difference Be Achieved in Elderly Patients with Adult Spinal Deformity Who Undergo Minimally Invasive Spinal Surgery? World Neurosurg. 2016 Feb;86:168-72
- Polly DW, ... **Nunley PD**, INSITE Study Group, et al. Randomized Controlled Trial of Minimally Invasive Sacroiliac Joint Fusion Using Triangular Titanium Implants vs Nonsurgical Management for Sacroiliac Joint Dysfunction: 12-Month Outcomes. Neurosurgery. 2015 Nov;77(5):674-90
- Bae HW, Kim KD, **Nunley PD**, et al. Comparison of Clinical Outcomes of 1- and 2-Level Total Disc Replacement: Four-Year Results from a Prospective, Randomized, Controlled, Multicenter IDE Clinical Trial. Spine (Phila Pa 1976). 2015 Jun 1;40(11):759-66
- Hisey MS, ... **Nunley PD**, et al. Multi-center, prospective, randomized, controlled investigational device exemption clinical trial comparing Mobi-C Cervical Artificial Disc to anterior discectomy and fusion in the treatment of symptomatic degenerative disc disease in the cervical spine. Int J Spine Surg. 2014 Dec 1;8
- Patel VV, ... **Nunley PD**, et al. Superior interspinous process spacer for intermittent neurogenic claudication secondary to moderate lumbar spinal stenosis: two-year results from a randomized controlled FDA-IDE pivotal trial. Spine (Phila Pa 1976). 2015 Mar 1;40(5):275-82
- Davis RJ, **Nunley PD**, et al. Two-level total disc replacement with Mobi-C cervical artificial disc versus anterior discectomy and fusion: a prospective, randomized, controlled multicenter clinical trial with 4-year follow-up results. J Neurosurg Spine. 2015 Jan;22(1):15-25
- Ament JD, Yang Z, **Nunley PD**, Stone MB, Kim KD. Cost-effectiveness of cervical total disc replacement vs fusion for the treatment of 2-level symptomatic degenerative disc disease. JAMA Surg. 2014 Dec;149(12):1231-9

Publications: (Continued)

Hisey MS, ... **Nunley PD**, et al. Prospective, Randomized Comparison of Cervical Total Disk Replacement Versus Anterior Cervical Fusion: Results at 48 Months Follow-up. *J Spinal Disord Tech.* 2015 May;28(4):E237-43

Patel VV, ...**Nunley PD**, et al. Two-year clinical outcomes of a multicenter randomized controlled trial comparing two interspinous spacers for treatment of moderate lumbar spinal stenosis. *BMC Musculoskelet Disord.* 2014 Jul 5;15:221

Davis RJ, Kim KD, ... **Nunley PD**, et al. Cervical total disc replacement with the Mobi-C cervical artificial disc compared with anterior discectomy and fusion for treatment of 2-level symptomatic degenerative disc disease: a prospective, randomized, controlled multicenter clinical trial: clinical article. *J Neurosurg Spine.* 2013 Nov;19(5):532-45

Nunley PD, et al. Symptomatic adjacent segment disease after cervical total disc replacement: re-examining the clinical and radiological evidence with established criteria. *Spine J.* 2013 Jan;13(1):5-12

Cavanaugh DA, ... **Nunley PD**. Intramedullary space occupying lesion of the cervical cord: when magnetic resonance imaging is not possible. *Spine J.* 2013 Feb;13(2):206-7

Jawahar A, **Nunley, PD**. Total disc arthroplasty and ACDF in cervical spine: competitive or complimentary? Review of Literature. *Global Spine Journal*, February 2012.

Kerr EJ 3rd, ..., **Nunley PD**. The use of osteo-conductive stem-cells allograft in lumbar interbody fusion procedures: an alternative to recombinant human bone morphogenetic protein. *J Surg Orthop Adv.* 2011 Fall;20(3):193-7.

Donna Ohnmeiss, Michael Hisey, Hyun Bae, Reginald Davis, Gregory Hoffman, Kee Kim, **Pierce Nunley** Does Total Disc Replacement Reduce the Incidence of Adjacent Segment Degeneration: Results of a Multicenter, Prospective, Randomized, Controlled Trial Comparing Mobi-C® Cervical Artificial Disc to Anterior Cervical Fusion *The Spine Journal* 10/2011; 11(10):S44–S45.

Jawahar A, **Nunley PD**. Commentary: advantages of percutaneous pedicle screws in the obese: what is the clinical evidence? *Spine J.* 2011 Oct;11(10):925-6. No abstract available.

Coric D, **Nunley PD**, Guyer RD, Musante D, Carmody CN, Gordon CR, Laurysen C, Ohnmeiss DD, Boltes MO. Prospective, randomized, multicenter study of cervical arthroplasty: 269 patients from the Kineflex|C artificial disc investigational device exemption study with a minimum 2-year follow-up: clinical article. *J Neurosurg Spine.* 2011 Oct;15(4):348-58. Epub 2011 Jun 24. Erratum in: *J Neurosurg Spine.* 2012 Mar;16(3):322.

Nunley PD, et al. Factors affecting the incidence of symptomatic adjacent-level disease in cervical spine after total disc arthroplasty: 2- to 4-year follow-up of 3 prospective randomized trials. *Spine (Phila Pa 1976).* 2012 Mar 15;37(6):445-51.

Cavanaugh DA, ...**Nunley PD**. Cervical ganglioneuroma in an adult man: case report and literature review of a rare occurrence. *J La State Med Soc.* 2010 Jul-Aug;162(4):218-21. Review.

...**Nunley PD**. Total disc arthroplasty does not affect the incidence of adjacent segment degeneration in cervical spine: results of 93 patients in three prospective randomized clinical trials. *Spine J.* 2010 Dec;10(12):1043-8. Epub 2010 Sep 24.

Publications: (Continued)

Kerr EJ, ... **Nunley PD**. Implant design may influence delayed heterotopic ossification after total disk arthroplasty in lumbar spine. *Surg Neurol*. 2009 Dec;72(6):747-51; discussion 751.

Cavanaugh DA, **Nunley PD**, et al.. Delayed hyper-reactivity to metal ions after cervical disc arthroplasty: a case report and literature review. *Spine (Phila Pa 1976)*. 2009 Apr 1;34(7):E262-5. Review.

Jawahar A, Brandao SM, Howard C, **Nunley PD**. Intradiscal electrothermal therapy (IDET): a viable alternative to surgery for low back pain in workers' compensation patients? *J La State Med Soc*. 2008 Sep-Oct;160(5):280-5.

Nunley PD, Jawahar A, Mukherjee DP, Ogden A, Khan Z, Kerr EJ 3rd, Cavanaugh DA. Comparison of pressure effects on adjacent disk levels after 2-level lumbar constructs: fusion, hybrid, and total disk replacement. *Surg Neurol*. 2008 Sep;70(3):247-51; discussion 251. Epub 2008 Jul 9.

Nunley PD, Jawahar A, Brandao SM, Wilkinson KM. Intradiscal electrothermal therapy (IDET) for low back pain in worker's compensation patients: can it provide a potential answer? Long-term results. *J Spinal Disord Tech*. 2008 Feb;21(1):11-8.

Nunley PD, et al. Choice of plate may affect outcomes for single versus multilevel ACDF: results of a prospective randomized single-blind trial. *Spine J*. 2009 Feb;9(2):121-7. Epub 2008 Feb 8.

Cavanaugh DA, **Nunley PD**: Book Review: *Imaging of the Nervous System, Diagnostic and Therapeutic Application*, by Latchaw, Kucharczyk, and Moselei, Elsevier Mosby, 2005. *The Spine Journal*. 2008 8(3): 555-556

Nunley PD, Mukherjee . . . Fusion versus Hybrid after 2-level Lumbar Discectomy: Does the Construct Actually Affect Pressure at Adjacent Levels? A Biomechanical Study. *The Spine Journal*. 2007 7(5): 101S

Cavanaugh DA, ... **Nunley PD**. Intraspinial meningioma in a 101-year old: should age determine the aggressiveness of intervention? *Surg Neurol*. 2008 Feb;69(2):130-4. Epub 2007 Oct 29.

Kerr EJ 3rd, **Nunley PD**, et al. Primary osteoblastic osteosarcoma in an elderly female: a case report of perplexing presentation. *Anticancer Res*. 2006 Jul-Aug;26(4B):3117-21.

Schimmer RC, Jeanneret C, **Nunley PD**, Jeanneret B. Osteomyelitis of the cervical spine: a potentially dramatic disease. *J Spinal Disord Tech*. 2002 Apr;15(2):110-7.

Savoie FH 3rd, **Nunley PD**, Field LD. Arthroscopic management of the arthritic elbow: indications, technique, and results. *J Shoulder Elbow Surg*. 1999 May-Jun;8(3):214-9.

Butler TE Jr, Asher MA, Jayaraman G, **Nunley PD**, Robinson RG. The strength and stiffness of thoracic implant anchors in osteoporotic spines. *Spine (Phila Pa 1976)*. 1994 Sep 1;19(17):1956-62.

Book Chapters

Nunley, P.D. (2016) – Posterior Instrumentation for Stability after Lumbar Interbody Fusion in *Modern Techniques in Lumbar Interbody Fusion 1e*, Edited by Sunil V. Manjila, MD, Thomas Mroz MD and Michael P. Steinmetz, MD. Elsevier Ltd, London. 2019, Elsevier

Jacob M. Buchowski, MD, MS; Lali H. S. Sekhon, MD; Do-Heum Yoon, MD; Pierce D. Nunley, MD; John G. Heller, MD; Paul A. Anderson, MD; Rick C. Sasso, MD; and K. Daniel Riew, MD (2010) In Anderson, P.A. (ed) *Techniques in Orthopaedics, Cervical Disc Arthroplasty*. Lippincott Publishers.

Nunley, P.D. (2010) Dynamic versus Static Plates Debate - Dynamic Plates are Better. In Benzel, E.C. (ed) *The Cervical Spine 5th edition*, Philadelphia, PA: Lippincott Williams & Wilkins Publishers.

Nunley, P.D. (2009) Alternative Approaches for Lumbar Fusion: AxiaLIF. In F.A. Sandhu, J M Voyadzis, R G Fessler (Eds.), *Decision Making in Minimally Invasive Spine Surgery*. New York, NY: Thieme Medical Publishers.

Nunley, P.D. (2005) The GEO™ Oval – Anterior vertebral body replacement and interbody fusions. In D.H. Kim, A.R. Vaccaro, R.G. Fessler (Eds.), *SpinalInstrumentation: surgical techniques*. (pp. 795-800). New York, NY: Thieme Medical Publishers.

Nunley, P.D. (2005) The GEO™ Rectangle – Techniques in Posterior Lumbar Interbody Fusion (PLIF) and Transforaminal Lumbar Interbody Fusion (TLIF). In D.H. Kim, A.R. Vaccaro, R.G. Fessler (Eds.), *SpinalInstrumentation: surgical techniques*. (pp. 1050-1055). New York, NY: Thieme Medical Publishers.

RESEARCH ACTIVITIES:

A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of moderate lumbar spinal stenosis with the Superior® Indirect Decompression System (IDS) vs. direct decompression surgery for FDA Actual Conditions of Use Study
Principal Investigator 2017 to Present

A Clinical Study to Assess the Safety and Effectiveness of the Premia Spine TOPS System
Principal Investigator 2017 to 2017 (Withdrawn)

Post-Market, 10 Year Follow Up of Mobi-C® Cervical Disc for One and Two Level Treatment of Cervical Disc Disease
Principal Investigator 2016 to 2019

Prospective, Concurrently Controlled, Multi-Center Study to Evaluate the Safety and Effectiveness of the Spinal Kinetics™ M6-C Artificial Cervical Disc Compared to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of Symptomatic Cervical Radiculopathy
Principal Investigator 2016 to Present

Clinical Investigation Plan for Post Approval ‘Real Conditions of Use’ Study, A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of degenerative spinal stenosis with concomitant low back pain by decompression with and without additional stabilization using the coflex Interlaminar Technology for FDA real conditions of use study.
Principal Investigator 2016 to Present

A phase 3, open-label study to evaluate the safety of oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted
Principal Investigator 2016 to 2018

Clinical Study Protocol for the Investigation of the Simplify™ Cervical Artificial Disc
Principal Investigator 2015 to Present

Research Activities: (Continued)

The Investigational Plan for the Evaluation of the ACADIA™ Facet Replacement System
Principal Investigator 2015 to 2017

A Multicenter, Open-label Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III)
Principal Investigator 2015 to 2018

A Prospective, Multicenter, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety of a Single Injection of relexmestrocil-L Alone or combined with Hyaluronic Acid (HA) in Subjects with Chronic Discogenic Lumbar Back Pain Through 12 Months
Principal Investigator 2015 to 2018

A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Study To Evaluate The Safety and Efficacy of Staphylococcus Aureus 4-Antigen Vaccine (SA4Ag) in Adults Undergoing Elective Posterior Instrumented Lumbar Spinal Fusion Procedures
Principal Investigator 2015 to Present

Prospective, Multi-Center Minimally Invasive Adult Spinal Deformity Outcomes Database Registry
Principal Investigator 2015 to Present

A single-arm, prospective, multi-center study of Nucel® in patients receiving interbody fusion for one and two level degenerative disease of the lumbar spine
Principal Investigator 2015 to 2019

Comparison of Complication Rates between Lateral Approaches to the Lumbar Spine: K2M RAVINE® Far Lateral System versus NuVasive XLIF®
Principal Investigator 2014 to 2018

A Multicenter, Randomized, Double-blind, Controlled, Comparative Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III)
Principal Investigator 2014 to 2018

Spineology Clinical Outcomes Trial SCOUT IDE (G140140) Clinical Investigation
Principal Investigator 2014 to 2018

Multi-Center Retrospective and Observational Data Registry for Clinical and Radiographic Outcomes of Spine Surgeries performed with the RAVINE® Lateral Access System
Principal Investigator 2014 to 2016

Minimally Invasive Surgery for the Treatment of Adult Spinal Deformity: A Multicenter Registry
Principal Investigator 2013 to Present

Treatment of Lumbar Spinal Stenosis with X-STOP® PEEK Spacer in Moderately Symptomatic Patients
Principal Investigator 2013 to 2015

A non-randomized safety and efficacy study of patients receiving Nucel® bone graft for one or two level interbody fusion for degenerative disease of the lumbar spine. (Nucel-03)
Principal Investigator 2013 to 2015

Determination of the True 5-year Incidence of Adjacent Segment Disease after Total Disc Arthroplasty for Cervical Myeloradiculopathy at One and Two Levels
Principal Investigator 2013 to 2015

Research Activities: (Continued)

INSITE: Investigation of Sacroiliac Fusion Treatment
Principal Investigator 2012 to 2017

Prospective randomized IDE trial to compare KIVAplasty with Kyphoplasty for treatment of osteoporotic vertebral compression fractures. Benvenue Medical.
Co-Investigator 2011 - 2013

A non-randomized prospective multi-center feasibility study of Allostem (Allofsource Inc.) in patients receiving fusion for single and two-level degenerative disease of the lumbar spine.
Co-Investigator – 2010 - 2014

A Study to Compare VITOSS Bioactive® + BMA Versus Osteocel Plus through Radiological and Clinical Outcomes in Extreme-Lateral Interbody Fusions (XLIF®)
Principal Investigator 2010 to 2014

A non-randomized prospective multi-center feasibility study of Nucel® in patients receiving fusion for single level degenerative disease of the lumbar spine.
Principal Investigator 2010 to Present

A Pivotal, Multi-Center, Clinical Trial Evaluating The Safety And Effectiveness of The Lumbar TDR Device In Patients With Single-Level Lumbar Degenerative Disc Disease (a.k.a. NuVasive Lateral TDR IDE)
Principal Investigator 2009 to 2014

A prospective study utilizing intraoperative epidural injection of Fentanyl and Bupivacaine for post-operative pain management. (IRB Approved study)
Principal Investigator - 2009 to 2010

Axiomed "Freedom Lumbar Artificial Disc", FDA, Investigational Device Evaluation (IDE) study site.
(Principal Investigator) - 2009 to Present

A Non-Randomized, Prospective, Multicenter Feasibility Study of the Disc Dynamics DASCOR® Disc Arthroplasty Device in the Treatment of Degenerative Disc Disease (PILOT STUDY) (Principal Investigator) - 2008 to 2010

A Prospective, Multi-center, Randomized Study Comparing the VertiFlex® Superior™ Interspinous Spacer (ISS) to the X-STOP® Interspinous Process Decompression (IPD®) System in Patients with Moderate Lumbar Spinal Stenosis (Principal Investigator) - 2008 to 2017

Multi Center Prospective Study for Clinical and Radiographic Outcomes of Spine Deformity Comparing Set Screws to Taper Lock Instrumentation, Safety and Efficacy (Principal Investigator) 2008 to 2012.

Clinical Trial Comparing the Blackstone Advent™ Cervical Disc to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of One Level Degenerative Disc Disease (Co-Investigator) – 2008 to 2010

In vitro Biomechanical Analysis of the Spine using Pedicle Screws and Rods: Ti-6Al-4V vs. NiTi (Nitinol) 2007-2008

A Multi-Center, Prospective, Randomized, Controlled Clinical Trial Comparing the Safety and Effectiveness of the Mobi-C® (One-Level) Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease (DDD) in the Cervical Spine (Principal Investigator)-2006 to 2016

Comparison Of Laminectomy To Laminoplasty Using The ARCH™ Fixation System In Patients With Multiple Level Cervical Spinal Canal Stenosis (Principle Investigator) – 2007-2008

Comparison of dynamic stabilization of the lumbar spine with the Stabilimax NZ™ Dynamic Spine Stabilization System to posterolateral instrumented fusion. (Principle Investigator) – 2007 (Withdrawn)

Research Activities: (Continued)

- A Multi-Center, Prospective, Randomized, Controlled Clinical Trial Comparing the Safety and Effectiveness of the Mobi.C® (Two-Level) Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease (DOD) in the Cervical Spine (Principle Investigator) – 2006 to 2016
- Comparison of Optimesh to Allograft Bone for posterior interbody fusion with supplemental screw fixation. – 2006 to 2010
- Biomechanical Effects on Adjacent Segments to Total Disc Arthroplasty versus Interbody Fusion during physiologic range of motion of the Lumbar Spine. Principal Investigator. LSUHSC Department of Orthopaedic Surgery, Biomechanics laboratory. 2006-2007
- Kineflex|C™ Cervical Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site. (Principal Investigator) - 2005 to 2013.
- Kineflex™ Lumbar Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site. (Principal Investigator) - 2006 to 2013.
- A Randomized, Controlled Clinical Study to Evaluate the Safety and Effectiveness of Cortoss® Synthetic Cortical Bone Void Filler in Vertebral Augmentation. FDA, Investigational Device Evaluation (IDE) study site. 2006 to 2009
- Comparison of static versus dynamic plating in anterior cervical fusion for 1, 2 & 3 level fusions. Class I, Prospective, randomized, IRB approved study. 2002 – 2008. (US Principle Investigator)
- IDET – Intradiscal Electrothermal Therapy for the treatment of chronic discogenic low back pain. Prospective clinical trial. 1999 – 2006.
- Investigational Device Evaluation (IDE) study site for the Synthes Contact Fusion Cage. 1999-2002.
- Studying the effects of Transforming Growth Factor Beta and Electromagnetic Fields on Early Fracture Healing in the Fischer Rat Model. 1993-1994
- PATENT PORTFOLIO:**
- Interbody Spacer, Patent: 9,987,051 - Applied 1/27/16, Issued 6/5/2018, Patent 9,999,444 – Applied 7/31/13, Issued 6/19/18
- Depth Controlled Jamshidi Needle – Patent application: Filed 6/24/14 Granted: 6/19/18 Patent: 8,758,383
- Lateral Access System - Method and Use Patent - Patent numbers: 8449463, 9186132, 9192367 - Issued 05/28/2013, Patent 9,782,158 – Applied 12/3/15, Issued 10/10/17
- Interbody Spacer – Patent: 9,468,535 - Filed 10/11/11, Issued 10/18/16
- Rod Reduction Device - Nunley, Barrus, Jones - Patent number: 8308729 - Issued: 11/13/2012
- Intersomatic cage, intervertebral prosthesis, anchoring device and implantation instruments, Inventors: Allain; Jerome; (Bagnolet, FR) ; Lombard; Jean; (Niort, FR) ; Phelps; Jeff; (North Richland Hills, TX) ; Nunley; Pierce D.; (Shreveport, LA) ; Gordon; Charles; (Tyler, TX) ; Leone; Vincent J.; (Manhasset, NY) ; Hisey; Michael M.D.; (Flower Mound, TX), Patent number: 8,343,219, Issued 1/1/2013, 9,795,485 Issued: 10/24/2017
- Implantable Cervical Fusion Device, Inventors: Youssef; Jim; (Durango, CO) ; Riew; Daniel; (St. Louis, MO) ; Wang; Jeffrey; (Sherman Oaks, CA) ; Abitbol; JJ; (San Diego, CA) ; Nunley; Pierce Dalton; (Grand Cane, LA), Application #: 20090012620, Date Applied: January 8, 2009

PRESENTATIONS:**International:**

The Return of Chemonucleolysis, Pierce D Nunley, MD

XXV Brussels International Spine Symposium, Brussels, Belgium 15-17 November 2018

IDET: Is there a current role in the treatment of back pain? Pierce D Nunley, MD

XXV Brussels International Spine Symposium, Brussels, Belgium 15-17 November 2018

Is Achieving Optimal Spinopelvic Parameters Necessary to Obtain Substantial Clinical Benefit: Analysis of Patients Who Underwent Circumferential MIS or Hybrid Surgery with Open Posterior Instrumentation. Paul Park, MD, Pierce D. Nunley, MD, et al ISSG.

Scoliosis Research Society, 53rd Annual Meeting, Bologna, Italy, 10-13 October, 2018

Is there a place for interspinous implants in the treatment of spondylolisthesis? Pierce D Nunley, MD

XXIV Brussels International Spine Symposium, Brussels, Belgium 16-18 November 2017

ALIF vs TLIF in the treatment of L5 lytic spondylolisthesis. Pierce D. Nunley, MD

XXIV Brussels International Spine Symposium, Brussels, Belgium 16-18 November 2017

Cervical TDR Debate: Position: Artificial Disc: “It Works BETTER than ACDF” Pierce D. Nunley, MD

CSRS 21st Instructional Course & 44th Annual Meeting, Toronto, Canada 30 November – 3 December 2016

Clinical Implications of Heterotopic Ossification after Cervical Disc Arthroplasty at 7 Years. Pierce D. Nunley, MD, et al.

CSRS 21st Instructional Course & 44th Annual Meeting, Toronto, Canada 30 November – 3 December 2016

Cervical Disc Replacement vs. ACDF for Single and Multilevel Treatment of Cervical Degenerative Disc Disease: Seven-Year Clinical Results from an FDA Clinical Trial. Pierce D. Nunley, MD (Poster)

CSRS 21st Instructional Course & 44th Annual Meeting, Toronto, Canada 30 November – 3 December 2016

Controversy: ACDF vs TDR. Position: When is ACDF better than TDR?

XXIII Brussels International Spine Symposium, Brussels, Belgium 17-19 November 2016

What is the Effect of Open vs Percutaneous Screws on Complications Among Patients Undergoing Lateral Interbody Fusion for Adult Spinal Deformity? Khoi Duc Than, MD. . . Pierce D. Nunley, MD, ISSG.

Scoliosis Research Society, 51st Annual Meeting, Prague, Czech Republic 21-24 September 2016

Minimally invasive Spinal Deformity: an emerging technological advance or a Flash in the Pan? Symposium: Case Discussion. Nunley PD.

Scoliosis Research Society, 51st Annual Meeting, Prague, Czech Republic 21-24 September 2016

Current MIS Techniques Fail to Optimize Spinopelvic Parameters in Patients with High Pelvic Incidence

Gregory M. Mundis Jr., MD, Pierce D. Nunley, MD, ISSG.

Scoliosis Research Society, 51st Annual Meeting, Prague, Czech Republic 21-24 September 2016

The Impact of Minimally Invasive Spinal Deformity Surgery on ICU and Hospital Stay. Dean Chou, . . . Pierce D Nunley, et al

SPINEWEEK 2016, 16-20 May 2016, Singapore, Singapore

Critical Analysis of Sagittal Plane Deformity Correction with Minimally Invasive Adult Spinal Deformity Surgery: A Two-Year Follow Up Study. Gregory M. Mundis, . . . Pierce D. Nunley

IMAST 2015 22nd International Meeting on Advanced Spine Techniques, 8-11 July 2015, Kuala Lumpur, Malaysia.

International Presentations (Continued)

Does MIS Surgery Allow for Shorter Constructs in the Surgical Treatment of ASD? Juan S. Uribe, . . . Pierce D. Nunley
IMAST 2015 22nd International Meeting on Advanced Spine Techniques, 8-11 July 2015, Kuala Lumpur, Malaysia.

Mesenchymal Stem Cell Technology in Lumbar Interbody Fusion: Clinical Evidence of Safety and Efficacy. Nunley PD .
. . Utter PA

International Society for the Advancement of Spine Surgery (ISASS) 13th annual Meeting
Vancouver, Canada 3-5 April 2013,

Far Lateral: Treating Adult Degenerative Scoliosis with Ravine Technology
Meeting of Minds – Advanced Spinal Deformity Meeting 2013
Rome, Italy 15-16 March 2013

Spondylolisthesis Reductions with K2M Technology: SERENGETI Complex System in Action
Meeting of Minds – Advanced Spinal Deformity Meeting 2013
Rome, Italy 15-16 March 2013

Who Requires Fusion in Addition to Decompression in Adult Degenerative Scoliosis?
Meeting of Minds – Advanced Spinal Deformity Meeting 2013
Rome, Italy 15-16 March 2013

NUCEL® in patients receiving fusion for degenerative disease of the spine.
III World Congress of Minimally Invasive Spine Surgery, Riodegeniro, Brazil, August 2012

Keynote Speaker – “The Future of Minimally Invasive Surgery”
Spine Society of Australia 23rd Annual Scientific Meeting 2012 (SSA 2012)
Sydney, Australia 27 April 2012

Increase in Segmental Lordosis after Total Disc Replacement with Mobi-C Cervical Artificial Disc®: Results from an
FDA Regulated IDE Study. A. Araghi . . . P. Nunley
International Society for the Advancement of Spine Surgery Annual meeting, Barcelona, Spain, 20-23 March 2012

Factors determining the long-term clinical success rate after Anterior Cervical Discectomy and Fusion for one and two-
level radiculo-myelopathy. Pierce D Nunley MD et al.
International Society for the Advancement of Spine Surgery Annual meeting, Barcelona, Spain, 20-23 March 2012

Does Total Disc Arthroplasty in cervical spine reduce the incidence of symptomatic adjacent segment disease? Analysis
from multiple randomized trials. Utter PA, . . . Nunley PD et al: Podium, 14th European Congress of Neurosurgery,
Rome, Italy, 9-14 October 2011

Device Displacement following cervical total disc arthroplasty: Analysis of probable causes in five consecutive cases.
IMAST 2011, Copenhagen, Denmark 15 July 2011

Minimally Invasive Surgery and Lateral Access Surgery Cadaver Workshop - Lead Instructor
Spine Society of Australia 22nd Annual Scientific Meeting 2011 (SSA 2011)
Melbourne, Australia 14 April 2011

Percutaneous MIS Fixation Short Segment - Lecture
SpineMasters, DubaiUAE, May 24, 2010

MIS Thoracic Discectomy - Lecture
SpineMasters, DubaiUAE, May 23, 2010

International Presentations (Continued)

MIS Lumbar Discectomy - Lecture
SpineMasters, Dubai UAE, May 23, 2010

MIS Lab Lead Instructor - MIS Fixation in Complex Spine Surgery and MIS TLIF
SpineMasters, Dubai UAE, May 23-25, 2010

Device Displacement and Reoperation following Cervical TDR: Analysis of probable causes in FIVE consecutive cases
International Meeting on Advanced Spine Techniques, 16th Annual Meeting. Vienna, Austria July 17th, 2009

Total Disc Arthroplasty Affords Quicker Recovery in One-level Degenerative Disc Disease of Cervical Spine:
Preliminary Results of a Prospective Randomized Trial (Podium Presentation)
North American Spine Society, 23rd Annual Meeting. Toronto, Canada. October 15th, 2008

Minimally Invasive Spine Surgery - The Future of Spine Surgery.
K2M Annual National Sales Meeting
Toronto, Canada. October 14th, 2008.

“Minimally Invasive Lumbar Fusion – TLIF and Pedicle Screw Instrumentation”
20th Annual Disorders of the Spine
Whistler, Canada. January 20-22, 2008 (3 workshop presentations & Laboratory and case discussion moderator)

Comparison of Pressure-Effects on Adjacent Disc Levels Following 2-Level Lumbar Constructs:
Fusion, Hybrid and Total Disc Replacement (PODIUM)
Spine Arthroplasty Society, 7th Annual Meeting,
Berlin, Germany. May 3, 2007

A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices (POSTER)
Authors: Richard D. Guyer, M.D., Pierce Nunley, M.D., Scott L. Blumenthal, M.D., et. Al.
Spine Arthroplasty Society, 7th Annual Meeting,
Berlin, Germany. May 1-4, 2007

Intradiscal Electrothermal Therapy (IDET) for Low Back Pain in Worker’s Compensation Patients:
Long Term Results (POSTER)
Spine Across the Sea 2006 (sponsored by NASS & Japanese Spine Research Society)
Maui, HI July 23-27, 2006

“Cervical Pseudarthrosis following ACF with Plating – Treatment Options and Rationale”
17th Annual Disorders of the Spine (PODIUM)
Whistler, Canada. January 20, 2005

“Lumbar Fusion Cages – Geo™ PLIF and ALIF applications in the Lumbar Spine”
17th Annual Disorders of the Spine
Whistler, Canada. January 2005 (5 presentations & workshop instructor)

“Lumbar Fusion Cages – Geo™ PLIF and ALIF applications in the Lumbar Spine”
16th Annual Disorders of the Spine
Whistler, Canada. January 2004 (4 presentations and lead workshop instructor)

“Lumbar Fusion Cages – Geo™ PLIF and ALIF applications in the Lumbar Spine”
15th Annual Disorders of the Spine
Whistler, Canada. January 2003 (5 presentations and lead workshop instructor)

International Presentations (Continued)

“Image Acquisition, Processing, and Organization for Medical Presentations.” (PODIUM)
15th Annual Disorders of the Spine
Whistler, Canada. January 22, 2003.

“Lumbar Fusion Cages – Geo™ PLIF and ALIF applications in the Lumbar Spine” (PODIUM)
14th Annual Disorders of the Spine
Whistler, Canada. January 2002 (5 presentations and lead workshop instructor)

"Management of Discogenic Pain of the Lumbar Spine." (PODIUM)
Current Concepts in the Treatment of Spinal Disorders.
Cancun, Mexico. January 1999

"Operative Treatment of Lumbar Disc Disease with Discogenic Pain."
5th International Meeting on Advanced Spine Techniques.
Sorrento, Italy. May 1998

National Presentations:

Pelvic Alignment: So Many Numbers So little Time
SOLAS 2019 12th Annual Meeting, Miami, FL. 16-18 May 2019

Unique Hybrid Implant Placed Through a Small, Non-Expanding Portal for Minimally Invasive Lateral Lumbar Interbody Fusion: Early Multi-Center Study Findings
SOLAS 2019 12th Annual Meeting, Miami, FL. 16-18 May 2019

Effect of Postoperative Increase in Intervertebral Disc Height on Clinical Outcomes in Anterior Cervical Discectomy and Fusion Patients. Toole T, Kurra S, Nunley PD, Lavelle WR. Poster #1779.
ISASS19, Anaheim, CA, 3-5 April 2019

Patient-Reported Outcomes Comparing Predominant Back Pain or Radiculopathy at Baseline: 12-month Trial Results of a Novel Expandable Mesh Lumbar Interbody Grafting Device. [Faheem Sandhu](#), J Chi, P Nunley, M Stone
ISASS19, Anaheim, CA, 3-5 April 2019

Complication Management - Percutaneous Pedicle Screw Placement in MIS Deformity Surgery
Spine Summit 2019, Joint Section AANS/CNS, Miami, FL 14-17 March 2019

DEBATE: Cervical Total Disc Replacement, Position - PRO: Better than ACDF (vs. Charles Branch, MD)
Spine Summit 2019, Joint Section AANS/CNS, Miami, FL 14-17 March 2019

Early Results of the RaDical Study; Deployable Hybrid PEEK/Mesh Lateral Implant
Selby Spine Conference 2019, Park City, UT. 31 January -2 February 2019

How Does Reimbursement Reform Affect My Practice?
Selby Spine Conference 2019, Park City, UT. 31 January -2 February 2019

Effect of Postoperative Increase in Disc Height on Clinical Outcomes in Anterior Cervical Discectomy and Fusion Patients. [Richard A. Tallarico, MD](#), Pierce D Nunley, MD, et al
CSRS 23rd Instructional Course & 46th Annual Meeting, Scottsdale, AZ 6-8 December 2018

National Presentations (Continued):

Clinical Adjacent Segment Pathology Risk is Less Following Cervical Disc Arthroplasty Compared to Anterior Cervical Discectomy and Fusion at 7 Years Postop. Pierce D Nunley, MD, et al.
CSRS 23rd Instructional Course & 46th Annual Meeting, Scottsdale, AZ 6-8 December 2018

Instruction Course Debate: Robotics - Fad or Future? Position: Robotics Makes No Sense
CSRS 23rd Instructional Course & 46th Annual Meeting, Scottsdale, AZ 6-8 December 2018

Incidence of Acute, Progressive, and Delayed Proximal Junctional Kyphosis over an Eight-Year Period in Adult Spinal Deformity Patients. Breton Line, BS, Pierce D. Nunley, MD, et al. ISSG
NASS 2018 Los Angeles, CA 26-29 September 2018

Predicting Extended Operative Time and Length of Inpatient Stay in Cervical Deformity Corrective Surgery. Pierce D Nunley, MD, et al ISSG.
NASS 2018 Los Angeles, CA 26-29 September 2018

Is Achieving Optimal Spinopelvic Parameters Necessary to Obtain Substantial Clinical Benefit? Analysis of Patients Who Underwent Circumferential MIS or Hybrid Surgery with Open Posterior Instrumentation. Paul Park, MD, Pierce D. Nunley, MD et al ISSG
NASS 2018 Los Angeles, CA 26-29 September 2018

Expandable Graft-Containing Fabric Mesh System for Single-Level Lumbar Interbody Stabilization: One-Year Clinical and Radiographic Results from a Prospective Clinical IDE Trial. John H. Chi, MD, Pierce D. Nunley, MD, et al.
NASS 2018 Los Angeles, CA 26-29 September 2018

Transforaminal versus Anterior Lumbar Interbody Fusion at L5-S1 in MIS Treatment of ASD: Effect on Spinopelvic Parameters and Outcomes in Degenerative Scoliosis. Gregory M. Mundis Jr., MD. .Pierce D. Nunley, MD. Poster
NASS 2018 Los Angeles, CA 26-29 September 2018

Clinical Adjacent Segment Pathology Following Treatment with CDA or ACDF at One or Two-Levels Through Seven Years. Pierce D. Nunley, MD, et al. Poster
NASS 2018 Los Angeles, CA 26-29 September 2018

Impact of Lower Thoracic vs. Upper Lumbar UIV in MIS Correction of Adult Spinal Deformity
Robert K. Eastlack, MD, Pierce D. Nunley, MD, et al ISSG.
IMAST 2018, 25th Annual Conference, Los Angeles, CA, 11-14 July 2018

Incidence of Acute, Progressive, and Delayed Proximal Junctional Kyphosis over an 8-Year Period in Adult Spinal Deformity Patients. Peter G. Passias, MD, Pierce D. Nunley, MD, et al ISSG
IMAST 2018, 25th Annual Conference, Los Angeles, CA, 11-14 July 2018

Panel Discussion: Spine Procedures in ASCs, Pierce D Nunley, panelist
Becker's 16th Annual Spine, Orthopedic and Pain Management-Driven ASC Conference + The Future of Spine
Chicago, IL 14-16, June 2018

Cahill Controversies: Burst Fracture Debate: Position: Open Fusion and Instrumentation
Spine Summit 2018, Joint Section AANS/CNS, Orlando, FL 14-17 March 2018

Home Versus Rehab: Factors That Influence Disposition After MIS Adult Spinal Deformity Surgery? Justin Ledesma,
Pierce D. Nunley, ISSG
Spine Summit 2018, Joint Section AANS/CNS, Orlando, FL 14-17 March 2018

National Presentations (Continued):

The Impact of Revision Surgery on Patients Undergoing MIS Correction of Adult Spinal Deformity: A Multicenter Study
Michael Gerling, Pierce D. Nunley, ISSG
 Spine Summit 2018, Joint Section AANS/CNS, Orlando, FL 14-17 March 2018

Analysis of Complications with Staged Surgery for Less Invasive Treatment of Adult Spinal Deformity Gregory M. Mundis, Jr., Pierce D. Nunley, ISSG.
 Spine Summit 2018, Joint Section AANS/CNS, Orlando, FL 14-17 March 2018

Debate: Robotic Spine Surgery, Position: Robotics Are a Waste of Money and Will Go the Way of Typical Navigational Systems-To the Closet. Pierce D Nunley, MD
 Selby Spine Conference 2018, Park City, UT. 1-3 February 2018

FlareHawk™ Technology Overview and Case Review
 Selby Spine Conference 2018, Park City, UT. 1-3 February 2018

Prevalence, Progression, Clinical Implications, and Risk Factors of Heterotopic Ossification After Cervical Total Disc Replacement at 7 Years. Pierce D. Nunley, MD, et al
 CSRS 45th Annual Meeting, Hollywood, FL 30 November – 2 December 2017

Clinical Implications and Risk Factors of Heterotopic Ossification after Cervical Total Disc Replacement at Seven Years. Pierce D. Nunley, MD. Et al. (BEST Paper Award)
 NASS 2017, Orlando, FL 25-28 October 2017

Patients Over Age 65 with Postoperative Malalignment Are Not as Disabled as Younger Patients
Kai Fu; Pierce D. Nunley, MD. Et al ISSG. Poster.
 NASS 2017, Orlando, FL 25-28 October 2017

Adult Spinal Deformity (ASD) Interbody Fusion and Graft Choice: Polyetheretherketone (PEEK) and Titanium (TI)
Yashar Javidan, MD; Pierce D. Nunley, MD . . . ISSG. Poster.
 NASS 2017, Orlando, FL 25-28 October 2017

Four-year Results of a Randomized Controlled Trial for Treatment of Moderate Lumbar Spinal Stenosis with Interspinous Spacer. Pierce D. Nunley, MD, et al. Poster.
 NASS 2017, Orlando, FL 25-28 October 2017

MIS Spinal Surgery – An Updated Global Perspective: MIS Approach Selection: When to Use TLIF? Nunley, PD
 Scoliosis Research Society 52nd Annual Meeting, Philadelphia, PA 6-9 September 2017

Panel Discussion: Spine Procedures in ASCs, Pierce D Nunley, panelist
 Becker's 15th Annual Spine, Orthopedic and Pain Management-Driven ASC Conference + The Future of Spine
 Chicago, IL 22-24, June 2017

Symposium 1: Pain management - Why do we do injections at all - The evidence is really weak – Pierce D Nunley, MD – Moderator
 ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

Radiographic adjacent segment pathology following treatment with CDA or ACDF at one or two levels: a prospective, randomized, controlled FDA clinical trial at seven years. Pierce D Nunley, MD, et al.
 ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

Prevalence, Progression, and Clinical Implications of Heterotopic Ossification after Cervical Disc Arthroplasty at 7 Years. Pierce D Nunley, MD, et al.
 ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

National Presentations (Continued):

Medicare DRG Reimbursement Differences for MIS Deformity Surgery in Academic vs Private Hospitals in Different Geographic Regions. Pierce D Nunley, MD

ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

Treatment of Moderate Lumbar Spinal Stenosis with InterSpinous Spacer: 4-year Results of a Randomized Controlled Trial. Pierce D Nunley, MD, et al

ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

Seven-year Clinical Results of Cervical Total Disc Replacement Compared with Anterior Discectomy and Fusion for Treatment of Two-level Symptomatic Degenerative Disc Disease: A Prospective, Randomized, Controlled, Multicenter FDA Clinical Trial: K. Radcliff, P. Nunley

ISASS – International Society for the Advancement of Spine Surgery, Boca Raton, FL 12-15 April 2017

How Does Case Type, Length of Stay, and Comorbidities Affect Medicare DRG Reimbursement for Minimally Invasive Surgery (MIS) for Deformity? Pierce D Nunley, MD, et al, ISSG

Lumbar Spine Research Society - 10th Annual Meeting, Chicago, IL 6-7 April 2017

Treatment of the Fractional Curve with Circumferential Minimally Invasive Surgery (cMIS) Interbody versus Open Surgery: An Analysis of Surgical Outcomes. Pierce D Nunley, MD, Dean Chou, MD, et al, ISSG

Lumbar Spine Research Society - 10th Annual Meeting, Chicago, IL 6-7 April 2017

Mobi-C®: Cervical Disc Arthroplasty Taken To Another Level. Pierce Nunley MD

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Treatment of the Fractional Curve with Circumferential Minimally Invasive (cMIS) Interbody Versus Oery Without Interbody Fusion: An Analysis of Surgical Outcomes. Dean Chou, Pierce D. Nunley, et al, ISSG.

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Impact of Multi-level Interbody Fusion in the Treatment of Severe Adult Scoliosis (Thoracolumbar Coronal Cobb Angle >50 Degrees). Michael Y. Wang, Pierce D. Nunley, et al, ISSG

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Patients with High Pelvic Tilt Achieve the Same Clinical Success as Those with Low Pelvic Tilt After Minimally Invasive Deformity Surgery. Gregory M. Mundis, Jr., Pierce D. Nunley, et al, ISSG

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Current MIS Techniques Fail to Optimize Spinopelvic Parameters in Patients with High Pelvic Incidence.

Gregory M. Mundis, Jr., Pierce D. Nunley, et al, ISSG

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Early and Late Reoperation Rates and Etiologies are Similar Between cMIS and HYB Techniques for ASD Correction

Robert Eastlack, Pierce D. Nunley, et al, ISSG.

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

How Does Case Type, Length of Stay, and Comorbidities Affect Medicare DRG Reimbursement for Minimally Invasive Surgery (MIS) for Deformity? Pierce D. Nunley, et al, ISSG

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

What is the Effect of Open Versus Percutaneous Screws on Complications Among Patients Undergoing Lateral Interbody Fusion for Adult Spinal Deformity? Khoi Duc Than, Pierce D. Nunley, et al, ISSG

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

National Presentations (Continued):

Thoracolumbar Spinal Deformity Case Discussion: Open Versus MIS – Pierce D Nunley & Kai-Ming G. Fu
Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Spinal Deformity Surgical Planning Practical Course: MIS Surgical Techniques for Correcting Deformity: Lateral and Anterior Psoas Nuances. Pierce D. Nunley

Spine Summit 2017, 33rd Annual Joint Section AANS/CNS, Las Vegas, NV 8-11 March 2017

Debate: Sagittal Alignment and Correction; Has the Pendulum Swung Too Far?

Selby Spine Conference 2017, Park City, UT. 2-4 February 2017

Degenerative Spondylolisthesis Debate: Position: Interlaminar / Interspinous Implants are the Way to Go.

Selby Spine Conference 2017, Park City, UT. 2-4 February 2017

Neuromonitoring in Spine Surgery; An Evidence-Based Update. Pierce D Nunley, MD

Selby Spine Conference 2017, Park City, UT. 2-4 February 2017

Stem Cell Biologics– Clinical Data, Are we in the Wild Wild West? Pierce Nunley, MD

Selby Spine Conference 2017, Park City, UT. 2-4 February 2017

How Does Case Type, Length of Stay, and Comorbidities Affect Medicare DRG Reimbursement for

Minimally Invasive Surgery (MIS) for Deformity? Pierce D. Nunley, MD . . . ISSG,

NASS 2016, Boston, MA 26-29 October 2016

What is the Effect of Open versus Percutaneous Screws on Complications Among Patients Undergoing Lateral Interbody Fusion for Adult Spinal Deformity? Khoi D. Than . . .Pierce D.Nunley, MD.

NASS 2016, Boston, MA 26-29 October 2016

Prevalence, Progression and Clinical Implications of Heterotopic Ossification after Cervical Disc Arthroplasty at Seven Years. Pierce D. Nunley, MD et al.

NASS 2016, Boston, MA 26-29 October 2016

Seven-Year Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or

Two Levels. Pierce D. Nunley, MD et al.

NASS 2016, Boston, MA 26-29 October 2016

Total Disc Replacement versus ACDF: Results from an FDA Clinical Trial on Single Level Treatment through 84 Months

Michael S. Hisey, Pierce D. Nunley, MD.

NASS 2016, Boston, MA 26-29 October 2016

Subsequent Surgery Rates after Treatment with TDR or ACDF at One or Two Levels: Results from an FDA

Clinical Trial at 7 Years. Robert J. Jackson, MD; , FACS . . . Pierce D. Nunley, MD.

NASS 2016, Boston, MA 26-29 October 2016

Seven-Year Clinical Results of Cervical Total Disc Replacement Compared with Anterior Discectomy and Fusion for Treatment of Two-Level Symptomatic Degenerative Disc Disease: A Prospective, Randomized, Controlled, Multicenter

FDA Clinical Trial. Kris E. Radcliff,... Pierce D. Nunley, MD,

NASS 2016, Boston, MA 26-29 October 2016

Comparing One-Level versus Two-Level Cervical TDR and One-Level versus Two-Level ACDF at Seven-Years Follow-

Up. Hyun W. Bae, MD; ...Pierce D. Nunley, MD,

NASS 2016, Boston, MA 26-29 October 2016.

National Presentations (Continued):

How Does Case Type, Length of Stay, and Comorbidities Affect Medicare DRG Reimbursement for Minimally Invasive Surgery (MIS) for Deformity? Pierce D Nunley, MD, et al, ISSG
Society for Minimally Invasive Surgery (SMISS), Las Vegas, NV 14-15 October 2016

Cervical Disc Arthroplasty Symposium – Cervical TDR Technique – Tips and Pearls
North American Spine Society (NASS) - Summer Meeting 2016, Miami, FL 20-23 July 2016

How Does Case Type, Length of Stay, and Comorbidities Affect Medicare DRG Reimbursement for Minimally Invasive Surgery (MIS) for Deformity? Pierce D. Nunley, MD, et al ISSG
IMAST 2016, Washington DC, 13-16 July 2016

One-Level vs Two-Level Cervical Total Disc Replacement (TDR) vs Anterior Cervical Discectomy and Fusion (ACDF) at 7-year Follow-up. Hyun W Bae, MD; Pierce D. Nunley, MD, et al.
IMAST 2016, Washington DC, 13-16 July 2016

Early and Late Reoperation Rates and Etiologies Are Similar Between cMIS and HYB Techniques for ASD Correction. Robert K. Eastlack, MD, Pierce D. Nunley, MD et al ISSG
IMAST 2016, Washington DC, 13-16 July 2016

Treating Degenerative Scoliosis with a Far Lateral Approach, Pierce D Nunley, MD
K2M Meeting of Minds™ Advanced Spinal Deformity Symposium, Chicago, IL, 22-23 April, 2016

Symposium: New Technologies - Hype or Incremental Value? Debate – Position: Endoscopic Surgery - Hype
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

The Impact of Minimally Invasive Spinal Deformity Surgery on ICU and Hospital Stay. Wang M, Nunley PD, ISSG
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

SF-12 PCS and VAS Neck as Preoperative Predictors of Patient Success at 60 Months Following Single Level Cervical Surgery with TDR or ACDF, Nunley PD, et al.
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

Comparison of Complications, Clinical and Radiographic Outcomes between Non-obese and Obese Patients with Adult Spinal Deformity Undergoing Minimally Invasive Surgery. Park P, Nunley PD, et al, ISSG
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

A Critical Analysis of Sagittal Plane Deformity Correction with Minimally Invasive Adult Spinal Deformity Surgery: A 2-year Follow up Study. Nunley, PD, et al, ISSG.
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

Spine Surgeons' Perceptions of the Incidence and Impact of Third Party Payers' Delay or Denial of Coverage in the Pre-Authorization of Surgical Procedures and Subsequent Payment. Nunley, PD, et al.
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

Clinical and Radiographic Parameters Associated with Best vs. Worst Clinical Outcomes in Minimally Invasive Deformity Surgery. Nunley, PD, et al ISSG
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

Factors Predictive of Return to Work Time after Cervical Disc Arthroplasty and ACDF: A Multivariable Analysis. Nunley, PD, et al. (Poster)
International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

National Presentations (Continued):

Does MIS Surgery Allow for Shorter Constructs in the Surgical Treatment of ASD? Uribe J, Nunley PD, ISSG (Poster) International Society for the Advancement of Spine Surgery (ISASS 2016), Las Vegas, NV 6-9 April 2016

The Myths of ASD as it Relates to Cervical TDR – EBM Does Not Favor TDR over ACDF – Debate Federation of Spine Associations (FOSA 2016), Orlando, FL, 5 March 2016

Cervical Debate: Sagittal balance is not important in MOST cervical surgery Selby Spine Conference 2016, Park City, UT. 14-16 January 2016

MIS Debate: MIS is a Passing Fad and Its Limitations Will Kill It Selby Spine Conference 2016, Park City, UT. 14-16 January 2016

BEST/WORST Papers: Reoperation Rates after Anterior Cervical Surgery Selby Spine Conference 2016, Park City, UT. 14-16 January 2016

Cost Utility Analysis of the Cervical Artificial Disc vs. Fusion for the Treatment of Two-Level Symptomatic Degenerative Disc Disease: Five Year Follow-Up. Jared D. Ament, MD, MPH . . . Pierce D. Nunley, MD; Cervical Spine Research Society 43rd Annual Meeting, San Diego, CA 3 December 2015

DEBATE: 2-Level Cervical Herniated Nucleus Pulposus – ACDF vs. TDR with Jean Jacques Abitbol
Position: TDR is the procedure of choice
North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

Heterotopic Ossification and Endplate Coverage in One-Level CDA Patients. Pierce D. Nunley, MD et al. North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

Clinical and Radiographic Parameters Associated with Best versus Worst Clinical Outcomes in Minimally Invasive Deformity Surgery. International Spine Study . . . Pierce D. Nunley, MD. Poster. North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

A Critical Analysis of Sagittal Plane Deformity Correction with Minimally Invasive Adult Spinal Deformity Surgery: A Two-Year Follow-Up Study. Gregory M. Mundis. . . Pierce D. Nunley, MD, Poster North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

The Impact of Minimally Invasive Spinal Deformity Surgery on ICU and Hospital Stay. Dean Chou, MD . . . Pierce D. Nunley, MD North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

Clinical and Radiographic Parameters Associated with Best versus Worst Clinical Outcomes in Minimally Invasive Deformity Surgery. International Spine Study Group, Khoi D. Than . . . Pierce D. Nunley, MD North American Spine Society, 30th Annual Meeting. Chicago, IL 15 October 2015

Does MIS Surgery Allow for Shorter Constructs in the Surgical Treatment of ASD? Juan S. Uribe . . . Pierce D. Nunley. SRS 50th ANNUAL MEETING & COURSE. E-Poster Minneapolis, MN, 30 September – 3 October 2015

Overall Success Maintenance in Cervical Disc Arthroplasty and ACDF Patients at One and Two Levels: Results from an FDA IDE Clinical Trial at Two and Five Years. R.J. Davis . . . P.D. Nunley International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 17 April 2015

Endplate Coverage and Heterotopic Ossification in Two-level CDA Patients from an FDA IDE Randomized, Prospective, Clinical Trial. P.D. Nunley, D.A. Cavanaugh, E.J. Kerr III, A. Utter, M. Stone International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 17 April 2015

National Presentations (Continued):

One-level Treatment with Total Disc Replacement and ACDF: Results from an FDA IDE Clinical Trial through 60 Months. M.S. Hisey . . . P.D. Nunley
International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 16 April 2015

Heterotopic Ossification and Endplate Sizing in One-level CDA Patients: Patient Outcomes from a Randomized, Prospective, Clinical Trial. P.D. Nunley, D.A. Cavanaugh, E.J. Kerr III, A. Utter, M. Stone
International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 16 April 2015

Debate: Cervical TDR: Do they decrease adjacent level disease? Debate point/counterpoint with Dom Coric, M.D.
International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 16 April 2015

Moderator: General Session: Tumor, Trauma, and Infection
International Society for the Advancement of Spine Surgery (ISASS) 15th annual Meeting, San Diego, CA 16 April 2015

Maintenance of Overall Success in Patients treated with Cervical Disc Arthroplasty and ACDF at One or Two Levels: Five-Year Results from an Investigational Device Exemption Trial. Reginald J. Davis, MD . . . Pierce D. Nunley, MD
Cervical Spine Research Society 42nd Annual Meeting, Orlando, FL 3-6 December 2014

Two-Level Treatment With Total Disc Replacement Versus ACDF: Results from a Prospective Randomized Clinical Trial With Five- Years Follow-Up. Reginald J. Davis, MD, FACS . . . Pierce D. Nunley, MD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

Cervical Total Disc Replacement and Anterior Cervical Discectomy and Fusion: A Comparison of One- and Two-Level Treatment. Hyun W. Bae, MD . . . Pierce D. Nunley, MD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

Sagittal Alignment of One-Level TDR and ACDF Patients: An Analysis of Patient Outcomes from a Randomized, Prospective, Clinical Trial. Michael S. Hisey, MD . . . Pierce D. Nunley, MD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

One-Level Treatment With Total Disc Replacement and ACDF: Five-Year Results from a Prospective Randomized Clinical Trial. Michael S. Hisey, MD . . . Pierce D. Nunley, MD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

Subsequent Surgery Rates After Treatment With TDR or ACDF at One or Two Levels: Results from an IDE Clinical Trial With Five-Years Follow-Up. Robert J. Jackson, MD, FACS . . . Pierce D. Nunley, MD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

Radiographic Adjacent Segment Pathology After Treatment With TDR or ACDF at One or Two Levels at Five Years. Pierce D. Nunley, MD; David A. Cavanaugh, MD; Eubulus J. Kerr III, MD; Andrew Utter, MD; Marcus Stone, PhD
North American Spine Society 29th Annual Meeting, San Francisco, CA 12-15 November 2014

Sagittal Alignment of One-level TDR and ACDF Patients: An Analysis of Patient Outcomes from a Randomized, Prospective, Clinical Trial, Hisey, MS . . . Nunley PD.
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

Sagittal Alignment of Two-level TDR Patients: An Analysis of Patient Outcomes from an FDA IDE Randomized, Prospective, Clinical Trial. Davis RJ . . . Nunley PD
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

Cervical Total Disc Replacement versus ACDF: Results from a FDA IDE Clinical Trial through 48 Months. Hisey MS . . . Nunley PD
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

National Presentations (Continued):

Two-level Cervical Total Disc Replacement versus ACDF: Results of a Prospective, Randomized, Clinical Trial with 48 Months Follow-up. Davis RJ . . . Nunley PD
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

One-level versus Two-level Cervical Disc Arthroplasty: Comparative Results from a FDA IDE Clinical Trial with Four-year Follow-up. Bae HW . . . Nunley PD
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

Kineflex|C Cervical Arthroplasty: Long-term Clinical and Radiographic Outcomes from a Prospective, Randomized IDE Study. Coric D . . . Nunley PD
International Society for the Advancement of Spine Surgery (ISASS) 14th annual Meeting, Miami, FL 1-3 May 2014,

International Society for the Advancement of Spine Surgery
Advanced MIS Course and Cadaver Lab – Faculty
Las Vegas, NV 17-18 January 2014

Cervical Disc Arthroplasty and ACDF at Two Levels: Four-Year Results from an IDE Trial (poster)
Cervical Spine Research Society, 18th Annual Scientific Meeting, Los Angeles, CA, 4 Dec 2013

Cervical TDR Results in Lower Incidence of Radiographic Degeneration than ACDF at Two Levels (poster)
Cervical Spine Research Society, 18th Annual Scientific Meeting, Los Angeles, CA, 4 Dec 2013

Anterior Cervical Disc Replacement – Instructional Course Lecture
Cervical Spine Research Society, 18th Annual Instructional Course, Los Angeles, CA, 4 Dec 2013

Comparison of Outcomes Up to 48 Months After One- or Two-Level Total Disc Replacement: Results from an Investigational Device Exemption Trial. Bae HW . . . Nunley PD.
North American Spine Society 28th Annual Meeting, New Orleans, LA 9-12 October 2013

Risk Factors and Clinical Outcomes of Patients with Adjacent Segment Degeneration After CDA or ACDF at Two Levels. Davis RJ . . . Nunley PD
North American Spine Society 28th Annual Meeting, New Orleans, LA 9-12 October 2013

Cervical Disc Arthroplasty Results in Fewer Secondary Surgeries Through 48 Months Compared to ACDF: Results for a Prospective Randomized IDE Study for Two-Level Use. Reginald J. Davis, MD . . . Pierce D. Nunley, MD
North American Spine Society 28th Annual Meeting, New Orleans, LA 9-12 October 2013

Debate: Surgical Treatment for Degenerative Spondylolisthesis - Position #3: A/P Fusion for Degenerative Spondylolisthesis Restores Sagittal Balance Best and in the Long-run is the Best Procedure for Most Patients with this Pathology
9th Annual Evidence & Technology Spine Summit, Park City, UT 28 February – 2 March 2013

Debate: MIS vs. OPEN Techniques for the Treatment of Spinal Stenosis. Position: MIS Techniques are best for surgical treatment of Spinal Stenosis
9th Annual Evidence & Technology Spine Summit, Park City, UT 28 February – 2 March 2013

Nucleus Replacement: Current Status and Evidence - Is this technology Dead?
9th Annual Evidence & Technology Spine Summit, Park City, UT 28 February – 2 March 2013

National Presentations (Continued):

Allogenic Stem Cells in Spinal Fusion Surgery
Selby Spine Annual Meeting, Park City, UT 30 January - 2 February 2013

Latest Data in Cervical Spine TDR
Selby Spine Annual Meeting, Park City, UT 30 January - 2 February 2013

Debate: Neuro-Monitoring for Minimally Invasive Surgery - For and Against
Selby Spine Annual Meeting, Park City, UT 30 January - 2 February 2013

Lessons Learned: "Maturing Technologies" Case Controversies and Open Discussion
Selby Spine Annual Meeting, Park City, UT 30 January - 2 February 2013

Reduction in the Incidence of Radiographically Identified Degeneration Adjacent Segments: Results from a Multi-center, Prospective, Randomized, Controlled Trial Comparing Total Disc Replacement with Anterior Discectomy and Fusion for Treatment of Cervical Degenerative Disc Disease at Two Levels. Davis RJ . . . Nunley PD
Cervical Spine Research Society, 17th Annual Scientific Meeting, Chicago, IL 5 December 2012

5-Year Outcomes of Primary Success and Adjacent Segment Disease after TDR and ACDF: Analysis of Randomized Controlled Trials at Multiple Centers
Cervical Spine Research Society, 17th Annual Scientific Meeting, Chicago, IL 5 December 2012

Determination of the True 5-year Incidence of Adjacent Segment Disease after Total Disc Arthroplasty for Cervical Myelo-radiculopathy at One and Two Levels – Grant Update
Cervical Spine Research Society, 17th Annual Scientific Meeting, Chicago, IL 5 December 2012

Postoperative Dysphagia and Dysphonia – Instructional Course Lecture
Cervical Spine Research Society, 17th Annual Instructional Course, Chicago, IL 5 December 2012

Spine Surgery: Private practice perspective. Young Spine Surgeons Forum
North American Spine Society 27th Annual Meeting Symposium 24-27 October 2012, Dallas, TX

Investigational Device Exemption Trial of Cervical Arthroplasty for Treatment of Degenerative Disc Disease at Two Levels: 24-Month Results of 330 Subjects. Reginald J. Davis, MD . . . Pierce D. Nunley, MD
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

Comparison of Outcomes After Treatment of Cervical Degenerative Disc Disease at One or Two Levels with Total Disc Replacement. Reginald J. Davis, MD . . . Pierce D. Nunley, MD
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

Adjacent segment disease after cervical total disc replacement: clinical and radiological evidence after 4-7 years follow-up. Pierce D. Nunley, MD et al.
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

Winner - Outstanding Paper: Surgical Science

Symptomatic Adjacent Segment Disease Following Cervical Total Disc Replacement: Reexamining the Clinical and Radiological Evidence with Established Criteria. Pierce D. Nunley, MD et al.
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

Number of levels involved at index surgery significantly affects the outcomes after anterior cervical discectomy and fusion: Analysis of data from a multicenter prospective randomized controlled trial. Pierce D. Nunley, MD et al.
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

National Presentations (Continued):

Comparison of Complication Rates Associated with Two-Level Cervical Arthroplasty Versus Two-Level Anterior Cervical Discectomy and Fusion. Reginald J. Davis, MD . . . Pierce D. Nunley, MD (Poster)
North American Spine Society Annual Meeting 24-27 October 2012, Dallas, TX

Society for Minimally Invasive Spine Surgery – (SMISS) Cadaver Course Lab Instructor
Las Vegas, NV 2 June 2012

Debate: L1 Burst Fracture with Incomplete Neurologic Injury – Position: MIS is the Treatment of Choice
8th Annual Evidence and Technology Spine Summit
Park City, UT 22-25 February, 2012

Laminectomy vs. MIS Decompression: Evidence Supporting MIS Techniques
8th Annual Evidence and Technology Spine Summit
Park City, UT 22-25 February, 2012

Debate: MIS Techniques in Thoracolumbar Deformity Patients – Position: MIS Technique is Superior
8th Annual Evidence and Technology Spine Summit
Park City, UT 22-25 February, 2012

Complex Spine S2AI Technique of Pelvic Fixation
Selby Spine Annual Meeting, Park City, UT 1-4 February 2012

Review of the Best Mobile & IPAD Applications for Medical Professionals
Selby Spine Annual Meeting, Park City, UT 1-4 February 2012

A prospective randomized controlled trial to assess the efficacy of the Mobi-C® artificial cervical disc in the management of intractable cervical myelo-radiculopathy at one or two contiguous level., Nunley, PD, Davis R et al.
North American Spine Society 26th Annual Meeting, Chicago, IL, 2-5 November 2011.

Multicenter, Prospective, Randomized, Controlled Investigational Device Exemption Study Comparing Mobi-C® Cervical Artificial Disc to Anterior Fusion in the Treatment of Symptomatic Cervical Degenerative Disc Disease. Donna Ohnmeiss, PhD . . . Pierce Nunley, MD
North American Spine Society 26th Annual Meeting, Chicago, IL, 2-5 November 2011.

Does Total Disc Replacement Reduce the Incidence of Adjacent Segment Degeneration: Results of a Multicenter, Prospective, Randomized, Controlled Trial Comparing Mobi-C® Cervical Artificial Disc to Anterior Cervical Fusion. Donna Ohnmeiss, PhD . . .Pierce Nunley, MD
North American Spine Society 26th Annual Meeting, Chicago, IL, 2-5 November 2011.

Society for Minimally Invasive Spine Surgery – (SMISS) Cadaver Course Lab Instructor
Las Vegas, NV 22 October 2011

Total Disc Replacement Results in Better Long Term Clinical Outcomes for Middle-Aged Patients with Two-Level Cervical Disc Disease. Cavanaugh DA, . . . Nunley, PD . Podium, Annual Meeting of Congress of Neurological Surgeons, Washington DC, October 2-6, 2011.

Complex Spine Course - Faculty
Chicago, IL August 26-27 2011

National Presentations (Continued):

Consideration of Patient-Related Demographic Factors in Choosing the Anterior Procedure (ACDF or TDR) for the Surgical Management of Cervical Disc Disease. Ajay Jawahar, MD, ; Pierce D Nunley, MD; Domagoj Coric MD; Charles Gordon, MD; Eubulus J Kerr, MD; David A Cavanaugh, MD and Philip Andrew Utter, MD: 12th annual conference of the American College of Spine Surgeons, Las Vegas, June 2011

Computerized tomographic assessment of arthrodesis following anterior lumbar interbody fusion using osteoinductive stem-cells allografts. Ajay Jawahar, MD, MS*; Eubulus J Kerr, MD; Pierce D Nunley, MD; David A Cavanaugh, MD and Philip Andrew Utter, MD: 12th annual conference of the American College of Spine Surgeons, Las Vegas, NV June 2011

Factors Affecting the Choice of Anterior Procedure (TDR versus ACDF) for Cervical Radiculopathy: Analysis of 3-7 Years Follow-up from 4 Randomized Controlled Trials. Nunley PD, Coric D, et al. 2011 Annual Meeting of Spine Arthroplasty Society, Las Vegas NV 27-29 April 2011

Multi-center, prospective, randomized, controlled Investigational Device Exemption study comparing 2-Level Mobi-C® Cervical Artificial Disc to anterior discectomy and fusion in the treatment of symptomatic degenerative disc disease in the cervical spine. R. Davis . . . P. Nunley
2011 Annual Meeting of Spine Arthroplasty Society, Las Vegas NV 27-29 April 2011

Analysis of Adjacent Segment Degeneration: Results of a Prospective, Randomized Study Comparing Cervical Total Disc Replacement vs. Anterior Cervical Fusion. D. Coric, . . . P.D. Nunley
2011 Annual Meeting of Spine Arthroplasty Society, Las Vegas NV 27-29 April 2011

Multi-center, prospective, randomized, controlled Investigational Device Exemption study comparing Mobi-C® Cervical Artificial Disc to anterior discectomy and fusion in the treatment of symptomatic degenerative disc disease in the cervical spine. M. Hisey. . . P. Nunley
2011 Annual Meeting of Spine Arthroplasty Society, Las Vegas NV 27-29 April 2011

Society for Minimally Invasive Spine Surgery – (SMISS) Cadaver Course Lab Instructor
Chicago, IL 14 May 2011

Decision Making in Cervical Myelopathy: Laminectomy and Fusion: Why It's Better. 2011 Resources for Medical Education and Collaboration Annual Spine Summit, Park City, UT. 3-5 February 2011

Operative Treatment of Cervical Radiculopathy: Anterior Cervical Discectomy and Fusion. 2011 Resources for Medical Education and Collaboration Annual Spine Summit, Park City, UT. 3-5 February 2011

Total Disc Arthroplasty Does Not Affect the incidence of Adjacent Segment Degeneration in Cervical Spine: Results of 93 Patients in Three Prospective Randomized Clinical Trials:
Selby Spine Annual Meeting, Park City, UT. 3-5 February 2011.

Possible Factors Influencing the Choice of Procedure (TDA versus ACDF) for One and Two-Level Degenerative Disc Disease in Cervical Spine: Multi-institutional Outcome Analysis from Participants in Prospective Randomized Clinical Trials
Research Awards Paper – 2nd Place
Cervical Spine Research Society
Charlotte, NC. 3 December 2010

National Presentations (Continued):

Incidence of Adjacent Level Disease Is Equivalent in Cervical Spine after ACDF and Total Disc Arthroplasty: Multi-Institutional Experience from Three Prospective Randomized Trials. Neurosurgical Forum Paper. Cavanaugh ..Nunley PD

Congress of Neurosurgeons, 2010 Annual Meeting
San Francisco, CA 18 October 2010

Long-Term Results for Improvement of Function after Vertebroplasty in Patients with Osteoporotic Compression Fractures: Does Implant Material Make a Difference? (POSTER)

Congress of Neurosurgeons, 2010 Annual Meeting
San Francisco, CA 16-21 October 2010

Total disc arthroplasty does not affect the incidence of adjacent segment degeneration in cervical spine: Results of 93 patients in three prospective randomized clinical trials

AWARD – Outstanding Paper – Surgical Science

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Comparison of Radiographic Findings of Total Disc Replacement vs. Anterior Cervical Fusion: 24-Month Follow-up from a Prospective, Randomized, Controlled, Multi-Center Trial with 269 Patients. David B. Musante, MD . . . Pierce D. Nunley, MD

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Prospective, Randomized, Multi-Center Trial Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion in 269 Patients: 24-Month Follow-up. Richard D. Guyer, MD . . . Pierce D. Nunley MD

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Correlation of Early Pain and Long-Term Functional Results from a Multi-Center, Prospective, Randomized, Controlled FDA-IDE Vertebroplasty Trial. Hyun W. Bae, MD . . . Pierce D Nunley, MD

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Direct comparison of two lumbar total disc replacement devices: Results from a prospective randomized multi-center FDA regulated trial.

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Radiographic comparison of two lumbar total disc replacement devices: Results from a prospective randomized multi-center FDA regulated trial.

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Prospective randomized multi-center trial comparing cervical total disc replacement to anterior cervical fusion in 269 patients: 24-month follow-up.

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

Correlation of early pain and long-term results from a multi-center prospective randomized controlled FDA-IDE vertebroplasty trial.

North American Spine Society, 25th Annual Meeting, Orlando, FL 5-9 October 2010

DEBATE: What is the Best Treatment Option for Lumbar and Thoracolumbar Curves: Open Anterior/Posterior vs. Open Posterior Only vs. MIS

Moderator: Khaled Kebaish, MD, Open Anterior/Posterior: John Kostuik, MD, Open Posterior Only: David Polly, MD

MIS: Pierce Nunley, MD

Complex Spine Study Group

Washington, DC. August 6th, 2010

National Presentations (Continued):

K2M Minimally Invasive Surgeon Training Course - Course Director
Washington DC, June 11-12, 2010

K2M Minimally Invasive Surgeon Training Course - Course Director
Chicago, IL May 14-15, 2010

Vertebroplasty and Kyphoplasty: Indications, Controversies and Credentialing (Invited Symposium Faculty)
American Association of Neurological Surgeons 2010 Annual Meeting
Philadelphia, PA May 3, 2010

Correlation of Fill Volume to Subsequent Fracture Rates After Vertebroplasty For Compression Fractures: A Prospective
Randomized Trial (Poster)
American Association of Neurological Surgeons 2010 Annual Meeting
Philadelphia, PA May 1-5, 2010

Prospective Multi-Center Study of Optimesh Conformable Device Used for Intervertebral Body Fusion (Poster)
Authors: Perez-Cruet, . . . Nunley PD, et al
American Association of Neurological Surgeons 2010 Annual Meeting
Philadelphia, PA May 1-5, 2010

Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized,
Multicenter FDA-regulated Trial Authors: Cappuccino A, Guyer RD, . . Nunley PD, et al.
Spine Arthroplasty Society 10th Annual Meeting
New Orleans, LA April 27th, 2010

Prospective, Randomized Study Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion: Results from
an FDA-regulated IDE Trial Authors: Guyer RD, Laurysen C, . . . Nunley PD, et al
Spine Arthroplasty Society 10th Annual Meeting
New Orleans, LA April 30th, 2010

Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized,
Controlled Multicenter FDA-regulated Trial (Poster)
Spine Arthroplasty Society 10th Annual Meeting
New Orleans, LA April 27-30, 2010

Two Year Interim Clinical Results of Nucleus Replacement Using the DASCOR Disc Arthroplasty System: Results
from Prospective Multicenter US Studies. (Poster)
Spine Arthroplasty Society 10th Annual Meeting
New Orleans, LA April 27-30, 2010

K2M Minimally Invasive Surgeon Training Course - Course Director
Dallas, TX April 23-24, 2010

K2M Minimally Invasive Surgeon Training Course - Course Director
Los Angeles, CA March 26-27, 2010

K2M Minimally Invasive Surgeon Training Course - Course Director
Tampa, FL February 19-20, 2010

Cortoss Bone Augmentation Material - IDE Study Results and NEJM Article Review
Selby Spine Conference 2010
Park City, UT. February 6th, 2010

National Presentations (Continued):

Complications in the First Hours After Surgery: What is Safe in the Ambulatory Arena?
Emerging Technologies Spine Education Summit
Steamboat Springs, CO. January 17th, 2010

Debate: Is it Time to Bail-Out of Medicare? Nunley PD vs. Albert TA
Emerging Technologies Spine Education Summit
Steamboat Springs, CO. January 15th, 2010

A Class I FDA-IDE Trial Comparing Long-Term Pain Results, Subsequent Fracture Rates, and Leak Patterns in patients Receiving Vertebroplasty Using Cortoss Or PMMA for Osteoporotic Compression Fractures - Poster
North American Spine Society, 24th Annual Meeting
San Francisco, CA. November 10-14, 2009

A Comparison of Clinical Outcomes and Adjacent Level Fractures in Patients Receiving Vertebroplasty for Osteoporotic Compression Fractures Using Cortoss or PMMA: Prospective, Randomized Trial

[Top 10 Papers Session]

Congress of Neurosurgeons, 2009 Annual Meeting
New Orleans, LA. October 26, 2009

MIS Pedicle Screw and TILF Lab Leader
Society for Minimally Invasive Surgery
Las Vegas, NV November 12, 2008

Case Presentations: Pearls, Tips and Tricks from the 1st year experience
Vertiflex Superior ISSS US IDE Principal Investigators Meeting
Chicago, IL September 26th, 2009

Keynote Speaker: Utilizing Minimally Invasive Techniques in Complex Spinal Reconstructions
North Carolina Spine Society Annual Meeting
Pinehurst, NC August 28, 2009

“Worst Complication” case presentations. Moderator for case presentations from the membership.
North Carolina Spine Society Annual Meeting
Pinehurst, NC August 28, 2009

MIS Pedicle Screw and MIS TLIF Laboratory Co-Leader
Complex Spine Study Group
Washington, DC. August 7th, 2009

DEBATE: MIS vs. Open Lumbar Fusion for Grade I Spondylolisthesis, L5-S1.
Position: MIS
Complex Spine Study Group
Washington, DC. August 7th, 2009

Disc arthroplasty does NOT reduce adjacent level disc pressures in the lumbar spine: A Biomechanical Study
American Academy of Orthopaedic Surgeons 2009 Annual Meeting
Las Vegas, NV February 25th, 2009

Minimally Invasive Surgery Techniques in Complex Spine Surgery - Case Presentation
Complex Spine Study Group
Phoenix, AZ. February 20th, 2009

National Presentations (Continued):

Complications and Management of Lumbar Total Disc Arthroplasty
Emerging Technologies Spine Education Summit
Steamboat Springs, CO. February 7th, 2009

Parkinson's - A Comorbidity in Spine Surgery
Selby Spine Conference 2009
Park City, UT. January 30th, 2009

Minimally Invasive Surgery Applications in Complex Spinal Reconstructive Surgery
Cleveland Clinic Grand Rounds Visiting Professor
Cleveland, OH November 21st, 2008

MIS TLIF and Pedicle Screw Course Instructor
Society for Minimally Invasive Surgery
Las Vegas, NV November 15th, 2008

Does Cervical Arthroplasty Speed Up Recovery compared to ACDF. Results of a Randomized IDE Trial.
Congress of Neurosurgeons (CNS) ? Annual Meeting
Orlando, FL September 22nd, 2008

Debate: Lumbar TDR's are the surgical treatment of choice for young adults with painful intervertebral disc disease at L5-S1 – Position: AGAINST

Point-Counter-Point Surgeon Panel Debates
Key West, FL May 29-June 1, 2008

Debate: Physician relationships and investments within the industry – ethical and/or legal problem or not? Position: FOR
Point-Counter-Point Surgeon Panel Debates
Key West, FL May 29-June 1, 2008

In vitro Biomechanical Analysis of the Spine Using Pedicle Screws and Rods:Ti-6Al-4V vs. NiTi (Nitinol) (POSTER)
Spine Arthroplasty Society 8th Annual Meeting
Miami, FL May 6-9, 2008.

Prospective Randomized Clinical Trial to Compare the Clinical Outcomes of Total Disc Arthroplasty with ACDF in One-level Degenerative Disc Disease of Cervical Spine: Preliminary Results (POSTER)
Spine Arthroplasty Society 8th Annual Meeting
Miami, FL May 6-9, 2008.

Motion or Fusion? --- Fusion? Biomechanics and clinical data of promising next generation 'stand-alone' anterior implants
Spine Arthroplasty Society 8th Annual Meeting, PODIUM
Miami, FL May 8th, 2008.

The X-STOP® IPD Critical Review of system and current clinical data
SISS Investigator Meeting and Superior Certification Training
San Clemente, CA May 3, 2008

“Legislative Symposium: Gain Sharing and Physician Investment in Ancillary Services”
Emerging Technologies Spine Education Summit, 4th Annual Meeting
Jackson Hole, WY. February 7, 2008

National Presentations (Continued):

“OptiMesh and Allograft for Fusion – Early Results of the US IDE Multi-Center Study”
Emerging Technologies Spine Education Summit, 4th Annual Meeting
Jackson Hole, WY. February 8, 2008

“P4P and PQRI – Outcomes are the future. An introduction to a powerful Web-Based Outcome Tool to be competitive in outcomes data collection”
Selby Spine 2008
Park City, UT February 2, 2008

“Cortoss Vertebroplasty – Results and Case Presentations of the US IDE Study”
Selby Spine 2008
Park City, UT February 1, 2008

“Posterior Cervical Foraminotomy- MIS (Minimally Invasive Surgery) is better”
NASS Annual Meeting Symposium: **Minimally Invasive Surgery: Is it worth the Switch?**
North American Spine Society, 22nd Annual Meeting. Austin, TX October 27, 2007

“ Fusion versus Hybrid after 2-level lumbar discectomy: Does the construct actually affect pressure at adjacent levels? A biomechanical study” (POSTER)
North American Spine Society, 22nd Annual Meeting. Austin, TX October 23-27, 2007

“ Should number of levels determine the choice of plate-design in ACDF? Results of a prospective randomized single-blind trial “ (Podium)
North American Spine Society, 22nd Annual Meeting. Austin, TX October 25, 2007

“Dynamic vs. Static Plates for Single vs. Multi-Level ACDF: Results of a Prospective Randomized Single-Blind Trial”
14th Advanced Techniques in Cervical Spine Decompression and Stabilization Course
St. Louis University/Washington University, St. Louis, MO, August 3, 2007

“AxiaLIF: Biomechanics and Cumulative Multi-Center Outcomes Data”
Emerging Technologies Spine Education Summit, 3rd Annual Meeting
Telluride, CO. February 9, 2007

“Surgeon Collaboration Tools: The Future is here”
Selby Spine 2007
Park City, UT February 3, 2007

“AxiaLIF: Innovative LEAST invasive approach to L5-S1 Lumbar Fusion”
Selby Spine 2007
Park City, UT February 2, 2007

“A Prospective Randomized Trial to Compare the long-term Clinical and radiological outcomes of ACDF surgery using Dynamic Versus Static Cervical Plates”
Cervical Spine Research Society
Palm Beach, FL November 2006

“Diagnosis and Treatment of Discogenic Pain – Non-operative and Operative”
Louisiana Association of Nurse Practitioners, 12th annual Meeting
Shreveport, LA October 7th, 2006

“XLIF (eXtreme Lateral Interbody Fusion)”
Baylor College of Medicine Grand Rounds – Invited Guest Speaker
Houston, TX September 1st, 2006

National Presentations (Continued):

“XLIF: Minimally Invasive Far-Lateral, Utilitarian Approach to the Lumbar Disc ”
Selby Spine 2005, Park City, UT, February 2006.

“The Role of Internet Collaboration in Evidence – Based Medicine”
Selby Spine 2005, Park City, UT, February 2006.

“Overview of Whiplash Injury.” Lecturer and Session Moderator
Emerging Technologies in Spine Education Summit, 2nd Annual Meeting
Telluride, CO, January 26, 2006.

“Surgical Management of Whiplash.” Lecturer and Session Moderator
Emerging Technologies in Spine Education Summit, 2nd Annual Meeting
Telluride, CO, January 26, 2006.

“Decreased Fusion Rates Following IDET Treatment”. Lecturer and Session Moderator
Emerging Technologies in Spine Education Summit, 2nd Annual Meeting
Telluride, CO, January 27, 2006.

“Current Treatments for Discogenic Pain – The Role of the Artificial Disc”
Mid South Occupational & Environmental Association Annual Meeting
Shreveport, LA November 12, 2005

“Interesting Cervical and Lumbar Cases” – Case discussion session
SeaSpine Annual Users Meeting, Dana Point, CA August 26th-28th, 2005.

“Diagnosis and Current Treatment of Discogenic Low Back Pain”
Green Clinic, Ruston, LA August 6th, 2005

“Dynamic Stabilization of the Lumbar Spine – Dynesys Update”
Selby Spine 2005, Park City, UT, February 2005.

“Cervical Plating – Dynamic vs. Static: Which is better?”
Selby Spine 2005, Park City, UT, February 2005.

“Enhancing Patient Care through Advanced Diagnostic Image Management”
WebMD National Users Conference. Orlando, FL, May 13, 2004.

“EMR - The conversion to a Paperless & Filmless office”
Selby Spine 2004, Park City, UT, January 2004.

“IDET - A worthwhile tool in the treatment of Chronic Discogenic Low Back Pain”. American Academy of Disability
Evaluating Physicians, 17th Annual Scientific Session. New Orleans, LA November 15, 2003

“Anterior Column Support in Lumbar Fusion Surgery”. Facilitating Fusion with Biologics and Spinal Hardware.
Renaissance Harborplace Hotel. Baltimore, MD. June 20th-21st, 2003.

"Innovations in Lumbar Surgery" an Instructional Course Lecture,
21st Annual Congress of the National Association of Orthopaedic Nurses
New Orleans, LA. June 2001.

“Neck Injuries, Surgery, and Return to Play in the Athlete”
Annual Meeting of the Louisiana Athletic Trainers Association
Shreveport, LA. June 2001

National Presentations (Continued):

“The Biology of Bone Healing in Spinal Fusions” &
“FRA Technique in Spinal Fusion Surgery” (2 separate lectures)
Current Concepts in Lumbar Spinal Fusions, Synthes USA
New Orleans, August 25-26, 2000

"Neck and Back Update - Current & New Treatments." Community Education Program.
Shreveport, LA. April 1999

Instructor at Synthes USA Spine Intermediate Training Class
Paoli, PA. October 1998

"Diagnosis and Treatment of Two Common Spinal Disorders: Lumbar Herniated Nucleus Pulposus and Degenerative Disc Disease with Chronic Discogenic Pain." 7th Annual Perianesthesia Conference.
Springfield, MO. September 1998

"Stabilization and Treatment of Long Bone Fractures of the Lower Extremities."
Emergency Department Monthly Guest Speaker.
Springfield, MO. August 1998

"Percutaneous Epiphysiodesis for Leg Length Inequality."
Annual LSUHSC Orthopaedic Surgery Research Conference
Shreveport, LA. June 1996

"Arthroscopic Ulnohumeral Arthroplasty of the Elbow."
Annual Meeting of the American Academy of Orthopaedic Surgeons
Atlanta, GA. February 1996

"Arthroscopic Ulnohumeral Arthroplasty for Severe Degenerative Joint Disease of the Elbow."
Annual Meeting of the Louisiana Orthopaedic Association,
New Orleans, LA. September 1995

"Arthroscopic Ulnohumeral Arthroplasty for Severe Degenerative Joint Disease of the Elbow."
Annual LSUHSC Orthopaedic Surgery Research Conference
Shreveport, LA. June 1995

"Effects of Transforming Growth Factor-Beta and Electromagnetic Fields on Early Fracture Healing in the Fischer Rat."
American Orthopaedic Association, 28th Annual Resident's Conference
Pittsburgh PA. March 1995

"Effects of Transforming Growth Factor Beta and Electromagnetic Fields on Early Fracture Healing in the Fischer Rat."
Annual Meeting of the Louisiana Orthopaedic Association,
New Orleans, LA. October 1994

"Effects of Transforming Growth Factor Beta and Electromagnetic Fields on Early Fracture Healing in the Fischer Rat."
Annual LSUHSC Orthopaedic Surgery Research Conference,
Shreveport, LA. June 1994

"Comparison of Primary Pointon Spica Casting versus Traction with Secondary Spica Casting for Treatment of Diaphyseal Femur Fractures in the Pre-Adolescent Age Group."
Annual LSUHSC Orthopaedic Surgery Research Conference
Shreveport, LA. June 1993

CONTINUING MEDICAL EDUCATION

Total Hours 2019: Hours Accredited + Hours Non-Accredited	
CSRS 24 th Instructional Course & 47 th Annual Meeting	TBD
XXVI Brussels International Spine Symposium Brussels, Belgium	TBD
North American Spine Society, 32nd Annual Meeting Los Angeles, CA 26-29 September 2018	TBD
Spine Summit 2019, Joint Section AANS/CNS Spine & Peripheral Nerve Section, Miami, FL 14-17 March 2019	13.5
Selby Spine Conference 2019 Park City, UT. 30 January – 2 February 2019	14

Total Hours 2018: 192 Hours Accredited + 0 Hours Non-Accredited	192
2018 American Society of Spine Radiology (MRI 11.5 Hours, CT 6.75 Hours)	20
CSRS 23 rd Instructional Course & 46 th Annual Meeting Scottsdale, AZ 6-8 December 2018	12
Louisiana Act 76, Controlled Substances: Prescribing, Diversion Prevention and Addiction Treatment. LAMMICO online course	3
XXV Brussels International Spine Symposium Brussels, Belgium 15-17 November 2018	12
ASSIP Training Course Memphis, TN 5-7 October 2018	18.75
North American Spine Society, 31st Annual Meeting Los Angeles, CA 26-29 September 2018	20
Adult Procedural Sedation Swedish Medical Center, Seattle WA 17 September 2018	2
Empire Pain management hands-on course Dallas, TX 08-09 September 2018	25.25
SAFE Opioid Prescribing Strategies. Assessment. Fundamentals. Education. American College of Physicians, Online, 29 May 2018	3.5
FORE, Self-Assessment Exam – Pathology B Online, May 2018	10
FORE, Self-Assessment Exam – Spine C Online, May 2018	10
FORE, Self-Assessment Exam – Spine B Online, May 2018	10
FORE, Self-Assessment Exam – Spine A Online, May 2018	10
International Society for the Advancement of Spine Surgery (ISASS) Toronto, CA 11-14 April 2018	19.0
Spine Summit 2018, Joint Section AANS/CNS, Orlando, FL 14-17 March 2018	4.0
Selby Spine Conference 2018 Park City, UT. 31 January – 3 February 2018	12.5

Total Hours 2017: 123 Hours Accredited + 4 Hours Non-Accredited	127
CSRS 45th Annual Meeting Hollywood, FL 30 November – 2 December 2017	9
XXIV Brussels International Spine Symposium Brussels, Belgium 17-18 November 2017	15
North American Spine Society, 32nd Annual Meeting Orlando, FL 25-28 October 2017	18
COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (CITI PROGRAM) Modules: Human Research (Curriculum Group) BIOMEDICAL RESEARCH (Course Learner Group) Refresher Course (Stage)	4*
Society for Minimally Invasive Surgery (SMISS) Las Vegas, NV 14-16 September 2017	9
Scoliosis Research Society (SRS) 52nd Annual Meeting & Course Philadelphia, PA 6-9 September 2017	13
Becker's 15 th Annual Spine, Orthopedic and Pain Management-Driven ASC Conference + The Future of Spine Chicago, IL 22-24, June 2017	8
ISASS – International Society for the Advancement of Spine Surgery Boca Raton, FL 12-15 April 2017	16
Lumbar Spine Research Society - 10th Annual Meeting Chicago, IL 6-7 April 2017	12
Spine Summit 2017 33rd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Las Vegas, NV 8-11 March 2017	12
Selby Spine Conference 2017 Park City, UT. 2-4 February 2017	11

Total Hours 2016: 136 Hours Accredited + 12 Hours Non-Accredited	148
CSRS 21st Instructional Course & 44th Annual Meeting Toronto, Canada 30 November – 3 December 2016	14
XXIII Brussels International Spine Symposium Brussels, Belgium 17-19 November 2016	12
North American Spine Society, 31st Annual Meeting Boston, MA 26-29 October 2016	12
Society for Minimally Invasive Surgery (SMISS) Las Vegas, NV 14-15 October 2016	8
Scoliosis Research Society (SRS) 51st Annual Meeting & Course Prague, Czech Republic 21-24 September 2016	14
North American Spine Society (NASS) - Summer Meeting 2016 Miami, FL 20-23 July 2016	9
International Meeting on Advanced Spine Techniques (IMAST) 23rd International Meeting Washington, D.C. 13-16 July 2016	14
Spine Week 2016 Singapore, Singapore 16-20 May 2016	18
Meeting of Minds – Advanced Spinal Deformity Meeting 2016 Chicago, IL 22-23 April 2016	*12
International Society for the Advancement of Spine Surgery (ISASS)	

Las Vegas, NV 6-9 April 2016	14
FOSA Specialty Day 2016 Orlando, FL 5 March 2016	6
Selby Spine Conference 2016 Park City, UT. 14-16 January 2016	15

Total Hours 2015: 53 Hours Accredited + 12 Hours Non-Accredited	65
CSRS 43rd Annual Meeting San Diego, CA 3-5 December 2015	15
North American Spine Society, 30th Annual Meeting Chicago, IL 12-15 November 2015	18
ISASS – International Society for the Advancement of Spine Surgery San Diego, CA 15-18 April 2015	16
Selby Spine Conference 2015 Park City, UT. 21 February 2015	4
Vertiflex FDA Panel Meeting - Research, Preparation and Presentation Washington, DC 20 February 2015	*12

Total Hours 2014: 55.5 Hours Accredited + 6 Hours Non-Accredited	61.5
North American Spine Society, 29th Annual Meeting San Francisco, CA 12-15 November 2014	16
International Society for the Advancement of Spine Surgery (ISASS) Miami, FL 30 April – 3 May 2014	18
American College of Spine Surgery Annual Meeting and Spine Surgery Review Course Las Vegas, NV 24-26 April 2014	9
Selby Spine Conference 2014 Park City, UT. 29 January – 1 February 2014	12.5
ISASS Advanced MIS Cadaver Course Faculty ISASS Las Vegas, NV 17-18 January 2014	*6

Total Hours 2013: 65 Hours Accredited + 13 Hours Non-Accredited	78
Cervical Spine Research Society (CSRS) 41st Annual Meeting and ICL Los Angeles, CA December 5-7, 2013	13
Society for Minimally Invasive Surgery (SMISS) Las Vegas, NV November 1-2, 2013	8
North American Spine Society, 28th Annual Meeting New Orleans, LA 9-12 October 2013	16
American College of Spine Surgery Annual Scientific Meeting Las Vegas, NV June 6-8, 2013	10
Meeting of Minds – Advanced Spinal Deformity Meeting 2013 Rome, Italy 15-16 March 2013	*13
9 th Annual Evidence & Technology Spine Summit Park City, UT February 28-March 2, 2013	9.5
Selby Spine Conference 2013 Park City, UT. January 31-February 2, 2013	8.5

Total Hours 2012: 71 Hours Accredited + 0 Hours Non-Accredited	71
Cervical Spine Research Society (CSRS) 40th Annual Meeting Chicago, IL December 6-8, 2012	7
North American Spine Society, 27th Annual Meeting Dallas, TX October 23-27, 2012	11
Society for Minimally Invasive Surgery (SMISS) Miami, FL September 21-23, 2012	6
III World Congress of Minimally Invasive Spine Surgery Bahia, Brazil, August 16-18, 2012	4
Spine Society of Australia 23rd Annual Scientific Meeting 2012 (SSA 2012) Melbourne, Australia April 26-28, 2012	10.5
ISASS – International Society for the Advancement of Spine Surgery Barcelona, Spain 3/19-22/2012	13
8 th Annual Evidence & Technology Spine Summit Park City, UT February 22-25, 2012	8
Selby Spine Conference 2012 Park City, UT. February 1-4, 2012	11.5

Total Hours 2011: 106 Hours Accredited + 6Hours Non-Accredited	112
Cervical Spine Research Society (CSRS) 39th Annual Meeting Scottsdale, AZ December 8-10, 2011	12
North American Spine Society, 26 th Annual Meeting Chicago, IL November 1-5, 2011	13.5
Society for Minimally Invasive Surgery (SMISS) Las Vegas, NV October 21-23, 2011	9
Scoliosis Research Society Annual Meeting Louisville, KY September 14-17 2011	12.5
18th International Meeting on Advanced Spine Techniques (IMAST) Copenhagen, Denmark July 13-16, 2011	15
SAS11 - International Society for the Advancement of Spine Surgery Las Vegas, NV 4/27-30, 2011	13
Spine Society of Australia 22nd Annual Scientific Meeting 2011 (SSA 2011) Melbourne, Australia April 15-17, 2011	12
Emerging Technologies Spine Education Summit Park City, UT. February 2-5, 2011	8
Selby Spine Conference 2011 Park City, UT. February 2-5, 2011	11
Complex Spine Study Group Phoenix, AZ January 14-15, 2011	*6

Total Hours 2010: 104.5 Hours Accredited + 6 Hours Non-Accredited	110.5
Cervical Spine Research Society (CSRS) 38th Annual Meeting Charlotte, NC 2-4 December 2010	14
North American Spine Society, 25 th Annual Meeting Orlando, FL October 5-9, 2010	16

Dubai SpineMasters, 3 rd Annual International Meeting Minimally Invasive Spine Techniques: Masters Update Dubai, UAE May 23-27, 2010	12
2010 AANS Annual Scientific Meeting Philadelphia, PA. May 1-5, 2010	4
SAS 10 New Orleans, LA April 27-30, 2010	12
Federation of Spine Associations New Orleans, LA March 13, 2010	4
American Academy of Orthopaedic Surgeons 2008 Annual Meeting New Orleans, LA March 9-12, 2010	12
Emerging Technologies Spine Education Summit Steamboat Springs, CO January 14-17, 2010	18
Selby Spine Conference 2010 Park City, UT. February 3-6, 2010	12.5
Complex Spine Study Group San Diego, CA January 8-9, 2010	*6

Total Hours 2009: 155.25 Hours Accredited + 43 Hours Non-Accredited	198.25
North American Spine Society, 24 th Annual Meeting San Francisco, CA. November 10-14, 2009	12
Congress of Neurosurgeons, 2009 Annual Meeting New Orleans, LA. October 24-26, 2009	10
Society for Minimally Invasive Spine Surgery Las Vegas, NV November 10-12, 2008	12
Vertiflex Superior ISSS US IDE Principal Investigators Meeting Chicago, IL September 26 th , 2009	*6
Orthofix Blackstone Advent US IDE Investigators Meeting Dallas, TX September 12 th , 2009	*4
Scoliosis Research Society 44 th Annual Meeting San Antonio, TX, September 23-25, 2009	14
North Carolina Spine Society Annual Meeting Pinehurst, NC August 27-28, 2009	4.25
Complex Spine Study Group Washington, DC. August 7 th , 2009	8*
Proctorship for Lateral TDR IDE Study with Luiz Pimenta Sao Paulo, Brazil August 3-4, 2009	9*
American Board of Orthopaedic Surgery, Maintenance of Certification Oral Examination Chicago, IL July 20 th , 2009	25
American College of Spine Surgery Annual Meeting Newport Beach, CA June 4-6, 2009	9
Controversies in Contemporary Spine Surgery Washington, DC May 16, 2009	4
SAS 9 London, England 4/28 – 5/2, 2009	17
Society of Lateral Access Surgery (SOLAS) – Annual Meeting La Jolla, CA April 16-18, 2009	*8
American Academy of Orthopaedic Surgeons 2009 Annual Meeting Las Vegas, NV February 25-28, 2009	18
Complex Spine Study Group	

Phoenix, AZ. February 20 th , 2009	8*
Emerging Technologies Spine Education Summit Steamboat Springs, CO February 4-7, 2009	18.5
Selby Spine Conference 2009 Park City, UT. January 28-31, 2009	11.5

Total Hours 2008: 136.5 Hours Accredited + 55.0 Hours Non-Accredited	191.5
Proctorship with Dr. Oheneba Boachie-Adjei MD at Hospital for Special Surgery New York, NY. December 9-11, 2009	10*
Society for Minimally Invasive Surgery Las Vegas, NV November 13-15, 2008	10
North American Spine Society, 23 rd Annual Meeting Toronto, Ontario, Canada. October 14-18, 2008.	20
Scoliosis Research Society 43 rd Annual Meeting Salt Lake City, UT September 11-13, 2008	13
Congress of Neurosurgeons, 2008 Annual Meeting Orlando, FL September 21-24, 2008	10
DASCOR Investigator Training Dallas, TX August 29 th , 2008	6*
Point-Counter-Point Surgeon Panel Debates Key West, FL May 29-June 1, 2008	7*
3 rd Annual Ascend Course: Controversies in Contemporary Spine Surgery Washington, D.C. May 16-17, 2008	3.5
SAS8 (Spine Arthroplasty Society, 8 th Annual Meeting) Miami, FL May 6-10, 2008	15
ISISS Investigator Meeting and Superior Certification Training San Clemente, CA May 2-3, 2008	8*
Visiting Surgery Professor – Mr. Ross Manchester, England March 28-29, 2008	8*
Visiting Surgery and Clinic Professor - Prof. Jérôme Allain, M.D. Service de Chirurgie Orthopédique, Hospital Henry Mondor Paris, France March 24-27, 2008	16*
Federation of Spine Associations San Francisco, CA March 8, 2008	8.5
American Academy of Orthopaedic Surgeons 2008 Annual Meeting San Francisco, CA March 5-9, 2008	20
Emerging Technologies Spine Education Summit Jackson Hole, WY February 6-9, 2008	15
Selby Spine Conference 2008 Park City, UT. January 30-February 2, 2008	12
Disorders of the Spine, 20 th Annual Meeting Whistler, Canada. January 19-23, 2008	9.5

Total Hours 2007: 173.0 Hours Accredited + 48.5 Hours Non-Accredited	221.5
Introduction to Evidenced Based Medicine NASS Sponsored Online Course, December 2007 (Multiple Sessions)	18
JBJS CME Exam: CME 4: October, November, December 2007 JBJS Website, December 2007	10
Cervical Spine Research Society 35 th Annual Meeting San Francisco, CA November 28 th -December 1 st , 2007	17

JBJS CME Exam Spine Test 10, Fall 2006 JBJS Website (Completed: 11/11/2007)	4
North American Spine Society, 22 nd Annual Meeting Austin, TX October 23-27 2007	27
Synthes ProDisc-L Training SpineMark Medical Conference Center, Dallas, TX September 14-15, 2007	8*
JBJS CME Exam: CME 2: April, May, June 2007 JBJS Website (Completed: 9/12/2007)	10
14 th Advanced Techniques in Cervical Spine Decompression and Stabilization Course St. Louis University/Washington University, St. Louis, MO, August 3-4,2007	16.5
Complex Spine Study Group Washington, D.C., July 27 th , 2007	7*
4 th Annual, Innovative Techniques in Spine Surgery Los Cabos, Mexico, June 27-30, 2007	12.5
GPS Summit Colorado Springs, CO June 7-9, 2007	11*
STALIF Summit & Regatta Newport, RI June 2, 2007	3.5*
Collaborative IRB Training Initiative (CITI) Online Training and Testing University of Miami & Western Institutional Review Board, May 9, 2007	2*
Global Symposium on Motion Preservation Technology Spine Arthroplasty Society, 7 th Annual Meeting Berlin, Germany May 1-5, 2007	25
LDR Spine Mobi-C Investigators Meeting Phoenix, AZ April 14-15,2007	4*
2 nd Annual Ascend Course: Controversies in Contemporary Spine Surgery Phoenix, AZ February 23-24, 2007	3.5
Lateral Access Proctor and New Technique Training San Diego, CA February 12-13, 2007	8*
Emerging Technologies Spine Education Summit Telluride, CO February 7-10, 2007	18
Selby Spine Conference 2007 Park City, UT. January 31-February 3, 2007	11.5
Spinal Motion Cervical Principal Investigators Meeting Dallas, TX. January 26 ⁻²⁷ , 2007	5*

Total Hours 2006: 147.0 Hours Accredited + 6 Hours Non-Accredited	153.0
Cervical Spine Research Society 34 th Annual Meeting Palm Beach, FL November 30 th -December 2 nd , 2006	15
Society of Lateral Access Surgery (SOLAS) – Inaugural Meeting San Diego, CA November 04-05, 2006	*6
North American Spine Society, 21 st Annual Meeting Seattle, WA September 26 th -30 th , 2006	25
Spine Across the Sea 2006 (sponsored by NASS & Japanese Spine Research Society) Maui, HI July 23-27, 2006	20.5
American College of Spine Surgery 8th Annual Meeting and Spine Surgery Review Course Colorado Springs, CO May 4-7, 2006	18.5
Federation of Spine Associations Chicago, IL February 16, 2002	8.5

American Academy of Orthopaedic Surgeons, 73rd Annual Meeting Chicago, IL March 22-26, 2006	31
Emerging Technologies Spine Education Summit Telluride, CO January 26-28, 2006	16
Selby Spine Conference 2006 Park City, Utah February 1-4, 2006	12.5

Total Hours 2005: 105 Hours Accredited + 58 Hours Non-Accredited	163
Spinal Focus 2005 New York, New York Dec 9-10, 2005	10*
Kineflex Lumbar & Cervical Disc Replacement Training Shreveport, LA November 4, 2005	6*
North American Spine Society, 20th Annual Meeting Philadelphia, PA September 27 th – October 1 st , 2005	24.5
SeaSpine Users Meeting Dana Point, CA August 26-28, 2005	10*
World Spine III Rio de Janeiro, Brazil July 31-August 3, 2005	22.5
Operated with Luiz Pimenta Sao Paulo, Brazil July 29-31, 2005	16*
Artificial Disc Revision Course Memphis, TN April 28-29, 2005	8*
Emerging Technologies Spine Education Summit Telluride, CO March 3-5, 2005	15
XLIF & Minimally Invasive TLIF Didactic and Cadaveric Course – Drs. Pimenta & Peterson San Diego, CA February 20-21, 2005	8*
Selby Spine Conference 2005 Park City, Utah February 2-5, 2005	10.5
Disorders of the Spine, 17 th Annual Meeting Whistler, Canada. January 15-21, 2005	32.5

Total Hours 2004: 90 Hours Accredited + 28 Hours Non-Accredited	118
PRINCIPLES OF DYNAMIC STABILIZATION - THE DYNESYS SYSTEM University of Pittsburgh, Dept. of Neurosurgery, Pittsburgh, PA December 17-18, 2004	8*
CHARITÉ Artificial Disc Training Course The Center for Spine Arthroplasty, Cincinnati, OH December 16-17, 2004	9*
Risk Management Rounds: Physicians Medical Risk Management, Inc., Houston, Texas	5
North American Spine Society, 19th Annual Meeting Chicago, IL October 25-30, 2004	29.5
American College of Spine Surgery 6th Annual Meeting and Spine Surgery Review Course Scottsdale, AZ September 22-26, 2004	21
Selby Spine Conference 2004 Park City, Utah February 28-31, 2004	11*
Disorders of the Spine, 16 th Annual Meeting Whistler, Canada. January 17-23, 2004	34.5

Total Hours 2003: 89.5 Hours Accredited + 21 Hours Non-Accredited	110.5
American Academy of Disability Evaluating Physicians, 17 th Annual Scientific Session New Orleans, LA November 13-15, 2003	12
North American Spine Society, 18th Annual Meeting San Diego, CA October 21-25, 2003	28
Lumbar Spine – Challenges & Innovations Scottsdale, AZ. September 18-20, 2003	10*
Occupational Care Management Conference – Patient Care The Johns Hopkins University, New Orleans, LA August 16-17, 2003	12
The Downward Spiral of Vertebral Osteoporosis Cedars-Sinai Medical Center, June 26, 2003	3
Selby Spine Conference 2003 Park City, Utah February 6-9, 2003	11*
Disorders of the Spine, 15 th Annual Meeting Whistler, Canada. January 19-25, 2003	34.5

Total Hours 2002: 96 Hours Accredited + 11 Hours Non-Accredited	107
North American Spine Society, 17th Annual Meeting Montreal, Quebec October 29-November 2, 2002	28.5
Interbody Challenges of the Lumbar Spine – Discussion Group Carlsbad, CA September 12-14, 2002	8*
INFUSE Bone Graft/LT-CAGE National Educational Videoconference Dallas, TX July 20, 2002	3*
Jousting, Chart Wars, Falling on the Sword -- Avoid the Classics LAMMICO Online Lecture Series, Shreveport, LA June 27, 2002	1
Informed Consent Update LAMMICO Lecture Series, Shreveport, LA March 26, 2002	1
American Academy of Orthopaedic Surgeons, 69th Annual Meeting Dallas, TX February, 13-17, 2002	24
Federation of Spine Associations Dallas, TX February 16, 2002	7
Disorders of the Spine, 14 th Annual Meeting Whistler, Canada. January 19-25, 2002	34.5

Total Hours 2001: 47.5 Hours Accredited + 33 Hours Non-Accredited	80.5
North American Spine Society, 16th Annual Meeting Seattle, WA October 31-November 4, 2001	26.5
Advances in Vertebroplasty American OsteoMedix/Interpore-Cross New Orleans, LA October 12-13, 2001	8*
CPTE, E&M, and ICD-9 coding for the Physician Shreveport, LA August 16, 2001	2
Medical Ethics – PDR.NET Online Education, CMEweb – Sections 503, 504, 505, 506 July 14, 2001	6
Interbody Challenges of the Lumbar Spine Discussion Group (An “Invitation Only” meeting of experts in Lumbar Interbody technology) Moderator – Hallett H. Mathews, MD, MidAtlantic Spine Specialists, Medtronic Cabo San Lucas, Mexico. June 21-23, 2001	8 *
Medical Privacy and Security LAMMICO Lecture Series, Shreveport, LA 6/5/2001	1
Indications & Techniques for Anterior Cervical Spine Plating	

Interpore Cross Cervical Spine Study Group Annual Meeting Cancun, Mexico, May 11-13, 2001	5 *
Why Patients Become Plaintiffs LAMMICO Lecture Series, Shreveport, LA 4/24/2001	1
Selby Spine Conference 2001 Park City, Utah February 8-10, 2001	11
Modern Concepts in Anterior Lumbar Surgery 2001 DePuy AcroMed, New Orleans, LA January 11 - 13, 2001	12 *

Total Hours 2000: 82.5 Hours Accredited + 15 Hours Non-Accredited	97.5
Kyphon Vertebroplasty Training Workshop Memphis, TN October 13-14, 2000	7 *
North American Spine Society, 15th Annual Meeting New Orleans, LA October 24-28, 2000	26
Osteoporosis: Rationale & Current Trends in Treatment Shreveport, LA September 27, 2000	1
Degenerative Spinal Disease: Selecting Surgical Techniques 6 th Spine Surgeons International Symposium Napa, CA. September 21-23, 2000	12
Spinal Osteoplasty/Vertebroplasty American OsteoMedix Ellicot, MD. July 21-22, 2000	8 *
Practical Steps to Avoid Fraud & Abuse LAMMICO CME, Shreveport, LA 7/18/00	1
Amer. Academy of Orthopedic Surgeons, 67th Annual Meeting Orlando, FL March 15-19, 2000	24.5
Federation of Spine Associations Orlando, FL March 19, 2000	7
Selby Spine Conference 2000 Winter Park, CO February 9-13, 2000	11

Total Hours 1999: 119.5 Hours Accredited	119.5
Current Concepts in the Treatment of Spinal Disorders West Virginia School of Medicine Cancun, Mexico January 8-10, 1999	8
Bone Growth Factors & Substitutes: The Next Generation for Spinal Fusion Keystone, Colorado December 11-12, 1999	10
North American Spine Society, 14th Annual Meeting Chicago, IL October 20-24, 1999	28
AAOS Practical Strategies in Spine Surgery; Current Applications & Techniques Chicago, IL August 5-8, 1999	24
CME under the SEA Belize May 8-16, 1999	7
American Academy of Orthopaedic Surgeons, 66th Annual Meeting Anaheim, CA February 3-8, 1999	28.5
Federation of Spine Associations Anaheim, CA February 7, 1999	7
Current Concepts in the Treatment of Spinal Disorders Cancun, Mexico January 7-10, 1999	7

Total Hours 1998: 91.15 Hours Accredited + 12 Hours Non-Accredited	103.15
North American Spine Society, 13th Annual Meeting San Francisco, CA October 1998	21.65
Adult Spine Self-Assessment Examination July 1998	10
Surgical Observation Workshop Twin Cities Spine Center Minneapolis, MN. May 1998	12 *
Adult Spine Self-Assessment Examination May 1998	10
5th International Meeting on Advanced Spine Techniques Sorrento, Italy May 1998	16.0
American Academy of Orthopaedic Surgeons, 65th Annual Meeting New Orleans, LA March 1998	26.5
Federation of Spine Associations New Orleans, LA March 1998	7.0

Total Hours 1997: 59 Hours Accredited + 16 Hours Non-Accredited	75
North American Spine Society 12th Annual Meeting New York, NY October 1997	33
AO Advanced Forum for Spine Surgeons Nottingham, England September 1997	26
BAK Training Course, Dallas Spine Group. Dallas, TX January 10, 1997	8*
MicroEndoscopic Discectomy Training, K. Foley, M.D. Memphis, TN January 1997	8 *

Total Hours 1996: 139.5 Hours Accredited + 25 Hours Non-Accredited	164.5
EuroSpine '96 - European Spine Society Zurich, Switzerland October 1996	25 *
Southwestern Orthopaedic Surgery Review, May 10-12, 1996	25
12th Annual Comprehensive Review Course March 1996	50
American Academy of Orthopaedic Surgeons 63rd Annual Meeting Atlanta, GA February 1996	28.5
Federation of Spine Associations Atlanta, GA February 1996	7.0
Orthopedic Research Society Annual Meeting San Francisco, CA February 1996	29.0
* = indicates the hours are NOT accredited. Given simply to indicate the number of hours of educational activity.	

PERSONAL & PROFESSIONAL REFERENCES:

Furnished upon request