

Michael Y. Wang, MD, FACS

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Lois Pope LIFE Center
Department of Neurosurgery
Miami, Florida 33136

AWARDS & HONORARY VISITING LECTURESHIPS

- Visiting Professor, Rush University School of Medicine, Department of Neurological Surgery, Chicago, Illinois, December 16, 2015.
- Visiting Professor, University of Pennsylvania Department of Neurological Surgery, Philadelphia, Pennsylvania, October 22, 2015.
- Visiting Professor, University of Texas at San Antonio Department of Neurological Surgery, San Antonio, Texas, August 14, 2015.
- Recipient, the Dalton Dietrich Miami Project Translational Research Award, June 20, 2015
- Guest Speaker, ASIA Spine 2015 & the 14th Annual Meeting of the Taiwan Neurosurgical Spine Society, Taipei, Taiwan ROC, June 13-14, 2015
- Visiting Professor, Harvard University Peter Bent Brigham Hospital Department of Neurological Surgery, Boston, Massachusetts, June 4, 2015.
- Visiting Professor, University of Wisconsin Department of Neurological Surgery, Madison, Wisconsin, August 15-16, 2014
- Honoured Guest, 1st Annual Joint Orthopedics and Neurosciences Symposium & Workshop (12th Annual Caribbean Neurosciences Symposium & 19th Annual Orthopedic Conference), Montego Bay, Jamaica, February 1-2, 2014.
- Charles B. Wilson Visiting Professor, University of California at San Francisco (UCSF) Department of Neurological Surgery, December 12, 2013.
- Guest Lecturer, Neurosurgical Society of Australasia (NSA), Coolumb, Queensland, Australia, October 3-5, 2013.
- Honored Speaker, Texas Association of Neurological Surgeons Annual Meeting, Horseshoe Bay, Texas, February 28-March 3, 2013.
- Visiting Lecturer, University of Texas at Houston School of Medicine, Department of Orthopedic Surgery, Houston, Texas, November 16, 2012.
- Guest Lecturer, 21st Mexican Congress of Neurosurgeons, July 19-20, 2011.
- Visiting Lecturer, Yale University School of Medicine, Department of Neurological Surgery, New Haven, Connecticut, March 23, 2011.
- Visiting Lecturer, Stanford University School of Medicine, Department of Neurological Surgery, Stanford, California, January 21, 2011.
- Guest Lecturer, 5th Annual SINCOL Meeting (Simposio Internacional de Coluna), Rio de Janeiro, Brazil, August 5-7, 2010.

Guest Lecturer, 8th Annual Meeting of the Taiwan Society of Neurospinal Surgery
Taipei, Taiwan, June 6-7, 2009.

Guest Lecturer, 43rd Annual Meeting of the Japan Medical Society of Spinal Cord Lesions.
Sapporo, Hokkaido, Japan, November 6, 2008.

Visiting Professor, University Michigan School of Medicine, Department of Neurological
Surgery, Ann Arbor, Michigan, May 29, 2008.

Visiting Professor, Rush University School of Medicine, Department of Neurological
Surgery, Chicago, Illinois, January 17, 2008.

Visiting Professor, University of Kentucky at Lexington School of Medicine, Department of
Orthopedic Surgery, Lexington, Kentucky, January 15-16, 2008.

Visiting Professor, University of South Florida Department of Neurological Surgery, Tampa,
Florida, December 14, 2007.

Visiting Lecturer, 4th Annual Crossover Meeting for the Japanese Society of Spinal Surgeons,
Waikiki, Hawaii, July 6, 2007.

Visiting Professor, University of Virginia Department of Neurological Surgery,
Charlottesville, Virginia, May 21, 2007.

Visiting Professor, Vanderbilt University Department of Neurological Surgery, Nashville,
Tennessee, March 2, 2007.

Visiting Professor, University of Miami Department of Neurological Surgery, Miami, Florida,
December 14, 2006.

Visiting Professor, The Titanium Club, Ballarat, Victoria, Australia November 6, 2005.

Recipient, AANS Section on Spine & Peripheral Nerves Larson Award in Spine or Spinal
Cord Research (2005)

Recipient, AANS Section on Spine & Peripheral Nerves Mayfield Award in Spine or Spinal
Cord Research (2004)

Recipient, Western Neurosurgical Society Resident Research Award (2000)

Recipient, Stanford Traveling Scholarship (1994)

American Federation for Clinical Research Medical Student Research Award (1993)

Stanford Department of Biological Sciences Award for Exceptional Contributions in
Teaching (1992)

Phi Beta Kappa (1990)

Recipient, UCLA Epidemiology Fellowship (1990)

MEDICAL JOURNALS

Section Editor (Spine), *World Neurosurgery* (2014 to present)
 Guest Topic Editor, *Neurosurgical Focus*, Cervical spondylotic myelopathy with and without OPLL. June 2016
 Guest Topic Editor, *Neurosurgical Focus*, Endoscopic spine surgery. February 2016
 Guest Topic Editor, *Neurosurgical Focus*, Spinal osteomyelitis with and without epidural abscess: diagnosis and management strategies. August 2014
 Ad hoc reviewer, *American Journal of Sports Medicine (AJSM)* (2013 to present)
 Guest Topic Editor, *Neurosurgical Focus*, Adult Spinal Deformity: Pathophysiology and Corrective Measures. May 2014
 Co-Editor, *CNS Quarterly* (2013 to present)
 Ad Hoc Reviewer, *The Spine Journal* (2012 to present)
 Ad Hoc Reviewer, *PLoS ONE* (2012 to present)
 Ad Hoc Reviewer, *The International Journal of Spine Surgery* (2011 to present)
 Editorial Review Board, *Journal of Neurosurgery: Spine* (2012 to present)
 Guest Topic Editor, *Neurosurgical Focus*, Risk Prevention/ Surgical Checklist. November 2012.
 Ad Hoc Reviewer, *Nature Reviews Neurology* (2012 to present)
 Ad Hoc Reviewer, *Canadian Journal of Surgery* (2012 to present)
 Ad Hoc Reviewer, *The New England Journal of Medicine* (2010 to present)
 Reviewer, *Journal of Neurotrauma* (2010 to present)
 Guest Topic Editor, *Neurosurgical Focus*, Ossification of the posterior longitudinal ligament. March 2011.
 Editorial Review Board, *Acta Neurochirurgica* (2010 to present)
 Section Editor (Instrumentation), *World Neurosurgery* (2010 to present)
 Guest Supplement Editor, *Neurosurgery*, Craniovertebral junction supplement. March 2010.
 Editorial Review Board, *World Neurosurgery* (2010 to present)
 Associate Editor, *Spine and Operative Neurosurgery sections of Neurosurgery* (2010 to 2014)
 Editorial Review Board, *Contemporary Spine Surgery* (2010 to 2015)
 Guest Supplement Editor, *Neurosurgery*, Thoracolumbar spinal deformity: Evaluation & treatment. September 2008.
 International Advisory Board Member, *Spinal Surgery*, the official journal of the Japanese Society of Spinal Surgery (2007)
 Reviewer, *The Spine Arthroplasty Society (SAS) Journal* (July 2007 to present)
 Guest Topic Editor, *Neurosurgical Focus*, Ankylosing Spondylitis: Physiology, Pathology & Surgical Options. January 2008.
 Ad Hoc Reviewer, *Clinical Neurology & Neurosurgery* (2007 to present)
 Ad Hoc Reviewer, *The Journal of Nutritional Biochemistry* (2007 to present)
 Reviewer, *The Journal of Spinal Cord Medicine* (2007 to present)
 Editorial Board, *Congress Quarterly* (2007 to 2011)
 Guest Topic Editor, *Neurosurgical Focus*, Posterior Dynamic Stabilization January 2007.
 Ad hoc reviewer, *Journal of Neurology, Neurosurgery, & Psychiatry* (2006 to present)
 Ad hoc reviewer, *Journal Expert Review of Medical Devices* (2006 to present)
 Ad hoc reviewer, *Clinical Anatomy* (2006 to present)
 Editorial Review Board, *Journal of Spinal Disorders and Techniques* (2006 to present)
 Editorial Review Board, *Neurosurgery* (2010 to 2014)
 Principal, New Spinal Technologies, *Neurosurgery* (2005 to 2011).
 Ad hoc reviewer, *Spinal Cord* (2005 to present)

Panelist, *Neurosurgery's Science Times* (2004 to present)
Ad hoc reviewer, *Neurosurgical Focus* (2004 to present)
Reviewer, *Neurology India* (2002 to present)
Reviewer, *Stroke* (2003 to present)
Ad hoc reviewer, *The Spine Journal* (2002)
Reviewer, *Neurosurgery* (2001 to present)

NATIONAL LEADERSHIP POSITIONS

President-Elect, Society of University Neurosurgeons (SUNS) (2016 to 2017)
 Grants Reviewer, Neurosurgical Research & Education Foundation (2016)
 Chair, MIP (Minimally Invasive) Section, North American Spine Society (NASS) (2015 to present)
 Scientific Program Committee, Society for Minimally Invasive Spine Surgery (SMISS) (2015)
 Vice President, Society of University Neurosurgeons (SUNS) (2015 to 2016)
 MIS Program Co-Chair, International Society for the Advancement of Spine Surgery (ISASS16), 2016 Meeting
 Scientific Program Committee, AANS (2015-2018)
 NREF Development Committee (2015-2016)
 Abstract review committee, 2015 North American Spine Society (NASS) Annual Meeting
 Program committee, 2015 NASS-Spine Across the Sea Meeting
 Scientific Abstract Review Committee, AANS 2015 Annual Meeting
 Education Committee, International Society for the Advancement of Spine Surgery (ISASS14) (2015 to present)
 Scientific Abstract Review Committee, International Society for the Advancement of Spine Surgery (ISASS14) 2014 Annual Meeting
 Scientific Program Committee, Congress of Neurosurgeons (CNS) 2015 Annual Meeting
 Senior Advisory Board (Spine II) for SANS (Self-Assessment in Neurological Surgery)
 Corporate Outreach Committee (Spine), Congress of Neurological Surgeons (2014 to 2015)
 Scientific Abstract Review Committee, International Society for the Advancement of Spine Surgery (ISASS15) 2015 Annual Meeting
 Treasurer, AANS/CNS Joint Spine Section (2015 to 2018)
 International Host Committee of the AANS (2014-2015)
 Annual Meeting Program Chair, AANS/CNS Joint Spine Section (2014 to 2015)
 Scientific Abstract Review Committee, AANS 82nd Annual Meeting, San Francisco, California
 Chair, Public Relations Committee, Congress of Neurological Surgeons (2013 to 2015)
 Section on MIS, North American Spine Society (NASS) (2013-2016)
 Clinical Program Chair, International Society for the Advancement of Spine Surgery (ISASS14), 2014 Meeting
 Scientific Program Chair, AANS/CNS Joint Spine Section (2013 to 2014)
 Ex Officio, CNS Executive Committee (2012 to 2015)
 Chair, Membership Committee, Congress of Neurological Surgeons (2012 to 2015)
 Scientific Abstract Review Committee, International Society for the Advancement of Spine Surgery (ISASS13) 2013 Annual Meeting
 Scientific Abstract Review Committee, AANS 2013 Annual Meeting
 Secretary/Treasurer, Society of University Neurosurgeons (SUNS) (2012 to 2015)
 Local Host, 2012 AANS Annual Meeting (Miami, Florida)
 Grants Reviewer, Orthopedic Research & Education Foundation (OREF) (2011 to 2013)
 Exhibits Committee Chairman, AANS/CNS Joint Spine Section (2011 to 2013).
 Fellowship Committee Chairman, AANS/CNS Joint Spine Section (2011 to present).
 Membership Chairman, Society of University Neurosurgeons (SUNS) (2010 to 2012)
 Scientific Abstract Review Committee, AANS/CNS Joint Spine Section 2011 Annual Meeting
 Local Host, 2010 SUNS Annual Meeting (Miami, Florida)

Scientific Abstract Review Committee, AANS/CNS Joint Spine Section 2010 Annual Meeting
Delegate, Council of State Neurosurgical Societies (CSNS), representing Florida (2008 to 2010)
Scientific Abstract Review Committee, AANS/CNS Joint Spine Section 2009 Annual Meeting
Abstract grading committee, 2008 CNS Annual Meeting
Education Committee Chairman, AANS/CNS Joint Spine Section (2008 to 2010).
Abstract review committee, 2008 North American Spine Society (NASS) Annual Meeting
Member, AANS Joint Sponsorship Council (2008 to present)
Scientific Abstract Review Committee, AANS/CNS Joint Spine Section 2008 Annual Meeting
Abstract grading committee, 2008 AANS Annual Meeting
Council of Musculoskeletal Educators, The Bone & Joint Decade Committee 2002-2011 (2007 to present)
CME Chairman, Society of University Neurosurgeons (SUNS) (2007 to 2012)
Member, AANS Member Benefits Committee (2007 to 2011)
Course CME Director, Online *University of Neurosurgery* for the Congress of Neurological Surgeons: Minimal Access Spinal Surgery (2007 to 2008)
Scientific Advisory Committee, AANS/CNS Joint Spine Section 2007 Annual Meeting
Scientific Abstract Review Committee, AANS/CNS Joint Spine Section 2007 Annual Meeting
Poster Awards Grading Committee, AANS/CNS Joint Spine Section 2007 Annual Meeting
Member, AANS/CNS Joint Spine Section Executive Committee (2006 to present)
Publications Committee Chairman, AANS/CNS Joint Spine Section (2006 to 2008).
Member, American Association of Neurological Surgeons Development Committee (2005 to 2010)
Member, Congress of Neurological Surgeons Education Committee (2005 to 2010)
Ad hoc grants reviewer, National Medical Research Council of Singapore
Member, AANS Young Neurosurgeons Executive Committee (2003 to 2007)
Associate Team Neurosurgeon, USC Trojan Football Team and Athletic Department (2002 to 2007)
Neurosurgery representative to the Joint Council of Interns and Residents (JCIR), LAC+USC (1997-2001)

LOCAL LEADERSHIP POSITIONS

Jackson Memorial Hospital Peer Review Committee (2015 to present)
University of Miami Miller School of Medicine Coulter Center Oversight Committee (2014 to present)
Medical Advisory Board, University of Miami Center of Excellence for Laparoscopic and Minimally Invasive Surgery (2008 to 2012)
Instructor, Problem Based Learning Program, University of Miami Miller School of Medicine (2008 & 2009)
Infection Control Medical Staff Committee, USC University Hospital (2006 to 2007)
Representative, USC Medical Faculty Assembly (2003 to 2007)

SOCIETY MEMBERSHIPS

Member, Society for Minimally Invasive Spine Surgery (SMISS) (2014 to present)
Member, International Society for the Advancement of Spine Surgery (ISASS) (2013 to present)
Active Member, Society of University Neurosurgeons (SUNS) (2007 to present)
Fellow, American College of Surgeons (2007 to present)
Active Member, American Spinal Injury Association (ASIA) (2007 to 2010)
Active Member, American Paraplegia Society (2007 to 2010)
Honorary Member, ARGOS North America (2004 to 2010)
Member, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves (2004 to present)
Member, Congress of Neurological Surgeons (2003 to present)
Member, North American Spine Society (NASS) (2001 to present)
Member, American Association of Neurological Surgeons (1999 to present)
Resident Member, Joint Section on Pain, AANS & CNS (1998 to 2003)
Member, California Association of Neurological Surgeons (1997 to 2007)
Resident Member, Joint Section of Neurotrauma & Critical Care, CNS (1997 to 2003)
Resident Member, Congress of Neurological Surgeons (1997 to 2003)
Member, Society for Investigative Dermatology (1995-1997)

EDUCATION & EMPLOYMENT

6/15 to present Director of Neurosurgery
University of Miami Hospital
1400 NW 12th Avenue
Miami, Florida 33136

6/15 to present Spine Fellowship Director
University of Miami Department of Neurosurgery
University of Miami
Miami, Florida 33136

6/12 to present Professor with Tenure
Departments of Neurosurgery &
Physical Medicine & Rehabilitation
University of Miami Miller School of Medicine
Miami, FL 33136

7/07 to 5/12 Associate Professor with Tenure
Departments of Neurosurgery &
Physical Medicine & Rehabilitation
University of Miami Miller School of Medicine
Miami, FL 33136

3/06 – 7/07 Associate Program Director
Acute Spinal Cord Model System
Rancho Los Amigos Rehabilitation Center
Los Angeles, CA 90242

3/06 – 7/07 Chief, Spine Surgery Program
Rancho Los Amigos Rehabilitation Center
Los Angeles, CA 90242

10/05 – 7/07 Spine Program Director
Department of Neurosurgery
University of Southern California
Los Angeles, CA 90033

1/05 – 7/07 Spine Fellowship Director
Department of Neurosurgery
University of Southern California
Los Angeles, CA 90033

7/03 – 7/07 Assistant Professor
Department of Neurosurgery
University of Southern California
Los Angeles, CA 90033

7/02 – 7/03
Resident Supervisor
Department of Neurosurgery
University of Southern California
Los Angeles, CA 90033

7/01 – 7/02
Neurosurgery Spine Fellow
University of Miami, Jackson Memorial Hospital
Miami, Florida 33136

6/97 – 7/01
Neurosurgery Resident
LA County + Univ. Southern California
Los Angeles, CA 90033

6/96 – 6/97
Surgical Internship
LA County + Univ. Southern California
Los Angeles, CA 90033

9/91 – 6/96
Stanford University Medical School
Stanford, CA 94305
Graduated, MD June 1996

9/90 – 6/91
UCLA School of Public Health
Division of Epidemiology
Los Angeles, CA 90024

9/88 – 8/90
Stanford University
Stanford, CA 94305
BS, Microbiology & Immunology
Graduation with Distinction (1991)

9/87 – 6/88
Georgia Institute of Technology
Atlanta, Georgia 30332

8/84 – 6/87
George Walton High School
Marietta, Georgia 30067
Graduated 1988, Salutatorian

BOOKS EDITED

1. MG Fehlings, L Tetreault, P Hsieh, V Traynelis, & **MY Wang**. Introduction: Degenerative Cervical Myelopathy: An Introduction to a Focus Issue on Diagnostic, Assessment and Management Strategies, Surgical Complications and Outcome Prediction.
2. K Madhavan, LO Chieng, H Foong, & **MY Wang**. Surgical outcomes of elderly patients with cervical spondylotic myelopathy (CSM): a meta-analysis of 2868 patients. Accepted for publication in *Neurosurgical Focus*.
3. **MY Wang**, A Strayer O Harris, C Rosenberg, & P Mummanenin (Eds.) Handbook of Neurology, Neurosurgery, and Intensive Care for Nurses & Advanced Practice Health Professionals. CRC Press, London, England, 2015 (est.); ISBN:.
4. **MY Wang**, A Sama, & JS Uribe (Eds). Lateral Access Minimally Invasive Spine Surgery. Springer-Verlag Publishing, Vienna, Austria, 2015 (est.); ISBN:.
5. MJ Perez-Cruet, R Fessler, LT Khoo, & **MY Wang**, An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition. CRC Press, 2015 (est.); ISBN:.
6. J Rihn, **MY Wang**, S Prasad, & A Vacarro (Eds). Decision support in spine surgery. Decision Support in Medicine LLC.
7. **MY Wang**, Y Lu, G Anderson, & P Mummaneni (Eds). Minimally Invasive Spinal Deformity Surgery: An Evolution of Modern Techniques. Springer-Verlag Publishing, Vienna, Austria, 2014; ISBN: ISBN: 978-3-7091-1406-3.
8. P Mummaneni, AS Kanter, **MY Wang**, R Haid (Eds). Cervical Spine Surgery: Current Trends and Challenges. Quality Medical Publishing, St. Louis, Missouri, 2014; ISBN: 978-1-57626-297-9.
9. **MY Wang**, G Anderson, P Mummaneni, & S Ludwig (Eds). Handbook of Percutaneous Spinal Fixation (Translated into Chinese). Quality Medical Publishing, St. Louis, Missouri, 2013; ISBN: 978-1-57626-371-6.
10. **MY Wang**, G Anderson, P Mummaneni, & S Ludwig (Eds). Handbook of Percutaneous Spinal Fixation. Quality Medical Publishing, St. Louis, Missouri, 2011; ISBN: 978-1-57626-299-3.

PEER REVIEWED PUBLICATIONS

1. DK Hamilton, AS Kanter, BD Bolinger, GM Mundis, S Nguyen, PV Mummaneni, N Anand, RG Fessler, PG Passias, P Park, F La Marca, JS Uribe, **MY Wang**, BA Akbarnia, CI Shaffrey, DO Okonkwo; International Spine Study Group (ISSG). Reoperation rates in minimally invasive, hybrid and open surgical treatment for adult spinal deformity with minimum 2-year follow-up. *Eur Spine J.* 2016 Feb 24. [Epub ahead of print]
2. ZL Gokaslan, AE Telfeian, & **MY Wang**. Introduction: Endoscopic spine surgery. *Neurosurg Focus* 2016; 40(2) E1.
3. K Madhavan, LO Chieng, CP Hofstetter, & **MY Wang**. Transforaminal discectomy to relieve sciatica and delay fusion in a 31-year-old man with pars defect and low grade spondylolisthesis. *Neurosurg Focus* 2016; 40(2) E4.
4. K Madhavan, LO Chieng, L McGrath, CP Hofstetter, & **MY Wang**. Early experience with endoscopic foraminotomy in patients with moderate degenerative deformity. *Neurosurg Focus* 2016; 40(2) E6.
5. L McGrath, K Madhavan, LO Chieng, **MY Wang**, & CP Hofstetter. Early experience with endoscopic revision of lumbar fusions. *Neurosurg Focus* 2016; 40(2) E10.
6. **MY Wang** & J Grossman. Endoscopic minimally invasive transforaminal interbody fusion (MIS TLIF) without general anesthesia: Initial clinical experience with one year follow-up. *Neurosurg Focus* 2016; 40(2) E13: 1-5.
7. **MY Wang** & G Bordon. Mini-open pedicle subtraction osteotomy as a treatment for severe adult spinal deformities: case series with initial clinical and radiographic outcomes. *J Neurosurgery: Spine* 2016; ():.
8. D Choi, Z Fox, T Albert, M Arts, L Balabaud, C Bunger, JM Buchowski, MH Coppes, B Depreitere, MG Fehlings, J Harrop, N Kawahara, JA Martin-Benlloch, EM Massicotte, C Mazel, FC Oner, W Preul, N Quraishi, Y Tokuhashi, K Tomita, JJ Verlaan, **M Wang**, HA Crockard. Prediction of quality of life and survival after surgery for symptomatic spinal metastases: A multicenter cohort study to determine suitability for surgical treatment. *Neurosurgery* 2015; 77(5):698-708.
9. P Park, **MY Wang**, S Nguyen, GM Mundis, F La Marca, JS Uribe, N Anand, DO Okonkwo, AS Kanter, R Fessler, RK Eastlack, D Chou, V Deviren, PD Nunley, CI Shaffrey, PV Mummaneni; International Spine Study Group. Comparison of Complications and Clinical and Radiographic Outcomes Between Non-Obese and Obese Patients With Adult Spinal Deformity Undergoing Minimally Invasive Surgery. *World Neurosurg* 2015 .
10. P Park, DO Okonkwo, S Nguyen, GM Mundis, KD Than, V Deviren, F La Marca, KM Fu, **MY Wang**, JS Uribe, N Anand, R Fessler, PD Nunley, D Chou, AS Kanter, CI Shaffrey, BA Akbarnia, PG Passias, RK Eastlack, PV Mummaneni, International

- Spine Study Group. Can a Minimal Clinically Important Difference Be Achieved in Elderly Patients With Adult Spinal Deformity Who Undergo Minimally Invasive Spinal Surgery? *World Neurosurgery* 2016; 86:168-172.
11. J Gernsback & **MY Wang**. Percutaneous pedicle screw placement into a spinal segment previously treated with vertebroplasty: Technical Case Report. Accepted for publication in *Journal of Neurosurgery: Spine*
 12. Chieng LO, Madhavan K, **Wang MY**. Deep brain stimulation as a treatment for Parkinson's disease related camptocormia. *J Clin Neurosci* 2015.
 13. **MY Wang**, G Widi, AD Levi. The Safety Profile of Lumbar Spinal Surgery in Elderly Patients ≥ 85 Years of Age. *Neurosurg Focus* 2015; 39(4):E3.
 14. MF Shamji, CL Goldstein, **MY Wang**, JS Uribe, & MG Fehlings. Minimally invasive spinal surgery in the elderly: Does it make sense? *Neurosurgery* 2015.
 15. PV Mummaneni, P Park, KM Fu, **MY Wang**, S Nguyen, V Lafage, JS Uribe, J Ziewacz, J Terran, DO Okonkwo, N Anand, R Fessler, AS Kanter, F LaMarca, V Deviren, RS Bess, FJ Schwab, JS Smith, BA Akbarnia, GM Mundis, CI Shaffrey. Does Minimally Invasive Percutaneous Posterior Instrumentation Reduce Risk of Proximal Junctional Kyphosis in Adult Spinal Deformity Surgery? A Propensity-Matched Cohort Analysis. *Neurosurgery* 2015;
 16. AA Patel AA, M Zfass-Mendez, NH Lebwohl, **MY Wang**, BA Green, AD Levi, S Vanni, SK Williams. Minimally Invasive Versus Open Lumbar Fusion: A Comparison of Blood Loss, Surgical Complications, and Hospital Course. *Iowa Orthop J.* 2015; 35:130-4.
 17. PV Mummaneni, P Park, KM Fu, **MY Wang**, S Nguyen, V Lafage, JS Uribe, J Ziewacz, J Terran, DO Okonkwo, N Anand, R Fessler, AS.Kanter, F LaMarca, V Deviren, RS Bess, FJ Schwab, JS Smith, BA Akbarnia, GM Mundis, CI Shaffrey, & the ISSG. Does minimally Invasive Percutaneous Posterior Instrumentation Reduce Risk of Proximal Junctional Kyphosis in Adult Spinal Deformity Surgery? A Propensity-Matched Cohort Analysis. *Neurosurgery* 2015; 78(1):101-108.
 18. JP de Rivero Vaccari, G Lotocki, SE Adamszack, **MY Wang**, MD Norenberg, WD Dietrich, RW Kean. Exosome-mediated inflammasome signaling after central nervous system injury. *Journal of Neurochemistry* 2015; (1): 2015.
 19. P Park, **MY Wang**, V Lafage, S Nguyen, J Ziewacz, DO Okonkwo, JS Uribe, RK Eastlack, N Anand, R Haque, RG Fessler, AS Kanter, V Deviren, F La Marca, JS Smith, CI Shaffrey, GM Mundis, PV Mummaneni. Comparison of two minimally invasive surgery strategies to treat adult spinal deformity. *Journal of Neurosurgery: Spine* 2015; 22(4):374-380.
 20. CP Hofstetter, AS Hofer, **MY Wang**. Economic impact of minimally invasive lumbar surgery. *World J of Orthop* 2015; 6(2):190-201.

21. FU Ahmad & **MY Wang**. Use of anteroposterior view fluoroscopy for targeting percutaneous pedicle screws in cases of spinal deformity with axial rotation. *Journal of Neurosurgery: Spine* 2014 Nov 21: 826-832.
22. D Lubelski, KE Mihalovich, AC Skelly, MG Fehlings, JS Harrop, PV Mummaneni, **MY Wang**, & MP. Steinmetz. Is minimal access spine surgery more cost-effective than conventional spine surgery? *Spine (Phila Pa 1976)*, 2014 Oct 15;39(22 Suppl 1):S65-74.
23. SS Dhall, R Wadhwa, **MY Wang**, A Tien, and PV Mummaneni. Traumatic thoracolumbar spinal injury: an algorithm for minimally invasive surgical management. *Neurosurgical Focus* 2014; 37(1):1-7.
24. AS Kanter, CI Shaffrey, PV Mummaneni, **MY Wang**, JS Uribe. Introduction: Adult spinal deformity: Pathophysiology and corrective measures. *Neurosurgical Focus*, 2014 May; 36(5): 1.
25. R Haque, G Mundis, Y Ahmed, TY El Ahmadih, **MY Wang**, PV Mummaneni, JS Uribe, DO Okonkwo, R Eastlack, N Anand, AS Kanter, F LaMarca, B Akbarnia, P Park, V Lafage, JS Terran, CI Shaffrey, E Klineberg, V Deviren, & RG Fessler. Comparison of Radiographic Results after Minimally Invasive, Hybrid and Open Surgery for Adult Spinal Deformity: A multicenter Study of 184 patients. *Neurosurgical Focus*, 2014 May; 36(5): 1-7.
26. JS Uribe, AR Deukmedjian, PV Mummaneni, KM Fu, G Mundis, DO Okonkwo, AS Kanter, R Eastlack, **MY Wang**, N Anand, RG Fessler, F LaMarca, P Park, V Lafage, V Deviren, S Bess, & CI Shaffrey, MIS-ISSG. Complications in Adult Spinal Deformity Surgery Related to Approach or Patient Characteristics? An Analysis of Minimally Invasive, Hybrid, and Open Techniques. *Neurosurgical Focus*, 2014 May; 36(5): 1-9.
27. PV Mummaneni, CI Shaffrey, LG Lenke, P Park, **MY Wang**, F LaMarca, J Smith, G Mundis, DO Okonkwo, B Moal, RG Fessler, N Anand, JS Uribe, AS Kanter, B Akbarnia, KM Fu, MIS-ISSG. The minimally invasive spinal deformity surgery algorithm: a reproducible rational framework for decision making in minimally invasive spinal deformity surgery. *Neurosurgical Focus*, 2014 May;36(5): 1-7.
28. **MY Wang**, PV Mummaneni, KM Fu, N Anand, DO Okonkwo, AS Kanter, , F LaMarca, RG Fessler, JS Uribe, CI Shaffrey, V Lafage, R Haque, V Deviren, & G Mundis, MIS-ISSG. Less Invasive Surgery for Treating Adult Spinal Deformities: Ceiling Effects for Deformity Correction with Three Different Techniques. *Neurosurgical Focus*, 2014 May; 36(5):1-8.
29. **MY Wang**, RR Vasudevan, & SA Mindea. Minimally invasive lateral interbody fusion for the treatment of rostral adjacent segment lumbar degenerative stenosis without supplemental pedicle screw fixation. *Journal of Neurosurgery: Spine* 2014.

30. J Johnson, MD Cummock, ADO Levi, BA Green, & **MY Wang**. Modest Hypothermia for Intradural Spinal Tumor Resection: A Cohort Comparison and Feasibility Study. *Therapeutic Hypothermia and Temperature Management* 2014, 4(3): 137-144.
31. FU Ahmad, C Sidani, R Fourzali, & **MY Wang**. Post-operative magnetic resonance imaging artifact with cobalt-chrome vs. titanium spinal instrumentation. *Journal of Neurosurgery: Spine*, 2013; 19(5):629-636.
32. **MY Wang**. Less invasive mini-open adult spinal deformity surgery. *Neurosurgical Focus*, 2013 Jul;35 (2 Suppl):Video1 (PMID: 23829839).
33. KS Cahill, AD Levi, MD Cummock, W Liao, and **MY Wang**. A Comparison of Acute Hospital Charges Following Tubular Versus Open Micro-Diskectomy. *World Neurosurgery*, 2012; 80(1-2):208-212.
34. K Madhavan & **MY Wang**. Mini-Open Pedicle Subtraction Osteotomy: Surgical Technique. Accepted for publication in *World Neurosurgery*.
35. **MY Wang**, S Williams, PV Mummaneni, & J Sherman. Minimally invasive percutaneous iliac screws: Initial 24 case experience with CT confirmation. *Journal of Spinal Disorders & Techniques*, 2012 Sep 25. (PMID: 23027366).
36. M Dididze, BA Green, WD Dietrich, S Vanni, **MY Wang**, AD Levi. Systemic Hypothermia in Acute Cervical Spinal Cord Injury – A Prospective Case Controlled Study. *Spinal Cord*, 2012.
37. **MY Wang**. Improvement of sagittal balance and lumbar lordosis following less invasive adult spinal deformity surgery with expandable cages and percutaneous instrumentation. *Journal of Neurosurgery: Spine*, 2013; 18(1):4-12 PMID:23101944.
38. F Ahmad, JD Sherman, & **MY Wang**. Percutaneous trans-facet screws for supplemental posterior cervical fixation: Technical report. *World Neurosurgery*, 2012; 78(6): 716.
39. AA Khalessi, G Zada, **MY Wang**, JF Calland. Introduction: Quality process improvement and the neurosurgeon. *Neurosurgical Focus*, 2012; 33(5):1.
40. K Cahill, J Martinez, **MY Wang**, S Vanni, & ADO Levi. Motor Nerve Injuries Following the Minimally Invasive Lateral Trans-Psoas Approach. *Journal of Neurosurgery: Spine*, 2012; 17(3):227-231.
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42. **MY Wang**. Percutaneous Iliac Screws for Minimally Invasive Spinal Deformity Surgery. *Minimally Invasive Surgery*, 2012; Article ID 173685:1-6.

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ABSTRACTS & POSTER PRESENTATIONS

1. Circumferential fusion for thoracolumbar adult deformity surgery: Effect of open versus percutaneous pedicle screw fixation after MIS lateral interbody fusion. Presented at the International Society for the Advancement of Spine Surgery (ISASS) Meeting, Las Vegas, Nevada, April 8, 2016.
2. The impact of minimally invasive spinal deformity surgery on ICU and hospital stay. Presented at the International Society for the Advancement of Spine Surgery (ISASS) Meeting, Las Vegas, Nevada, April 8, 2016.
3. “Awake” MIS TLIF without general anesthesia: Initial clinical and radiographic results with one-year follow-up. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 17, 2016, Orlando, Florida.
4. A critical analysis of sagittal plane deformity correction with minimally invasive surgery: A 2-year follow-up study of deformity patients categorized by the SRS-Schwab classification. *Neurosurgery*. 2015 Aug;62 Suppl 1:222-3.
5. What Is the Impact of Obesity in MIS vs OPEN Surgery for Adult Spinal Deformity? *Neurosurgery*. 2015 Aug;62 Suppl 1:221.
6. Endoscopic lumbar foraminoplasty: A cadaveric study. Presented at the 14th International Society for the Advancement of Spinal Surgery (ISASS14) Meeting, Miami Beach, Florida, April 30, 2014.
7. Exclusive Use of Extreme Lateral Lumbar Interbody Fusion for Treatment of Disc
8. Infection. Presented at the 14th International Society for the Advancement of Spinal Surgery (ISASS14) Meeting, Miami Beach, Florida, April 30, 2014.
9. Mini-open Pedicle Subtraction Osteotomy for the Correction of Spinal Deformities: Radiographic Results with Minimum One-year Follow-up. Presented at the International Society for the Advancement of Spine Surgery (ISASS) 14th Annual Meeting, Miami Beach, FL April 30 - May 2, 2014.
10. A prospective propensity matched cohort analysis of minimally invasive (MIS), hybrid (HYB), and open (OPEN) approaches for the treatment of adult spinal deformity (ASD). Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting, Las Vegas, Nevada, November 1-3, 2013.
11. Comparison of radiographic results after minimally invasive (MIS), hybrid (HYB), and open (OPEN) surgery for adult spinal deformity (ASD): A multicenter study of 184 patients. Presented at the 20th International Meeting on Advanced Spinal Techniques (IMAST) Meeting, Vancouver, British Columbia, July 10-13, 2013.
12. Does minimally invasive posterior instrumentation (PPI) prevent proximal junctional kyphosis (PJK) in adult spinal deformity (ASD) surgery? A prospectively acquired propensity matched cohort analysis. Presented at the 20th International Meeting on

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13. Are complications in adult spinal deformity (ASD) surgery related to approach or patient characteristics? A prospective propensity matched cohort analysis of minimally invasive (MIS), hybrid (HYB), and open (OPEN) approaches. Presented at the 20th International Meeting on Advanced Spinal Techniques (IMAST) Meeting, Vancouver, British Columbia, July 10-13, 2013.
14. A prospective propensity matched cohort analysis of minimally invasive (MIS), hybrid (HYB), and open (OPEN) approaches for the treatment of adult spinal deformity (ASD). Presented at the 20th International Meeting on Advanced Spinal Techniques (IMAST) Meeting, Vancouver, British Columbia, July 10-13, 2013.
15. Less invasive surgery for treating adult spinal deformities (ASD): Ceiling effects for Cobb angle correction with three different techniques. Presented at the 20th International Meeting on Advanced Spinal Techniques (IMAST) Meeting, Vancouver, British Columbia, July 10-13, 2013.
16. Acute hospitalization costs following minimally invasive versus open lumbar interbody fusion: Data from a U.S. national database with 6,106 patients. Presented at the Congress of Neurological Surgeons Meeting, October 18, 2010, San Francisco, California.
17. A prospective, randomized trial comparing expansile cervical laminoplasty vs. cervical laminectomy and fusion for multi-level cervical compressive myelopathy. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 17-20, 2010, Orlando, Florida.
18. Modest hypothermia for spinal cord untethering: a historical cohort comparison study. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 17-20, 2010, Orlando, Florida.
19. DuraSeal spinal sealant as an adjunct to sutured dural repair in the subaxial spine: Results of a prospective, multi-center, randomized controlled study. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 17-20, 2010, Orlando, Florida.
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 29. **MY Wang**. Ossification of the posterior longitudinal ligament in non-Asians: Demographic, clinical and radiographic findings. Presented at the CNS Annual Meeting, September 15-19, 2007, San Diego, California.
 30. JB Elder, DJ Hoh, **MY Wang**. Postoperative continuous paravertebral anesthetic infusion for pain control in posterior cervical spinal fusion surgery: A case control study. Presented at the CNS Annual Meeting, September 15-19, 2007, San Diego, California.
 31. **MY Wang**, A Farin, P Khoueir, JB Elder. Use of silicated bone graft extenders to promote cervical interbody fusion: Clinical and radiographic results in 67 treated patients. Presented at the CNS Annual Meeting, September 15-19, 2007, San Diego, California.
 32. **MY Wang**. Total facet arthroplasty in the treatment of spinal stenosis: Results from an ongoing IDE clinical trial. Presented at the World Spine IV Meeting, Istanbul, Turkey, August 1, 2007.

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34. M Moumene, W Mathis, J Harms, TJ Albert, RD Labrom, **MY Wang**. Assessment of screw loosening with pedicles screw based posterior dynamic stabilization systems. Presented at the 14th Annual IMAST Meeting, July 14, 2007, Paradise Island, Bahamas.
35. KA Kim, M McDonald, JHT Pik, A Taghva, & **MY Wang**. Dynamic interspinous spacer (DIAM) for posterior dynamic stabilization: VAS, MacNab outcomes and sagittal radiographic mean 29 month follow-up. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 8, 2007, Phoenix, Arizona.
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49. **MY Wang**, BA Green. Laminoplasty following failed anterior cervical surgery. Presented at the CNS Annual Meeting, October 18-23, 2003, Denver, Colorado.
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54. **MY Wang**, ADO Levi, M Baskaya, E Cascarella, R Sheth, L Silbert, BA Green. Canal expansion in relation to open door laminoplasty spacer size: A cadaveric study with clinical corroboration. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 8, 2003, Tampa, Florida.
55. **MY Wang**, ADO Levi, M Baskaya, E Cascarella, R Sheth, L Silbert, BA Green. Canal expansion in relation to open door laminoplasty spacer size: A cadaveric study with clinical corroboration. Presented at the CSRS Annual Meeting, December 7, 2002, Miami, Florida.

56. **MY Wang**, BA Green, E Cascarella, M Baskaya, ADO Levi, JD Guest. Minimally invasive cervical expansile laminoplasty: An initial cadaveric study. Presented at the CSRS Annual Meeting, December 7, 2002, Miami, Florida.
57. **MY Wang**, P Griffith, JG McComb, ML Levy. Traumatic spinal injuries in the pediatric population. Presented at the NASS Annual Meeting, October 30, 2002, Montreal, Canada.
58. **MY Wang**, BA Green, E Cascarella, M Baskaya, ADO Levi, JD Guest. Minimally invasive cervical expansile laminoplasty: An initial cadaveric study. Presented at the CNS Annual Meeting, September 23, 2002, Philadelphia, Pennsylvania.
59. **MY Wang**, ADO Levi, M Baskaya, E Cascarella, R Sheth, L Silbert, BA Green. Canal expansion in relation to open door laminoplasty spacer size: A cadaveric study with clinical corroboration. Presented at the CNS Annual Meeting, September 23, 2002, Philadelphia, Pennsylvania.
60. **MY Wang**, S Shah, A Sherman, S Vanni, ADO Levi, BA Green. Lumbar stenosis surgery in the fourth quartile of life. Presented at the CNS Annual Meeting, September 23, 2002, Philadelphia, Pennsylvania.
61. **MY Wang**, P Griffith, JG McComb, ML Levy. Traumatic spinal cord and spinal column injuries in the pediatric population. Presented at the CNS Annual Meeting, September 23, 2002, Philadelphia, Pennsylvania. Recipient of a "Blue Ribbon" for Pediatric Neurosurgery.
62. AS Wang, A Kirkpatrick, **MY Wang**, SD Giannotta. The impact of physician specialty on the time to occupational therapy referral for ischemic stroke patients. Presented at the AANS Annual Meeting, April 7, 2002, Chicago, Illinois.
63. **MY Wang**, D Commins, S Samudrala. Fibrocartilaginous mass mimicking tumor at C1/2. Presented at the AANS Annual Meeting, April 7, 2002, Chicago, Illinois.
64. **MY Wang**, D Fishback, MLJ Apuzzo, Z Petrovich, SD Giannotta. Gamma knife radiosurgery following subtotal resection of skull base tumors: Use of autologous fat graft to protect the optic nerve and chiasm. Presented at the AANS Annual Meeting, April 7, 2002, Chicago, Illinois.
65. **MY Wang**, P Griffith, GH Mahour, JG McComb, ML Levy. Head injury in 729 children who suffered unintentional falls. Presented at the AANS Annual Meeting, April 7, 2002, Chicago, Illinois.
66. **MY Wang**, P Wallace, JP Gruen. Brain death documentation: Analysis and issues. Presented at the AANS Annual Meeting, April 7, 2002, Chicago, Illinois.
67. **MY Wang**, DJ Hart, P Griffith, JG McComb, ML Levy. Traumatic spinal injuries in the pediatric population. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 27, 2002.

68. **MY Wang**, ADO Levi, SN Shah, BA Green. Mesh reconstruction of the anterior iliac crest after bone harvesting reduces early postoperative pain following anterior cervical fusion surgery. Presented at the Sofamor Danek Spine Fellows Meeting, November 15, 2001.
69. AP Amar, DW Larsen, N Enaashari, **MY Wang**, SD Lavine, GP Teitelbaum. Percutaneous transpedicular polymethylmethacrylate vertebroplasty for the treatment of spinal compression fractures. Presented at the CNS Annual Meeting, October 2, 2001, San Diego, California.
70. **MY Wang**, P Griffith, D Tilton, JG McComb, M Levy. Infant and child homicide in Los Angeles County Presented at the AANS/CNS Section on Pediatric Neurosurgery, December 6, 2000, San Diego, California.
71. **MY Wang**, J Armstrong, H Meiselman, JG McComb, M Levy. Pluronic surfactant polymer as a new bone hemostatic agent that does not inhibit osteogenesis. Presented at the AANS/CNS Section on Pediatric Neurosurgery, December 6, 2000, San Diego, California.
72. M Liker, M Levy **MY Wang**, JG McComb. Endoscopic fenestration of third ventricular arachnoid cysts. The American Association of Neurological Surgeons Meeting, April 2000, San Francisco, California.
73. CS Zee, **MY Wang**. Spinal instrumentation for the radiologist. The American Association of Spine Radiologists Meeting, February 2000, San Marco Island, Florida.
74. A Sauve, A Kirkpatrick, **MY Wang**, S Giannotta. Delays in the rehabilitation of stroke patients. The National Stroke Association Meeting, October 1999, Boston, Massachusetts.
75. S Masri, L Masri, **MY Wang**, M Levy. Gang-related craniocerebral gunshot wounds in Los Angeles. The American Association of Neurological Surgeons Meeting, April 1999, New Orleans, Louisiana.
76. S Lavine, L Masri, S Masri, **MY Wang**, M Levy. Penetrating Cranial Gunshot Wounds in Los Angeles. The American Association of Neurological Surgeons Meeting, April 1999, New Orleans, Louisiana.
77. L Masri, S Lavine, A Mohit, **MY Wang**, M Levy. Hospital length of stay in cranial gunshot wounds. The American Association of Neurological Surgeons Meeting, April 1999, New Orleans, Louisiana.
78. **MY Wang**, M Mittler, JG McComb, M Levy. Pineal Location PNET's in Children. The American Association of Neurological Surgeons Meeting, April 1999, New Orleans, Louisiana.
79. **MY Wang**, M Levy, W Gans, S Wisnejhi, R Adkins, JG McComb. Long-term outcome following gunshot wounds to the spine in children and adolescents. AANS 1999

80. **MY Wang**, R Mimran, S Lavine, S Giannotta. Posterior circulation aneurysms in a multi-ethnic population. The Joint Meeting of the AANS/CNS Section on Cerebrovascular Surgery, January 1999, Knoxville, Tennessee.
81. HL Wei, **MY Wang**, HT Yen, HS Yu. Arsenic inhibits UV-induced DNA excision repair by the enzyme ERCC-2. *J Invest Dermatol* 1994; 102:613
82. EN Unemori, N Ehsani, **MY Wang**, JS McGuire, EA Bauer, EP Amento. Transforming growth factor-alpha and interleukin 1-beta synergistically increase expression of procollagenase, the 92 kDa type IV collagenase, and prostaglandin E2 by human fibroblasts. *Clin Res* 1994; 41:246A
83. **MY Wang**, E Unemori, R Rudd, JS McGuire. Transforming growth factor-alpha upregulates type I collagenase production in fibroblasts from recessive dystrophic epidermolysis bullosa patients. *Clin Res* 1993; 41(1):39A

ORAL PRESENTATIONS

1. Hybrid approaches to adult deformity & current outcomes. Presented at the K2M Meeting of the Minds, Chicago, Illinois, April 23rd, 2016.
2. Moving in-patients to an out-patient setting. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Global Forum Meeting, Las Vegas, Nevada, November 7, 2015.
3. Awake TLIF. Presented at the 6th Annual International Summit Forum on Spinal Deformity and Minimally Invasive Techniques (SDMT), Shanghai, China, July 11, 2015.
4. Minimally invasive approach to the thoracolumbar spine. Presented at the 14th Annual Meeting of the Taiwan Neurosurgical Spine Society, Taipei, Taiwan, June 14, 2015.
5. Challenging cases in minimally invasive surgery: Pearls and pitfalls. Presented at the 14th Annual Meeting of the Taiwan Neurosurgical Spine Society, Taipei, Taiwan, June 13, 2015.
6. Surgical considerations of osteoporotic/geriatric patients. Presented at the 14th Annual Meeting of the Taiwan Neurosurgical Spine Society, Taipei, Taiwan, June 13, 2015.
7. Update on the management of spinal cord injury. Presented at the 14th Annual Meeting of the Taiwan Neurosurgical Spine Society, Taipei, Taiwan, June 13, 2015.
8. What are the limitations of MIS surgery for adult deformity? Presented at the AANS/SBN Special Symposium of the Global Spine Congress, May 21, 2015, Buenos Aires, Argentina.
9. My greatest disaster. Presented at the Controversies in Neurosurgery Meeting at the Royal Melbourne Hospital, Melbourne, Australia, November 21, 2014.
10. Stem cells and bone morphogenetic protein role in spine surgery – efficacy, risks, cost? Presented at the Controversies in Neurosurgery Meeting at the Royal Melbourne Hospital, Melbourne, Australia, November 21, 2014.
11. How minimal is minimally invasive? MIS vs. Open fusion – complications and results. Presented at the Controversies in Neurosurgery Meeting at the Royal Melbourne Hospital, Melbourne, Australia, November 21, 2014.
12. Surgical considerations and clinical implications for geriatric patients. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 8, 2014.
13. Minimally invasive lumbar fusion: Results and complications compared to open techniques. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 8, 2014.

14. Minimally invasive surgery for the cervical spine. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 7, 2014.
15. Traumatic injuries to the cervico-thoracic junction. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 7, 2014.
16. Cervical myelopathy: Anterior vs. posterior approach, timing of surgery, and meaning of MRI signal changes. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 7, 2014.
17. Spinal cord injury: Guidelines and best practices. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 7, 2014.
18. Minimally invasive spinal surgery: Future directions. Presented at the 6th International Mexican Congress of Neurosurgeons Meeting, Huatulco, Oaxaca, Mexico, November 7, 2014.
19. Course Co-Chairman. Peer to Peer: Current concepts in treating the adult spine. Sponsored by Depuy-Synthes, Inc., Miami, Florida, October 24-25, 2014.
20. MIS for Spinal Deformities. Presented at the XXX Congresso Brasileiro de Neurocirurgia, Curitiba, Brazil, September 18, 2014
21. Long fusion for spinal deformities. Presented at the XXX Congresso Brasileiro de Neurocirurgia, Curitiba, Brazil, September 17, 2014
22. Interactive Session: Instrumented fusion for neurogenic claudication with back pain. Presented at the XXX Congresso Brasileiro de Neurocirurgia, Curitiba, Brazil, September 17, 2014
23. “A Look into the future of minimally invasive spinal surgery.” Presented at the 2nd Annual International Congress on Minimally Invasive Technique in Neurosurgery (ISMINS), Xi’an, China, September 13, 2014.
24. “Minimally invasive surgery for spinal deformities.” Presented at the 2nd Annual International Congress on Minimally Invasive Technique in Neurosurgery (ISMINS), Xi’an, China, September 12, 2014.
25. Tips for cervical fusion. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 13, 2014.
26. Pitfalls in spinal instrumentation. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 13, 2014.
27. Recent considerations on the management of scoliosis. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 13, 2014.

28. Risk management for spinal instrumentation in the U.S.A. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 12, 2014.
29. The cutting edge of spinal surgery in the U.S. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 12, 2014.
30. Endoscopic lumbar foraminotomy. Presented at the 29th Annual Meeting of the Japanese Spine Society, Tokyo, Japan, June 12, 2014.
31. Occupational hazards for the spine surgeon. Presented at the 1st Annual Joint Orthopedics and Neurosciences Symposium & Workshop (12th Annual Caribbean Neurosciences Symposium & 19th Annual Orthopedic Conference), Montego Bay, Jamaica, February 1-2, 2014
32. Treatment of the Osteoporotic/Geriatric spine patient. Presented at the 1st Annual Joint Orthopedics and Neurosciences Symposium & Workshop (12th Annual Caribbean Neurosciences Symposium & 19th Annual Orthopedic Conference), Montego Bay, Jamaica, February 1-2, 2014
33. Biomarkers for acute SCI. Presented at the Miami Project Research Day, January 31, 2014, Miami, Florida.
34. Video Teleconference Lecture: “Expanding the limits of minimally invasive spine surgery” Presented to the 3a Reuniao de Cirurgia Raquidiana Minimamente Invasiva, November 29, 2013.
35. Minimally invasive approaches to the spinal patient. Presented at the 1st Annual Neurosurgery update for nursing staff at the University of Miami Hospital, October 14, 2014.
36. Therapeutic hypothermia for acute traumatic spinal cord injuries. Presented at the Neurosurgical Society of Australasia (NSA) Annual Meeting, Coolum, Queensland, Australia, October 4, 2013.
37. The best and worst case of my career. Presented at the Neurosurgical Society of Australasia (NSA) Annual Meeting, October 4, 2013.
38. Minimally invasive surgery for the treatment of spinal fractures and trauma. Presented at the Neurosurgical Society of Australasia (NSA) Annual Meeting, October 3, 2013.
39. Moderator, *Lumbar degenerative disc: herniation* (OP-SP-18). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 11, 2013.
40. Expanding the limits of minimally invasive spine surgery (Luncheon Symposium). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 11, 2013.
41. Bony fixation in the osteoporotic spine (MT-SP-03). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 11, 2013.

42. Percutaneous spinal fixation for fractures (Breakfast Seminar BF-SP-03). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 11, 2013.
43. Alternatives to traditional laminectomy for spinal decompression (Breakfast Seminar BF-SP-12). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 10, 2013.
44. MIS Fusion and Instrumentation (Breakfast Seminar BF-SP-11). Presented at the 15th World Congress of Neurosurgery. Seoul, Korea, September 9, 2013.
45. The latest and greatest in minimally invasive spine surgery. Presented at the 4th Annual ONE Spine Residents and Fellows Course. Seattle, Washington, August 17, 2013.
46. Hypothermia as a neuroprotectant for acute spinal cord injury. Presented at the 3rd Annual Reynolds Family Spinal Cord Injury Research Symposium. Newark, New Jersey, May 8, 2013.
47. Lateral and MIS approaches for treating spondylolisthesis. Presented at the LSRS Special Symposium of the Global Spine Congress, April 5, 2013, Hong Kong.
48. Minimally invasive surgery for adult spinal deformity. Presented at the 12th Annual PAMISS (Pacific and Asian Society of Minimally Invasive Spinal Surgery). August 17, 2012, Xi'an, China.
49. Minimally invasive surgery for spinal deformities: Yes or No? Presented at the 35th Annual Congresso Latin-Americano de Neurocirurgia (CLAN) Meeting, April 2, 2012, Rio de Janeiro, Brazil.
50. Hypothermia for the treatment of traumatic spinal cord injury. Presented at the 35th Annual Congresso Latin-Americano de Neurocirurgia (CLAN) Meeting, April 2, 2012, Rio de Janeiro, Brazil.
51. Improvement of sagittal balance and lumbar lordosis following less invasive adult spinal deformity with expandable cages and percutaneous instrumentation. Presented at the Society of University Neurosurgeons Meeting, March 21, 2010, Atlanta, Georgia.
52. New advances in minimally invasive spine surgery. Presented at the 5th International Conference of Neurosurgery Meeting, November 19, 2010, Shanghai, China.
53. Minimally invasive surgery for the Cervical Spine. Presented at the 5th International Congress of the Chinese Orthopedic Association Meeting, November 12, 2010, Cheng Du, China.
54. Minimally invasive spine surgery at the University of Miami. Presented at the Society of University Neurosurgeons Meeting, March 22, 2010, Miami, Florida.
55. Cahill Memorial Controversies Session: Lumbar disc fragmentectomy vs. aggressive discectomy. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 20, 2010, Orlando, Florida.

56. Pre-meeting Course Co-Chair: Advanced MIS Techniques/Managing MIS Complications. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 17, 2010, Orlando, Florida.
57. Minimal access surgery for the treatment of SCI following the January 12, 2010 Haiti Earthquake. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 18, 2010, Orlando, Florida.
58. An analysis of postoperative thigh symptoms after transpsoas interbody fusion. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 19, 2010, Orlando, Florida.
59. Minimally invasive approaches for lumbar stenosis. Presented at “New trends in instrumentation and techniques in spinal surgery,” June 12, 2009, Sabaudia, Italy.
60. Laparoscopic and noninvasive approaches . Presented at “New trends in instrumentation and techniques in spinal surgery,” June 12, 2009, Sabaudia, Italy.
61. The future of minimalism in spinal neurosurgery. Presented at the USC Neurosurgery Academic Conference, May 1, 2009, Los Angeles, California.
62. Minimally invasive cervical foraminotomy. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 29, 2008.
63. Lumbosacral spine trauma. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 29, 2008.
64. Minimally invasive surgery for the cervical spine. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 10, 2007, Phoenix, Arizona.
65. Post-operative continuous paravertebral anesthetic infusion for pain control in lumbar spinal fusion surgery. Presented at the CNS Annual Meeting, October 9, 2006, Chicago, Illinois.
66. Morphologic predictors of SPECT positive facetogenic pain in magnetic resonance imaging. Presented at the AANS Annual Meeting, April 26, 2006, San Francisco, California.
67. Update on the Sanford Larson Award: Formation of a prospective radiographic and clinical outcomes group to assess lumbar artificial disc technology. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 18, 2006, Orlando, Florida.
68. Minimally invasive lateral mass screws in the cervical spine: Long-term outcomes. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 17, 2006, Orlando, Florida.

69. Morphologic predictors of SPECT positive facetogenic pain in magnetic resonance imaging. To be presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 17, 2006, Orlando, Florida.
70. C2 crossing laminar screws: Cadaveric morphometric analysis. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 10, 2005, Phoenix, Arizona.
71. Use of resorbable polylactic acid interbody spacers and vertebral autograft for anterior cervical discectomy and fusion. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 10, 2005, Phoenix, Arizona.
72. Cadaveric morphometric analysis for atlantal lateral mass screw placement. Presented at the AANS Annual Meeting, May 4, 2004, Orlando, Florida.
73. ACGME resident duty hour restrictions: Initial survey results and strategies for compliance. Presented at the AANS Annual Meeting, May 6, 2004, Orlando, Florida.
74. *Mayfield Award Lecture*: Reliability of 3-D fluoroscopy for detecting pedicle violations in the thoracic and lumbar spine. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 17, 2004, San Diego, California.
75. Minimally access approaches in posterior cervical surgery. Presented at the Western Neurosurgical Meeting, September 24, 2003, Kona, Hawaii.
76. Minimally invasive surgery in the posterior cervical spine. Presented at the SUNS Meeting, June 26, 2003, New York City, New York.
77. Minimally invasive cervical laminoplasty: cadaveric study and early clinical experience. Presented at the AANS/CNS Section on Spine and Peripheral Nerves Meeting, March 8, 2003, Tampa, Florida.
78. Pluronic surfactant as a bone hemostasis agent that does not impair osteogenesis. Presented at the AANS Meeting, April 24, 2001, Toronto, Canada.
79. Infant and child homicide in Los Angeles County. Presented at the Congress of Neurological Surgeons Meeting, September 26, 2000, San Antonio, Texas.
80. A Prospective Population-Based Study of Pediatric Trauma Patients with a Field Glasgow Coma Score 13-14. Presented at the Congress of Neurological Surgeons Meeting, September 25, 2000, San Antonio, Texas.
81. Delays in the Treatment of Patients with Subarachnoid Hemorrhage. Presented at the Congress of Neurological Surgeons Meeting, September 25, 2000, San Antonio, Texas.
82. Pluronic surfactant as a bone hemostasis agent that does not impair osteogenesis. Presented at the Western Neurosurgical Society Meeting, September 12, 2000, Kona, Hawaii.

83. Endoscopic fenestration of third ventricular arachnoid cysts. Presented at the AANS/CNS Section on Pediatric Neurosurgery, December 4, 1999, Atlanta, Georgia.
84. A Prospective Population-Based Study of Pediatric Trauma Patients with Mild Alterations in Consciousness (Field Glasgow Coma Score 13-14). Presented at the AANS/CNS Section on Pediatric Neurosurgery Meeting, December 4, 1999, Atlanta, Georgia.
85. Minimally Invasive Craniotomy to Fenestrate Middle Fossa Arachnoid Cysts. Presented at the AANS/CNS Section on Pediatric Neurosurgery Meeting, December 2, 1999, Atlanta, Georgia.
86. Pineal Location PNET's in Children. Presented at the AANS/CNS Section on Pediatric Neurosurgery Meeting, December 4, 1998, Indianapolis, Indiana.

INSTRUCTION FOR INVITED, CME-ACCREDITED LECTURES, SEMINARS, & PRACTICAL COURSES

1. Breakfast Seminar 307: Spondylolisthesis: Controversies in management. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 4, 2016.
2. Treatment options for isthmic spondylolisthesis and back pain. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 4, 2016.
3. Breakfast Seminar 218: New and evolving technologies for minimally invasive lumbar disc surgery. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 3, 2016.
4. Breakfast Seminar 121: Becoming an exceptional advanced practice provider in neurosurgery—Pearls from your peers. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 2, 2016.
5. Plenary Session Lecture #601: “Awake” MIS TLIF without general anesthesia: Initial clinical and radiographic results with one-year follow-up. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 2, 2016.
6. Moderator, International Symposium. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 1, 2016.
7. PC024 Course Chair: Endoscopic lumbar spine surgery Cadaveric hands-on course. Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 1, 2016.
8. PC032: “Where to start and stop a deformity construct?” Presented at the 84th Annual American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois DC, May 1, 2016.
9. Moderator, “General Session: MIS-4.” Presented at the International Society for the Advancement of Spine Surgery (ISASS) Meeting, Las Vegas, Nevada, April 8, 2016.
10. “Multilevel MIS TLIF for ASD.” Presented at the International Society for the Advancement of Spine Surgery (ISASS) Meeting, Las Vegas, Nevada, April 7, 2016.
11. Moderator, “General Session: Value and outcomes in spine surgery.” Presented at the International Society for the Advancement of Spine Surgery (ISASS) Meeting, Las Vegas, Nevada, April 7, 2016.
12. “What is the ‘Worth’ of a Neurosurgeon?” Presented at the University of Miami Neurosurgery Grand Rounds, Miami, Florida, March 24, 2016.

13. “The growing role of lateral MIS surgery in deformity correction.” Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 17, 2016, Orlando, Florida.
14. Cahill Controversies Debate “MIS short segment percutaneous fixation.” Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 18, 2016, Orlando, Florida.
15. “Awake” lumbar spinal fusion. Presented at the Society of University Neurosurgeons Meeting, Phoenix, Arizona, March 12, 2016.
16. “Challenges of the DDD diagnosis.” Presented at the Biologic interventions for spinal pathologies: Stem cells, growth factors, and novel therapeutics meeting (North American Spine Foundation), Palm Beach Gardens, Florida, February 5, 2016.
17. “Stem cells and pharmacologic/systemic intervention.” Presented at the Biologic interventions for spinal pathologies: Stem cells, growth factors, and novel therapeutics meeting (North American Spine Foundation), Palm Beach Gardens, Florida, February 5, 2016.
18. Moderator, Session #7 – Free Papers. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Global Forum Meeting, Las Vegas, Nevada, November 7, 2015.
19. Panelist, Expert case discussion: Deformity and revision. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Global Forum Meeting, Las Vegas, Nevada, November 7, 2015.
20. Centennials are coming: Get your MISS tools ready. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Global Forum Meeting, Las Vegas, Nevada, November 6, 2015.
21. Minimally invasive screw placement. Presented at the AANS/NREF Fundamentals in Spinal Surgery Course for Residents, October 23-24, 2015, Houston, Texas.
22. Moderator: Best Papers Section on Minimally Invasive Procedures. Presented at the 30th Annual North American Spine Society (NASS) Annual Meeting, Chicago, Illinois, October 15, 2015.
23. Moderator: Advancements in the management of postoperative pain with or without opioids. Presented at the 30th Annual North American Spine Society (NASS) Annual Meeting, Chicago, Illinois, October 14, 2015.
24. Course Director, Minimally Invasive Surgery Instructional Course. Presented at the 30th Annual North American Spine Society (NASS) Annual Meeting, Chicago, Illinois, October 13, 2015.
25. “Advancements in biologics and implant technology: Effects on spinal surgery outcomes.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 28, 2015.

26. Hot Topics 2: “Cervical and lumbar adjacent level breakdown: Lami or arthroplasty.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 28, 2015.
27. General Scientific Session III: “MIS for deformity spine surgery.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 29, 2015.
28. Luncheon Seminar T14: “Cervical arthroplasty and lumbar motion.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 29, 2015.
29. Controversy Session 2: “Surgery vs. conservative care for cervical myelopathy.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 29, 2015.
30. Dinner Seminar 4: “Surgery vs. conservative care for cervical myelopathy.” Presented at the 65th Annual Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 29, 2015.
31. What is the role of MIS in adult deformity: Can we achieve similar results and outcomes? Presented at the Spine Across the Sea and Japanese Society for Spine Surgery and Related Research Meeting. Kona, Hawaii, July 28, 2015.
32. Mini-Open Pedicle Subtraction Osteotomy as a treatment for severe adult spinal deformities: case series with initial clinical and radiographic outcomes. Presented at the Society of University Neurosurgeons Meeting, Beijing, China, July 13, 2015.
33. “Spinal surgery at the University of Miami” presented at the 95th Society of Neurological Surgeons Meeting, Miami, Florida, June 7, 2015.
34. “Defending the lateral approach for Spondylolisthesis” presented at the VuMedi Webinar course, May 13, 2015.
35. Moderator, Dinner Seminar 132: “Minimally invasive spinal surgery.” Presented at the 83rd Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 35 2015.
36. Breakfast Seminar 212: “Awake surgery for lumbar spondylolisthesis.” Presented at the 83rd Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 5, 2015.
37. Breakfast Seminar 122: “Anterior, anterolateral, and lateral approached for lumbar spine fusion.” Presented at the 83rd Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 4, 2015.
38. Breakfast Seminar 118: “Degenerative Spondylolisthesis: Indications for decompression/fusion; posterior approaches; results/outcomes for back pain/radiculopathy/stability. TLIF rational, results and technique.” Presented at the 83rd

Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 4, 2015.

39. Moderator, International Symposium. Presented at the 83rd Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 3, 2015.

40. PC018: "When is MIS indicated for deformity?" Presented at the 83rd Annual American Association of Neurological Surgeons Annual Meeting, Washington DC, May 2, 2015.

41. "Awake Minimally Invasive TLIF for Spondylolisthesis" presented at the VuMedi Webinar course, April 27, 2015.

42. "Percutaneous lumbar discectomy." Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 5, 2015, Phoenix, Arizona.

43. "Treating patients with spondylolisthesis: My approach." Presented at the SMISS/Spine Section Seminar of the AANS/CNS Section on Spine and Peripheral Nerves, March 4, 2015, Phoenix, Arizona.

44. Review of Spine Studies. Presented at the AANS Maintenance of Certification Review Course, Las Vegas, Nevada, February 21, 2015.

45. Spine I. Presented at the AANS Maintenance of Certification Review Course, Las Vegas, Nevada, February 21, 2015.

46. Faculty Hot Topic Debate: "Lumbar Stenosis with Grade I Spondylolisthesis - MIS Decompression and Fusion." Presented at the Congress of Neurosurgeons Spine Complications Course, Lake Tahoe, California, January 28, 2015.

47. How Do You Avoid Plexus Injury During Lateral Interbody Fusion? "MIS Deformity Surgery: Does this make sense?" Presented at the Congress of Neurosurgeons Spine Complications Course, Lake Tahoe, California, January 28, 2015.

48. Lateral Lumbar Interbody Fusion: Pearls and Complication Avoidance. Presented at the Congress of Neurosurgeons Spine Complications Course, Lake Tahoe, California, January 26, 2015

49. Moderator; Presented at the Congress of Neurosurgeons Spine Complications Course, Lake Tahoe, California, January 26, 2015

50. "MIS approaches to lumbar degenerative pathology: Where is the incremental value." Presented at the 25th Annual Spine Base to Summit Meeting, Beaver Creek, Colorado, January 17, 2015.

51. Morning Crossfire: "Why I strongly favor MIS interbody fusion and posterior instrumentation in most cases." Presented at the 25th Annual Spine Base to Summit Meeting, Beaver Creek, Colorado, January 17, 2015.

52. Effective correction in minimally invasive degenerative lumbar scoliosis surgery can be achieved. Presented at the 29th Annual North American Spine Society (NASS) Annual Meeting, San Francisco, California, November 15, 2014.
53. Effective fixation in minimally invasive degenerative lumbar scoliosis surgery can be achieved. Presented at the 29th Annual North American Spine Society (NASS) Annual Meeting, San Francisco, California, November 15, 2014.
54. Moderator: Advancements in the management of postoperative pain with or without opioids. Presented at the 29th Annual North American Spine Society (NASS) Annual Meeting, San Francisco, California, November 13, 2014.
55. Course Director, Minimally Invasive Surgery Instructional Course. Presented at the 29th Annual North American Spine Society (NASS) Annual Meeting, San Francisco, California, November 11, 2014.
56. Present and future strategies in minimally invasive spine surgery. Presented at the 6th Annual National Neuroscience Conference, Sponsored by Capital Institute for Neurosciences, Atlantic City, New Jersey, October 23, 2014.
57. Panelist, Luncheon Seminar T12: Cervical arthroplasty and lumbar motion preserving technologies. Presented at the 64th Annual Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, October 21, 2014.
58. Dinner Seminar 1: “Treating one level disc herniation with radiculopathy: ACDF vs. Arthroplasty vs. Posterior approach. Presented at the 64th Annual Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, October 18, 2014.
59. Minimally invasive screw placement. Presented at the AANS/NREF Fundamentals in Spinal Surgery Course for Residents, October 4, 2014, Houston, Texas.
60. Management of cervical perched and jumped facets. Presented at the AANS/NREF Fundamentals in Spinal Surgery Course for Residents, October 2, 2014, Houston, Texas.
61. Current Surgical Strategies for Cervical Radiculopathy: A Case-Based VuMedi Webinar. Presented August 26, 2014.
62. Moderator, Technique Workshop on Minimally Invasive Spine Surgery. Presented at the NASS Summer Spine Meeting, Amelia Island, Florida, July 25, 2014.
63. Challenging MIS Cases. Presented at the NASS Summer Spine Meeting, Amelia Island, Florida, July 25, 2014.
64. Lumbar spondylolisthesis: The case for MIS TLIF. Presented at the NASS Summer Spine Meeting, Amelia Island, Florida, July 25, 2014.
65. MIS Cervical Complications. Presented at the NASS Summer Spine Meeting, Amelia Island, Florida, July 25, 2014.

66. Moderator, Cadaver Lab Lecture Session. Presented at the 14th Annual Meeting of the International Society for the Advancement of Spinal Surgery, Miami, Florida, May 2, 2014.
67. Moderator, Cross Talk Session on multi-level cervical degenerative disc disease. Presented at the 14th Annual Meeting of the International Society for the Advancement of Spinal Surgery, Miami, Florida, May 1, 2014.
68. Moderator, Dinner Seminar IV: “Beyond through the tube-When and when not to use MIS.” Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 21, 2013.
69. Minimally invasive approaches to spinal neoplastic disease. Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 8, 2014.
70. Breakfast Seminar 112. Spondylolisthesis: Controversies in management. Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 7, 2014.
71. Course Faculty, Practical Course 036. Thoracic and lumbar stabilization and fusion: Indications and techniques. Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 6, 2014.
72. Cervical spine trauma. Presented at the CNS SANS MOC Board Review Course, Orlando, Florida, March 8, 2014.
73. “Minimally invasive case presentations” presented at the AO North America Webinar course, February 26, 2014.
74. Complication avoidance and management. Presented at the AO Spine Course on Minimally invasive spinal surgery and navigation with a hands on bioskills lab course, Tampa, Florida, February 22, 2014.
75. Debate II: Direct lateral vs. Transforaminal interbody fusion for lumbar degenerative fusion (XLIF vs. TLIF). Presented at the 65th Southern Neurosurgical Society Annual Meeting, San Juan, Puerto Rico, February 21, 2014.
76. Posterior approaches are superior to lateral approaches for MIS deformity correction. Presented at the International Society of the Advancement of Spine Surgery (ISASS) Minimally Invasive Course, Las Vegas, Nevada, January 17, 2014.
77. Hot off the press—Future technologies and techniques to advance MIS spine surgery. Presented at the CNS Spine Complications Course, Jackson Hole, Wyoming, January 14, 2014.
78. The latest technology for minimally invasive surgery. Presented at the CNS Spine Complications Course, Jackson Hole, Wyoming, January 14, 2014.

79. Debate: Innovations in less invasive surgery will result in improved outcomes. Presented at the CNS Spine Complications Course, Jackson Hole, Wyoming, January 14, 2014.
80. What's next in minimally invasive surgery? Presented at the CNS Spine Complications Course, Jackson Hole, Wyoming, January 14, 2014.
81. "Minimally invasive surgery for complex spinal pathologies" presented at the AO North America Webinar course, February 26, 2014.
82. MIS Posterior Stabilization: Fusion, Non Fusion. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Las Vegas, Nevada, November 2, 2013.
83. Moderator, Session #10, Part 1: Case Presentation and Surgical Options, at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Las Vegas, Nevada, November 2, 2013.
84. "When is neuromonitoring necessary?" Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 23, 2013.
85. Panelist, Luncheon Seminar W43: Cellular therapies in neurosurgery. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 23, 2013.
86. Panelist, Luncheon Seminar T20: The aging spine: Considerations in surgical management. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 22, 2013.
87. Moderator, Dinner Seminar 3: "Beyond through the tube-When and when not to use MIS. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 21, 2013.
88. Panelist, Luncheon Seminar M05: Managing complications of cervical and lumbar surgery. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 21, 2013.
89. Moderator, General Scientific Session 2. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 21, 2013.
90. Moderator, Congress of Neurological Surgeons Innovation and Technology Symposium. Presented at the 63rd Annual Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 19, 2013.
91. Course Director, Minimally Invasive Surgery Instructional Course. Presented at the North American Spine Society (NASS) Annual Meeting, New Orleans, Louisiana, October 8, 2013.

92. Less invasive surgery for spinal deformities. Presented at The Innovative and Advanced Surgery of the Degenerative and Deformed Lumbar Spine Course, St. Louis, Missouri, September 27, 2013.
93. Moderator, General Session: Spine trauma and surgery. Presented at the NASS Summer Spine Meeting, Naples, Florida, August 3, 2013.
94. Adverse events and controversies of off-label rhBMP-2. Presented at the NASS Summer Spine Meeting, Naples, Florida, August 3, 2013.
95. MIS TLIF: Evolution and Evidence. Presented at the NASS Summer Spine Meeting, Naples, Florida, August 1, 2013.
96. MIS: Cost/Outcomes/Complications. Presented at the NASS Spine Summer Meeting, Naples, Florida, August 1, 2013.
97. Course Chairman, MIS Interbody Fusion: Competencies and Challenges Course. Sponsored by the Society for Minimally Invasive Spine Surgery (SMISS), May 18, 2013, Miami, Florida.
98. Less Invasive (Hybrid – Mini–Open and Percutaneous) Approaches to Complex Spinal Disorders (Including Tumors And Obese Patients). Presented at the American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, May 1, 2013.
99. Panelist, SE130 Biologics and Spine Fusion Dinner Symposium. Presented at the American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, April 30, 2013.
100. Course Faculty, Practical Course 04: Thoracic and lumbar stabilization and fusion: Indications and techniques. Presented at the American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, April 27, 2013.
101. Selective indications for minimally invasive spinal deformity correction. Presented at the PASE “Contemporary techniques in minimally invasive cervical and lumbar spine surgery” course, April 11-13, 2013, St. Louis, Missouri.
102. Principles of minimally invasive surgery for spinal deformity. Presented at the AANS Residents’ Deformity Course, May 7, 2010, Baltimore, Maryland.
103. Lateral approaches for spinal deformity. Presented at the AANS Residents’ Deformity Course, May 7, 2011, Baltimore, Maryland.
104. Paper Discussant: Comparative effectiveness and cost-benefit analysis of topical Vancomycin powder in posterior spinal fusion for spine trauma and degenerative spine disease. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 8, 2013, Phoenix, Arizona.

105. Moderator, Scientific Session IV: Oral Poster Presentations, at the AANS/CNS Section on Spine and Peripheral Nerves, March 7, 2013, Phoenix, Arizona.
106. Pre-meeting Course Co-Chair: Special Course IV Advanced MIS Techniques/Managing MIS Complications. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 6, 2013, Phoenix, Arizona.
107. *Minimally invasive spinal deformity surgery*. Presented at the Florida International University/Baptist Health Miami Neuro Symposium, Miami, Florida, December 8, 2012.
108. *Minimally invasive cervical fixation*. Presented at the Instructional Course of the 40th Cervical Spine Research Society (CSRS) Meeting, Chicago, Illinois, December 5, 2012.
109. *Socratic Debate: Response to "Why MIS Does Not Work"*. Presented at the 6th Annual Minimally invasive spinal surgery and navigation meeting at Weill Cornell Medical School. New York City, New York, December 1, 2012.
110. Session Moderator: "Minimally Invasive Surgery." Presented at the North American Spine Society 27th Annual Meeting, Dallas, Texas, October 25, 2012.
111. "Odontoid screws/Anterior Cervical Discectomy and Plate/Cervical Corpectomy and Strut Insertion." Presented at the North American Spine Society 27th Annual Meeting, Dallas, Texas, October 24, 2012.
112. Co-Chair, NASS Minimally Invasive Spine Surgery. Presented at the North American Spine Society 27th Annual Meeting, Dallas, Texas, October 23, 2012.
113. Luncheon Seminar: Complication avoidance and advanced MIS applications. Presented at the Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, October 9, 2012.
114. Papel de la cirugía MIS en deformidades. Presented at Cirugia MIS. Porque que no? Murcia, Spain, October 5, 2012.
115. What is Advanced Minimally Invasive Surgery? Presented at the First Annual Advanced Minimally Invasive Surgery Symposia. Barcelona, Spain, October 4, 2012.
116. Moderator, Session #2 at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Miami, Florida, September 22, 2012.
117. Cadaver course faculty for the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Miami, Florida, September 21, 2012.
118. Course Co-Director: "Minimally invasive spine surgery" presented at NASS, October 23, 2012, Dallas, Texas.
119. "Tips, pearls and complications: Percutaneous screws." Presented at the Minimally Invasive Lateral Interbody Fusion Course sponsored by the American Association of Neurological Surgeons, Chicago, Illinois, June 30, 2010.

120. “Minimally invasive and extreme lateral options for treating lumbar degenerative spondylolisthesis” presented at the LSRS VuMedi Webinar course, June 25, 2012.
121. Moderator, Scientific Session II - Spine. Presented at the American Association of Neurological Surgeons Annual Meeting, Miami, Florida, April 17, 2012.
122. Course Faculty, Practical Course #15 Current surgical techniques and approaches to MIA spine surgery. Presented at the American Association of Neurological Surgeons Annual Meeting, Miami, Florida, April 15, 2012.
123. Course Faculty, Practical Course #10 Thoracic and lumbar stabilization and fusion: Indications and techniques. Presented at the American Association of Neurological Surgeons Annual Meeting, Miami, Florida, April 15, 2012.
124. MIS Cervical instrumentation. Presented at the AAOS “Contemporary techniques in minimally invasive cervical and lumbar spine surgery” course, March 24, 2012, St. Louis, Missouri.
125. Pre-meeting Course Co-Chair: Advanced MIS Techniques/Managing MIS Complications. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 7, 2012, Orlando, Florida.
126. Moderator, Scientific Session: Complication avoidance and management. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 9, 2012, Orlando, Florida.
127. *Progress in SCI Hypothermia*. Presented at the 2nd Annual Therapeutic Hypothermia and Temperature Management Meeting. Miami, Florida, March 2, 2012.
128. *MIS Spine Surgery Overview*. Presented at Controversies in Complex Spine Surgery. Sponsored by AO Spine North America. Salt Lake City, Utah, February 17, 2012.
129. *Laminectomy & fusion: Better than laminoplasty?* Presented at the 5th Annual Spine on the Mountain Meeting. Vail, Colorado, January 27, 2012.
130. *Neuroprotection and repair after spinal cord injury*. Presented at the AAPM&R Annual Assembly Meeting. Orlando, Florida, November 18, 2011.
131. *Minimally invasive spinal surgery*. Presented at the 5th Annual Kaiser Neurosurgery Symposium. Newport Beach, California, November 5, 2011.
132. *Minimally invasive burst fracture treatment*. Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Las Vegas, Nevada, October 22, 2011.
133. Moderator, *Dinner Seminar IV: Spinal arthroplasty fact or fiction?* Presented at the CNS Annual Meeting, Washington DC, October 5, 2011.

134. *Arthrodesis in the era of minimally invasive fusion procedures and biologic graft augmentation: Incidence of pseudarthrosis and treatment.* Presented at the CNS Annual Meeting, Washington DC, October 4, 2011.
135. *Cervicothoracic junction spinal biomechanics*, presented at *Practical Workshop 08: Spinal Biomechanics*. Presented at the CNS Annual Meeting, Washington DC, October 1, 2011.
136. "A team-based approach to spinal cord injury: The neurosurgeon's perspective," presented at the 29th Annual Florida Society of Critical Care Medicine, Marco Island, Florida, September 4, 2011.
137. Breakfast Seminar Panelist: Spinal surgical challenges. Presented at the American Association of Neurological Surgeons Annual Meeting, Denver, Colorado, April 13, 2011.
138. Moderator, Scientific Session II - Spine. Presented at the American Association of Neurological Surgeons Annual Meeting, Denver, Colorado, April 11, 2011.
139. MIS Complication Case Discussion. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 10, 2011, Phoenix, Arizona.
140. Moderator, Scientific Session I: Evidence-based spine surgery in the real world. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 10, 2011, Phoenix, Arizona.
141. Pre-meeting Course Co-Chair: Advanced MIS Techniques/Managing MIS Complications. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 9, 2011, Phoenix, Arizona.
142. *Guest Lecture: Minimally invasive trauma surgery for the compromised patient.* Presented at the (BASS) British Association of Spine Surgeons Meeting. Edinburgh, Scotland, February 3, 2011.
143. *Microsurgical anatomy of the modified Wiltse approach.* Presented at the Indications and controversies: Minimally invasive spinal surgery and navigation meeting at Weill Cornell Medical School. New York City, New York, December 3, 2010.
144. *Subaxial myelopathy: Posterior treatment strategies.* Presented at the Instructional Course of the 38th Cervical Spine Research Society (CSRS) Meeting, Charlotte, North Carolina, December 1, 2010.
145. *SCI Clinical trials Update.* 8th annual pediatric and brain spinal cord injury conference. Miami, Florida, November 8, 2010.
146. Co-Moderator, *Section on Disorders of the Spine & Peripheral Nerves: Management of spinal column and peripheral nerve neoplasms.* CNS Annual Meeting, San Francisco, California, October 20, 2010.

147. Moderator, *Dinner Seminar II: Spinal arthroplasty fact or fiction?* CNS Annual Meeting, San Francisco, California, October 20, 2010.
148. *Bone morphogenetic protein is not safe*, presented at *Consensus Session III: Is bone morphogenetic protein usage in spinal surgery safe, effective, and worth the cost?* CNS Annual Meeting, San Francisco, California, October 19, 2010.
149. Course Co-Director, *Special Course I: Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine*. CNS Annual Meeting, San Francisco, California, October 18, 2010.
150. Course Director, *Practical Course 32: Update on Spinal Surgery Indications and Technique*. CNS Annual Meeting, San Francisco, California, October 17, 2010.
151. *Minimally invasive and lateral approaches for spinal deformity*, presented at *Practical Course 20: Update on Spinal Deformity Surgery and Principles*. CNS Annual Meeting, San Francisco, California, October 17, 2010.
152. *Cervicothoracic junction spinal biomechanics*, presented at *Practical Workshop 08: Spinal Biomechanics*. CNS Annual Meeting, San Francisco, California, October 16, 2010.
153. *Improving fusion and patient outcomes using MIS techniques*. Presented at the Inaugural Minimally Invasive Neurosurgical Society (MINS) Meeting, Mackinac Island, Michigan, August 13, 2010.
154. *The role of minimally invasive approaches in spinal surgery*. Presented at the Minimally Invasive Technologies (MIT) Forum, sponsored by the Florida International University Wertheim School of Medicine, Miami, Florida, July 1, 2010.
155. "Complications of the trans-psoas approach." Presented at the Direct Lateral Course sponsored by the American Association of Neurological Surgeons, Chicago, Illinois, May 22, 2010.
156. Congress of Neurological Surgeons Webinar: "Controversies in the acute medical management of spinal cord injuries" via Cisco WebEx. May 18, 2010.
157. Breakfast Seminar: Complications and complex spinal surgery: Lessons learned. Presented at the American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 5, 2010.
158. Paper Discussant, "Intermediate segment degeneration after noncontiguous anterior cervical fusion. Presented at the American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 3, 2010.
159. Moderator, Scientific Session II - Spine. Presented at the American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 3, 2010.

160. Course Faculty, Practical Course #23 Thoracic and lumbar stabilization and fusion: Indications and techniques. Presented at the American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 2, 2010.
161. *Therapeutic hypothermia for spinal cord injury*. Presented at the University of Miami Department of Rehabilitation and Physical Medicine Grand Rounds, March 25, 2010, Miami, Florida.
162. *Indications: Choosing the right patient and the right operation*. Presented at “Surgery for Spinal Metastases,” National Hospital for Neurological Surgery at Queen’s Square, London, England, March 11, 2010.
163. *Degenerative & Neoplastic Spine*, presented at “Weekend Update Course,” Sponsored by the AANS, Phoenix, Arizona, February 21, 2010.
164. Pre-meeting Course Co-Chair: Advanced MIS Techniques/Managing MIS Complications. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, February 17, 2010, Orlando, Florida.
165. *MIS and evidence: Is it worth it?* Presented at the Indications and controversies of minimally invasive spine surgery symposium at Weill Cornell Medical College, New York, New York, December 11, 2009.
166. *Degenerative scoliosis: MIS deformity correction*, presented at the Indications and controversies of minimally invasive spine surgery symposium at Weill Cornell Medical College, New York, New York, December 11, 2009.
167. *Patient selection for lumbar spinal fusion*, presented at the AANS Resident’s Fundamentals in Spine Course, Chicago, Illinois, November 21, 2009.
168. *New advances in minimally invasive spinal surgery*, presented at Annual Brain and Spine Symposium. Sponsored by Memorial Regional Hospital, November 7, 2009 Hallandale, Florida.
169. *Hypothermia for acute spinal cord injury*, presented at Annual Brain and Spine Symposium. Sponsored by Memorial Regional Hospital, November 7, 2009 Hallandale, Florida.
170. *Cervical minimally invasive surgery*, presented at *Luncheon Seminar: Minimally Invasive Spinal Surgery*. CNS Annual Meeting, New Orleans, Louisiana, October 26, 2009.
171. Course Co-Director: *Practical Workshop: Update on Spinal Surgery Indications and Techniques*. CNS Annual Meeting, New Orleans, Louisiana, October 25, 2009.
172. *Cervicothoracic junction spinal biomechanics*, presented at *Practical Workshop: Spinal Biomechanics*. CNS Annual Meeting, New Orleans, Louisiana, October 24, 2009.

173. The role of surgery in SCI. Presented at the *Pre-Meeting Workshop: Spinal Cord Medicine-An intensive review*. Presented at the American Spinal Injury Association (ASIA) Annual Meeting, Dallas, Texas, September 23, 2009.
174. *Occiput to C2 fixation*. Presented at the 2nd Annual Emerging Techniques and Technologies in Spine Surgery, Las Vegas, Nevada, September 13, 2009.
175. Breakfast Seminar: Minimally invasive surgery cervical laminoplasty and instrumented fusions. Presented at the World Federation of Neurological Surgeons Annual Meeting, Boston, Massachusetts, September 1, 2009.
176. Moderator, Spine Session II. Presented at the World Federation of Neurological Surgeons Annual Meeting, Boston, Massachusetts, September 1, 2009.
177. Breakfast Seminar: Minimally invasive surgery: Show me the data on deformity surgery. Presented at the World Federation of Neurological Surgeons Annual Meeting, Boston, Massachusetts, August 31, 2009.
178. Course instructor and lecturer, AANS Resident's Deformity Course, Baltimore, Maryland, May 16-17, 2009.
179. *Pre-Meeting Workshop: Minimally invasive cervical fixation and fusion*. Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 2, 2009.
180. *Pre-Meeting Workshop: Patient selection for lumbar fusion*. Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 3, 2009.
181. *Pre-Meeting Workshop: Cervical laminectomy vs. laminoplasty vs. laminectomy with instrumented fusion*. Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 3, 2009.
182. Breakfast Seminar: Occupational Hazards: The toll of neurosurgical operations. Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 5, 2009.
183. Breakfast Seminar: Lumbosacral junction trauma. Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 6, 2009.
184. Breakfast Seminar: Spondylolisthesis, What is the role of minimally invasive surgery? Presented at the American Association of Neurological Surgeons Annual Meeting, San Diego, California, May 5, 2009.
185. The role of fixation in treating osteoporotic fractures. Presented at the NASS Spring Break Meeting, Rio Grande, Puerto Rico, April 25, 2009.
186. Congress of Neurological Surgeons Webinar: "Controversies in Thoracolumbar Burst Fracture Management" via Cisco WebEx. March 17, 2009.

187. “Acute interventions for spinal cord injury.” Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March, 2009, Phoenix, Arizona.
188. *Degenerative & Neoplastic Spine*, presented at “Weekend Update Course,” Sponsored by the AANS, Phoenix, Arizona, February 22, 2009.
189. Guest Lecture: *Lumbar fusion: Patient selection and indications*. Presented at A Spinal Update for Primary Care Providers, Atlanta, Georgia, November 15, 2008.
190. Moderator, SIPP Section, “Complications of Spinal Surgery,” North American Spine Society (NASS), Toronto, Canada, October 17, 2008.
191. *Digital Masters Session*. “Intramedullary spinal cord tumor resection.” Congress of Neurosurgeons Spine and Peripheral Nerves Section, Orlando, Florida, September 24, 2008.
192. Moderator, Cervical Arthroplasty Section, Congress of Neurosurgeons Spine and Peripheral Nerves Section, Orlando, Florida, September 24, 2008.
193. *Pre-Meeting Workshop: Treatment of thoracolumbar burst fractures and dislocations*. CNS Annual Meeting, Orlando, Florida, September 20, 2008.
194. *Pre-Meeting Workshop: Minimally invasive techniques for cervical stabilization*. CNS Annual Meeting, Orlando, Florida, September 20, 2008.
195. Breakfast Seminar: Biologics for the spine, The BMP’s, why to use them. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 29, 2008.
196. Breakfast Seminar: Management of Spinal Axis Trauma, Hypothermia for acute spinal cord injuries. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 29, 2008.
197. Breakfast Seminar: Management of Spinal Axis Trauma, The timing of surgical decompression for acute spinal cord injury. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 29, 2008.
198. Breakfast Seminar: Spondylolisthesis, The efficacy of percutaneous approaches with or without reduction. Presented at the American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 28, 2008.
199. *Pre-Meeting Workshop: Anterior thoracolumbar stabilization with total disc replacement or nuclear replacement technologies*. American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 27, 2008.
200. *Pre-Meeting Workshop: Cervical laminectomy vs. laminoplasty vs. laminectomy with instrumented fusion*. American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 26, 2008.

201. *Biennial Pain Symposium of the AANS/CNS: Fusion for low back pain.* Washington, D.C., April 25, 2008.
202. Course Director, "Learning adult spinal deformity surgery" at the AANS/CNS Section on Spine and Peripheral Nerves, February 27, 2007, Orlando, Florida.
203. *Which is the best spinal radiosurgery modality: Gammaknife, Novalis, or Cyberknife?* Presented at the Vail Spine Summit, February 12, 2008, Vail, Colorado.
204. *Winds of Change in Neurosurgery: Minimally Invasive or Conventional? The argument for minimally invasive spinal surgery.* Presented at the Southern Neurosurgical Society Annual Meeting, San Juan, Puerto Rico, February 8, 2008.
205. *Conflict of Interest in Reimbursement.* Presented at the 20th Annual University of South Florida Disorders of the Spine Workshop. Whistler, Canada, January 20, 2008.
206. *Clinical trials for spinal cord injury.* Presented at the University of Miami Department of Rehabilitation and Physical Medicine Grand Rounds, November 28, 2007, Miami, Florida.
207. Moderator, Oral Poster Section, Congress of Neurosurgeons Spine and Peripheral Nerves Section, September 17, 2007, San Diego, California.
208. Pre-meeting Practical Course: *Thoracolumbar fractures and dislocations: What is the evidence for operative treatment* presented at the Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 16, 2007.
209. Luncheon Seminar: *The biology of Spinal Pseudarthrosis* presented at the Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 17, 2007.
210. Course Director: Controversies in Cervical Spinal Surgery, August 24-25, 2007, Seattle, Washington, sponsored by Cine-Med.
211. Course Director: The treatment of intrinsic spinal cord tumors. Presented at the USC Spine Symposium, May 19, 2007, Los Angeles, California.
212. Course Director: Minimally invasive spinal surgery. Presented at the USC Spine Symposium, May 19, 2007, Los Angeles, California.
213. Breakfast Seminar: Management of Spinal Axis Trauma, The Cervical Spinal Cord Injury Guidelines. Presented at the American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 16, 2007.
214. Breakfast Seminar: Management of Spinal Axis Trauma, The Management of Subaxial Cervical Dislocations. Presented at the American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 17, 2007.
215. Breakfast Seminar: Cervical Spondylotic Myelopathy: Controversies and Case Review. Presented at the American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 18, 2007.

216. *Pre-Meeting Workshop: C1/2 Fixation.* American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 15, 2007.
217. *Pre-Meeting Workshop: The indications for surgery for low back pain.* American Association of Neurological Surgeons Annual Meeting, Washington, D.C., April 15, 2007.
218. *ALIF with anterior plating versus ALIF with supplementary pedicle screw fixation.* Current Concepts in Emerging Spine Technologies Meeting, Vail, Colorado, February 21, 2007
219. *HEALOS and bone marrow aspiration for multi-level cervical anterior stand-alone fusion.* Current Concepts in Emerging Spine Technologies Meeting, Vail, Colorado, February 20, 2007
220. *Minimally invasive spine surgery: Niche practice or necessary armamentarium.* Current Concepts in Emerging Spine Technologies Meeting, Vail, Colorado, February 19, 2007.
221. *Luncheon Seminar: Enhancing arthrodesis in the cervical spine.* CNS Annual Meeting, Chicago, Illinois, October 11, 2006.
222. *Pre-Meeting Workshop: Approaches to the cervico-thoracic junction.* CNS Annual Meeting, Chicago, Illinois, October 8, 2006.
223. *Pre-Meeting Workshop: Minimally invasive surgical arthrodesis of the cervical spine.* CNS Annual Meeting, Chicago, Illinois, October 7, 2006.
224. *AANS Masters Workshop: Minimally Invasive Spinal Surgery.* “Intraoperative setup, pedicle screw targeting, and complication avoidance.” Saint Louis, Missouri, June 10-11, 2006.
225. *Pre-Meeting Workshop: Indications and limitations of the transoral approach.* American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 21, 2006.
226. *Pre-Meeting Workshop: Thoracic and Lumbar Stabilization.* American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 21, 2006.
227. *Pre-Meeting Workshop: Indications and limitations of the transoral approach.* American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 21, 2006.
228. *Breakfast Seminar: Management of Spinal Axis Trauma, The Cervical Spinal Cord Injury Guidelines.* Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 24, 2006.

229. Breakfast Seminar: Management of Spinal Axis Trauma, The Management of Subaxial Cervical Dislocations. Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 26, 2006.
230. Breakfast Seminar: Cervical Spondylotic Myelopathy: Controversies and Case Review. Presented at the American Association of Neurological Surgeons Annual Meeting, San Francisco, California, April 25, 2006.
231. Focus on bone graft substitutes for spinal arthrodesis: A case-based monograph. December 2005.
232. Luncheon Seminar: Treatment of cervical radiculopathy: Ventral versus dorsal approaches. Presented at the Congress of Neurological Surgeons Meeting, October 12, 2005, Boston, Massachusetts.
233. *Pre-Meeting Workshop: Surgical arthrodesis of the cervical spine: C1-2 fusion indications, techniques & outcomes.* Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, October 8, 2005.
234. Moderator, Oral Abstracts Section, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, March 10, 2005, Phoenix, Arizona.
235. Luncheon Seminar: Cervical Spondylotic Myelopathy: Anterior Cervical Plating Options. Presented at the Congress of Neurological Surgeons Meeting, October 19, 2004, San Francisco, California.
236. *Pre-Meeting Workshop: Surgical arthrodesis of the cervical spine: C1-2 fusion indications, techniques & outcomes.* Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 16, 2004.
237. Indications for lumbar fusion. Presented at the 3rd Annual ARGOS Meeting, August 7, 2004, Nemaocolin Woodlands, Pennsylvania.
238. Minimally Invasive Spine Surgery. Presented at *ASET IONM*, Long Beach, California, December 6, 2003.
239. Spinal Cord Injuries. Presented at *Pediatric Intensive Care Review*, Children's Hospital of Los Angeles, July 12, 2000.
240. Pediatric Head Injuries: Evaluation & Management. Presented at *Pediatric Intensive Care Review*, Children's Hospital of Los Angeles, July 12, 2000.
241. Gamma knife radiosurgery technique. Presented at the Kenneth Norris Cancer Hospital, June 28, 2000, Los Angeles, California.
242. Pediatric mild head injuries. Presented at the University of Southern California Trauma Conference, February 25, 2000.

243. An Analysis of Pediatric Falls. Presented at *Advances in Pediatric Trauma* Conference, Children's Hospital of Los Angeles, November 5, 1999.
244. Pediatric Mild Head Injury: A Prospective Study. Presented at *Advances in Pediatric Trauma* Conference, Children's Hospital of Los Angeles, Los Angeles, California, November 5, 1999.
245. Ethnic Differences in Carotid Occlusive Disease. Presented at the Max R. Gaspar Vascular Disease Symposium, September 25, 1998, Glendale, California.

WORKSHOP AND COURSE INSTRUCTORSHIPS

1. Co-Director, The 1st Annual CCNS-AANS/NREF Clinical course of spinal neurosurgery. Qing Dao, China, September 17-18, 2015.
2. Co-Director, *Percutaneous Spine Surgery*. World Federation of Neurological Surgeons (WFNS) Pre-Course, Rome, Italy, September 6-8, 2015.
3. *Awake TLIF's*. Presented at the Deformity Down Under Meeting, Sydney, New South Wales, Australia, August 28, 2015, sponsored by K2M.
4. *Mini open PSO – Technique*. Presented at the Deformity Down Under Meeting, Sydney, New South Wales, Australia, August 28, 2015, sponsored by K2M.
5. *MIS PSO and SPO's – Sagittal balance correction*. Presented at the Deformity Down Under Meeting, Sydney, New South Wales, Australia, August 28, 2015, sponsored by K2M.
6. *Haiti Earthquake*. Presented at the Deformity Down Under Meeting, Sydney, New South Wales, Australia, August 27, 2015, sponsored by K2M.
7. Co-Director: Advanced Minimally Invasive Spine Summit. Miami, Florida, January 9-10, 2015, sponsored by Depuy Spine, Inc.
8. Maximizing lordosis with implant selection. Presented at the 25th Annual Spine Base to Summit Spine Meeting, Beaver Creek, Colorado, January 17, 2015.
9. Course Co-Director: MIS lateral solution. Solothurn, Zuchwil, Switzerland, December 5, 2014, sponsored by Depuy-Synthes Spine, Inc.
10. Live Cadaveric Course Instruction, Presented at the 7th Annual Chinese Academy of Orthopedic Surgery (CAOS) Meeting, Beijing, China, May 11, 2014.
11. Co-Director: Advanced Minimally Invasive Spine Summit. Miami, Florida, January 10-11, 2014, sponsored by Depuy Spine, Inc.
12. Technology Forum: “Pushing the limits of MIS surgery.” Presented at the Society for Minimally Invasive Spine Surgery (SMISS) Annual Meeting. Las Vegas, Nevada, November 2, 2013.
13. “Deformity Correction: What is the Value of MIS and Hybrid vs. Open?” Presented at the AO North America Webinar on Minimally Invasive Spinal Surgery and Navigation. October 14, 2013.
14. Course Co-Director: ASPAC MIS TLIF & vertebral body stenting cadaver workshop. Bangkok, Thailand. June 3-4, 2013, sponsored by Depuy-Synthes Spine, Inc.
15. Course Faculty, The AANS Goodman Oral Boards Preparation Course, May 12-13, 2013, Houston, Texas. Sponsored by the AANS.

16. Course Co-Director: Advanced Minimally Invasive Spine Techniques. Miami, Florida, January 10-11, 2013, sponsored by Depuy Spine, Inc.
17. *Adult degenerative scoliosis*. Presented at the 12th Congresso de Espinhal, March 16, 2012, Sao Paulo, Brazil.
18. *Management of degenerative disc disease in two or more levels and complex deformity*. Presented at the 12th Congresso de Espinhal, March 16, 2012, Sao Paulo, Brazil.
19. *Critical analysis: Advantages and disadvantages of MIS*. Presented at the 12th Congresso de Espinhal, March 15, 2012, Sao Paulo, Brazil.
20. *Lateral minimally invasive spinal deformity correction*. Presented at the “Deformity for Neurosurgeons Course,” sponsored by Stryker, February 3, 2012, Miami, Florida.
21. Lab Lead Instructor: Osteotomies For Correction Of Spinal Deformity. The International Society for the Advancement of Spine Surgery (ISASS): The Importance of Sagittal Balance and Reconstruction of the Thoracolumbar Spine: Theory and Bioskills Cadaver Course, January 29, 2012, Miami, Florida.
22. *Percutaneous screw placement*. Presented at the AANS Residents’ Fundamentals Course, November 12, 2011, Chicago, Illinois.
23. *Percutaneous spinal fixation for spinal trauma*. Presented at the 21st Mexican Congress of Neurosurgeons, July 20, 2011, Acapulco, Mexico.
24. *Minimally invasive decompression for lumbar stenosis*. Presented at the 21st Mexican Congress of Neurosurgeons, July 19, 2011, Acapulco, Mexico.
25. *Sheuerman’s kyphosis*. Presented at the AANS Residents’ Deformity Course, May 7, 2010, Baltimore, Maryland.
26. *Principles of minimally invasive surgery for spinal deformity*. Presented at the AANS Residents’ Deformity Course, May 7, 2010, Baltimore, Maryland.
27. *Lateral approaches for spinal deformity*. Presented at the AANS Residents’ Deformity Course, May 7, 2011, Baltimore, Maryland.
28. *Minimally invasive spine surgery for deformity*. Presented at the (BASS) British Association of Spine Surgeons Meeting. Edinburgh, Scotland, February 3, 2011.
29. *Minimally invasive spinal surgery: Future directions*. Presented at the Chinese Orthopedic Association 4th Annual Congress of Minimally Invasive Orthopedic Surgery, Chong Qing, China, June 18, 2010.
30. *Percutaneous sacroiliac spinal fixation*. Presented at the “Advanced MIS Course,” Raynham, Massachusetts, sponsored by Depuy Spine, March 23, 2010.

31. *Principles of minimally invasive surgery for spinal deformity.* Presented at the AANS Residents' Deformity Course, April 17, 2010, Baltimore, Maryland.
32. *Lateral approaches for spinal deformity.* Presented at the AANS Residents' Deformity Course, April 17, 2010, Baltimore, Maryland.
33. *Surgical considerations and clinical implications for geriatric patients.* Current Techniques in Spinal Deformity Surgery. Aurora, Colorado, April 10, 2010, sponsored by Biomet Spine.
34. *Percutaneous sacroiliac spinal fixation.* Presented at the "MIS Experts Level Course," Raynham, Massachusetts, sponsored by Depuy Spine, April 8, 2010.
35. *Far lateral approach to the lumbar spine.* Presented at the "Managing spinal complications in the first years of practice," Raynham, Massachusetts, sponsored by Depuy Spine, March 26, 2010.
36. *Trauma injuries to the cervico-thoracic junction.* Presented at the "Technique training in spine trauma course," Miami, Florida, sponsored by Medtronic Sofamor Danek, March 19, 2010.
37. *Posterior cervical fixation techniques.* Presented at the "Emerging Technologies Course," Miami, Florida, sponsored by MERC, March 20, 2010.
38. Course Co-Director: *Advanced Minimally Invasive Spine Techniques.* Miami, Florida, January 21-22, 2010, sponsored by Depuy Spine, Inc.
39. *MIS TLIF-Techniques, tips and tricks.* Presented at Advanced Minimally Invasive Surgical Techniques in the Lumbar and Thoracic Spine Course for European surgeons, Raynham, Massachusetts,
40. *MIS Degenerative-Indications & case examples.* Presented at Advanced Minimally Invasive Surgical Techniques in the Lumbar and Thoracic Spine Course for European surgeons, Raynham, Massachusetts, December 14-15, 2009, sponsored by Depuy Spine, Inc.
41. *MIS Tumor-What is achievable?* Presented at Advanced Minimally Invasive Surgical Techniques in the Lumbar and Thoracic Spine Course for European surgeons, Raynham, Massachusetts, December 14-15, 2009, sponsored by Depuy Spine, Inc.
42. Course Chairman, Minimally Invasive Spine Course, Cornell Weill Medical College, New York, New York, December 5, 2009, sponsored by Depuy Spine, Inc.
43. Co-Chairman, Annual Spine Surgical Techniques and Technologies Forum. Boston, Massachusetts, October 9-10, 2009, sponsored by Biomet Spine.
44. *The opportunity for MIS in the cervical spine.* Presented at the Techniques in Minimally Invasive Surgery Course, Las Vegas, Nevada, October 3, 2009, sponsored by Depuy Spine, Inc.

45. *Percutaneous screws: when, why, and how?* Presented at the Techniques in Minimally Invasive Surgery Course, Las Vegas, Nevada, October 2, 2009, sponsored by Depuy Spine, Inc.
46. *Success in spinal surgery.* Presented at the Annual Outgoing Fellows' Course. Sponsored by Stryker Spine, Miami, Florida, September 11, 2009.
47. *Spine surgery case presentations.* Presented at the World Federation of Neurological Surgeons Meeting Johnson & Johnson International Fellows' Dinner, September 1, 2009.
48. Course Chairman, Fellows' Advanced MIS Course, Chicago, Illinois, August 29-30, 2009, sponsored by Depuy Spine, Inc.
49. *MIS decompression techniques: direct tubulardecompression vs. indirect methods* , 2009 Depuy Spine Summit on diagnosis and treatment options for the aging spine, Raynham, Massachusetts, August 21, 2009.
50. Current concepts in spinal cord injury. AO Spine North America, Miami, Florida, August 8, 2009.
51. Current concepts in minimally invasive surgery. AO Spine North America, Miami, Florida, August 7, 2009.
52. Principles of spondylolisthesis correction. Spinal deformity Course, Miami, Florida, March 29, 2009, sponsored by Biomet Spine.
53. *Minimally invasive surgery for spinal deformity*, Neurosurgery Deformity Course, Miami, Florida, April 18, 2009, sponsored by Depuy Spine, Inc.
54. Principles of spondylolisthesis correction. Spinal deformity Course, Miami, Florida, March 29, 2009, sponsored by Biomet Spine.
55. Advances in the surgical treatment of spinal cord injury. Presented at the Contemporary SCI Forum, Orlando, Florida, March 19, 2009.
56. Course Co-Chairman, Neurosurgery Resident's Course, Miami, Florida, March 5-7, 2009, sponsored by Depuy Spine, Inc.
57. Course Co-Chairman. Advanced techniques in MIS Spinal Surgery. Miami, Florida, February 20, 2009, sponsored by Depuy Spine, Inc.
58. *Posterior dynamic stabilization technology.* Presented at the Advanced MIS BioSkills Course, Baltimore, Maryland, October 24, 2008, sponsored by Depuy Spine, Inc.
59. Co-Chairman, Spine Fellows Summit: Practice management & avoiding complications. Toronto, Canada, October 11-12, 2008, sponsored by MERC.

60. *Lumbar disc arthroplasty: What have we learned?* Presented at the Annual Neurosurgery Resident's Resident Skills Summit at the Barrow Neurological Institute, Phoenix, Arizona, October 4, 2008, sponsored by Codman.
61. *Cervical spinal trauma.* Presented at the Annual Neurosurgery Resident's Resident Skills Summit at the Barrow Neurological Institute, Phoenix, Arizona, October 4, 2008, sponsored by Codman.
62. *Minimally invasive approaches for the treatment of spinal tumors.* Presented at the Cleveland Clinic Spine Review, July 22, 2008, Cleveland, Ohio.
63. *The future of bone morphogenetic proteins.* Presented at the Spine University Series II, Burr Ridge, Illinois, May 31, 2008, sponsored by Stryker Spine, Inc.
64. Course Faculty, Pre-Fellows' Course, Denver, Colorado, March 13-14, 2008, sponsored by Depuy Spine, Inc.
65. Course Co-Chairman, Neurosurgery Resident's Course, Las Vegas, Nevada, March 14, 2008, sponsored by Depuy Spine, Inc.
66. *Managing risk, complications, and medical malpractice.* Presented at the Annual Neurosurgery Resident's Course, Las Vegas, Nevada, March 14, 2008, sponsored by Depuy Spine, Inc.
67. *Minimally invasive laminectomy and discectomy.* Presented at the Annual Neurosurgery Resident's Course, Las Vegas, Nevada, March 15, 2008, sponsored by Depuy Spine, Inc.
68. Course Co-Chairman, *Advance Minimally Invasive Spinal Surgery Training Course.* January 9-10, 2008, Las Vegas, Nevada.
69. *Results of the Prestige Cervical Disc IDE Trial.* Presented at the Prestige cervical disc training course, December 8, 2007, Miami, Florida. Sponsored by the Medtronic Sofamor Danek.
70. Course Faculty, The AANS Goodman Oral Boards Preparation Course, November 4-5, 2007, Houston, Texas. Sponsored by the AANS.
71. *Indications for lumbar spinal fusion.* Presented at the AANS Fundamentals in Spinal Surgery for Residents, October 20, 2007, Memphis, Tennessee.
72. *Approach selection for cervical degenerative disease.* Presented at the AANS Fundamentals in Spinal Surgery for Residents, October 19, 2007, Memphis, Tennessee.
73. *Applications in minimally invasive surgery.* Presented at the 2nd Annual Meeting on New Perspectives in Spinal Surgery, October 12, 2007, Fort Lauderdale, Florida.
74. *Digital Masters Video Series: Spinal tumor resection.* CNS Annual Meeting, San Diego, California, October 15, 2007.

75. *Minimally invasive lumbar discectomy and decompression for stenosis*. Presented at the Annual Advanced Fellows' MIS Course, Baltimore, Maryland, August 19, 2007, sponsored by Depuy Spine, Inc.
76. *Advanced techniques in MIS surgery: Lumbar decompression techniques..* Presented at the 14th Annual IMAST Meeting, July 14, 2007, Paradise Island, Bahamas.
77. *What's New in Vertebroctomy Reconstruction?* Presented at the 4th Annual Spine Technology Education Group (STEG) Meeting, June 30, 2007, Los Cabos, Mexico.
78. Course Faculty, The AANS Goodman Oral Boards Preparation Course, May 20-21, 2007, Houston, Texas. Sponsored by the AANS.
79. Course Co-Chairman, *Osteobiologic Agents for Promoting Spinal Fusion*. Presented May 17, 2007, New York, New York.
80. *Contract negotiations*. Presented at the "Life after residency course," Washington D.C., April 16, 2007, sponsored by Stryker Spine.
81. *Postlaminectomy kyphosis*. Presented at the Controversies in Cervical Spine Surgery Course, Fort Lauderdale, Florida, March 30, 2007, sponsored by Stryker Spine, Inc.
82. *Approach selection for cervical stenosis*. Presented at the Controversies in Cervical Spine Surgery Course, Fort Lauderdale, Florida, March 30, 2007, sponsored by Stryker Spine, Inc.
83. *Anterior lumbar plating vs. 360 degree ALIF and pedicle screw fixation*. Presented at the Annual Neurosurgery Resident's Course, Las Vegas, Nevada, February 9, 2007, sponsored by Depuy Spine, Inc.
84. *Complication avoidance in minimally invasive surgery*. Presented at the Annual Neurosurgery Resident's Course, Las Vegas, Nevada, February 8, 2007, sponsored by Depuy Spine, Inc.
85. *Contralateral decompression via a minimally invasive approach for lumbar spinal stenosis*. Presented at the Advanced MIS Course, MERI Lab, Memphis, Tennessee, December 9, 2006, sponsored by Depuy Spine, Inc.
86. *Imaging & Neurophysiology for Minimally Invasive Spine Surgery*. Presented at the Advanced MIS Course, MERI Lab, Memphis, Tennessee, December 9, 2006, sponsored by Depuy Spine, Inc.
87. *Emerging trends in hemostasis and choosing the right hemostat at the right time*. Los Angeles, California, December 6, 2006, sponsored by Johnson & Johnson Biosurgicals, Inc.
88. *PEEK interbody devices in spinal surgery*. Presented at the Annual Advanced Spine Course, Miami, Florida, October 27, 2006, sponsored by Aesculap Spine, Inc.

89. *Digital Masters Video Series: Cervical Laminoplasty*. CNS Annual Meeting, Chicago, Illinois, October 7, 2006.
90. *Imaging & Neurophysiology for Minimally Invasive Spine Surgery*. Presented at the Annual Advanced MIS Course, Thornton, Colorado, August 25, 2006, sponsored by Depuy Spine, Inc.
91. *Overcoming the learning curve in minimally invasive surgery*. Presented at the Annual Fellows' MIS Course, Thornton, Colorado, August 26, 2006, sponsored by Depuy Spine, Inc.
92. Pre-fellows' Cadaver Course. Baltimore, Maryland, April 28-29, 2006, sponsored by Depuy Spine, Inc.
93. Course Co-Chairman, Minimally invasive spine surgery bioskills course. Las Vegas, Nevada, CA, March 17-18, 2006, sponsored by Depuy Spine, Inc.
94. *TLIF Nuances*. Presented at the Annual Snowbird Spine Meeting, Sponsored by Aesculap, Inc.
95. *Incorporating Minimally Invasive Spine Surgery into your Practice*. Presented at the Annual Neurosurgery Resident's Summit, Boston, Massachusetts, March 3, 2006, sponsored by Depuy Spine, Inc.
96. *Minimally invasive lumbar arthroplasty: Should it be done?* Presented at the Annual Arthroplasty Summit, Salt Lake City, Utah, February 17, 2006, sponsored by Depuy Spine, Inc.
97. Course Chairman, Minimally invasive spine surgery bioskills course at the University of Southern California. Los Angeles, CA, February 11, 2006, sponsored by Depuy Spine, Inc.
98. *Postoperative analgesia with intramuscular anesthetic infiltration*. I-Flow National Sales Training Meeting, Newport Beach, California, January 7, 2006.
99. Course Co-Chairman, Minimally invasive spine surgery bioskills course at Cornell Weill Medical School. New York, NY, December 3, 2005, sponsored by Depuy Spine, Inc.
100. *Minimally Invasive Spinal Fusion: Indications for Surgery*, MERI Mobile Satellite Training Course. Bakersfield, California, July 28, 2005, Sponsored by Medtronic Sofamor Danek, Inc.
101. *Motion preservation alternatives in spinal surgery*. Presented at the Sisyphean Spine Society Annual Meeting, Hamilton, Bermuda, July 15, 2005.
102. *Alternate biomaterials for cervical interbody reconstruction*. Presented at the IMAST Annual Meeting, Banff, Alberta Canada, July 8, 2005.
103. *Minimally invasive backup for 360 degree ALIF surgery: Indications and technique*. Presented at the IMAST Annual Meeting, Banff, Alberta Canada, July 8, 2005.

104. Course Co-Chairman, Minimally invasive spine surgery bioskills course. Phoenix, Arizona, July 24 & July 25, 2005, sponsored by Depuy Spine, Inc.
105. Post-fellows' Cadaver Course. Boston, Massachusetts, May 14-15, 2005, sponsored by Depuy Spine, Inc.
106. *TLIF and PLIF: Technique, pitfalls, and nuances*. Presented at the Depuy Pre-fellows' Cadaver Course. St. Louis, Missouri, May 19-21, 2005, sponsored by Depuy Spine, Inc.
107. *Gene therapy for lumbar disc disease*. Presented at the Controversies in Lumbar Surgery Symposium. Las Vegas, Nevada, April 30, 2005, sponsored by Depuy Spine, Inc.
108. *Indications for minimally invasive surgery*. Presented at the Controversies in Lumbar Surgery Symposium. Las Vegas, Nevada, April 30, 2005, sponsored by Depuy Spine, Inc.
109. *Pre-Meeting Workshop: Thoracic and Lumbar Stabilization*. American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, April 16, 2005.
110. *Pre-Meeting Workshop: Indications and limitations of the transoral approach*. American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, April 16, 2005.
111. *Minimally invasive spinal surgery*. Presented at the Depuy Residents' Summit. Phoenix, Arizona, April 2, 2005.
112. Transforaminal lumbar interbody fusion: Posterior solutions. Memphis, Tennessee, March 19, 2005.
113. *Managing surgical complications from thoracolumbar fractures*. Advance Spine Trauma Symposium. Miami, Florida, March 18, 2005.
114. *Advances in Spinal Surgery-2005*. Bioplate Neurosurgical Symposium. Los Angeles, California, February 11, 2005.
115. Fundamental Principles & Techniques in Spinal Surgery Cadaveric Course. San Diego, California, February 3-5, 2005, Sponsored by Medtronic Sofamor Danek.
116. Minimally invasive spine surgery—decompression and fusion technique workshop at the 19th annual North American Spine Society meeting. Chicago, Illinois, October 26, 2004.
117. *Failed C1-2 fusion for rheumatoid arthritis*. 17th Annual University of South Florida Disorders of the Spine Workshop. Whistler, Canada, January 20, 2005.
118. *Nuclear replacement devices*. Focus group on complex spinal pathologies. Phoenix, AZ, September 11, 2004.
119. *Minimally invasive posterior cervical fusion, use of C2 crossing laminar screws and cervical use of rhBMP*. Peer to peer review on challenging cervical pathology. New York City, July 24, 2004.

120. *The role of minimally invasive techniques in posterior lumbar interbody fusion.* All Pathologies Advanced Spinal Techniques Course. Chicago, Illinois, July 10, 2004.
121. *Atlantoaxial Surgical Anatomy.* All Pathologies Advanced Spinal Techniques Course. Chicago, Illinois, July 9, 2004.
122. *Fixation of the occiput.* All Pathologies Advanced Spinal Techniques Course. Chicago, Illinois, July 9, 2004, sponsored by Depuy Spine, Inc.
123. Pre-fellows' Cadaver Course. Baltimore, Maryland, May 14-15, 2004, sponsored by Depuy Spine, Inc.
124. Minimally invasive posterior cervical instrumentation. AANS Meeting, Orlando, Florida, May 2, 2004.
125. *The role of minimally invasive techniques in posterior lumbar interbody fusion.* All Pathologies Advanced Spinal Techniques Course. Dallas, Texas, April 23, 2004.
126. *Laminoplasty in cervical spondylotic myelopathy & indications for multilevel decompression..* All Pathologies Advanced Spinal Techniques Course. Dallas, Texas, April 23, 2004.
127. *MAST: Minimal Access Spinal Techniques,* MERI Satellite Training Course. Pasadena, California, March 24, 2004, sponsored by Medtronic Sofamor.
128. *Cervical Laminoplasty for Spondylotic Myelopathy.* All Pathologies Advanced Spinal Cadaver Course. Phoenix, Arizona, February 6-7, 2004, sponsored by Depuy Spine, Inc.
129. *Surgical Anatomy at Occiput to C2.* Advanced Spinal Techniques. Stanford University, Stanford, California, August 22-23, 2003, sponsored by Depuy Spine, Inc.
130. *Minimally Invasive Spinal Surgery.* MERI Satellite Training Course. Fresno, California, May 9, 2003, sponsored by Medtronic Sofamor Danek.

ORAL POSTER PRESENTATIONS

1. Clinical outcomes following aggressive multimodality neuroprotection after intra-operative spinal cord injury. Presented at the American Association of Neurological Surgeons Meeting, April 11, 2011, Denver, Colorado.
2. Fluoroscopically guided iliac screw placement: A review of 20 cases. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 10, 2011, Phoenix, Arizona.
3. MR-Myelography for the detection of lumbar facet synovial abnormalities and predicting positive response to facet injection. Presented at the CNS Annual Meeting, October 9, 2006, Chicago, Illinois.
4. Correction of late traumatic kyphotic spinal deformities using posteriorly placed intervertebral distraction cages. Presented at the CNS Annual Meeting, October 9, 2006, Chicago, Illinois.
5. Human structural allograft: supply, demand, and availability. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 17, 2004, San Diego, California.
6. Cadaveric morphometric analysis for atlantal lateral mass screw placement. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 17, 2004, San Diego, California.
7. Unexpected recovery of neurologic function after severe traumatic spinal cord injury in the pediatric population. Presented at the CNS Annual Meeting, October 18-23, 2003, Denver, Colorado.
8. Cervical expansile laminoplasty, clinical results in 204 patients. Presented at the AANS/CNS Section on Spine and Peripheral Nerves, March 8, 2003, Tampa, Florida.
9. An analysis of pediatric head injury from falls. Presented at the Congress of Neurosurgeons Meeting, November 3, 1999, Boston, MA.
10. The use of octylcyanoacrylate tissue adhesive for wound closure in pediatric neurosurgery. Presented at the Congress of Neurosurgeons Meeting, November 3, 1999, Boston, MA.
11. Microsurgical treatment of middle fossa arachnoid cysts. Presented at the Congress of Neurosurgeons Meeting, November 2, 1999, Boston, MA.
12. Primary Care Residents' Knowledge of "Brain Attack" and Carotid Endarterectomy. Presented at the Congress of Neurosurgeons Meeting, October 6, 1998, Seattle, WA.

BOOK CHAPTERS

1. **MY Wang.** Chapter #60: Percutaneous pedicle screw placement, in *Handbook of Spine Surgery 2nd Edition*. AA Baaj, PV Mummaneni, JS Uribe, AR Vaccaro, & MS Greenberg (Eds.). Thieme, New York, New York, 2016, pp. 405-410.
2. **MY Wang.** Chapter #59: Minimally invasive transforaminal lumbar interbody fusion, in *Handbook of Spine Surgery 2nd Edition*. AA Baaj, PV Mummaneni, JS Uribe, AR Vaccaro, & MS Greenberg (Eds.). Thieme, New York, New York, 2016, pp. 390-404.
3. **MY Wang.** Chapter #25: Degenerative lumbar spine disease, in *Handbook of Spine Surgery 2nd Edition*. AA Baaj, PV Mummaneni, JS Uribe, AR Vaccaro, & MS Greenberg (Eds.). Thieme, New York, New York, 2016, pp. 182-190.
4. I Cote & **MY Wang.** Chapter #29: Biology of spine fusion, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* Edward C. Benzel (Ed.). Elsevier, New York, New York, 2016.
5. **MY Wang.** Chapter #170: Endoscopic lumbar discectomy, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* Edward C. Benzel (Ed.). Elsevier, New York, New York, 2016.
6. **MY Wang.** Chapter #187: Total facet arthroplasty, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* Edward C. Benzel (Ed.). Elsevier, New York, New York, 2016.
7. **MY Wang.** Chapter #105: MIS Placement of Pedicle Screws: Lumbar, Sacral, and Iliac Wing Screws, in *Atlas of Neurosurgical Techniques, 2nd Edition: Spine and Peripheral Nerves*. R Fessler & L Sekhar (Eds.). Thieme, New York, 2015.
8. **MY Wang.** Chapter #XX: Overview of Minimally Invasive Cervical and Lumbar Discectomy and Laminectomy, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* C Kuntz & MP Steinmetz (Eds.). Elsevier, Philadelphia, Pennsylvania, 2015.
9. **MY Wang.** Chapter #XX: Total facet arthroplasty, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* C Kuntz & MP Steinmetz (Ed.). Elsevier, Philadelphia, Pennsylvania, 2015.
10. I Cote & **MY Wang.** Chapter #XX: Biology of spine fusion, in *Spine Surgery: Techniques, Complication Avoidance, and Management, 4th Ed.* C Kuntz & MP Steinmetz (Ed.). Elsevier, Philadelphia, Pennsylvania, 2015.
11. **MY Wang.** Chapter #314: Minimally invasive treatment of adult scoliosis, in *Youman's Textbook of Neurological Surgery, 7th Edition*. HR Winn, CI Shaffrey, DG Vollmer, & VKH Sonntag (Eds.). Elsevier, Philadelphia, Pennsylvania, 2015.

12. **MY Wang.** Chapter #333: Spinal osteotomies, in *Youman's Textbook of Neurological Surgery, 7th Edition*. HR Winn, CI Shaffrey, DG Vollmer, & VKH Sonntag (Eds). Elsevier, Philadelphia, Pennsylvania, 2015.
13. **MY Wang.** Chapter #15: Do MIS techniques broaden the scope for geriatric spine surgery? in A Vaccaro & F Sandhu (Eds.): *Controversies in Spine Surgery: Best Evidence Recommendations, MIS versus OPEN*. Thieme Publishing, New York, 2015.
14. C Devin & **MY Wang.** Chapter #18: Unstable Cervical Fractures; Can MIS surgery replace open techniques for specific unstable cervical spine injuries? in A Vaccaro & F Sandhu (Eds.): *Controversies in Spine Surgery: Best Evidence Recommendations, MIS versus OPEN*. Thieme Publishing, New York, 2015.
15. **MY Wang.** Chapter #32: Minimally invasive surgery (MIS) for adult spinal deformity for complex case studies: A collection of current techniques. In *Pediatric Spinal Deformity*. MC Gupta, A Vaccaro, & S Gupta (Ed). Jaypee Publishing, New Dehli, India, 2015, pp. 173-177.
16. **MY Wang.** MIS Hybrid Treatment of Multilevel Degenerative Lumbar Deformity In *Global Spinal Alignment and Balance*. R Haid, F Schwab, CI Shaffrey, & J Youssef (Eds). Quality Medical Publishing, St Louis, Missouri, 2014, pp. .
17. CD Ray & **MY Wang.** Chapter #4: Pathophysiology of Degenerative Disc Disease. In *An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition*. MJ Perez-Cruet, R Fessler, LT Khoo, & MY Wang (Eds.) CRC Press, 2015
18. **MY Wang,** MJ Perez-Cruet, R Fessler, & D Samartzis. Chapter #19: Cervical Laminectomy and instrumentation. In *An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition*. MJ Perez-Cruet, R Fessler, LT Khoo, & MY Wang (Eds.) CRC Press, 2015
19. MJ Perez-Cruet, R Fessler, & **MY Wang.** Chapter #22 Minimally Invasive Cervical Case Studies. In *An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition*. MJ Perez-Cruet, R Fessler, LT Khoo, & MY Wang (Eds.) CRC Press, 2015
20. MJ Perez-Cruet, R Fessler, & **MY Wang.** Chapter #32 Minimally Invasive Thoracic Case Studies. In *An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition*. MJ Perez-Cruet, R Fessler, LT Khoo, & MY Wang (Eds.) CRC Press, 2015
21. MJ Perez-Cruet, R Fessler, & **MY Wang.** Chapter #42 Minimally Invasive Lumbar Case Studies. In *An Anatomic Approach to Minimally Invasive Spine Surgery, 2nd Edition*. MJ Perez-Cruet, R Fessler, LT Khoo, & MY Wang (Eds.) CRC Press, 2015
22. C Hofstetter & **MY Wang.** Two and three column osteotomies. In the AANS MOC Review Textbook. 2015
23. C Hofstetter & **MY Wang.** Spinal infections. In the AANS MOC Review Textbook. 2015

24. **MY Wang.** Posterior approaches for minimally invasive treatment of spinal fractures: Technical Tips. In *Minimally Invasive Spine Surgery: Techniques, Evidence & Controversies*. R Hartl & A Korge (Eds). Thieme, New York, 2013, pp. 234-235.
25. **MY Wang.** Chapter # 6: The importance of the fractional curve. In *Minimally Invasive Spinal Deformity Surgery: An Evolution of Modern Techniques*. MY Wang, Y Lu, G Anderson, & P Mummaneni (Eds). Springer-Verlag Publishing, Vienna, Austria, 2014, pp. 47-52.
26. B Meyer, M Falcone, **MY Wang**, Y Lu, & S Wu. Chapter # 13: Rod contouring and passage. In *Minimally Invasive Spinal Deformity Surgery: An Evolution of Modern Techniques*. MY Wang, Y Lu, G Anderson, & P Mummaneni (Eds). Springer-Verlag Publishing, Vienna, Austria, 2014, pp. 109-112.
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