

NEEL ANAND, MD

310-423-9779

EDUCATION

FELLOWSHIPS

Scoliosis and Spinal Deformities, Mar 1994-Jul 1994

Hospital for Special Surgery, Cornell University
New York, New York

Trauma, Aug 1994-Jul 1995

Hospital for Special Surgery, Cornell University
New York, New York

Reconstructive Spinal Surgery, July 1993-Feb 1994

Spinal Associates of North Central Florida, University of Florida Gainesville,
Florida

RESIDENCY

Albert Einstein College of Medicine, 1996-2000

Orthopaedic Program at The Bronx-Lebanon Hospital Center
Bronx, New York

Elective Residency Rotation, Nov 1998-Jan 1999

Texas Back Institute
Plano, Texas

Royal College of Surgeons of England, Jan 1990-Jun 1993

Royal Liverpool University Hospital & Royal Liverpool Children's Hospital,
Liverpool, United Kingdom

University of Bombay, Dec 1983 -Dec 1989

B.Y.L. Nair Hospital
Bombay, India

INTERNSHIP

New York Medical College, 1995-1996

Lincoln Medical and Mental Health Center &
Our Lady of Mercy Medical Center, Bronx, New York

MEDICAL SCHOOL

Doctor of Medicine, 1979-1983

University of Bombay, T.N. Medical College
Bombay, India

APPOINTMENTS

2005 to present	Director, Orthopedic Spine Surgery Cedars-Sinai Spine Center Los Angeles, California
2005 to 2007	Director, Spine Fellowship Cedars-Sinai Institute for Spinal Disorders Los Angeles, California
2005 to 2007	Director, Minimally Invasive Spine Surgery Cedars-Sinai Institute for Spinal Disorders Los Angeles, California
2002 to 2005	Director, Spine Trauma Cedars-Sinai Institute for Spinal Disorders Los Angeles, California
2000-2001	Attending Physician Cedars-Sinai Institute for Spinal Disorders Los Angeles, California

LICENSES AND CERTIFICATIONS

Board certified by: American Board of Orthopaedic Surgeons, 2004
Royal College of Surgeons in England, 1994

ECFMG CERTIFICATION

USMLE: 0-461-669-4 1994

New York Medical License 1998:

Nevada Medical License 2000:

California Medical License 2000:

General Medical Council (GMC), UK. 1992:

Maharashtra Medical Council, India. 1984:

PROFESSIONAL ORGANIZATIONS

- Founding Member – Society for Minimally Invasive Spinal Surgery (SMISS)
Education Committee Member for SMISS 2011
- Founding Member – Society for Lateral Access Surgery (SOLAS)
- National Director – ONE Spine Society
- Charter Member – Society of Nucleus Arthroplasty (SONA)
- Scoliosis Research Society (SRS)
Web Site Committee of Scoliosis Research Society (SRS) 2007-2008
Instrumentation Committee of Scoliosis Research Society (SRS) 2007-2008
- OR Product Evaluation Committee, Cedars Sinai Medical Center
- American Academy of Orthopaedic Surgeons (AAOS)

- North American Spine Society (NASS)
- Spine Arthroplasty Society (SAS)/ Int'l Society for the Advancement of Spinal Surgery (ISASS)
 - Publication Committee for ISASS/SAS 2011
 - Educational Committee for ISASS/SAS 2011
 - Program Committee for ISASS/SAS 2011
- Spine Trauma Study Group (STSG)
- Degenerative Spine Study Group
- MAST Deformity Focus Group

CLINICAL INVESTIGATION PROTOCOLS

Principal Investigator: Pivotal FDA IDE Clinical Study – A Clinical Study to evaluate the **Acadia Facet Replacement System (AFRS)**, Facet Solutions, Hopkinton, MA./Globus Medical, Audubon, PA; 2009 to present

Principal Investigator: Trial Evaluating the Safety and Effectiveness of **NUBACT™ Disc Arthroplasty**, Pioneer Surgical Technology, Inc, Marquette, MI, 2009 to 2010

Principal Investigator: Pivotal FDA IDE Clinical Study - A Clinical Study Comparing Dynamic Stabilization of the Lumbar Spine with the **STABILIMAX NZ™** Dynamic Spine Stabilization System to Posterolateral Instrumented Fusion, Applied Spine Technologies, New Haven, CT, 2007 to 2010

Principal Investigator: Pivotal FDA IDE Clinical Study – A Prospective Randomized Controlled Clinical Investigation of **DIAM Spinal Stabilization System** in Patients with Lumbar Degenerative Disc Disease, Medtronic Inc, Memphis, TN, 2007 to 2008

Principal Investigator: Pivotal FDA IDE Clinical study – A Pivotal Multi-Center Randomized Controlled Trial Evaluating the Safety and Effectiveness of **NeoDisc** versus Instrumented Anterior Cervical Discectomy and Fusion (ACDF) in Subjects with Single Level Cervical Disc Disease, Nuvasive, San Diego, CA, 2006 to 2009

Co-Investigator: Pivotal IDE clinical Study - **PCM Artificial Cervical Disc Replacement**, Cervitech Inc., Rockaway, NJ, 2006 to 2008.

Principal Investigator: Pivotal FDA IDE clinical Study of the **Dynesys Spinal System** as a Non-Fusion for Spinal Stabilization, Zimmer Spine, Minneapolis, MN, 2003 to 2006

Co-Investigator: Pivotal IDE study of the **Bryan Cervical Disc Prosthesis** in the Treatment of Degenerative Disc, Medtronic Inc, Memphis, TN, 2003 to 2004.

Co-Investigator: Pivotal IDE study of the **SBIII Charité Lumbar Disc Prosthesis**, Johnson and Johnson, Raynham, MA, 2001-2004.

HONORS AND AWARDS

1987 – 1988	Best Resident , B.Y.L. Nair Charitable Hospital / Bombay, India
1980	Honors in Human Anatomy , University of Bombay / Bombay, India
1988	Dr H.D. Dastur Gold Medal (1st Rank), <i>FCPS.Orth.</i> Examinations / Bombay, India
1992	Khazenifar Gold Medal , Best overall clinical performance at the <i>Mch. Orth.</i> Examinations / University of Liverpool, U.K.

EXPERIENCE

April 2005 - Present

Director, Orthopaedic Spine Surgery

Cedars-Sinai Institute for Spinal Disorders, Cedars-Sinai Medical Center, Los Angeles, California

March 2004 – 2007

Director, Minimally Invasive Spinal Surgery

Cedars-Sinai Institute for Spinal Disorders, Cedars-Sinai Medical Center, Los Angeles, California

January 2002 – April 2005

Director, Spine Trauma

Cedars-Sinai Institute for Spinal Disorders, Cedars-Sinai Medical Center, Los Angeles, California

September 2000 – December 2001

Orthopaedic Spine Surgeon

Cedars-Sinai Institute for Spinal Disorders, Cedars-Sinai Medical Center, Los Angeles, California

July 1996 – June 2000

Orthopaedic Residency

Albert Einstein College of Medicine, Orthopaedic Program at Bronx Lebanon Hospital Center
Bronx, New York

November 1998 – January 1999

Elective Spine Surgery Rotation

Texas Back Institute, Plano, Texas

July 1995 – July 1996

Surgical Internship

New York Medical College, Lincoln Medical & Mental Health Center, Bronx, New York

March 1994 – July 1995

Staff Orthopaedic Surgeon

New York Hospital, Cornell University, New York, New York

August 1994 – July 1995

Trauma Fellowship

Hospital for Special Surgery, Cornell University, New York, New York

March 1994 – July 1994

Scoliosis Fellowship

Hospital for Special Surgery, Cornell University, New York, New York

August 1993 – February 1994

Reconstructive Spinal Surgery Fellowship

University of Florida, Gainesville, Florida

January 1993 – June 1993

Orthopaedic Residency

Royal Liverpool University Hospital, Liverpool, United Kingdom

January 1990 – December 1992

Orthopaedic Residency

Royal College of Surgeons of England, London, United Kingdom

February 1985 – December 1984

Orthopaedic Residency

B.Y.L.Nair Ch. Hospital, Bombay, India

PUBLICATIONS

1. **Anand N**, DeLima DF, Tanna DD: Internal Fixation of Pott's Fractures. *Clinical Orthopedics India* 3:113-119, 1988.
2. **Anand N**, DeLima DF, Rao AA, Tanna DD: Harrington Rod versus Segmental Spinal Instrumentation for Traumatic Spines. *Clinical Orthopedics India* 4:33-38, 1989.
3. **Anand N**, Agrawal VA, Laheri VJ, Tanna DD: Intramedullary Fixation of Fracture of Shaft Femur with K-Nail. *Bombay Hospital Journal* 31 (3):63-68, 1989.
4. **Anand N**, DeLima DF, Tanna DD: Isolated Posterior Dislocation of the Radial Head in an Adult. *Bombay Hospital Journal* 32 (4):115-116, 1990.
5. Agrawal VA, Maniar RN, **Anand N**, Talwalkar CA: Papineau Bone Grafting in cases of Infected Bony Cavities and Infected Non-Unions. *Bombay Hospital Journal* 32 (2):25-28, 1990.
6. **Anand N**, Klenerman L: Ankle Fractures in the Elderly - MUA v/s ORIF. *Injury* 24 (2):116-120, 1993.
7. **Anand N**, Tanna DD. Unconventional Pedicle Spinal Instrumentation - The Bombay Experience (A study of 90 patients - Late Results). *Spine* 19:2150-2158, 1994.
8. **Anand N**, Levine DL, Burke S, Bansal M: Neuropathic (Charcot) Spinal Arthropathy in Charcot-Marie-Tooth Disease. *J Bone and Joint Surg.* 79-A (8):1235-1239, August 1997.
9. **Anand N**, Helfet DL, Malkani AL, Quinn TJ, Green DST, Burga S: Intraoperative Monitoring of Motor Pathways during Operative Fixation of Acute Acetabular Fractures. *The Journal of Orthopedic Trauma* 11(1):2-6, 1997.
10. **Anand N**, Idio Jr. FG, Remer S, Hoppenfeld S: The Effects of Perioperative Blood Salvage and Autologous Blood Donation on Transfusion Requirements in Scoliosis Surgery. *Journal of Spinal Disorders* 11(6):532-534, December 1998.
11. **Anand N**, Helfet DL: Acute Both Column Fractures of the Acetabulum, Orthopaedic Grand Rounds-Trauma, AAOS CD ROM Publications, 2000.
12. **Anand N**, Regan JJ, Bray RS: Cervical Spine Disability Questionnaire and Treatment Intensity Questionnaire-Objective Outcome Measures of Cervical Spine Functional Status. An Analysis of Psychometric Properties, December 2001.

13. **Anand N**, Regan JJ, Bray RS: Posterior Cervical Foraminotomy - Long-term Results and Functional Outcome of a Consecutive Series of Patients with Minimum 2-year Follow-Up. *The Spine Journal* 2(2):5, March 2002.
14. **Anand N**, Regan JJ: Video-Assisted Thoracoscopic Surgery for Thoracic Disc Herniation – Classification and Outcome Study of 100 Consecutive Cases with Min. 2 year Follow-up. *Spine* 27 (8): 871-879, 2002.
15. **Anand N**, Helfet DL, Kloen P, Rosen, HS: Open Reduction and Internal Fixation of Delayed Unions and Nonunions of Fractures of the Distal Part of the Humerus. *J Bone and Joint Surg.* 85-A(1):33-40, Jan 2003.
16. **Anand N**, Helfet DL, Kloen P, , Rosen HS: ORIF of Delayed Unions and Nonunions of Distal Humeral Fractures Surgical Technique. *J Bone and Joint Surgical Techniques*, 86-A (1):18-29, March 2004.
17. Johnson JP, Laurysen C, Cambron HO, **Anand N**, Pashman RS, Regan JJ, Bray R: Sagittal alignment and the Bryan cervical artificial disc. *Neurosurg Focus* 17(6): E14, Dec 15, 2004.
18. Johnson JP, Pashman RS, Laurysen C, **Anand N.**, Regan JJ, Bray RS: The Changing Role for Neurosurgeons and the Treatment Spinal Deformity. *J Neurosurg Spine* 2:233-242, March 2005.
19. Harrop JS, Vaccaro AR, Hurlbert RJ, Wilsey JT, Baron EM, Shaffrey CI, Fisher CG, Dvorak MF, Oner FC, Wood KB, **Anand N**, Anderson DG, Lim MR, Lee JY, Bono CM, Arnold PM, Rampersaud YR, Fehlings MG; Spine Trauma Study Group: Intrarater and interrater reliability and validity in the assessment of the mechanism of injury and integrity of the posterior ligamentous complex: a novel injury severity scoring system for thoracolumbar injuries. Invited submission from the Joint Section Meeting on Disorders of the Spine and Peripheral Nerves, March 2005. *Journal of Neurosurgery Spine* 4(2):118-122, Feb 2006.
20. James S. Harrop, M.D., Alexander R. Vaccaro, M.D., R. John Hurlbert, M.D., Ph.D., Jared T. Wilsey, Ph.D., Eli M. Baron, M.D., Christopher I. Shaffrey, M.D., Charles G. Fisher, M.D., Marcel F. Dvorak, M.D., F. C. Öner, M.D., Kirkham B. Wood, M.D., **Neel Anand, M.D.**, D. Greg Anderson, M.D., Moe R. Lim, M.D., Joon Y. Lee, M.D., Christopher M. Bono, M.D., Paul M. Arnold, M.D., Y. Raja Rampersaud, M.D., Michael G. Fehlings, M.D., Ph.D., and The Spine Trauma Study Group Intrarater and interrater reliability and validity in the assessment of the mechanism of injury and integrity of the posterior ligamentous complex: a novel injury severity scoring system for thoracolumbar injuries Invited submission from the Joint Section Meeting on Disorders of the Spine and Peripheral Nerves, March 2005. *WSJ.* 2006;1(2):40-44
21. **Anand N**, Vaccaro AR, Lim MR, Lee JY, Arnold P, Harrop JS, Ratlif J, Rampersaud R, Bono CM, Spine Trauma Group: Evolution of Thoracolumbar Trauma Classification Systems: Assessing the conflict between mechanism and morphology of injury. *Top Spinal Cord Inj Rehabil* 2006; 12 (1): 70-78
22. Rampersaud YR, **Anand N**, Dekutoski MB.: Use of minimally invasive surgical techniques in the management of thoracolumbar trauma: current concepts. *Spine.* 2006 May 15;31(11 Suppl):S96-102; discussion S104. Review
23. Bono CM, Vaccaro AR, Hurlbert RJ, Arnold P, Oner FC, Harrop J, **Anand N**: Validating a Newly Proposed Classification System for Thoracolumbar Spine Trauma: Looking to the Future of the Thoracolumbar Injury Classification Injury Classification and Severity Score (TLICS), *J Orthop Trauma.* 2006 Sep; 20 (8): 567-572

24. **Anand N**, Hamilton JF, Perri BR, Miraliakbar H, Goldstein T: Cantilever TLIF with structural allograft and rhBMP2 for correction and maintenance of segmental sagittal lordosis: clinical, radiographic and functional outcome. *Spine*. 2006 Sep 15;31(20):E748-53.
25. Raja Rampersaud Y, Fisher C, Wilsey J, Arnold P, **Anand N**, Bono CM, Dailey AT, Dvorak M, Fehlings MG, Harrop JS, Oner FC, Vaccaro AR.: Agreement between Orthopedic and Neurosurgeons regarding a new algorithm for the treatment of thoracolumbar injuries: a multi-center reliability study. *J Spinal Disord Tech*. 2006 Oct;19(7):477-482
26. Perri BR, Cooper M, Laurysen C, **Anand N**: Adverse swelling associated with use of rh-BMP-2 in anterior cervical discectomy and fusion: a case study. *The spine journal* 2007;7:235-239.
27. **Anand N**, Ratliff J, Vaccaro AR, Lim MR, Lee JY, Arnold P, Harrop JS, Rampersaud YR, Bono CM, and the Spine Trauma Study Group: Regional Variability in Use of a Novel Assessment of Thoracolumbar Spine Fractures: United States versus International Surgeons. Neurosurgery (in review)
28. John Ratliff, **Neel Anand** , Alexander Vaccaro , Moe Lim , Joon Lee , Paul Arnold , James Harrop , Raja Rampersaud , Christopher Bono , Ralf Gahr: Regional Variability in Use of a Novel Assessment of Thoracolumbar Spine Fractures: United States versus International Surgeons. *World J Emerg Surg*. 2007 Sep 7;2 (1):24 17825106
29. **Anand, N**, Baron, EM, Bray, RS. Benefits of Paraspinal muscle-sparing approach versus the conventional Midline approach for Posterior NonFusion Stabilization – Comparative analysis of clinical and functional outcomes. *SAS Journal September 2007 (Vol. 1, Issue 3, Pages 93-99)*. DOI: SASJ-2007-0006-RR
30. **N. Anand**, E. Baron. Unilateral TLIF with Unilateral Instrumentation: A Consecutive Series of 35 Patients with Minimum 2 Year Follow-up. *The Spine Journal, Volume 7, Issue 5, Pages 157S-158S*
31. Ali Araghi, **Neel Anand**, Harvinder Sandhu, Hyun Bae; Clinical Symposium I: Pedicle-Based Posterior Non-Fusion Stabilization; *The SAS Journal; December 2007 (Vol. 1, Issue 4, Pages 147-159)*
32. **Anand, N**, Baron, EM, Thaiyananthan, T, Khalsa, K, Goldstien, TB. Minimally invasive spinal fusion for lumbar degenerative scoliosis: Feasibility Study. *Journal of Spinal Disorders and Techniques*. October 2008, 21(7):459-67.
33. **Anand, N**, Baron, EM, Bray, RS, Jr. Modified Muscle-Sparing Paraspinal Approach for Stabilization and Interlaminar decompression – A Minimally Invasive Technique for Pedicle Screw-Based Posterior Non-Fusion Stabilization. *SAS Journal*. March 2008 (Vol. 2, Issue 1, Pages 40-42). DOI: SASJ- 2007-0120-MIS
34. Mark Dekutoski, **Neel Anand**, Ralf Gahr, Laurie Mihalik, Paul Huddleston; Open vs Percutaneous Stabilization of Thoracic and Lumbar Fracture in Ankylosing Spondylitis and DISH. *The Spine Journal, Volume 8, Issue 5, page 181S (2008)*
35. **Neel Anand**, Harvinder Sandhu: Clinical Symposium II: Interspinous-based Dynamic Stabilization; *The SAS Journal; September 2008 (Vol. 2, Issue 3, Pages 150-154)*
36. Mark Dekutoski, Paul Huddleston, **Neel Anand**, Joseph Riina, Robert Isaacs, Ralf Gahr; Thoracolumbar Fracture Management with Selective Fusion and Instrumentation Removal Open vs Percutaneous Stabilization of Thoracic and Lumbar Fracture in Ankylosing Spondylitis and DISH. *The Spine Journal, Volume 9, Issue 5, pages 83-84S (2009)*

37. A Ploumis, R Ponnappan, J Sarbello, M Dvorak, M Fehlings, E Baron, **N. Anand**, D. Okonkwo, A Patel, A Vaccaro: Thromboprophylaxis in Traumatic and Elective Spinal Surgery; *SPINE Volume 35, Number 3*, pp 323–329 (2010)
38. **N. Anand**, R. Rosemann, B Khalsa, E Baron; Mid-term to long-term clinical and functional outcomes of minimally invasive correction and fusion for adults with scoliosis; *Neurosurg Focus 28 (3):E6*, (2010)

CHAPTERS

1. **Anand N**, Helfet D: chapter 8: Cannulated Screws in Pelvic Fractures. In: *Cannulated Screw Fixation—Principles and Operative Techniques*, eds. Stanley E. Asnis MD and Richard F. Kyle MD, Springer-Verlag, NY, 1996.
2. **Anand N**, Helfet DL: Acute Both Column Fractures of the Acetabulum. *Orthopaedic Grand Rounds - Trauma*, AAOS CD ROM Publications, 2000.
3. **Anand N**, Regan JJ., Thoracic Disease, ch 9, pg 103 in *Atlas of Minimal Access Spine Surgery*, 2nd Edition. eds. Regan JJ., Lieberman IH., Quality Medical Publishing, Inc., St Louis, Missouri, 2004
4. Regan, J., **Anand, N.** Khoo, L. Virella, A., Pahl, M. Vaccaro, A.R.: Complications of Minimally Invasive Spinal Surgery – Part II:Thoracoscopy. *Complications of Pediatric and Adult Spinal Surgery*. Marcel Dekker. New York. pp. 525-536, 2004.
5. Regan, J., **Anand, N.** Khoo, L. Virella, A., Pahl, M. Vaccaro, A.R.: Complications of Minimally Invasive Spinal Surgery – Part III:Laparoscopy. *Complications of Pediatric and Adult Spinal Surgery*. Marcel Dekker. New York. pp. 537-546, 2004
6. **Anand N**, Gravori T: Transverse ligamentous injuries: mechanism of injury, classification, initial treatment, definitive treatment, prognosis, complications. In: A. Vaccaro, P. Anderson (ed) *Cervical Spine Trauma*, November 2005.
7. **Anand N**, Perri B: Posterior cervical osteotomy techniques. In: Vaccaro A (ed) *Atlas of Operative Techniques in Spinal Surgery*, Elsevier, New York, NY, 2007.
8. Zeiler, SC, Baron, EM, Hilibrand AR, **Anand, N.** Vaccaro, AR. Thoracolumbar Fractures: Classification and Management in *Neurosurgical Trauma and Critical Care of the Spine*. Jallo, J and Vaccaro, AR editors. Thieme 2009, pp143 -157.
9. Baron, EM., Siddique, K. Perri, B, **Anand, N.** Johnson, JP Transoral Odontoid resection. *Operative Techniques in Orthopaedics*, Elsevier, 2007.
10. **Anand, N.**, Baron, EM. Extreme Lateral Interbody Fusion (XLIF) in Lewandrowsk, K ed. *Minimally Invasive Spinal Fusion Techniques*. Summit Communications, 2008, p161-172.

11. **Anand, N**, Baron EM. Lateral Interbody Fusion in Surgery in Bridwell, K (ed). *Operative Spine Surgery*, Lippincott Williams & Wilkins , 2008
12. Baron, EM, **Anand, N**, Vaccaro, AR in Goodrich, J.A., Volcan, I. J. Complications of Extreme Lateral Interbody Fusion (XLIF). *eXtreme Lateral Interbody Fusion (XLIF)*. Quality Medical Publishers, St. Louis 2008, p. 117-126.
13. **Anand, N**, Baron, EM, Dekutoski, M. Minimally Invasive Posterior Stabilization Techniques in Trauma in Vacarro, AR, Fehlings, MG, Dvorak, M. *Spine And Spinal Cord Trauma*, Thieme Medical Publishers, 2010
14. **Anand, N**, Baron, EM, Rosemann, R. Minimally Invasive Techniques Using Tubular Retractors for Disc Herniations and Stenosis in Bridwell, K (ed) *Operative Spine Surgery*, Lippincott Williams & Wilkins, 2008
15. **Anand, N.**, Baron, EM. Pedicle Screw Based Dynamic Stabilization for Degenerative Disc Disease in Phillips, FM and Laurysen, C, ed. *The Lumbar Intervertebral Disc*. 2009
16. **Anand, N**, Baron, EM. Rosemann, R. Scoliosis Treatment Using Minimally Invasive Techniques in Perez-Cruet, MJ, Beisse, R, Pimenta, L and Kim, D. *Minimally Invasive Spine Fusion: Techniques and Operative Nuances*. Quality Medical Publishing, 2009
17. **Anand, N**, Baron, EM, Wupperman, R. Minimally Invasive Posterior Spinal Fixation. Video Chapter. In Vacarro, AR, ed. *Spine Trauma Study Group Video Surgical Techniques*, Thieme Medical Publishing, New York, 2009.
18. **Anand, N**, Baron, EM. Hybrid Technologies: Lumbar Nucleus Arthroplasty with Lumbar Posterior Dynamic Stabilization. SONA. Volume 5 – Number 2 – May 2008. Special NASS Edition - October 14-18, 2008, Toronto, Canada,
19. Baron, EM, **Anand, N**. Post traumatic Kyphosis and Flatback Deformity. Interactive Educational Program: Spine Fellows. <http://www.spinefellows.com/index.html>. 2008
20. **Anand, N**, Ghostine, S, Baron, EM, Dekutoski, MB. Percutaneous/Minimally Invasive Treatment for Thoracolumbar Fractures in Patel, V, Burger, E and Brown, C (eds) *Spine Trauma - Surgical Technique*. Springer, 2009.
21. Dekutoski, MB, **Anand, N**, Baron EM. Ankylosing Spondylitis and DISH in Patel, V, Burger, E and Brown, C (eds) *Spine Trauma - Surgical Technique*. Springer, 2009.
22. **Anand, N**, Salinas, P, Baron, EM. Pedicle Based Dynamic Stabilization in Lewandrowski K, Spoonamore, M, Harms, J, Araghi, A, Schwender, JD, McLain RF. *Technical Caveats of Minimally Invasive Spine Surgery— Clinical Examples of Anatomy, Biomechanics, Biologics and Revision Strategies*. Informa USA, 2010.

23. **Anand, N**, Baron, EM, Rosemann, R. Minimally Invasive Deformity Correction in Lewandrowski K, Spoonamore, M, Harms, J, Araghi, A, Schwender, JD, McLain RF. *Technical Caveats of Minimally Invasive Spine Surgery— Clinical Examples of Anatomy, Biomechanics, Biologics and Revision Strategies*. Informa USA, 2010.
24. Baron, EM, **Anand, N**. Discectomy and Interbody Fusion in Malhotra, R. *Mastering Orthopaedic Techniques*. Jaypee Brothers Medical Publishers Private Limited, India, 2010
25. Baron, EM, **Anand, N**. Transsacral Discectomy and Interbody Fusion in Malhotra, R. *Mastering Orthopaedic Techniques*. Jaypee Brothers Medical Publishers Private Limited, India, 2010
26. Woods, Kamal, Baron, EM, **Anand, N**. Vaccaro, AR,. Transforaminal Lumbar Interbody Fusion. in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
27. **Anand, N**, Baron, EM, Davis T. Transpoas approaches to the thoracolumbar spine for discectomy and fusion,. Transforaminal Lumbar Interbody Fusion. in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
28. Jeswani, S, Baron, EM, **Anand, N**. Lumbar Internal Laminectomy. in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
29. **Anand, N**, Woods, K, Baron EM. Transforaminal lumbar interbody fusion (TLIF) video in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
30. **Anand, N**, Baron, EM, Jeswani S. Lumbar Internal Laminectomy Video in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
31. **Anand, N**, Baron, EM, Kahwaty, S. Minimally Invasive Spinal Deformity Correction Video in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
32. Baron, EM, **Anand, N**. Minimally Invasive Spinal fixation for trauma video in Vaccaro, A, Baron, EM Atlas of Spinal Surgery. 2nd edition Elsevier Medical Publishing, Philadelphia. 2011
33. **Anand, N**, Baron, EM, Smith, DA, Cahill, DW. Vascular and Soft Tissue Complications. Benzel, E. Spine Surgery 3rd edition, Elsevier Medical Publishing, Philadelphia. 2011

ABSTRACTS (POSTERS AND PODIUM PRESENTATIONS)

1. **Anand N**, DeLima DF, Tanna DD: Spinal Stenosis - A Sequel of Healed Spinal Tuberculosis. Second Annual Conference of the Association of Spinal Surgeons of India, May 1987.
2. Maniar RN, Tanna DD, **Anand N**: Bone Substitutes. Bombay Orthopedic Society, Silver Jubilee conference, December 1989.
3. **Anand N**: Update on Cervical Spondylotic Myelopathy. 10th Spinal Update Meeting, Bombay 1989.
4. Laheri VJ, **Anand N**: PLIF with Posterior Interpedicular Screw and Plate Fixation. Fourth International Conference on Posterior Lumbar Interbody Fusion (PLIF), Goa, India 1989.
5. **Anand N**, Tanna DD: Management of Unstable Fractures with I.M. Nails and Screws - Fresh Thinking. XXXIV Annual Conference of the Indian Orthopedic Association, Ahmedabad, October 1989.
6. Tanna DD, **Anand N**, Shah NA: Spinal Plating - Early Experiences. Bombay Orthopedic Society, Silver Jubilee conference, December 1989.
7. **Anand N**, Tanna DD, Sonawalla D: 95° DCS for Trochanteric Fractures. Bombay Orthopedic Society, Silver Jubilee conference, December 1989.
8. **Anand N**, Beddow FH: Some Observations on the Investigation and Treatment of Rotator Cuff Tears of the Shoulder. ODTS day at the Royal College of Surgeons of England, London, July 1990.
9. **Anand N**, Professor Klenerman L: Ankle Fractures in the Elderly - MUA v/s ORIF. ODTS day at the Royal College of Surgeons of England, London, July 1991.
10. **Anand N**, Laheri VJ, Tanna DD: Evaluation of Transpedicular Screw and Plate Fixation for Dorsal and Lumbar Spinal Injuries. XXXVI Annual Conference of the Indian Orthopedic Association, Madras, India, December 1991.
11. **Anand N**, Professor Klenerman L: Ankle Fractures in the Elderly - MUA v/s ORIF. XXXVI Annual Conference of the Indian Orthopedic Association, Madras, India, December 1991.
12. **Anand N**, Tanna DD: Unconventional Pedicle Spinal Instrumentation - The Bombay Experience. XXXVI Annual Conference of the Indian Orthopedic Association, Madras, India, December 1991.
13. (A study of 90 patients - Late Results). Spine + Science + Management Meeting, New Orleans, November 1993.
14. **Anand N**, Bossons C, Sutterlin III CE: Sacral Fixation with the TSRH Variable Angle Pedicle Screw. Spine + Science + Management Meeting, New Orleans, November 1993.
15. **Anand N**, Tanna DD: Unconventional Pedicle Spinal Instrumentation-The Bombay Experience (A study of 90 patients-Late Results), Spine+ Science+ Management Meeting, New Orleans, November 1993.
16. **Anand N**, Bossons C, Sutterlin III CE: Sacral Fixation with the TSRH Variable Angle Pedicle Screw. Spine Across the Sea, Maui, Hawaii, April 1994.

17. **Anand N**, Lowery GL, Fernandez D,: A New Technique for the Reduction of Spondylolisthesis.Spine Across the Sea, Maui, Hawaii, April 1994.
18. **Anand N**, Lowery GL, Fernandez D,: A New Technique for the Reduction of Spondylolisthesis.1994 American-European Meeting on Pedicle Fixation of the Spine and Other Advanced Techniques, Munich, Germany, July 1994.
19. **Anand N**, Bossons C, Sutterlin III CE: Sacral Fixation with the TSRH Variable Angle Pedicle Screw. Scoliosis Research Society Annual Meeting, Portland, Oregon, October 1994.
20. **Anand N**, Bossons C, Sutterlin III CE: Sacral Fixation with the TSRH Variable Angle Pedicle Screw. Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, October 1994.
21. **Anand N**, Lowery GL, Fernandez D,: A New Technique for the Reduction of Spondylolisthesis. International Symposium on the Lumbar Spine, Brussels, Belgium, August 1994.
22. **Anand N**, Malkani AL, , Helfet DL, Figgie MP: Pelvic Discontinuity in Revision Total Hip Arthroplasty. The AAOS 63rd Annual Meeting, Atlanta, GA, February 1996.
23. **Anand N**, Idio Jr., FG, Remer S, Hoppenfeld S: The Effects of Perioperative Blood Salvage and Autologous Blood Donation on Transfusion Requirements in Scoliosis Surgery. 31st Annual AOA Resident's Conference, Sacramento, February 1998.
24. **Anand N**, Mey S, Weinstein RN: Supination-External Rotation Type 2 Injuries of the Ankle: Prospective Randomized Study Comparing of Immediate Mobilization to Cast Immobilization. The AAOS 66th Annual Meeting, Anaheim, CA, February 1999.
25. **Anand N**, Mey S, Weinstein RN: "Boxer's Fracture"- A Prospective Randomized Study Comparing Immediate Mobilization to Immobilization. The AAOS 66th Annual Meeting, Anaheim, CA, February 1999.
26. **Anand N**, Mey S, Weinstein RN: Supination-External Rotation Type 2 Injuries of the Ankle: Prospective Randomized Study Comparing of Immediate Mobilization to Cast Immobilization. 32nd Annual AOA Resident's Conference, Chapel Hill, NC, March 1999.
27. **Anand N**, Fischio H, Ahrens JE, Regan JJ: Video-Assisted Thoracoscopic Surgery for Thoracic Disc Herniation – Classification and Outcome Study of 100 Consecutive Cases with Minimum 2 year Follow-up. 33rd AOA Annual Residents Conference, St Louis, Feb 2000.
28. **Anand N**, Fischio H, Ahrens JE, Regan JJ: Video-Assisted Thoracoscopic Surgery for Thoracic Disc Herniation – Classification and Outcome Study of 100 Consecutive Cases with Minimum 2 year Follow-up. The AAOS 67th Annual Meeting, Orlando, March 2000.
29. **Anand N**, Fischio H, Ahrens JE, Regan JJ: Video-Assisted Thoracoscopic Surgery for Thoracic Disc Herniation – Classification and Outcome Study of 100 Consecutive Cases with Minimum 2 year Follow-up. NASS Annual Meeting, New Orleans, October 2000.
30. **Anand N**, Regan JJ, Bray RS: Posterior Cervical Foraminotomy - Long-term Results and Functional Outcome of a Consecutive Series of Patients with minimum 2-year follow-up. NASS Annual Meeting, Seattle, October 2001.

31. **Anand N**, Regan JJ, Bray RS: Cervical Spine Disability Questionnaire and Treatment Intensity Questionnaire - Objective Outcome Measures of Cervical Spine Functional Status. An Analysis of Psychometric Properties. CSRS Annual Meeting, Monterey, CA, December 2001.
32. **Anand N**, Regan JJ, Bray RS: Posterior Cervical Foraminotomy - Long-term Results and Functional Outcome of a Consecutive Series of Patients with minimum 2-year follow-up. The AAOS 69th Annual Meeting, Dallas, February 2002.
33. **Anand N**, Johnson JP, Pashman RS, Regan JR, , Rogers C: Management of Upper Thoracic and Cervical-Thoracic Junction Kyphotic Deformities. AANS/CNS Joint Section on the Disorders of the Spine and Peripheral Nerves, Tampa, FL, March 2003.
34. **Anand N**, Report on Vertebral Augmentation for Osteoporotic Compression Fracture, AAOS/AOFM 2003
35. John J.Regan., Alan Villavicencio, **Neel Anand**.: Computer-Assisted Endoscopic Pedicle Fixation: Evaluation of Electromagnetic Fluoroscopy and Flourocat in a Cadaver Model. World Spine III, Chicago, 2003
36. **Anand N**, Johnson JP, Pashman RS, Regan JJ,: Management of cervical-thoracic junction kyphotic deformities. American Association of Neurological Surgeons, Orlando, FL, May 2004.
37. **Anand N**, Hamilton J,: Cantilever TLIF (C-TLIF) for Maintenance and Correction of Segmental Sagittal Deformity. IMAST, Bermuda, July 2004.
38. **Anand N**, Hamilton J,: Cantilever TLIF (C-TLIF) for Maintenance and Correction of Segmental Sagittal Deformity. Innovative Treatment Options in Spine Surgery, SRS 39th Annual Meeting, Buenos Aires, September 2004.
39. **Anand N**, Hamilton J,: Cantilever TLIF (C-TLIF) for Reduction of Spondylolisthesis. Innovative Treatment Options in Spine Surgery, SRS 39th Annual Meeting, Buenos Aires, September 2004.
40. **Anand N**, Hamilton J,: Management of Osteomyelitis Post Kyphoplasty in an Elderly Osteoporotic Patient with Rheumatoid Arthritis: Case Report and Review of the Literature. AANS Spine Section, March 9 - 12, 2005.
41. **Anand N**, Hamilton J,: Unilateral Pedicle Screws with Cantilever Transforaminal Lumbar Interbody Fusion (TLIF) in the Treatment of Single Level Degenerative Scoliosis: A Case Series with Analysis of a Novel Surgical Technique. AANS Spine Section, March 9 - 12, 2005.
42. **Anand N**, Johnson JP, Lauryssen C, Cambron HO, Pashman RS, Regan JJ, , Bray RS: Sagittal alignment of the Bryan Cervical Artificial Disc. American Association of Neurological Surgeons, New Orleans, LA, April 2005.
43. **Anand N**, Wolcott WP, Johnson JP, Pashman RS, Bray RS, , Cambron HO: Sagittal alignment of the Bryan cervical artificial disc. Spine Arthroplasty 5, New York, NY, May 2005.
44. **Anand N**, Hamilton J,: Unilateral Pedicle Screws with Cantilever Transforaminal Lumbar Interbody Fusion (TLIF) in the Treatment of Single Level Degenerative Scoliosis: A Case Series with Analysis of a Novel Surgical Technique. IMAST, Alberta, Canada, July 7 - 9, 2005.

45. **Anand N**, Hamilton J: Unilateral Pedicle Screws with Cantilever Transforaminal Lumbar Interbody Fusion (TLIF) in the Treatment of Single Level Degenerative Scoliosis: A Case Series with Analysis of a Novel Surgical Technique. World Spine Society, Rio de Janeiro, Brazil, July 31 - August 4, 2005.
46. **Anand N**, Johnson JP, Melamed H, Hunt L, Pashman RS, Wolcott WP: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. Congress of Neurological Surgeons, Boston, Massachusetts, Oct. 2005.
47. **Anand N**, Hamilton J: Unilateral Pedicle Screws with Cantilever Transforaminal Lumbar Interbody Fusion (TLIF) in the Treatment of Single Level Degenerative Scoliosis: A Case Series with Analysis of a Novel Surgical Technique, Congress of Neurological Surgeons, Boston, Massachusetts, October 2005.
48. **Anand N**, Gravori T: Transverse Ligamentous Injuries: Mechanism of Injury, Classification, Initial Treatment, Definitive Treatment, Prognosis, Complications, Cervical Spine Trauma, November 2005.
49. Johnson JP, Melamed H, **Anand N**, Hunt LA, Pashman RS, Wolcott PW: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. American Assoc of Neurological Surgeons, San Francisco, CA, April 2006.
50. **Anand N**, Bray RS: Comparison of traditional midline approach versus muscle splitting paraspinous approach for posterior non-fusion stabilization of the lumbar spine- an analysis of early functional outcome. Spine Arthroplasty Society 6, Montreal, Quebec, Canada, May 2006.
51. **Anand N**, Perri BR, Bray RS: Radiological analysis of segmental lumbar sagittal alignment following posterior non-fusion stabilization with the Dynesys system. IMAST, Athens, Greece, July 2006.
52. **Anand N**, Bray RS: Comparison of traditional midline approach versus muscle splitting paraspinous approach for posterior non-fusion stabilization of the lumbar spine- an analysis of early functional outcome. IMAST, Athens, Greece, July 2006.
53. **Anand N**, Perri BR, Bray RS: Hybrid combined fusion and non-fusion posterior stabilization of the lumbar spine with the Dynesys system: early clinical, radiological and functional outcomes. IMAST, Athens, Greece, July 2006.
54. **Anand N**, Bray RS: Posterior non-fusion stabilization of the lumbar spine for degenerative disc disease- clinical, radiological and functional results. IMAST, Athens, Greece, July 2006.
55. **Anand N**, Bray RS: Comparison of traditional midline approach versus muscle splitting paraspinous approach for posterior non-fusion stabilization of the lumbar spine- an analysis of early functional outcome. NASS, Seattle, September 2006.
56. Johnson JP, Chuang S, Hunt L, **Anand N**, Pashman RS, Hedman T: Investigation of Injectable Collagen Crosslinking as an Alternative and Adjunctive Procedure in the Treatment of Spinal Deformity. Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, October 2006
57. Dima Sheyn, Gadi Pelled, Zulma Gazit, Christopher J. Zarembinski, **Neel Anand**, Johnson J. Patrick, Dan Gazit: Injectable Adult Stem Cells as a Novel Therapeutic Platform for Anterior and Posterior Spinal Fusion. Joint Section of Spine/Peripheral Nerve Meeting. AANS/CNS. March 2007. Phoenix, AZ

58. **Anand, N**, Baron, EM, Johnson, JP, Bray, RS Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Clinical, Radiological and Functional Results. Joint Section of Spine/Peripheral Nerve Meeting. AANS/CNS. March 2007. Phoenix, AZ
59. **Anand, N**, Baron, EM, Siddique, K, Perri, B, Bray, RS Jr. Comparison of traditional midline approach versus muscle splitting paraspinal approach for posterior non-fusion stabilization of the lumbar spine – An analysis of functional outcome. Joint Section of Spine/Peripheral Nerve Meeting. AANS/CNS. March 2007. Phoenix, AZ
60. **Anand, N**, Baron, EM, Johnson, JP, Bray, RS Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Clinical, Radiological and Functional Results. Spine Arthroplasty Society (SAS) 7th Annual Meeting, Berlin, May 2007
61. **Anand N**, Perri BR, Bray RS: Hybrid combined fusion and non-fusion posterior stabilization of the lumbar spine with the Dynesys system: early clinical, radiological and functional outcomes. Spine Arthroplasty Society (SAS) 7th Annual Meeting, Berlin, May 2007.
62. **Anand, N**, Baron, EM, Johnson, JP, Bray, RS Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Clinical, Radiological and Functional Results. IMAST, Bahamas, July 2007
63. **Anand N**, Perri BR, Bray RS: Hybrid combined fusion and non-fusion posterior stabilization of the lumbar spine with the Dynesys system: early clinical, radiological and functional outcomes. IMAST, Bahamas, July 2007
64. Ghostine, S, Baron, EM, **Anand, N**. TLIF With Unilateral Instrumentation - A Prospective Study Of 35 Patients With Minimum 2 Year Follow-Up. *CNS September 15-20, 2007 San Diego, CA*.
65. **Anand, N**, Baron, EM, Johnson, JP, Bray, RS Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Clinical, Radiological and Functional Results. WOA, San Diego, CA, July 2007
66. **Anand N**, Perri BR, Bray RS: Hybrid combined fusion and non-fusion posterior stabilization of the lumbar spine with the Dynesys system: early clinical, radiological and functional outcomes. WOA, San Diego, CA, July 2007
67. **Anand, N**, Ghostine, S, Baron, EM. TLIF With Unilateral Instrumentation: Long-term results in 35 patients. North American Spine Society (NASS), Austin, TX, 2007
67. **Anand,N**, Thaiyananthan,T, Kalsa, K, Baron, EM, Ammar, KN. Minimally Invasive Percutaneous Multilevel 360 Degree Fusion for Lumbar Degenerative Scoliosis - A Feasibility Study. Georgia Neurosurgical Society Fall Meeting. November 17, 2007. Atlanta, Georgia.
68. **Anand, N**, Baron, EM, Thaiyananthan, T. Feasibility Of Long Segment Percutaneous Minimally Invasive Correction And Fusion For Lumbar Degenerative Scoliosis. Society for Minimally Invasive Surgery of the Spine (SMISS) 2nd Annual Meeting, San Diego, CA. November 16-17, 2007
69. **Anand N**, Kalsa, K, Thaiyananthan,T, Baron, EM. Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis - A Feasibility Study. Spine Arthroplasty Society Asia Pacific Conference Seoul, Korea. January 16-18, 2008.

70. **Anand N**, Thaiyananthan,T, Baron, EM. A Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Early Results. Joint Section of Spine/Peripheral Nerve Meeting. AANS/CNS. February 27 – March 1, 2008. Orlando, FL
71. **Neel Anand, MD**, Eli M. Baron, MD, Ty Thaiyananthan, MD. Novel Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Feasibility, Technique and Early Results. Spine Arthroplasty Society (SAS) Annual Meeting, May 6-9 2008, Miami Beach, FL
72. **Neel Anand, MD**, Richard Wupperman, MD, Eli M. Baron, MD. Minimally invasive AxiaLIF L5-S1 interbody fusion for anterior column support at the end of a long segment fusion: Early results. Spine Arthroplasty Society (SAS) Annual Meeting, May 6-9 2008, Miami Beach, FL
73. **Neel Anand, MD**, Eli Baron, MD, Robert S. Bray, MD. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Minimum 2 year Clinical, Radiological and Functional Results for Back Pain. Spine Arthroplasty Society (SAS) Annual Meeting, May 6-9 2008, Miami, FL
74. P. McAfee, D. Sengupta, **N. Anand**, G. Deol, N. Khanna, D. Tyndall, R. Balderston, A. Ingalhalikar. TRIUMPH™ Posterolateral Artificial Disc Biomechanics: The Effect of Posterior Tethering. Spine Arthroplasty Society (SAS) Annual Meeting, May 6-9 2008, Miami Beach, FL
75. W. Taylor, I. Armstrong, **N. Anand**, B. Arnold, M. Rich . Mechanical testing of a Novel Percutaneous Pedicle Screw-based Motion Neutralization System. Spine Arthroplasty Society (SAS) Annual Meeting, May 6-9 2008, Miami Beach, FL
76. **Anand,N**, Baron, EM, Thaiyananthan,G. Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis - Radiologic and Clinical Follow-up. Accepted International Meeting on Advanced Spinal Techniques (IMAST), Hong Kong, 2008
77. **Anand, N**, Wupperman, R, Baron, EM. Minimally invasive AxiaLIF L5-S1 interbody fusion for anterior column support at the end of a long segment fusion. International Meeting on Advanced Spinal Techniques (IMAST) Hong Kong, 2008
78. Huddleston, P, Dekutoski, M, **Anand, N** et.al. Percutaneous Instrumentation of Thoracic and Lumbar Injuries via Novel Unconstrained/Steerable Rod: Preliminary Results. International Meeting on Advanced Spinal Techniques (IMAST) Hong Kong, 2008
79. **Anand,N**, Baron, EM, Thaiyananthan,G . Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Radiologic and Clinical Follow-up. World Congress of Minimally Invasive Spinal Surgery and Techniques (WCMISS 2008), June 3-7, 2008, Honolulu, Hawaii, USA
80. **Anand, N**, Rosemann, R, Baron, EM. Minimally Invasive Circumferential Correction and Fusion of Lumbar Degenerative Scoliosis: 1 year or greater results. Society for Minimally Invasive Surgery of the Spine (SMISS) 2nd Annual Meeting, Henderson, NV. November 14-15, 2008
81. **Anand, N**, Rosemann, R, Baron, EM. Minimally invasive AxiaLIF L5-S1 Interbody Fusion for anterior column support at the end of a long segment fusion: 1 year Clinical and Functional Outcome. Society for Minimally Invasive Spine Surgery (SMISS), November 13-15, 2008. Henderson, NV

82. **Neel Anand, MD**, Rebecca Rosemann, PA-C, Paul Salinas, MD, Eli M. Baron, MD. Can Minimally Invasive Adult Spinal Deformity Correction maintain Lordosis and Global Sagittal Balance? System. Spine Arthroplasty Society (SAS) Annual Meeting, 2009, London, UK
83. **Neel Anand, MD**, Rebecca Rosemann PA-C, Eli M. Baron, MD Minimally invasive AxiaLIF L5-S1 Interbody Fusion for anterior column support at the end of a long segment fusion: 1 year Clinical and Functional Outcome. Spine Arthroplasty Society (SAS) Annual Meeting, 2009, London, UK
84. **Neel Anand, MD**; Eli Baron, MD, Rebecca Rosemann, MS, PA-C Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease with the Dynesys System – Minimum 3 year Clinical, Radiological and Functional. Spine Arthroplasty Society (SAS) Annual Meeting, 2009, London, UK
85. **Neel Anand, MD**, Eli M. Baron, MD, Rebecca Rosemann, PA-C; Minimally Invasive Percutaneous Circumferential Correction and Fusion for Adult Spinal Deformity: 1.5-year Clinical and Radiological results. Spine Arthroplasty Society (SAS) Annual Meeting, 2009, London, UK
86. **Anand, N**, Baron, EM, Rosemann, R, Härtl, R, Kitchel, S, Patel, V, Safety and Complication Profile of Percutaneous Lumbosacral Interbody Fusion. 16th International Meeting on Advanced Spine Techniques (IMAST), July, 2009, Vienna, Austria
87. **Anand, N**, Rosemann, R, Baron, EM. Minimally invasive AxiaLIF L5-S1 Interbody Fusion for anterior column support at the end of a long segment fusion: 1 year Clinical and Functional Outcome. 16th International Meeting on Advanced Spine Techniques (IMAST), July, 2009, Vienna, Austria
88. **Anand, N**, Baron, EM, Rosemann, R. Minimally Invasive Percutaneous Circumferential Correction and Fusion for Adult Spinal Deformity: 1.5 year Clinical and Radiological Results. 16th International Meeting on Advanced Spine Techniques (IMAST), July, 2009, Vienna, Austria.
89. **Anand, N**, Baron, EM, Rosemann, R. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease with the Dynesys System– Minimum 3 year Clinical, Radiological and Functional Outcomes. 16th International Meeting on Advanced Spine Techniques (IMAST), July 2009, Vienna, Austria.
90. **Anand, N**, Rosemann, R, Salinas, P, Baron, EM. Can Minimally Invasive Adult Spinal Deformity Correction maintain Lordosis and Global Sagittal Balance? 16th International Meeting on Advanced Spine Techniques (IMAST), July 2009, Vienna, Austria.
91. **Anand, N**, Rosemann, R, Lorio, M. One year results from a US IDE trial evaluating a dynamic stabilization system designed to restore the neutral zone .16th International Meeting on Advanced Spine Techniques (IMAST), July 2009, Vienna, Austria.
92. **Anand, N**, Baron, EM, Rosemann, R, Härtl, R, Kitchel, S, Patel, V, Safety and Complication Profile of Percutaneous Lumbosacral Interbody Fusion. Congress of Neurological Surgeons meeting New Orleans, Louisiana, October 24 - 29, 2009.
93. Mark Dekutoski, Paul Huddleston, **Neel Anand**, Joseph Riina, Robert Isaacs, Ralf Gahr; Thoracolumbar Fracture Management with Selective Fusion and Instrumentation Removal Open vs Percutaneous Stabilization of Thoracic and Lumbar Fracture in Ankylosing Spondylitis and DISH. North American Spine Society (NASS), San Francisco, CA, November 2009

94. **N. Anand**, B. Robie, N. Wharton, L. Ferrara, K. Yonemura, A.E. Castellvi: Quantity and Quality of Motion in Stenosis Patients; SAS 10th Annual meeting, New Orleans, LA, April 2010
95. A.E. Castellvi, A. Khandha, N. Wharton, L. Ferrara, **N. Anand**, J. Cheng; An Analysis of the PostOp Performance of the Stabilimax® Posterior Dynamic Stabilization (PDS) Implant through Measurement of Range of Motion (ROM) and InterPedicular Travel (IPT); SAS 10th Annual meeting, New Orleans, LA, April 2010
96. **N. Anand**, R. Rosemann, E. Baron; Mid to Long Term, 1-2 Year Radiological Analysis of Minimally Invasive Surgery for Adult Scoliosis; SAS 10th Annual meeting, New Orleans, LA, April 2010
97. **N. Anand**, R. Rosemann, B. Khalsa, E. Baron; Minimally Invasive AxialLIF L5-S1 Interbody Fusion for Anterior Column Support at the End of a Long Segment Fusion: 1 to 2 year Clinical and Functional Outcomes; SAS 10th Annual meeting, New Orleans, LA, April 2010
98. **N. Anand**, R. Balderstone, P.C. McAfee, S.R. Chinthakunta, S. Khalil, A. Ingalthalikal, M. Moldavsky; Fatigue Effect on an Artificial Posterolateral Lumbar Disc Replacement: An in-vitro Cadaveric Model; SAS 10th Annual meeting, New Orleans, LA, April 2010
99. R. Balderstone, **N. Anand**, G.S. Deol, S.R. Chinthakunta, S. Khalil, A. Ingalthalikal, M. Moldavsky; Determining Physiologic Fatigue Characteristics of an Artificial Posterolateral Lumbar Disc Replacement Using Center of Rotation; SAS 10th Annual meeting, New Orleans, LA, April 2010
100. **N. Anand**, R. Balderstone, S.R. Chinthakunta, S. Khalil, A. Ingalthalikal, M. Moldavsky; Quantifying Subsidence of a Novel Artificial Posterolateral Lumbar Disc Replacement Post-fatigue Testing: A Cadaveric Study; SAS 10th Annual meeting, New Orleans, LA, April 2010
101. R. Balderstone, **N. Anand**, N. Khanna, S.R. Chinthakunta, S. Khalil, A. Ingalthalikal; Migration of an Artificial Posterolateral Lumbar Disc Replacement (PLDR) Pre-fatigue and Post-fatigue: An in-vitro Cadaver Model; SAS 10th Annual meeting, New Orleans, LA, April 2010
102. R.Dryer, J.Regan, C.Hartjen, W.B.Rodgers, D. DiRisio, K.Pettine, J.Youssef, A. Rhyne, E.Laxer, M.Lorio, J.Marzluff, J.Highsmith, K.Rahn, R.Shugart, A.D.Tahernia, C.Morgan, W.Ceola, **N.Anand**, R.Delamarter, S.Hodges; Prospective US IDE Trial: Interim Results for the Treatment of Symptomatic Lumbar Spinal Stenosis with Facet Replacement in 100 Patients Enrolled at 15 Centers; NASS 25th Annual Meeting, Orlando, FL, October 2010
103. **N. Anand**, E. Baron; Safety and Complications of Profile of Percutaneous Lumbosacral Axial Interbody Fusion, Society for Minimally Invasive Spine Surgery (SMISS), Miami, FL, October 2010.
104. D.DiRisio, J.Regan, C.Hartjen, R.Dryer, W.B.Rodgers, K.Pettine, J.Youssef, A.Rhyne, E.Laxer, L.Spector, M.Lorio, J.Marzluff, J.Highsmith, K.Rahn, R.Shugart, A.D.Tahernia, C.Morgan, T.Briggs, J.Ferguson, **N.Anand**, R.Delamarter, S.C.Humphreys, S.Hodges, P.Connolly, Treatment of 110 Symptomatic Lumbar Stenosis Patients at 16 Centers in an FDA IDE Facet Replacement Study; American Assoc. Neurological Surgeons Annual Meeting, Denver, CO, April 9-13, 2011
105. **N. Anand**, S. Kahwaty, S. Daroudi, E. Baron, Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity, ISASS/SAS, Las Vegas, NV, April 26-29, 2011

106. **N. Anand**, S. Kahwaty, E. Baron, S. Daroudi, A. King, O. Boachie-Adjei, Multicenter Minimally Invasive AxiaLIF L5-S1 Interbody Fusion for Anterior Column Support at the End of a Long Segment Construct: Feasibility, Safety, Complications, Early and Late 3 Year Outcomes, ISASS/SAS, Las Vegas, NV, April 26-29, 2011
107. J.A. Youssef, J.J. Regan, C.A. Hartjen, R.F. Dryer, W.B. Rodgers, K. Pettine, D.J. DiRisio, A.L. Rhyne, E.B. Laxer, L.B. Spector, M.P. Lorio, J.M. Marzluff, J.M. Highsmith, K.A. Rahn, R.M. Shugart, A.D. Tahernia, C.J. Morgan, T.B. Briggs, J.F. Ferguson, W.M. Ceola, **N. Anand**, R.B. Delamarter, S.C. Humphreys, S. Hodges, P. Connolly; Prospective Randomized FDA IDE Pivotal Study of Symptomatic Lumbar Spinal Stenosis Patients Treated with ACADIA™: Interim Perioperative and Clinical Outcomes for the Investigational Device, ISASS/SAS, Las Vegas, NV, April 26-29, 2011
108. **Anand, Neel**; Kahwaty, Sheila; Daroudi, Shideh; Baron, Eli; Boachie-Adjei, Ohenaba, Multicenter Minimally Invasive AxiaLIF L5-S1 Interbody Fusion for Anterior Column Support at the End of a Long Segment Construct: Feasibility, Safety, Complications, Early and Late 3 Year Outcomes, Int'l Society for the Study of the Lumbar Spine (ISSLS), Gothenburg, Sweden, June 14-18, 2011
109. **Anand, Neel**; Daroudi, Shideh; Kahwaty, Sheila; Baron, Eli, Long Term 2 To 4 Year Clinical and Functional Outcomes of Minimally Invasive (MIS) For Adult Spinal Deformity, Int'l Society for the Study of the Lumbar Spine (ISSLS), Gothenburg, Sweden, June 14-18, 2011
110. **Neel Anand, MD**; Sheila Kahwaty, PA-C; Babak Khandehroo, MD; Eli Baron, MD; Two to Four Year Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity, IMAST, Copenhagen, Denmark, July 13-16, 2011
111. Dennis Crandall, MD; Eric Huish, BS; Sigurd H. Berven, MD; **Neel Anand, MD**; Murali P. Kadaba, PhD, MBA; Ryan McLemore, PhD; Radiographic Comparison of Fixed Cage vs. Expandable Cage in TLIF, IMAST, Copenhagen, Denmark, July 13-16, 2011

THESES SUBMITTED

1. **"Transpedicular Screw Fixation for Thoracolumbar and Lumbar Spinal Disorders" - The Bombay Experience**
This Thesis was accepted to the *University of Liverpool* for the degree of *Mch.Orth. (1992)*.
2. **"Internal Fixation of Traumatic Spine - An analysis of various methods"**
This Thesis was accepted to the *University of Bombay* for the degree of *M.S.Orth. (1988)*
3. **"Harrington Rod Instrumentation" - A method of treatment for fractures and fracture-dislocations of dorso-lumbar and lumbar spine with neurological involvement.**
This Thesis was accepted to the *College of Physicians and Surgeons of Bombay* for the degree of *F.C.P.S.Orth. (1988)*.

VIDEO

1. **Anand N**, Hamilton J,: Cantilever TLIF (C-TLIF) for Maintenance and Correction of Segmental Sagittal Deformity. Innovative Treatment Options in Spine Surgery, SRS 39th Annual Meeting WEBCAST, Buenos Aires, September 2004.
2. **Anand N**, Hamilton J,: Cantilever TLIF (C-TLIF) for Reduction of Spondylolisthesis. Innovative Treatment Options in Spine Surgery, SRS 39th Annual Meeting WEBCAST, Buenos Aires, September 2004
3. Perri B, Siddique K, **Anand N**, Pashman RS, and Johnson JP. Charité SBIII Artificial Disc Replacement: Techniques for Surgical Implantation. Instructional Video in Vaccaro, AR, Baron, EM *Atlas of Spinal Surgery*. Elsevier Medical Publishing, Philadelphia. 2007
4. Brian Perri, **Neel Anand**, Gabriel Hunt, Leonel Hunt, MD: Cervicothoracic Deformity correction in Vaccaro, AR, Baron, EM *Atlas of Spinal Surgery*. Elsevier Medical Publishing, Philadelphia. 2007
5. **Neel Anand**, and Eli Baron: Paraspinal Approach and interlaminar decompression – A technique for Posterior Non-Fusion Stabilization. *SAS Journal. Winter 2008. 2:40–42. DOI: SASJ- 2007-0120-MIS*

VISITING PROFESSOR

University of California San Diego, Combined Orthopaedic and Neurosurgery Grand Rounds, San Diego, June 2007 – Posterior Non-Fusion Stabilization for Lumbar DDD

University of Virginia Department of Spine Surgery Grand Rounds, Charlottesville, VA, August 2008 – Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis; Direct Lateral Interbody Fusion; CD Longitude Multilevel Percutaneous Fixation

University of South Florida, Department of Orthopedics & Sports Medicine Grand Rounds, Tampa, FL, December 2009 – The Technique as well as the Do's and Don'ts of Minimally Invasive Surgery for Spinal Deformity

Tampa Bay Orthopaedic Society, Tampa, FL, December 2009 – Minimally Invasive Surgery for correction and fusion of Scoliosis

EDITORIAL AND REVIEW WORK

1. Deputy Editor – SAS Journal
2. Peer Reviewer – SAS Journal
3. Ad-Hoc Reviewer - Spine
- Spine Journal
- JBJS
4. Reviewer – SAS 2009
5. Reviewer – NASS 2009

TEACHING CONFERENCES AND SYMPOSIA

COURSE DIRECTOR/CO-DIRECTOR/CHAIRMAN

1. Course Director, Fifth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Feb 3-4, 2006.
2. Course Director, Sixth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Mar 1-3, 2007
3. Chairman, Current Concepts in Spine, Los Angeles, CA, Dec 8, 2007
4. Course Director, Seventh Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Feb 1-3, 2008
5. Course Director, Eighth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Jan 29-Feb 1, 2009
6. Course Co-Chairman, Association of Presacral Spine Surgeons (APSS): Problems and solutions in adult scoliosis treatment: The role of Lumbosacral Fixation, New York, NY, January 2010
7. Course Co-Director, Ninth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Feb. 2-4, 2010
8. Course Chairman, Association of Presacral Spine Surgeons (APSS): Adult Complex Spine Workshop: Current Concepts in Lumbosacral Fixation, Las Vegas, NV, June 2010
9. Course Co-Director, Tenth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, NV, Feb. 3-5, 2011

INVITED SPEAKER/FACULTY/MODERATOR

Emerging Technologies in Spinal Surgery, Washington DC, October 2002

Minimal Access to Spine Surgery – Gas Assisted Laproscopic ALIF
Panel Discussion – Minimally Invasive Surgery

Third Annual Symposium on Current Concepts in Spinal Disorders. La Quinta, CA, February 2004.

Cantilever TLIF
Dynesys

NASS Workshop on “Surgical Approaches and Techniques for the Lumbar Spine”

Open and Laproscopic Approaches for ALIF. St. Louis, Missouri, April 2004.

Spine Technology Education Group. Los Cabos, August 2004.

Dynesys

NASS, Chicago, Illinois, October 2004.

TLIF Workshop

Non-Fusion Technologies/”Soft Restraints”, Practical Anatomy & Surgical Education, St. Louis, Missouri, November 2004.

Posterior Interbody Fusion Techniques (Open-PLIF and TLIF),

AANA. Whistler, British Columbia, Canada, January 2005.

Minimally Invasive Lumbar Fusion/Posterior Lumbar Interbody Fusion

72nd American Association of Orthopedic Surgeons (AAOS) Annual Meeting. Washington, D.C., Febr 2005.

Symposium: Anterior Thoracolumbar Spinal Surgery: Minimal and Maximally Invasive

National Osteoporosis Foundation (NOF) 6th Int’l Symposium on Osteoporosis. Washington, DC, April 2005

Vertebroplasty and Kyphoplasty

Faculty, Bumpers, Tethers, Slings & Things, North American Spine Society (NASS) Spring Break 2005 - Spring into Motion. Bal Harbour, Florida, April 2005.

Dynesys

Hands-on Cadaver Instructional Course, San Diego April 2005

XLIF Training Course - Instructor

Minimally Invasive TLIF Training Course – Instructor

Spine Trauma Study Group, New York, NY, April 2005

Advances in Kyphoplasty

Alternatives to Cement Augmentation

Posterior Dynamic Stabilization Instructional Course, Santa Monica, CA May 2005

Case Presentations – Dynesys

IMAST Annual Meeting, Banff, Canada, July 2005

Minimally Disruptive TLIF

Percutaneous Stabilization of Thoracolumbar Fractures

Kyphoplasty Workshop

2nd Annual Innovative Techniques in Spine Surgery Symposium, Los Cabos, August 2005

Dynesys

Instructor - Kyphoplasty Workshop

Loma Linda Dept of Orthopaedic Annual Meeting, Mammoth Lakes, CA September 2005

Posterior Dynamic Stabilization – Dynesys

Technologies in Spine Surgery, Washington DC, September 2005

XLIF

NASS Annual Meeting, Philadelphia, September 2005

Instructor - Dynesys Workshop

American College of Rheumatology (ACR) National Meeting, San Diego, November 2005

Orthopaedic Symposium, Advances in Orthopaedic Surgery – Vertebroplasty and Kyphoplasty

Hands-on Cadaver Instructional Course, San Diego, December 2005

XLIF Training Course - Instructor

Minimally Invasive TLIF Training Course – Instructor

IOACON 2005, Bombay, India. December 2005

Minimally Invasive Fusion Surgery

Lumbar Disc Herniations

Dynamic Non-Fusion Technology

Microdecompression for Spinal Stenosis

XLIF

Cantilever TLIF

Spine Trauma Study Group (STSG) Meeting, Vancouver, January 2006

MRI Standards in Spine Trauma

Fifth Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, February 2006.

Dynesys: Dynamic Non-Fusion Stabilization

Posterior Lumbar Artificial Disc Devices

XLIF

Cadaver Workshop: MAST TLIF, Thoracic Pedicle Screws

72nd American Association of Orthopedic Surgeons (AAOS) Annual Meeting. Chicago, March 2006

Symposium: Anterior Thoracolumbar Spinal Surgery: Minimal and Maximally Invasive – XLIF

Scoliosis Association Meeting, La Jolla, April 2006

Posterior Non-Fusion Stabilization – Dynesys

1st Spine Technology Summit, Montreal, Quebec, Canada, May 2006

Faculty – Panel Discussion on Posterior Dynamic Stabilization

6th Spine Arthroplasty Society (SAS) Annual Meeting, Montreal, Quebec, Canada, May 2006

Instructional Course – Posterior Non-Fusion Technology

Global Spine 2006, Las Vegas, June 2006

The Role for Minimally Invasive Surgery in Spine Trauma

Cadaver Workshop – MAST TLIF

3rd Annual Innovative Techniques in Spine Surgery Symposium, Los Cabos, June 2006

Dynesys

Lytic Spondylolisthesis – How I do it

Neuromonitoring

IMAST, Athens, Greece, July 2006

Moderator - Spondylolisthesis Symposium

Instructor - ICL: Posterior Percutaneous Instrumentation for Spine Trauma

NASS Annual Meeting, Seattle, September 2006

Trans1 – Workshop

"Contemporary Surgical Techniques in Spine Trauma", Phoenix, October 2006

The MRI & PLC: How it can Guide Treatment in T/L Trauma

Debate: Cervical Fracture Dislocations

Minimally Invasive Surgery of the Spine (SMISS) 2006, San Diego, November 2006

Moderator: Case Presentations

Instructor: XLIF Workshop

Dynesys Course and Workshop, Las Vegas, November 2006

Case Presentations - Dynesys for DDD

HSS Alumni Meeting, New York, November 2006

Debate: Posterior Non-Fusion Stabilization for DDD

Globus Annual Sales Meeting, Tampa, January 2007

Posterior Non-Fusion Stabilization for DDD

Spine Trauma Study Group (STSG) Meeting, Denver, January 2007

MRI to evaluate Cervical Discoligamentous Complex in Cervical Spine Trauma

AANA. Whistler, British Columbia, Canada, January 2007.

Instructor – Dynesys Workshop

Faculty - Adolescent Idiopathic Scoliosis - Update

One Spine Mtg--Controversies in Spine Surgery, Cancun, February 2007

Faculty - Debate: Cervical Arthroplasty is the standard of Care

Faculty - Debate: Fusion for Degenerative Spondylolisthesis

Faculty - Debate: Posterior Non-Fusion Stabilization for DDD

Moderator & Instructor – Minimally Invasive Techniques in Spine Trauma

Moderator & Instructor – Posterior Dynamic Stabilization

73rd American Association of Orthopedic Surgeons (AAOS) Annual Meeting. San Diego, February 2007

Symposium: Anterior Thoracolumbar Spinal Surgery: Minimal and Maximally Invasive – XLIF

MAST Cadaver Workshop, Satellite Training Center, , Marina Del Rey, CA. February 2007

MAST TLIF

Thoracic Pedicle Screws

Direct Lateral Interbody Fusion

Posterior Dynamic Stabilization
Multilevel Percutaneous Pedicle Screw Fixation

6th Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, March 2007.

Faculty - Dynamic Non-Fusion Stabilization for Lumbar DDD
Faculty - Posterior Lumbar Artificial Disc Devices
Faculty - Lateral Artificial Disc Replacement
Faculty - Fusionless Scoliosis Surgery in the Pediatric Spine
Faculty - NeoDisc – Cervical Artificial Disc Replacement
Faculty - Multilevel Percutaneous Pedicle Screw Fixation
Moderator - Posterior Dynamic Stabilization Symposium
Instructor - Cadaver Workshop: MAST TLIF, Thoracic Pedicle Screws

San Diego Spine Meeting, San Diego, CA. March 2007

Faculty – Posterior Non-Fusion Stabilization for Lumbar DDD

2nd Spine Technology Summit, Berlin, Germany, May 2007

Faculty – Panel Discussion on Posterior Dynamic Stabilization

7th Spine Arthroplasty Society (SAS) Annual Meeting, Berlin, Germany, May 2007

Faculty – Meet the Expert: Dynesys

A Comprehensive Spine Review for Residents & Fellows, White Sulphur Springs, WV, May 2007

Faculty – Pediatric Spinal Deformity
Faculty – Adult Spinal Deformity
Faculty – Congenital Spinal Disorders

Spine Trauma Study Group (STSG) Meeting, Tampa, June 2007

Moderator – Spinal Trauma Outcomes, breakout session

City Wide San Diego Spin Conference, San Diego, June 2007

Guest Speaker – Minimally Invasive Spine Surgery – Update on the Science and Technology

4th Annual Innovative Techniques in Spine Surgery Symposium, Los Cabos, June 2007

Faculty - Round Table Discussion - Dynesys
Faculty - Round Table, Vertebral Augmentation – Kyphoplasty for Trauma
Faculty - Minimal Access Surgery, Nerve Surveillance for MIS applications

IMAST (International Meeting for Advanced Spinal Technologies), Bahamas, July 2007

Moderator – Cervical and Lumbar Arthroplasty
Early Bird Round Table Case Discussion Panel - Lumbar Spine Challenges
Instructor: Advanced Topics In MAST, Multilevel Percutaneous Pedicle Screw Instrumentation for Degenerative Scoliosis
Instructor – AXIALIF (Trans1): Advanced Techniques and Indications in Complex Lumbar Spine

World Spine IV: Fourth Interdisciplinary Congress on Spine Care, Istanbul, Turkey, July 2007

Faculty – Symposium: Advances in the Treatment of Thoracolumbar Scoliotic Deformity, Minimally Invasive Posterior Correction Procedures
Faculty – Symposium: Minimally Invasive Spinal Surgery, Posterior Thoracolumbar Minimally Invasive Strategies

SINCOL: SIMPOSIO INTERNACIONAL DE COLUNA, Rio De Janeiro, Brazil August 2007

Guest Speaker – Cervical Disc Arthroplasty will be the Standard of Care in the Future

Faculty – Dynesys for degenerative disc disease

Faculty – Dynesys, Complications and How to avoid them

Faculty – PEMF for Cervical Spine Fusion, results of a prospective randomized trial

Congress of Neurological Surgeons Workshop, San Diego, Sep 2007

Faculty - CD Horizon Longitude Training,

Congress of Neurological Surgeons Workshop, San Diego, Sep 2007

Faculty - Minimally Invasive Multilevel Percutaneous Instrumentation for Trauma and Complex Deformity,

The Leaders in Spine Surgery Series, Advanced Decision Making with Emphasis on Posterior Solutions, Las Vegas, Oct 2007

Panel – Lumbar and Cervical Degenerative case Discussions

Instructor – Cadaver Workshop

NASS Annual Meeting, Austin, October 2007

Faculty: Trans1 – Workshop - L5-S1 Minimally Invasive Fusion at the End of Long Scoliosis Constructs

Visiting Professor, China, November 2007

L5-S1 Minimally Invasive Fusion at the End of Long Scoliosis Constructs, MAST, TLIF

Huashan Hospital, Shanghai, November 5, 2007

2nd Hospital of ZJ Medical School, Hangzhou, November 6, 2007

Zhongda Hospital, Nanjing, November 7, 2007

Chinese Orthopedic Association Meeting, Zhengzhou, China, November 2007

Key Note Speaker - Posterior Motion Segment Stabilization

Minimally Invasive Surgery of the Spine Annual Meeting, San Diego, November 2007

Faculty - Posterior Motion Segment

Current Concepts in Spine Surgery, Los Angeles, December 2007

Course Chair – Posterior Dynamic Stabilization

- Posterior Lumbar Disc Arthroplasty

Visiting Professor, Apollo Hospital, Chennai, India, January 2008

The State of Minimally Invasive Spine Surgery

17th Annual Dr. Tom Lowe Spine Symposium: The Surgical Management of Spinal Disorders, Beaver Creek, January 2008

Faculty - Lumbar Degenerative Disc Disease - Indications and Surgical Options

Lumbo-Sacral Fixation - Challenges and Complications

Lumbar Degenerative Disorders - Approach Options: MIS vs. Open

TL Trauma - Challenges and Complications

APSAS Annual Meeting, Seoul, Korea, January 2008

Faculty – Symposium - Indications for Posterior Dynamic Stabilization

Free Paper – Minimally Invasive Percutaneous Multilevel 360 degree Fusion for Lumbar Degenerative Scoliosis – a Feasibility Study

APEC Current Techniques in Advanced Spine Care, Memphis, January 2008

Faculty - MAST TLIF Overview

- CD Horizon Longitude Multilevel Percutaneous Fixation
- Direct Lateral Interbody Fusion Technique
- Overview of Neuromonitoring

Selby Spine Society Meeting, Park City, UT, January 2008

Faculty – Minimally Invasive Correction and Fusion for Adult Scoliosis

Seventh Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, February 2008

Course Chair

Faculty – Multilevel Percutaneous Pedicle Fixation for Spine Trauma

Faculty – Dynesys – What Have We Learned?

Faculty – Stabilimax NZ

Faculty – Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis

Faculty – Cervical ADR Will Become the Standard of Care – Cervical ADR Debates

Moderator – Lumbar ADR Debates: Reality & Controversy

Instructor – Saw Bones Workshop: Longitude Fusion System, Prestige Cervical Artificial Disc

ONE Spine Controversies in Spine Surgery, Cancun, February 2008

Faculty - Cervical - Best Treatment Options

Aging Spine - Options for Sustained Fixation and MIS Treatments

The Lumbar Spine: Best Treatment Options

Winter Spinal Clinics, Cranial and Spinal Surgery, Snow Mass, CO, February 2008

Faculty - Extreme Lateral Interbody Fusion (XLIF) for Scoliosis

- Minimally Invasive L5-S1 Fusion and Correction for Adult Scoliosis

Minimally Invasive Deformity Course, Oakland CA, March 2008

Faculty – MIS TLIF,

- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

Stabilimax NZ Surgeon Training, Dallas, TX, April 2008

Faculty – Technique, Pearls & Tips, Case Presentation

MAST Deformity Focus Group Meeting, Memphis, TN, April 2008

Faculty – Minimally Invasive Adult Degenerative Scoliosis

- MIS TLIF,
- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

Minimally Invasive Deformity Course, Denver, CO, April 2008

Faculty – MIS TLIF,

- Direct Lateral Interbody Fusion,

- CD Longitude Multilevel Percutaneous Fixation

Minimally Invasive Deformity Course, in conjunction with AANS Annual Meeting Chicago, IL , April 2008

Faculty – MIS TLIF,

- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

3rd Spine Technology Summit, Miami, FL, May 2008

Faculty – Panel Discussion on Cervical Total Disc Replacement

- Panel Discussion on The Aging Patient Revolution in Spine Care
- Presenter Dynesys Dynamic Stabilization
- Presenter Triumph TDR

8th Spine Arthroplasty Society (SAS) Annual Meeting, Miami, FL, May 2008

Faculty – Moderator Innovative Technologies

- Presenter: Novel Minimally Invasive Percutaneous Multi-Level 360 Degree Fusion for Lumbar Degenerative Scoliosis - Feasibility, Technique and Early Results
- Presenter: Dynamic Stabilization and Indications in Back Pain; Stabilimax NZ Clinical Inv. Meeting
- Presenter: Trans1 AxiaLIF. A Novel Fusion Technique. Instructional course presented for Trans1

SRS/AAOS Current Trends & Treatment Methods in Pediatric and Adult Spinal Deformity, Dallas, TX, May 2008

Faculty – Presenter: Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis

1st World Congress of Minimally Invasive Spine Surgery and Techniques, Honolulu, HI, June 2008

Faculty – Presenter: Pre-Course Discussion on Posterior Dynamic Stabilization and Dynesys

- Presenter: Minimally Invasive Deformity Correction
- Presenter: Symptomatic Adjacent Disease
- Presenter: Pedicle Based Dynamic Stabilization

5th Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 2008

Faculty – Presenter: Posterior Non-Fusion Devices; Stabilimax NZ and Dynesys

- Presenter: Posterior Disc Replacement; Transforaminal Disc
- Presenter: Minimally Invasive Surgery; Nerve Surveillance for MIS applications

IMAST (International Meeting for Advanced Spinal Technologies), Hong Kong, July 2008

Faculty – Moderator: Session #1 – Cervical and Lumbar Arthroplasty Early Bird Round Table Case Discussion

Panel - Lumbar Spine Challenges

- Instructor: MAST, Multilevel Percutaneous Pedicle Screw Instrumentation for Degenerative Scoliosis
- Instructor: AxiaLIF: Advanced Techniques and Indications in Complex Lumbar Spine

Western Spine Symposium, San Diego, CA, August 2008

Faculty - Moderator: Surgical Options for Low Back Pain

- Presenter: In 2010 what would you do?
- Presenter: Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis

Minimally Invasive Deformity Course, St Louis, MO, August 2008

Faculty - MIS TLIF,

- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

First Brazilian Congress of Minimally Invasive Spinal Surgery and Techniques, Gramado, Brazil Aug. 2008

Faculty - Presenter: Surgical Treatment of Vertebral Compression Fractures
- Presenter: Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis
- Debater: Degenerative Disease Lumbar II
- Presenter: Pedicle Based Stabilization – What Have We Learned?

DIAM Clinical Investigators Meeting OUS Clinical Trial, Nice, France September 2008

Invited Speaker: US Experience DIAM vs. Microdecompression

1st Inaugural Association of Presacral Spine Surgeons Meeting, Las Vegas, NV, October 2008

Faculty: Presenter: AxiaLIF for Adult Deformity

NASS Annual Meeting, Toronto, October 2008

Faculty: Trans1 – Workshop - L5-S1 Minimally Invasive Fusion at the End of Long Scoliosis Constructs

Emerging Techniques and Technologies in Spine Surgery, Toronto, Canada, November 2008

Faculty: Trans1 – Workshop - L5-S1 Minimally Invasive Fusion at the End of Long Scoliosis Constructs

Society of Minimally Invasive Spine Surgeons Annual Meeting, Las Vegas, NV, November 2008

Faculty: Multilevel Percutaneous 360 Degree Fusion for Scoliosis

Minimally Invasive Deformity Course, Scottsdale, AZ, December 2008

Faculty - MIS TLIF,
- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

Presacral Fusion L5-1 Surgeon Training Course, New Orleans, LA, December 2008

Faculty – Trans1 AxiaLIF

18th Annual Dr. Tom Lowe Spine Symposium: The Surgical Management of Spinal Disorders, Beaver Creek, January 2009

Faculty - Lumbar Degenerative Disc Disease - Indications and Surgical Options
Lumbo-Sacral Fixation - Challenges and Complications
Lumbar Degenerative Disorders - Approach Options: MIS vs. Open
TL Trauma - Challenges and Complications

Eighth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, January 2009

Course Chair

Faculty – Multilevel Percutaneous Pedicle Fixation for Spine Trauma
Faculty – Dynesys – What Have We Learned?
Faculty – Multilevel Percutaneous 360 Degree Fusion for Adult Degenerative Scoliosis
Moderator – Lumbar ADR Debates: Reality & Controversy

Presacral Fusion L5-1 Surgeon Training Course, Park City, UT, February 2009

Moderator /Faculty – Trans1 AxiaLIF

Winter Spinal Clinics, Cranial and Spinal Surgery, Snow Mass, CO, February 2009

Faculty - Minimally Invasive L5-S1 Fusion and Correction for Adult Scoliosis
Faculty – Posterior Non-Fusion Stabilization

Minimally Invasive Deformity Course, Denver, CO, March 2009

Faculty – MIS TLIF,

- Direct Lateral Interbody Fusion,
- CD Longitude Multilevel Percutaneous Fixation

Preservation of Motion in the Spine, Duck Keys, FL, April 2009

Faculty – Preservation of Motion in Lumbar spine

Spine Arthroplasty Society (SAS) Annual Meeting, London, UK, April 2009

Faculty – Master Techniques in Minimally Invasive Spine Surgery; MIS Radiographic Anatomy.
Moderator – Percutaneous Techniques

IMAST (International Meeting for Advanced Spinal Technologies), Vienna, Austria, July 2009

Faculty – Anterior Surgery for Adult Deformities: How do Lateral Approaches Change our Treatment Strategies in this Population?

SINCOL: SIMPOSIO INTERNACIONAL DE COLUNA, Rio De Janeiro, Brazil July 2009

Faculty: - Minimally Invasive Fusion of L5-S1 at the end of long fusions.
 - Minimally Invasive Correction of Scoliosis
 - Posterior Non-fusion stabilization – What we know today
 - Kyphoplasty / Vertebroplasty – The differences and result

Complex Spine Study Group Meeting, Washington DC, August 2009

Faculty: MIS Deformity Applications

Presacral Fusion L5-1 Surgeon Training Course, Indianapolis, IN, September 2009

Faculty – Trans1 AxiaLIF

MAST Direct Lateral Interbody Fusion Technique Course, Denver, CO, September 2009

Faculty - Lateral Anatomy and Physiology Review

2nd Annual Symposium Association of Presacral Spine Surgeons, Las Vegas, October 2009

Faculty – Clinical Results of 18 Month Deformity Study

Annual Meeting of the Society for Minimally Invasive Spine Surgery, Las Vegas, October, 2009

Faculty – Technology Forum: Lumbar Spinal Stenosis Treatment Options
 - Presentation: Direct Lateral Interbody Fusion Technique

6th Annual Meeting – Innovative Techniques in Spine Surgery, Scottsdale, AZ, October 2009

Faculty - Posterior dynamic stabilization: Indications and Results
 - Oxgenated Scaffolds
 - MIS Applications for Trauma

Moderator - MIS Round Table Discussion / Faculty - AxiaLIF Clinical Results

NASS 24th Annual Meeting, San Francisco, CA, November 2009

Faculty - Advances in the Surgical Treatment of Acute Spine Trauma Course: Minimally Invasive Stabilization of TL Fractures
 - Critical Concepts in Adult Deformity Surgery Course: Minimally Invasive Deformity Correction: Anterior and/or Posterior Approaches
 - DLIF Workshop
 - Trans1 Workshop

Complex Spine Study Group (CSSG) San Diego, CA, January 2010

Faculty – Debate: MIS vs. Open Procedure for Adolescent Scoliosis

Association of Presacral Spine Surgeons (APSS): Problems and solutions in adult scoliosis treatment: The role of Lumbosacral Fixation, New York, NY, January 2010

Faculty – Clinical Data Presentation

Faculty – Clinical Data Panel Discussion

MAST Direct Lateral Interbody Fusion Technique Course, Scottsdale, AZ, January 2010

Faculty - Lateral Anatomy and Physiology Review

Ninth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, February 2010

Course Co-Chair

Moderator – Minimally Invasive Innovative Technologies

Faculty - MIS for Spine Trauma

- Minimally Invasive Fixation in AIS/MIS Scoliosis Surgery: It is possible?
- Anatomical Facet Replacement System
- X-Stop
- Stabilimax NZ

4th Annual Advances in Neurology and Neurosurgery Symposium, Marina Del Rey, CA, Febr, 2010

Faculty – ACDF vs. Disc Arthroplasty

Presacral Fusion L5-1 Surgeon Training Course, San Diego, CA, March 2010

Faculty – Trans1 AxiaLIF

Preservation of Motion in the Spine; Duck Keys, FL, April 2010

Faculty - Experience with Stabilimax – a posterior dynamic stabilization system

- ACADIA Facet Replacement Results
- MIS Correction of Scoliosis

10th Annual Global Symposium on Motion Preservation Technology (SAS), New Orleans, LA, April 2010

Moderator – MIS Case Presentation/Discussion

3rd Annual Dubai Spine Masters, Dubai, UAE, May 2010

Faculty – Percutaneous MIS Fixation Multilevel Introduction

Faculty – Trans Sacral Screw Fixation

2nd World Congress of Minimally Invasive Spinal Surgery and Techniques (WCMISST); Las Vegas, NV, June 2010

Faculty – MISS Deformity Correction, Posterior Approach

Faculty – Dynamic Stabilization, Pedicle Based

Association of Presacral Spine Surgeons (APSS): Adult Complex Spine Workshop: Current Concepts in Lumbosacral Fixation, Las Vegas, NV, June 2010

Faculty – MIS Complex Spine Clinical Data

Faculty – Case Presentation Discussion

7th Annual Innovative Techniques in Spine Surgery Symposium, Los Cabos, Mexico, June 2010

Faculty - Clinical Performance: Stabilimax Pedicle Based Motion Preservation System

- MIS Applications for Trauma
- AxiaLIF: Clinical Results

ONE Spine: Controversies in Spine Surgery, Bahamas, June 2010

- Faculty: - Deformity Challenges Panel
- MIS L5-S1 Fusion
 - Lumbar Spine, Best treatment options: Case Panel
 - Use of Minimally Invasive Correction of Adult Degenerative Lumbar Scoliosis
 - The Aging Spine: Case Panel

IMAST (International Meeting for Advanced Spinal Technologies), Toronto, Canada, July 2010

- Faculty: - Adult Deformity: Less Invasive Paracoccygeal Approaches and the use of Navigation and Percutaneous Pedicle Screw systems in the treatment of adult deformity.
- Approaches to Degenerative Disc Disease: Non-operative, Fusion, Arthroplasty, Nucleus Replacement
 - Lumbar Degenerative Panel
 - Workshop: Decision Making relative to Extension to the Sacrum Pelvis: Hands On Demonstration
 - Workshop: The Role of Minimally Invasive Surgery in Adult Degenerative Deformity: Hands On Demo
 - DLIF workshop

NASS (North American Spine Society) 25th Annual Meeting, Orlando, FL, October 2010

- Moderator: - Lumbar Total Disc Arthroplasty
- Faculty: - Innovations in Minimally Invasive Surgery for the Complex Spine: Workshop

Annual Meeting of the Society for Minimally Invasive Spine Surgery (SMISS); Miami, FL , October 2010

- Faculty: - Indications and Results for MIS Surgical Approach (Single Approach Posterior or Lateral vs. Combined) for Adult Scoliosis
- Scoliosis Panel discussion
 - DLIF workshop

Minimally Invasive Spinal Surgery and Navigation – Hands-on Symposium, Weill-Cornell Medical College, New York, NY Dec. 2-4, 2010

- Faculty - Advanced MIS: Patient selection and principles for deformity correction
- Surgical demonstration
 - AxiaLIF and XLIF challenges: How I do it
 - Future of MIS: Panel Discussion

Spine on the Mountain: Innovation Meets Practice, Vail, CO, January 27-30, 2011

- Faculty: - Deformity at the Junctions: Panel Discussion
- MIS for Spinal Deformity: Hype or Reality?
 - MIS Complications of Neurologic Decompression: Adequacy of Decompression, Spinal Fluid Leaks, and Neurologic Injury

Tenth Annual Symposium on Current Concepts in Spinal Disorders, Las Vegas, February 2011

- Course Co-Chair
- Moderator: - Frontier Technologies
- Faculty: - Complications and Controversies: Surgery with New Technology - Case Presentations
- Deformity: Surgery with New Technology - Case Presentations

Winter Spinal Clinics, Cranial and Spinal Surgery, Snow Mass, CO, Febr 27-Mar 1, 2011

- Faculty: - Controversies in Lumbar Spine Surgery: Innovative Technologies

Current Solutions in Spine Surgery, Duck Keys, FL, Mar 30-Apr 1, 2011

Moderator: - Updates

Faculty: - Case Presentation
- Anchoring Long Constructs with Axial LIF

Presacral Fusion L5-1 Surgeon Training Course, San Francisco, CA, April 9, 2011

Faculty - Trans1 AxiaLIF

Int'l Society for the Advancement of Spine Surgery (ISASS/SAS) Meeting, Las Vegas, NV April, 2011

Faculty: - Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity
- Multi-center Minimally Invasive AxiaLIF L5-S1 Interbody Fusion for Anterior Column Support at the End of a Long Segment Construct: Feasibility, Safety, Complications, Early and Late 3 Year Outcomes
- Work shop: MAST Correction Technique

Spine Technology Summit, Napa, CA, May 11, 2011

Faculty: - Personalized Stem Cell Therapy

Innovative Techniques in Spine Surgery: Think Tank 2011, Cabo, June 24-25, 2011

Faculty: - Surgical Techniques and pearls: MIS Applications for Trauma
- Techniques and Complications: Pre-Sacral for L5-S1 Isthmic Spondylolisthesis

18th IMAST (International Meeting for Advanced Spinal Technologies), Copenhagen, Denmark, July 2011

Faculty: - Adult Deformity: Minimally Invasive Lateral and Trans-sacral Techniques for Deformity Correction
- Two to Four Year Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity
- MIS: Optimal Treatment of Significant (50-Degree) Thoracolumbar Scoliosis in 50-Year-Old

INTRAMURAL LECTURES AND CONFERENCES

1. Current update and concepts in burst fractures. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, June 4, 2003.
2. Dynamic stabilization: a conceptual revolution. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, June 18, 2003.
3. Stabilization for degenerative disc disease: fusion and non-fusion techniques. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Back Pain Conference, Los Angeles, CA, June 14, 2003.
4. Thoracic pedicle screws. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, March 24, 2004.
5. Non-fusion spinal instrumentation technologies. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, May 12, 2004.
6. Motion preservation in spinal surgery. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, January 26, 2005.

7. Posterior non-fusion stabilization with Dynesys: beyond the IDE study. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, August 17, 2005.
8. Beat back pain and save your spinal motion: surgery without fusion. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Back Pain Conference, Los Angeles, CA, August 20, 2005.
9. Beat back pain and save your spinal motion: surgery without fusion. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Back Pain Conference, Las Vegas, NV. February 2006.
10. Office Orthopaedics: The Essentials of Non-Operative Musculoskeletal Care: Acute Back Pain, Cedars-Sinai Medical Center, Institute for Spinal Disorders, Los Angeles, CA, May 20, 2006.
11. Posterior Non-Fusion Stabilization: Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference Grand Rounds, Los Angeles, CA, October 18, 2006.
12. Baron, EM, Anand, N. Future Concepts in Artificial Disc Treatment of Cervical Spine Disorders. Cervical Spine Community Conference. Cedars Sinai Medical Center. Los Angeles, CA. February 3, 2007
13. Beat back pain and save your spinal motion: surgery without fusion. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Back Pain Conference, Las Vegas, NV. March 2007.
14. Beat back pain and save your spinal motion: surgery without fusion. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Back Pain Conference, Los Angeles, CA. March 2007.
15. Spine Trauma in Ankylosing Spondylitis: Medical and Surgical Approach to Spine Disease and Spine Deformity in Ankylosing Spondylitis. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Los Angeles, CA. March 2007
16. The State of Minimally Invasive Spine Surgery Today: Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference Grand Rounds, Los Angeles, CA, April 25, 2007.
17. Posterior Non-Fusion Stabilization for DDD – An update: Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference Grand Rounds, Los Angeles, CA, May, 2007.
18. Baron, EM, Anand, N. New Developments in Spine Surgery. Temple Community Hospital, Los Angeles, CA. Tuesday, May 15, 2007.
19. Baron, EM, Anand, N. Extreme Lateral Interbody Fusion. Nursing Staff Presentation. Cedars Sinai Medical Center. Los Angeles, California. Tuesday, June 26, 2007
20. The State of Minimally Invasive Spine Surgery Today: Cedars-Sinai Medical Center, Research Dept Grand Rounds, Los Angeles, CA, July, 2007.
21. Baron, EM, Anand, N. Minimally Invasive Spinal Surgery. Sherman Oaks Hospital & Health Center, Sherman Oaks, California. Thursday, July 26, 2007
22. Baron, EM, Anand, N. Future Concepts in Artificial Disc Treatment of Cervical Spine Disorders. Cervical Spine Community Conference. Cedars Sinai Medical Center. Los Angeles, CA. Saturday, Febr. 3, 2007
23. Baron, EM, Anand, N. New Developments in Spine Surgery. Temple Community Hospital, Los Angeles, CA. Tuesday, May 15, 2007.

24. Baron, EM, Anand, N. Extreme Lateral Interbody Fusion. Nursing Staff Presentation. Cedars Sinai Medical Center. Los Angeles, CA. Tuesday, June 26, 2007
25. Baron, EM, Anand, N. Minimally Invasive Spinal Surgery. Sherman Oaks Hospital & Health Center, Sherman Oaks, California. Thursday, July 26, 2007
26. Baron, EM, Anand, N. X-STOP® Interspinous Process Decompression (IPD®) System. Primary Care Physician Informational Lecture. Grand Havana Room, Beverly Hills, CA Thursday, September 20, 2007.
27. Baron, EM, Anand, N. Cement Augmentation for Osteoporotic Fractures –Kyphoplasty versus Vertebroplasty. Primary Care Physician Informational Lecture. Grand Havana Room, Beverly Hills, CA Thursday, September 20, 2007
28. Thoracic pedicle screws. Cedars-Sinai Medical Center, Institute for Spinal Disorders, Spine Conference, Los Angeles, CA, August 1, 2007
29. Baron, EM, Anand, N. Atypical Diagnoses in the Cervical Spine that should NOT Be Missed. 2008 Interdisciplinary Symposium Cervical Spine Trauma. Presented by Southern California University of Health Sciences and Diagnostic and Interventional Spinal Care. Southern California University of Health Sciences Performing Arts Center, Whittier, CA. Sunday, February 24, 2008.
30. Baron, EM, Anand, N. Minimally Invasive Percutaneous Multilevel 360 Degree Fusion for Deg. Scoliosis - Feasibility Study. Cervical Spine Community Lecture. Cedars Sinai Medical Center. Los Angeles, California. Saturday, March 15, 2008
31. Anand, N. Baron, EM, Stabilization of the Spine without Fusion. Spine Community Lecture. Cedars Sinai Medical Center. Los Angeles, CA. Saturday, March 15, 2008
32. Rivadeneira, D., Anand, N., Minimally Invasive Surgery L5-S1 Fusion: A Spine and Colorectal Perspective; Cedars-Sinai Spine Center, Spine Conference, Los Angeles, CA, September 23, 2009
33. Anand, N, Baron EM, Minimally Invasive Surgery: Correction of Adult Scoliosis; Cedars-Sinai Spine Center, Spine Conference, Los Angeles, CA, November 18, 2009
34. Anand, N., Baron, EM., Zarembinski, CJ. Latest Advances in Spine Care; Cedars-Sinai Medical Center, Community Lecture, Los Angeles, CA, Dec 8th, 2009
35. Anand, N., Anatomy and Pathology of Scoliosis & Current Treatments; LAUSD District 8 School Nurses Lecture, Gardena, CA, February 2010
36. Anand, N., Minimally Invasive Spinal Surgery – State of the Art; T.N. Medical College reunion, New York, NY, August 2010

INDUSTRY RELATIONS

Consulting: Applied Spine, Globus Medical, Hydrocision, Medtronic, Nuvasive, Trans1, Zimmer

Stocks. Stock Options. Private Investments: Applied Spine, Bonovo, Globus Medical, Hydrocision, Medtronic, Paradigm Spine, Pearl Diver, Pioneer, Theracell, Trans1

Royalties: Globus Medical, Medtronic, Nuvasive

Surgical Advisory Board: Applied Spine, Atlas Spine, Globus Medical, Theracell

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