

ELI MARTIN BARON
CURRICULUM VITAE

Work Address & Telephone

Cedars Sinai Spine Center
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Biographical Data

Date of Birth: 02/20/74
Place of Birth: Dover, NJ

Practice Data:

Board Certified Neurosurgeon
Fellowship Training Spinal Surgery
Clinical Associate Professor of Neurosurgery at Cedars Sinai Medical Center:
Appointed July 2012

Attending Neurosurgeon/Spine Surgeon
Cedars Sinai Medical Center
Institute for Spinal Disorders
Practice Partner Anand, N
444 S. San Vicente Blvd, Ste 901
Los Angeles California 90048
(310) 423-9900
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Current Hospital Privileges

Attending:
Department of Neurosurgery,
Cedars Sinai Medical Center
8700 Beverly Blvd
Los Angeles California 90048

Attending Spine Surgeon:
Marina Hospital
4650 Lincoln Blvd
Marina del Rey, CA 90292

Education

2006-2007	Fellowship Training: Combined Neurosurgical/Orthopedic Spine Fellowship The Institute for Spinal Disorders Cedars Sinai Medical Center, Los Angeles, CA <i>Directed by Dr. J. Patrick Johnson, Neel Anand and Robert S. Pashman</i>
2005 (January – July)	Fellowship Training: Orthopedic Spine. The Rothman Institute, Thomas Jefferson University Hospital, Philadelphia, PA <i>Directed by Dr. Alexander R. Vaccaro</i>
2000 – 2006	Neurological Surgery Residency: Temple University Hospital/ Temple University School of Medicine, Philadelphia, PA <i>Chairman: Dr. Christopher M. Loftus</i>
1999 – 2000	Surgery Preliminary Year: Temple University Hospital, Philadelphia, PA
1995 - 1999	Temple University School of Medicine, Philadelphia, PA MD, May 1999
1992 - 1995	State University of New York at Binghamton, Binghamton, NY BA Biological Sciences, Summa Cum Laude
1988 - 1992	The Frisch High School, Paramus, NJ

Honors and Awards

2013	Recognized in Super Doctors Los Angeles “Rising Stars” for 2013
2006-7	AO Spine Fellow
2004	Resident Research Award: Pan Philadelphia Neurosurgery Meeting
1999	The Doctor Herman Brown Award for Excellence in the Study of the Art and Science of Surgery
1998	Alpha Omega Alpha
1996 - 1999	Measey Foundation Scholarship
1998 - 1999, 1996 - 1997	William F. Grupe Scholarship
1995 - 1999	Babcock Surgical Scholarship
1995	Phi Beta Kappa
1994	Golden Key National Honor Society
1992 - 1995	Dean’s List, All Semesters at State University of New York at Binghamton

1992 Marvin Eiseman Award in Bible
1992 The Frisch School Award in Biology
1991 National Honor Society of Secondary Schools

Certification

United States Medical Licensing Examination
Step I: June 1997— 99.5th percentile
Step II: Aug 1998— 99th percentile
Step III: April 2000
American Board of Neurologic Surgery
Written Examination March 2003
American Board of Neurologic Surgery
Oral Examination May 2011
Fellow of the American Association of Neurological Surgeons
Elected January 2012

Academic Titles:

Clinical Associate Professor of Neurosurgery
Cedars Sinai Department of Neurosurgery
Cedars Sinai Medical Center
Los Angeles, California
Conferred July 2012

Society Titles:

Treasurer
Association of Collaborative Spinal Research
Conferred March 2015

Laboratory Experience

2004-2005 Effects of CB2 cannabinoid receptor stimulation in attenuating reperfusion injury post MCA occlusion in rats. Mentor: Jack I. Jallo. Department of Neurosurgery.

1997 Effects of splanchnic ischemia/reperfusion injury on renal function and eicosanoid release. Mentor: Stuart I. Myers, MD, Department of Surgery, Temple University School of Medicine.

1997 Effects of mucosal/transmural inflammation on colonic eicosanoid release. Mentors: Stuart I. Myers, MD, John S. Martin, PhD Departments of Surgery and Physiology, Temple University School of Medicine.

1996 Development of assay for taxol independent microtubule splicing activity in rat pup cortex. Mentor: Mark Black, PhD, Department of Anatomy, Temple University School of Medicine.

Refereed Publications

1. **Baron, EM**, Burke, JA, Akhtar, N and Young, WF. Spinal epidural hematoma associated with tissue plasminogen activator treatment of acute myocardial infarction. *Catheterization and Cardiovascular Interventions*. 48: pp. 390-366, 1999
2. Young, WF, **Baron, E**. Acute neurologic deterioration after surgical treatment for thoracic spinal stenosis. *Journal of Clinical Neuroscience*. 8: pp.129-132. 2001
3. **Baron, EM**, Soliman, AMS, Gaughan, JP, Simpson, L and Young, WF. Dysphagia, Hoarseness, and Unilateral True Vocal Fold Motion Impairment after Anterior Cervical Discectomy and Fusion. *Annals of Otolaryngology, Rhinology, & Laryngology*. 112: pp. 921- 926. 2003
4. **Baron, EM**, Young, WF. Cervical Spondylotic Myelopathy: A Brief Review of its Pathophysiology, Clinical Course and Diagnosis. *Neurosurgery*. 2007 Jan;60(1 Suppl 1):S35-41
5. Lee JY, Vaccaro AR, Lim MR, Oner FC, Hulbert RJ, Hedlund R, Fehlings MG, Arnold P, Harrop J, Bono CM, Anderson PA, Anderson DG, Harris MB, Brown AK, Stock GH, and **Baron EM**. Thoracolumbar Injury Severity Scale and Score (TLISS): A New Paradigm for the Treatment of Thoracolumbar Spine Trauma. Invited article *J Orthop Science* 2005 Nov;10(6):671-5.
6. **Baron, EM**, Levene, HB, Heller, JE, Jallo, JI, and Dominique, D. A. Neuroendoscopy for Spinal Disorders: A Brief Review. *Neurosurgery Focus*. Dec 15; 19 (6):E5, 2005
7. Harrop JS, Vaccaro, AR, Hulbert, RJ, Wilsey, J, **Baron, EM**, Shaffrey, CI, Fisher, CG, Dvorak, MF, Öner, FC, Wood, KB, Anand, N, Anderson, DG., Lim, MR, Lee, JY, Bono, CM, Rampersaud, YR, Arnold, PM, Fehlings, MG. . Intra- and inter-rater reliability and validity of assessing the mechanism of injury and integrity of the posterior ligamentous complex with 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* February 4:118–122, 2006.
8. 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

9. **Baron, EM**, Loftus, CM, Vaccaro, AR, Dominique, DA. Anterior approach to the subaxial cervical spine in children: a brief review *Neurosurgery Focus*. Feb 15;20 (2):E4, 2006
10. Saxena A, **Baron EM**, Anderson DG, Hilibrand AS, Harrop JS, Vaccaro AR. Spinal disassociation masquerading as iatrogenic listhesis above a previous fusion. *Spine*. 2006 Mar 15;31(6):E179-83.
11. Vaccaro AR, **Baron EM**, Sanfilippo J, Jacoby S, Steuve J, Grossman E, DiPaola M, Ranier P, Austin L, Ropiak R, Ciminello M, Okafor C, Eichenbaum M, Rapuri V, Smith E, Orozco F, Ugolini P, Fletcher M, Minnich J, Goldberg G, Wilsey J, Lee JY, Lim MR, Burns A, Marino R, DiPaola C, Zeiller L, Zeiler SC, Harrop J, Anderson DG, Albert TJ, Hilibrand AS. Reliability of a novel classification system for thoracolumbar injuries: the Thoracolumbar Injury Severity Score. *Spine*. 2006 May 15;31(11 Suppl):S62-9.
12. Lee, JY, , Sharan, A, **Baron, EM** Lim, MR, Grossman, E, Albert, TJ., Vaccaro, AR, and Hilibrand, AS. Quantitative Prediction of Anterior Spinal Cord Space after Cervical Laminectomy and Arthrodesis. *Spine* 2006. July 15, 2006.31(16):1795-1798.
13. **Baron, EM.**, Albert, T.J. Medical Complications of Adult Scoliosis Surgery. *Spine* 2006. Spine. 2006 Sep 1;31(19 Suppl):S106-18
14. Lee, JY, Vaccaro, A, R, Schweitzer, KM, Lim, MR, **Baron, EM**, Oner, FC, Hulbert, RJ, Hedlund, R, Fehlings, M, Arnold, P, Harrop, J, Bone, CM, Anderson, PA, Anderson, DG, Harris, MB. Spine Trauma Study Group. Assessment of injury to the posterior ligamentous complex in thoracolumbar spine trauma. *Spine Journal*. 2006 Sep-Oct;6(5):524-8. Epub 2006 Jul 11
15. Lim, MR, Vaccaro, A.R., Lee, JY, Zeiler, SC, Jacoby, S, Sanfilippo, J, Oner, F. C., Fehlings, MG, Harrop, J. S., Arnold, P, Bono, C. M., Anderson, P. A., Anderson, D. G., and **Baron, E.M.** The Thoracolumbar Injury Severity Scale and Score (TLISS): Inter-Physician and Inter-Disciplinary Validation of a New Paradigm for the Treatment of Thoracolumbar Spine Trauma. *Columna*. Invited Article. 2006
16. **Baron, EM**, Loftus, CM. Commentary on Dynamic Computed Tomography Myelography for the Investigation of Cervical Disease. *Neurol Med Chir (Tokyo)*, April 2006
17. **Baron, EM**, Baty, DE, Loftus, CM. The Timing of Carotid Endarterectomy Post Stroke. *Neurologic Clinics*. 2006 Nov;24(4):669-80.
18. **Baron, EM**, Loftus. CM. Commentary on Predictors of Outcome of Surgery for Cervical Compressive Myelopathy: Retrospective Analysis and Prospective Study. *Neurol Med Chir (Tokyo)*, April 2006

19. **Baron EM**, Berven SH, Bridwell KH, Dewald CJ, Hu SS, Macagno A, Mardjetko SM, McAfee PC, Polly DW Jr, Roach J, Weidenbaum M, Andersson GB, Weinstein JN. Adult Spinal Deformity Focus Issue: Summary Statement. *Spine*. 2006 Sep 1;31(19S Suppl):S202.
20. Lee JY, Vaccaro AR, Schweitzer KM, Lim MR, **Baron EM**, Rampersaud R, Oner FC, Hulbert RJ, Hedlund R, Fehlings MG, Arnold P, Harrop J, Bono CM, Anderson PA, Patel A, Anderson DG, Harris MB; Spine Trauma Study Group. Assessment of injury to the thoracolumbar posterior ligamentous complex in the setting of normal-appearing plain radiography. *Spine J*. 2007 Jul-Aug;7(4):422-7. Epub 2007 Jan 24.
21. Ghostine, S, **Baron, EM**, Perri, B, Morsette, D, Jacobson, Hsu, FPK. Idiopathic Thoracic cord herniation through a dural defect- Description of a case and review of the literature. *Surg Neurol*. 2009 Mar;71(3):362-6, discussion 366-7. Epub 2008 Jan 22.
22. Anand, N, **Baron, EM**, Bray, RS, Jr. The benefit of Paraspinal muscle sparing approach compared to the conventional Midline approach for Posterior Non-Fusion Stabilization – A comparative analysis of clinical and functional outcomes. *SAS Journal* 2007. Summer 2007. Volume 1(3): 93-99
23. Patel, D, **Baron, EM**, Enochs S, MD, Ruth, C, MD, Harrop, JS, Vaccaro, AR, Spinal Epidural Abscess Mimicking Lymphoma: Case Report. *Orthopedics*. 2008 Apr;31(4):402.
24. Anand, N, **Baron, EM**, Thaiyananthan, G, Khalsa, K, Goldstein, T. Minimally Invasive Multilevel Percutaneous Correction and fusion for Adult Lumbar Degenerative Scoliosis: A Technique and Feasibility Study. *Journal of Spinal Disorders and Techniques*. 2008 Oct;21(7):459-67.
25. 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*. Winter 2008. Volume 2 Issue 1.
26. **Baron, EM**, Baty, DE, Loftus, CM. The Timing of Carotid Endarterectomy Post Stroke. *Neurosurgery Clinics of North America*. 2008 Jul;19(3):425-32, v.
27. Anand, N, Rosemann, R, Khalsa, B, **Baron, EM**. Mid to Long Term Clinical and Functional Outcomes of Minimally Invasive Correction and Fusion for Adult Scoliosis. *Neurosurgical Focus*, March 2010. Accepted for publication.
28. Ploumis A, Ponnappan RK, Sarbello J, Dvorak M, Fehlings MG, **Baron E**, Anand N, Okonkwo DO, Patel A, Vaccaro AR. Thromboprophylaxis in traumatic and elective spinal surgery: analysis of questionnaire response and current practice of spine trauma surgeons. *Spine*, 2010 Feb 1;35(3):323-9

29. Anand, N, **Baron, EM**. Minimally Invasive Treatment of Adult Scoliosis. *Seminars in Spine Surgery*, 2011
30. Drazin, D, Shirzadi, S, Rosner, J, Eboli, P, Safee, M, **Baron, EM**, Liu, J, Acosta, F. Complications and Outcomes after Spinal Deformity Surgery in the Elderly: Review of the Existing Literature and Future Directions. *Neurosurgery Focus*, 2011 Oct;31(4):E3.
31. Kim, PD, **Baron, EM**, Levesque, M. Extrusion of expandable stacked interbody device for lumbar fusion. *Spine*, 2012. *Spine (Phila Pa 1976)*. 2012 Apr 11.
32. Anand, N, **Baron, EM**. Minimally Invasive Approaches for The Correction of Adult Spinal Deformity. *European Spine Journal*. Supplement: Innovative concepts in scoliosis treatment. 2012 May 10
33. Anand, N, **Baron, EM**. Urologic Injury as a Complication of the Transposas Approach for Discectomy and Interbody Fusion – A report of 3 cases. *J Neurosurg Spine*. 2012 Nov 2.
34. Anand, N, **Baron, EM**. Role of Dynesys as Pedicle based Non-Fusion Stabilization for Degenerative Disc Disorders. *Advances in Orthopedics*. Volume 2012 (2012), Epub 2012 Dec 26.
35. Shirzadi A, Drazin D, Gates M, Shirzadi N, Bannykh S, Xuemo F, Hunt L, **Baron EM**, King W, Kim T, Johnson JP. Surgical Management of Primary Spinal Hemangiopericytomas: an institutional case series and review of the literature. *Eur Spine J*. 2013 Jan 5. [Epub ahead of print]
36. Shirzadi A, Drazin D, Gates M, Shirzadi N, Bannykh S, Fan X, Hunt L, **Baron EM**, King WA, Kim TT, Johnson JP. Erratum to: Surgical management of primary spinal hemangiopericytomas: an institutional case series and review of the literature. *Eur Spine J*. 2013 Jan 25. [Epub ahead of print]
37. Anand, N, **Baron, EM**, Khandaroo, B, Kahwaty, S. Long Term 2 to 5 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Scoliosis. *Spine (Phila Pa 1976)*. 2013 May 23. [Epub ahead of print]
38. Anand, N, **Baron, E.M.**, Khandaroo, B. Does Minimally Invasive Transsacral Fixation Provide Anterior Column Support in Adult Scoliosis? *Clin Orthop Relat Res*. 2014 Jun;472(6):1769-75. doi: 10.1007/s11999-013-3335-6
39. Anand, N, **Baron, E.M.**, Khandaroo, B. Is Circumferential Minimally Invasive Surgery Effective in the Treatment of Moderate Adult Idiopathic Scoliosis?? *Clin Orthop Relat Res*. 2014 Mar 22. [Epub ahead of print]
40. Anand, N, **Baron, E.M.**, Kahwaty, S. Evidence basis/outcomes in minimally invasive spinal scoliosis surgery. *Neurosurg Clin N Am*. 2014 Apr;25(2):361-75. doi:

10.1016/j.nec.2013.12.014. Epub 2014 Jan 28.

41. Anand, N, **Baron, E.M.**, Khandroo, B. Limitations and ceiling effects with circumferential minimally invasive correction techniques for adult scoliosis: analysis of radiological outcomes over a 7-year experience. *Neurosurg Focus*. 2014 May;36(5):E14. doi: 10.3171/2014.3.FOCUS13585.
42. Al-Khouja LT, **Baron E.M.**, Johnson JP, Kim TT, Drazin D. Cost-effectiveness analysis in minimally invasive spine surgery. *Neurosurg Focus*. 2014 Jun;36(6):E4. doi: 10.3171/2014.4.FOCUS1449.
43. Drazin D, Al-Khouja L, **Baron EM**, Kim TT, Johnson JP. 143 Cost-effectiveness analysis in minimally invasive spine surgery. *Neurosurgery*. 2014 Aug;61 Suppl 1:206-7. doi: 10.1227/01.neu.0000452417.91570.83.
44. Anand, N, Sardar, ZM., Simmonds A, Khanderoo, B, Kahwaty, S, Baron EM. Correction of Adult Spinal Deformity via Circumferential Minimally Invasive Surgery—Analysis of a 7-Year Experience. *Spine Deformity*. Article in press
45. **Baron, EM**, Mejía, D, M, Drazin, D, Anand, N. Perineural cyst associated with bone morphogenetic protein use in posterior and transforaminal lumbar interbody fusion managed conservatively: Report of 2 Cases. Submitted for Publication.

Invited Presentations

1. **Baron, EM**. “Intracranial Germ Cell Tumors.” *Neurosurgery Grand Rounds*. Baylor College of Medicine, Houston, TX. October, 1998
2. **Baron, EM** “The Neurologic Examination.” Guest Lecturer for Temple University Physical Therapy Students. Temple University Graduate School, Philadelphia, PA September 8, 2000.
3. **Baron, EM**, Young, WF Soliman, AMS, Gaughan, JP, and Simpson, L. “Dysphagia, Hoarseness, and Vocal Fold Dysfunction Following the Anterior Cervical Approach to the Spine.” June 9, 2001 . Michael Scott Day. Temple University Hospital. Philadelphia, PA
4. **Baron, EM**, Gaughan, JP, Gopez, J and Jallo, J. “Intracranial Pressure Monitoring in Patients Sustaining Severe Blunt Head Injury in Pennsylvania: Risk factors and Outcomes in Hospitalized Patients Over 5 Years (1995-2000).” June 13, 2003. Michael Scott Day. Temple University Hospital. Philadelphia, PA
5. **Baron, EM**, Jallo, J, Erb, CJ, Tuma, RF. “CB2 Receptor Activation Results in Reduced Infarction Volume Following Middle Cerebral Artery Occlusion.” June 18, 2004. Michael Scott Day. Temple University Hospital. Philadelphia, PA

6. **Baron, EM.** Loftus, C. M. Intraoperative Monitoring. Second American-Japanese Neurosurgical Friendship Symposium, October 5, 2004. Nagoya - Nagoya Nogakudo, Japan.
7. **Baron, EM.** Loftus, C. M. Intraoperative Monitoring Techniques: Current Status. Neurology and Neurosurgery Grand Rounds. October 15, 2004. Temple University Hospital. Philadelphia, PA
8. **Baron, EM.** Lofus, C. M. Recent Treatment of Cranial Stenosis Lesions. Invited Lecture. Summer 2005. Nagoya Japan.
9. **Baron, EM.** Posterior Cervical Decompression and Fusion as the Posterior Surgical Management Strategy of Choice for Multilevel Cervical Spondylotic Myelopathy. Physical Medicine and Rehabilitation Grand Rounds. February 10, 2005. Thomas Jefferson University Hospital. Philadelphia, PA
10. **Baron, EM.** Lumbar Motion Sparing Technologies: An Evidence Based Analysis. Rothman Institute Spine Conference. March 3, 2005. Thomas Jefferson University Hospital. Philadelphia, PA
11. **Baron, EM.** Ankylosing Spondylitis and The Spine. Rothman Institute Spine Conference. March 17, 2005. Thomas Jefferson University Hospital. Philadelphia, PA
12. **Baron, EM.** Loftus, C.M. Intraoperative Monitoring Techniques for Spine Surgery: Current Status. Temple Spine Day. May 6, 2005. Temple University Hospital. Philadelphia, PA
13. **Baron, EM.** Surgical Strategies in Scoliosis Surgery. Rothman Institute Spine Conference. March 17, 2005. Thomas Jefferson University Hospital. June 2, 2005. Philadelphia, PA
14. **Baron, EM,** Vaccaro, A.R. Thoracolumbar Injury Classification System A New Approach: Spine Trauma Study Group Validation Study. Michael Scott Symposium 2005. Temple University Hospital. June 17, 2005. Temple University Hospital. Philadelphia, PA
15. **Baron, EM.** Loftus, C.M. Radiosurgery for Intracranial Cavernous Malformations: A less than ideal treatment modality. Pennsylvania Neurosurgical Society Meeting. July 15, 2005
16. **Baron, EM,** Jallo, JI. Self Assessment in Neurological Surgery: Wired. Trauma Section. Congress of Neurological Surgeons Website, 2006.
17. **Baron, EM.** Review and classification of cervical spine fractures. Temple Spine Symposium, May 6, 2006. Temple University Hospital. Philadelphia, PA
18. **Baron, EM** and Joon Y. Lee. Quantitative Prediction of Spinal Cord Drift After Cervical Laminectomy and Arthrodesis. Michael Scott Day Symposium. Friday, June 9, 2006 Temple University Hospital. Philadelphia, PA

19. **Baron, EM.** Review of classification of cervical spine fractures and case presentations. Frankford Torredale Hospital, Trauma Multidisciplinary Conference. Philadelphia, PA. June 23, 2006.
20. **Baron, EM.** Core Curriculum Lecture on Ankylosing Spondylitis. Cedars Sinai Institute for Spinal Disorders. Cedars Sinai Medical Center. Los Angeles, California. Wednesday, July 12, 2006
21. **Baron, EM.** Classification of Cervical Spine Trauma: A Brief Review. Cedars Sinai Medical Center. Los Angeles, California. Wednesday, January 17, 2006
22. **Baron, EM,** Anand, N. Future Concepts in Artificial Disc Treatment of Cervical Spine Disorders .Cedars Sinai Spine Community Conference. Cedars Sinai Medical Center. Los Angeles, California. Saturday, February 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, California. 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.** Thoracolumbar Injury Classification: Evolution and Assessment of Modern Day Systems. Cedars Sinai Institute for Spinal Disorders. Cedars Sinai Medical Center. Los Angeles, California. Wednesday, October 31, 2007
28. **Baron, EM.** Anterior Cervical Approach for Multi-Level DDD. Current Concepts in Spine Surgery W Hotel, Los Angeles, CA. December 8, 2007
29. **Baron, EM.** TLIF: Open vs. MIS Current Concepts in Spine Surgery W Hotel, Los Angeles, CA. December 8, 2007
30. **Baron, EM.** Cervical Fusion: The Procedure of Choice for Cervical Spondylotic Myelopathy. Cedars Sinai 7th Annual Symposium on Current Concepts in Spinal Disorders, Mandalay Bay Hotel, Las Vegas, Nevada. February 1-2, 2008

31. **Baron, EM.** 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.
32. **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
33. **Baron, EM.** Trans1AxiaLIF. A novel fusion technique. Maestro's Steak House, Costa Mesa, California. Saturday, March 29, 2008
34. **Baron, EM.** Trans1AxiaLIF. A novel fusion technique. Napa Valley Grill, Los Angeles, California. Tuesday, April 29, 2008
35. **Baron, EM,** Anand, N. MIS Correction of Lumbar Deformity. Cedars Sinai Institute for Spinal Disorders Spine Conference, Los Angeles, CA. Wednesday, September 3, 2008
36. **Baron, EM.** AxiaLIF at L4-5 in the setting of Deformity. Association of Presacral Spine Surgeons Meeting. The Palazzo Hotel, Las Vegas, Nevada, Saturday, October 4, 2008
37. **Baron, EM.** Thoracic Pedicle Subtraction Osteotomy. Cedars Sinai 9th Annual Symposium on Current Concepts in Spinal Disorders, Mandalay Bay Hotel, Las Vegas, Nevada. January 29-31, 2009
38. **Baron, EM.** Update on Vertebral Cement Augmentation. Cedars Sinai 9th Annual Symposium on Current Concepts in Spinal Disorders, Mandalay Bay Hotel, Las Vegas, Nevada. January 29-31, 2009
39. **Baron, EM.** Cervical Arthroplasty: Superior to ACDF Advances in Neurology and Neurosurgery, Ritz Carlton, Marina Del Ray, CA February 14-15, 2009
40. **Baron, EM.** Traumatic Brain Injury/ICP management. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . August 24, 2009
41. **Baron, EM.** Minimally Invasive/Novel Approaches to the Lumbosacral Spine. Fifth Annual Temple Spine Symposium. Union League, Philadelphia, PA. Friday October 2, 2009
42. **Baron, EM.** Cement Augmentation: Update on Vertebroplasty and Kyphoplasty. Globus Medical Internal Grand Rounds. Audubon, PA. Monday, November 30 2009

43. **Baron, EM.** AxiaLIF: Percutaneous Stabilization & Fusion of the Lumbar Spine. Mazame Spine Summit. Washington State, March 7, 2010.
44. **Baron, EM.** Sports Related Cervical Spine Injuries: Pathophysiology and Clinical Management. Cedars Sinai Spine Center Morning Conference. Los Angeles, CA, March 10, 2010
45. **Baron, EM.** Traumatic Brain Injury/ICP management. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . August 20, 2010
46. **Baron, EM.** Stand Alone PEEK Anterior Cervical Fusion Devices. CSMC Spine Conference, Bellagio Hotel, Las Vegas, February, 2011
47. **Baron EM.** Spinal Cord Injury. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . Friday, July 29, 2011.
48. **Baron, EM.** Classification of Cervical Spine Trauma: A Brief review. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, February 25, 2011
49. **Baron, EM.** Spinal Cord Emergencies. Neurology resident and Medical Student Lecture. Cedars Sinai Medical Center, Los Angeles, CA August 24, 2011
50. **Baron EM.** Low Back Pain and Adult Spinal Deformity. 7th Annual Temple Spine Symposium. Philadelphia, PA. September 23, 2011
51. **Baron, EM.** Perspectives on a Career in Neurosurgery. Getting Started and Taking Off. A Career oriented symposium for college students. October 11, 2011. Luxe Hotel, Beverly Hills, CA
52. **Baron EM.** Spinal Cord Injury. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . Friday, April 27, 2012.
53. **Baron, EM.** Panel participant. Intellectual Salon: "When Middle East meets West, and Health meets Halacha. May 14, 2012. American Committee for Shaare Zedek program. Los Angeles, CA

54. **Baron, EM.** Traumatic Brain Injury/ICP management. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . May 25, 2012
55. **Baron, EM.** Spinal Cord Injury: New Therapies Approaches? Pediatrics State of the Art. Cedars Sinai Medical Center, Los Angeles, CA. June 2, 2012
56. **Baron, EM.** Gunshot Injuries to the Spine and Spinal Cord. Spine Trauma Conference. Cedars Sinai Medical Center, Los Angeles, CA Wednesday, August 8, 2012:
57. **Baron, EM.** Spine Surgery Complications. Cedars-Sinai Spine Center State-of-the-Art Spine Care 2012. Cedars Sinai Medical Center, Los Angeles, CA. Saturday, September 29, 2012
58. **Baron, EM.** The role of minimally invasive techniques in the management of adult deformity. World Federation of Neurologic Surgeons (WFNS) 2012 Spine Conference Chicago, Illinois, October 5th, 2012
59. **Baron, EM.** Examination of the spine, Common Spinal Disorders and Spine trauma. Neuroscience Nursing Collaborative Approach to Patient Care. Cedars Sinai Medical Center, Los Angeles, CA. Monday, October 22, 2012
60. **Baron EM.** Do We Really Need Iliac Screw Fixation in All Long Constructs for Deformity? Cedars Sinai 12th Annual Symposium on Current Concepts in Spinal Disorders, Cosmopolitan Hotel, Las Vegas, Nevada., January 2013
61. **Baron, EM.** Cervical Fractures and Cervical Spine Trauma. Cedars Sinai Clinical Symposia. Los Angeles, CA. April 13, 2013
62. **Baron, EM.** My Worst Complication and Treatment Pearls for a Successful Outcome: Lumbar posterior spinal fusion/TLIF. Thomas Jefferson Spine Fellows Alumni Symposium, Newport, Rhode Island July 19 – 20, 2013
63. **Baron, EM.** My Worst Complication and Treatment Pearls for a Successful Outcome: Cervical Foraminotomy. Thomas Jefferson Spine Fellows Alumni Symposium, Newport, Rhode Island July 19 – 20, 2013
64. **Baron, EM.** MIS Spine Surgery: Evidence in 2014. 13th Annual Symposium on Current Concepts in Spinal Disorders Las Vegas Nevada, January 2014

65. **Baron, EM.** Intraoperative Neuromonitoring: Is it a Liability? What Does the Evidence Show? The 14th Annual Symposium on Current Concepts in Spinal Disorders. January 2015, Las Vegas, Nevada
66. **Baron, EM.** Occipital Cervical Injuries Contemporary management. Spine Trauma Conference. Cedars Sinai Medical Center, Los Angeles, CA, January 15, 2014
67. **Baron, EM.** My Worst Complication and Treatment Pearls for a Successful Outcome: Iliac Screw misplacement. Thomas Jefferson Spine Fellows Alumni Symposium, Newport, Rhode Island July 25-26, 2014
68. **Baron, EM.** My Worst Complication and Treatment Pearls for a Successful Outcome: Delayed esophageal perforation. Thomas Jefferson Spine Fellows Alumni Symposium, Newport, Rhode Island July 25-26, 2014
69. **Baron, EM.** Spondylolisthesis. Neurosurgical Residency Core Curriculum Lecture, Resident Didactic Day, Cedars Sinai Neurosurgical Institute, Los Angeles, CA . October 3, 2014
70. **Baron, EM.** Surgical treatment of lumbar radiculopathy. Cedars Sinai Spine Community Conference. Cedars Sinai Medical Center. Los Angeles, California. Saturday October 11, 2014
71. **Baron, EM.** MIS deformity/under correction: Potentially a very useful strategy. Spine A to Z meeting. Aventura, FL , May 16, 2015
72. **Baron, EM.** How Technology Is Changing The Diagnosis And Surgical Treatment Of Spinal Disorders. Community lecture. Advances in Neurology and Neurosurgery. Bakersfield, CA May, 30, 2015
73. **Baron, EM.** How Technology Is Changing The Diagnosis And Surgical Treatment Of Spinal Disorders. CME lecture. Advances in Neurology and Neurosurgery. Bakersfield, CA May, 30, 2015
74. **Baron, EM.** Subaxial Cervical Spine Fractures: A Brief Review. Cedars Sinai Medical Center. Wednesday Morning Spine Trauma Conference. July 8, 2015
75. **Baron, EM.** My Worst Complication and Treatment Pearls for a Successful Outcome: Navigation related screw misplacement and repeated instrumentation failure. Thomas Jefferson Spine Fellows Alumni Symposium, Newport, Rhode Island July 10-12, 2015
76. **Baron, EM.** *Spinal Emergencies.* Cedars Sinai Medical Center. Residency Conference. August 14, 2015

77. **Baron, EM.** *Thoracolumbar trauma: surgical decision making and Case Presentation.* Cedars Sinai Medical Center. Residency Conference. August 28, 2015

Abstracts

1. Young, WF, **Baron, EM**, Soliman, AMS, Gaughan, JP, and Simpson, L. “Dysphagia, Hoarseness, and Vocal Fold Dysfunction Following the Anterior Cervical Approach to the Spine.” December 16 1999. Cervical Spine Research Society. Seattle, Washington. Oral Presentation
2. Meagher, RJ, Gopez, J, **Baron, EM**, Weaver, M , Tyagi, R, Malik, A, Narayan, RK. “The History of Neurosurgery at Temple University.” April 2001. American Association of Neurological Surgeons. Toronto, Canada
3. Tyagi, R, **Baron, EM**, Narayan, RK, Testaiuti, M, Ammirati, M Jallo, JI, Bierbrauer, KS, Kochan, JP Philadelphia, PA) April 2001. “Direct Thrombolysis in Acute Cerebral Venous Thrombosis.” April 2001. American Association of Neurological Surgeons. Toronto, Canada
4. **Baron, EM**, Soliman, AMS, Gaughan, JP, Simpson, L and Young, WF. “Dysphagia, Hoarseness, and Vocal Fold Dysfunction after Anterior Cervical Discectomy and Fusion.” October 2002. Congress International Federation of Otorhinologic Surgeons. Cairo, Egypt, Oral Presentation
5. **Baron, EM**, Gaughan, JP, Gopez, J and Jallo, J. “Intracranial Pressure Monitoring in Patients Sustaining Severe Head Injury in Pennsylvania: Risk factors and Outcomes in Hospitalized Patients Over 5 Years (1995-2000).” November 2002. Pan Philadelphia Neurosurgery Conference. Philadelphia, PA. Oral Presentation.
6. **Baron, EM**, Soliman, AMS, Gaughan, JP, Simpson, L and Young, WF. “Dysphagia, Hoarseness, and Unilateral True Vocal Fold Motion Impairment after Anterior Cervical Discectomy and Fusion.” May 2003. American Broncho Esophagological Association. May 2003. Nashville, TN Oral Presentation
7. **Baron, EM**, Gaughan, JP, Gopez, J and Jallo, J. “Intracranial Pressure Monitoring in Patients Sustaining Severe Blunt Head Injury in Pennsylvania: Risk factors and Outcomes in Hospitalized Patients Over 5 Years (1995-2000).” October 2003. Congress of Neurologic Surgeons. Denver, CO. Oral Presentation.
8. **Baron, EM**, Gaughan, JP, Gopez, J and Jallo, J. “Intracranial Pressure Monitoring in Patients Sustaining Severe Blunt Head Injury in Pennsylvania: Risk factors and Outcomes in Hospitalized Patients Over 5 Years (1995-2000).” October 2003. American College of

Surgeons. Chicago, IL

9. **Baron, EM**, Jallo, J, Erb, C. J., Benamar, K., Loftus, CM and Tuma, R. WIN 55212-2 Administration Results in Reduced Infarction Volume Following Middle Cerebral Artery Occlusion. December 3, 2004. Pan Philadelphia Neurosurgery Meeting, Philadelphia, PA.
10. Lee, JY, **Baron, EM**, Lim, MR, Grossman, E, Albert, TJ., Hilibrand, AS and Sharan, A. Quantitative Prediction of Anterior Spinal Cord Space after Cervical Laminectomy and Arthrodesis. Cervical Spine Research Society Meeting, December, 2005
11. Donaldson, K, **Baron, EM**, Jallo, JI, Laske, DW, Weaver, MW, Loftus, CM and Dominique, DA. Vertebral Body Replacement with the VBR Cage in the Setting of Metastatic Spinal Disease: The Temple Experience (2002-2005). October 2005. AO Spine Tumor Symposium. Baltimore, MD
12. Zhang, M. Martin B. R, **Baron, E**, Adler, M, Jallo, JI, Tuma, RF. Cannabinoid Receptor2 Agonist Decreases Infarct Volume In A Mouse Middle Cerebral Artery Occlusion/Reperfusion Model Experimental Biology Meeting, Long Beach, CA, February 2006
13. **Baron, EM**, Harrop, JS, Anderson, DG, Albert, TJ, Hilibrand, AS and Vaccaro, AR. Reliability of a Novel Classification System for Thoracolumbar Injuries: The Thoracolumbar Injury Severity Score (TLISS). December 16, 2005. Pan Philadelphia Neurosurgery Meeting, Philadelphia, PA
14. **Baron, EM**, Albert, TJ. Medical Complications of the Surgical Treatment of Adult Spinal Deformity and How to Avoid Them. April 7, 2006. Scoliosis Research Society Adult Deformity Focus Meeting, Chicago, Illinois
15. 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
16. Anand, N, **Baron, EM**, Siddique, K, Perri, B, Bray, RS Jr. Comparison of traditional midline approach versus muscle splitting paraspinous 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
17. Anand, N, **Baron, EM**, Bray, RS Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease. Spine Arthroplasty Summit 7, May 1-4, 2007. Berlin, Germany

18. Anand, N, Ghostine, S, **Baron, EM**. Unilateral TLIF with Unilateral Instrumentation - A consecutive series of 35 patients with minimum 2 year follow-up. North American Spine Society meeting 2007
19. Anand, N, **Baron EM**, Bray, RS. Hybrid Combined Fusion and Non-Fusion Posterior Stabilization of the Lumbar Spine: Clinical, Radiological and Functional Outcomes. *Accepted at IMAST 2007*
20. 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
21. Ghostine, S, **Baron, EM**, Anand, N. TLIF With Unilateral Instrumentation - A Prospective Study Of 35 Patients With Minimum 2 Year Follow-Up. *Accepted CNS September 15-20, 2007 San Diego, CA.*
22. **Baron, EM**, Barrer, SJ, Gopez, J, Meagher, RJ, Yoon, MS. Implantation of a Modified Rickham Reservoir in the Management of Chronic Subdural Hematoma: Technical Note. CNS September 15-20, 2007 San Diego, CA.
23. 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
24. Anand, N, **Baron, EM**, Thaiyananthan, T. Feasibility Of Long Segment Percutaneous Minimally Invasive Correction And Fusion For Lumbar Degenerative Scoliosis. Submitted to Minimally Invasive Surgery of the Spine. San Diego, CA. November 16-17, 2007
25. Anand, N, Kalsa, K, Thaiyananthan,G, **Baron, EM**. Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis - A Feasibility Study. Spine Arthroplasty Society Asia Pacific Conference. January 16-18, 2008 Seoul, Korea.
26. Anand,N, Thaiyananthan,G, **Baron, EM**. A Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Early Results. Submitted to Joint Section of Spine/Peripheral Nerve Meeting. AANS/CNS. February 27 – March 1, 2008. Orlando, FL
27. Anand,N, **Baron, EM**, Thaiyananthan,G. A Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Early Results. Submitted to Spine Arthroplasty Society, 8th Annual Meeting, May 6-9, 2008 Miami Beach, Florida
28. Anand, N, Wupperman, R, Rosemann, R **Baron, EM**. Minimally invasive L5-S1 interbody fusion for anterior column support at the end of a long segment fusion: initial results. Submitted to Spine Arthroplasty Society, 8th Annual Meeting, May 6-9, 2008 Miami Beach, Florida

29. Anand, N, **Baron, E**, Bray, RS, Jr. Posterior Non-Fusion Stabilization of the Lumbar Spine for Degenerative Disc Disease – Minimum 2 year Clinical, Radiological and Functional Results for Back Pain. Submitted to Spine Arthroplasty Society, 8th Annual Meeting, May 6-9, 2008 Miami Beach, Florida
30. 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.
31. Anand,N, **Baron, EM**, Thaiyananthan,G . Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis – Radiologic and Clinical Follow-up. Submitted to World Congress of Minimally Invasive Spinal Surgery and Techniques (WCMISST 2008), July 3-7, 2008, Honolulu, Hawaii, USA
32. Anand,N, **Baron, EM**, Thaiyananthan,G. Minimally Invasive Percutaneous Multilevel 360 degree fusion for Lumbar Degenerative Scoliosis Radiologic and Clinical Follow-up. International Meeting on Advanced Spinal Techniques (IMAST) July, 8 -11, 2008. Hong Kong.
33. 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) July, 8 -11, 2008. Hong Kong.
34. Anand, N, Rosemann, R, **Baron, EM**. Minimally Invasive Circumferential Correction and Fusion for Lumbar Degenerative Scoliosis: Minimum 1 Year Clinical and Functional results. Society for Minimally Invasive Spine Surgery, November 13-15, 2008. Henderson, NV
35. 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, November 13-15, 2008. Henderson, NV
36. Anand, N, **Baron, EM**, Rosemann, R, Härtl, R, Kitchel, S, Patel, V, Safety and Complication Profile of Percutaneous Lumbosacral Interbody Fusion. The 16th International Meeting on Advanced Spine Techniques, July, 2009, Vienna, Austria
37. 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. Submitted to The 16th International Meeting on Advanced Spine Techniques, July, 2009, Vienna, Austria
38. Anand, N, **Baron, EM**, Rosemann, R. Outcome data of MIS deformity correction for degenerative scoliosis at 1.5 years. Submitted to The 16th International Meeting on

Advanced Spine Techniques, July, 2009, Vienna, Austria.

39. 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. The 16th International Meeting on Advanced Spine Techniques, July 2009, Vienna, Austria.
40. Anand, N, Rosemann, R, Salinas, P, Baron, EM. Can Minimally Invasive Adult Spinal Deformity Correction maintain Lordosis and Global Sagittal Balance? The 16th International Meeting on Advanced Spine Techniques, July 2009, Vienna, Austria.
41. 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.
42. Anand, N, Rosemann, R, Khalsa, B, **Baron, EM**. Mid to Long Term, 1 to 2 year Clinical and Functional Outcomes of Minimally Invasive Surgery for Scoliosis. Submitted to 10th Annual SAS Global Symposium on Motion Preservation Technology. April 27 – 30, 2010, New Orleans, Louisiana
43. Anand, N, Rosemann, R, **Baron, EM**. Mid to Long Term, 1-2 year Radiological Analysis of Minimally Invasive Surgery for Adult Scoliosis. 10th Annual SAS Global Symposium on Motion Preservation Technology. April 27 – 30, 2010, New Orleans, Louisiana
44. Anand, N, Rosemann, R, Khalsa, B, **Baron, EM**. Minimally Invasive AxiaLIF L5-S1 Interbody Fusion for Anterior Column Support at the End of a Long Segment Fusion: 1 to 2 year Clinical and Functional Outcomes. 10th Annual SAS Global Symposium on Motion Preservation Technology. April 27 – 30, 2010, New Orleans, Louisiana
45. Anand, N, Baron, E Safety and Complications of Profile of Percutaneous Lumbosacral Axial Interbody Fusion, Society for Minimally Invasive Spine Surgery (SMISS), Miami, FL, October 2010.
46. Anand, N, Kahwaty, S, Daroudi, S, Baron, E. Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity. Submitted to 11th Annual SAS Global Symposium on Motion Preservation Technology. April 26 – 29, 2011, Las Vegas, Nevada, USA
47. Anand, N, Kahwaty, S, Daroudi, S, Baron, EM, Boachie-Adjei, O. 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. 11th Annual SAS Global Symposium on Motion Preservation Technology. April 26 – 29, 2011, Las Vegas, Nevada, USA
48. Anand, N, Kahwaty, S, Khandehroo, B, Baron, E. Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity.

Scoliosis Research Society. 18th International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011

49. Anand, N, Kahwaty, S, Khandehroo, B, Baron, E. Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity. Scoliosis Research Society. 46th Annual Meeting & Course, Louisville, Kentucky, USA, September 14-17, 2011
50. Anand, N, Kahwaty, S, Daroudi, S, **Baron E**, Boachie-Adjei, O. 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. International Society for the Study of the Lumbar Spine (ISSLS) 2011, Gothenberg, Sweden, June 14-18, 2011
51. Anand, N, Daroudi, S, Kahwaty, S, **Baron E**. Long Term 2 to 4 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity. International Society for the Study of the Lumbar Spine (ISSLS) 2011, Gothenberg, Sweden, June 14-18, 2011
52. **Anand, N**; Kahwaty, S; Khanderoo, B; Baron, EM; Two to Four Year Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity; SRS 46th Annual Meeting, Louisville, KY, September 14-17, 2011
53. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M**. Can Transsacral AxiaLIF Fixation at the Bottom of a Long Construct Avoid the Need for Iliac Bolt? International Society for the Advancement of Spine Surgery 12 - Barcelona, Spain - March 20-23, 2012
54. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M**. Can Minimally Invasive Surgical Strategies for Deformity Correction Avoid the Need for Routine Osteotomies in Moderate to Severe Adult Scoliosis? International Society for the Advancement of Spine Surgery 12 - Barcelona, Spain - March 20-23, 2012
55. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M**. Minimally Invasive Pedicle Screw Instrumentation and Fusion for Adult Scoliosis - Functional and Radiological Outcomes International Society for the Advancement of Spine Surgery 12 - Barcelona, Spain - March 20-23, 2012
56. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M**. Does Minimally Invasive Surgical (MIS) Treatment of Adult Spinal Deformities Affect the Incidence of Proximal Junctional Kyphosis? 19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012
57. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M**. Can Transsacral AxiaLIF Fixation at the Bottom of a Long Construct Avoid the Need for Iliac Bolt. 19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012

58. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M.** Can Minimally Invasive Surgical Strategies for Deformity Correction Avoid the Need for Routine Osteotomies in Moderate to Severe (>50 degrees) Adult Scoliosis? 19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012
59. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M.** Minimally Invasive Pedicle Screw Instrumentation and Fusion for Adult Scoliosis - Functional and Radiological Outcomes. 19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012
60. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M.** Long Term 2 to 5 year Clinical and Functional Outcomes of Minimally Invasive Surgery (MIS) for Adult Spinal Deformity. 19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012
61. Anand, N, Khandehroo, B, **Baron, E. M.**, Kahwaty S. Does Minimally Invasive Surgical (MIS) Treatment of Adult Spinal Deformities Affect the Incidence of Proximal Junctional Kyphosis (PJK)?, Annual Meeting of the Society for Minimally Invasive Spine Surgery (SMISS), Miami, FL, September 21-23, 2012
62. Anand, N, Khandehroo, B, **Baron, E. M.**, Kahwaty S. Can Minimally Invasive Surgical (MIS) Strategies for Deformity Correction Avoid the Need for Routine Osteotomies in Moderate to Severe Adult Scoliosis? Annual Meeting of the Society for Minimally Invasive Spine Surgery (SMISS), Miami, FL, September 21-23, 2012
63. Anand, N, Khandehroo, B, Kahwaty S, **Baron, E. M.** Complications of Minimally Invasive Surgical (MIS) Correction of Spinal Deformity – A 5 year experience. American Academy of Orthopaedic Surgery (AAOS), Chicago, IL - March 19 – 23, 2012
64. Anand, N, Khandehroo, B, **Baron, E. M.**, Kahwaty S. Technique Related complications of circumferential Minimally Invasive spinal Surgery (MISS) for correction of Spinal Deformity - A 5 year experience. Annual Meeting of the Society for Minimally Invasive Spine Surgery (SMISS), Miami, FL, September 21-23, 2012
65. Anand N, Khandehroo B, **Baron EM**, Kahwaty S. Technique Related Complications Of Circumferential Minimally Invasive Spinal Surgery (Miss) For Correction Of Spinal Deformity - A 5 Year Experience. International Society for the Study of the Lumbar Spine Annual Meeting in Scottsdale, Arizona, May 13-17, 2013
66. Anand, N, **Baron, EM**, Khanderoo, B, Kahwaty, S. MISS Deformity Correction and its Effects On Radiographic and Pelvic Parameters. State of Spine Surgery – A Think Tank,

Los Cabos, Mexico at the Fiesta Americana Grand Resort. June 20-22, 2013

67. Anand N, Khandehroo B, Kahwaty S, **Baron EM**. Is there a limitation to correction of Sagittal balance with Circumferential Minimally Invasive Surgical (CMIS) correction of Adult Spinal Deformity (ASD)? North American Spine Society 28th Annual Meeting (NASS), Oct 9 -12, 2013 New Orleans, Louisiana
68. Anand N, Khandehroo B, Kahwaty S, **Baron EM**. Does the Thoracolumbar Upper Instrumented Vertebra (UIV) Level Make a Difference in Proximal Junctional Kyphosis (PJK) with Circumferential Minimally Invasive Surgical (CMIS) Correction of Adult Spinal Deformity (ASD)? North American Spine Society 28th Annual Meeting (NASS), Oct 9 -12, 2013, New Orleans, Louisiana
69. Drazin, D, **Baron, EM**, Khandehroo B, Anand, N. Outcomes of Elderly Patients with Spinal Deformity Primarily Managed with Minimally Invasive Surgical Techniques - Submitted: 4/11/2013. Congress of Neurological Surgeons Annual Meeting, October 19 – 23, 2013 in San Francisco, California
70. Anand, N, Khaderoo, B, **Baron, EM**, Khawaty, S. Limitations and Ceiling Effects of Circumferential Minimally Invasive Surgical (cMIS) Techniques for the Treatment of Adult Scoliosis - Analysis of a 6-Year Experience. Annual Meeting of the Society for Minimally Invasive Spine Surgery (SMISS), November 1-3, 2013, Las Vegas NV
71. Anand, N, Khandehroo, B, **Baron, EM**, Kahwaty, S, Cohen, JE, Cohen, RB: Limitation and ceiling effects of Circumferential minimally Invasive Surgical (CMIS) Techniques for the Treatment of Adult Scoliosis- Analysis of a 6-year Experience. Annual Meeting of International Society for the Advancement of Spine Surgery (ISASS), Miami, FL April 30- May 2, 2014.
72. Anand, N, Khandehroo, B, **Baron, EM**, Kahwaty, S, Cohen, JE, Cohen, RB: Reoperation and Immediate Readmission Rates after Circumferential Minimally Invasive Surgical (CMIS) Correction of Adult Spinal Deformities (ASD); Annual Meeting of International Society for the Advancement of Spine Surgery (ISASS), Miami, FL April 30- May 2, 2014.
73. Anand, N, Khandehroo, B, **Baron, EM**, Kahwaty, S, Cohen, JE, Cohen, RB: 5 Year Outcomes and Survivorship Analysis of Posterior Pedicle Screw Non-fusion Stabilization; Annual Meeting of International Society for the Advancement of Spine Surgery (ISASS), Miami, FL April 30- May 2, 2014.
74. Anand, N, Khandehroo, B, **Baron, EM**, Kahwaty, S, Cohen, JE, Cohen, RB: Correction of Sagittal Profile and Pelvic Parameters with CMIS Techniques for Treatment of Adult Scoliosis; Annual Meeting of International Society for the Advancement of Spine Surgery (ISASS), Miami, FL April 30- May 2, 2014.

75. Anand, N; Khanderoo, B; **Baron, EM**; Kahwaty, S: Reoperation and immediate Readmission Rates after Circumferential Minimally Invasive Surgical (cMIS) Correction of Adult Spinal Deformities (ASD); 7th Annual Lumbar Spine Research Society Meeting (LSRS), Chicago, IL, May 1-2, 2014
76. Anand, N; Khanderoo, B; **Baron, EM**; Kahwaty, S: 5-Year Outcomes and Survivorship Analysis of Posterior Pedicle Screw Non-Fusion Stabilization; Annual Meeting of the Society for Min. Invasive Spine Surgery (SMISS), Miami, FL, Sept 19-21, 2014
77. Anand, N; Khanderoo, B; **Baron, EM**; Kahwaty, S: Do Hyper-Lordotic Cages Help Create and Maintain Sagittal Alignment with MIS Correction of Adult Scoliosis?; Annual Meeting of the Society for Min. Invasive Spine Surgery (SMISS), Miami, FL, Sept 19-21, 2014
78. Hsieh, J, Drazin, D, **Baron, E**, Pashman, R, Johnson, JP, Kim, T. Cervical Spine Instrumentation With The Use of Intra-operative CT O-arm-based Navigation. Submitted to Cervical Spine Research Society 2013
79. Drazin D, Al-Khouja L, **Baron EM**, Kim TT, Johnson JP (2014, Oct). Cost-Effectiveness Analysis in Minimally Invasive Spine Surgery. Platform presentation. Congress of Neurological Surgeons Annual Meeting. October 18 – 22, 2014 in Boston, Massachusetts
80. Drazin D, Nuno M, Shweikeh F, Johnson JP, Kim TT, Vaccaro AR, **Baron EM** (2014, Oct). Vertebral augmentation and the elderly - a benign solution? National evidence of the impact of age and comorbidities on complications, discharge disposition and mortality. Oral presentation. Congress of Neurological Surgeons Annual Meeting. October 18 – 22, 2014 in Boston, Massachusetts
81. Drazin D, Al-Khouja L, Campbell J, Shweikeh F, **Baron EM**, Pashman R, Johnson JP, Kim TT (2014, Oct). Minimally invasive surgery for management of traumatic lumbar spine fractures: A systemic review of techniques and outcomes. Poster presentation. Congress of Neurological Surgeons Annual Meeting. October 18 – 22 , 2014 in Boston, Massachusetts
82. Drazin D, Nuno M, Shweikeh F, Johnson JP, Kim TT, Vaccaro AR, **Baron EM** (2014, Oct). Outcomes and national trends for the surgical treatment of lumbar spine trauma. Poster presentation. Congress of Neurological Surgeons Annual Meeting. October 18 – 22, 2014 in Boston, Massachusetts
83. Anand, N, Sardar, Z, Khanderoo, B, Simmonds, A, **Baron , E**, Kahwaty S. What is the Influence of the Lordosis and Position of Lateral Interbody Cages on the Segmental Lordosis Achieved?. SRS/IMAST meeting 2015
84. Anand, N, Simmonds, A Sardar, Z, Khanderoo, B, Kahwaty S **Baron , E**.. Circumferential minimally invasive thoracic to pelvis long spinal fusion in adult patients with spinal deformity. SRS/IMAST meeting 2015

85. Anand, N, Sardar, Z, Khanderoo, B, Simmonds, A, Kahwaty S **Baron , E.** Analysis of SRS-Schwab Sagittal Modifiers after cMIS correction of adult scoliosis with a refined staged protocol. SRS/IMAST meeting 2015
86. Anand N, Khanderoo B, Sardar Z, Simmonds A, Kahwaty S, Baron EM. Improving Segmental, regional Lordosis and sagittal vertical alignment(SVA) in Circumferential Minimally Invasive Surgical correction of adult spinal scoliosis: the effect of hyperlordotic cages. International Society for the Study of the Lumbar Spine . 42nd Annual Meeting. San Francisco, June 8-12, 2015
87. Ross, L, Drazin, D, Lagman, C, Hsieh, J, **Baron, EM**, Kim, TT, Johnson, JP. A Comparative Cohort Study of Cervical 1-2 instrumentation: Fluoroscopy versus CT-image Guidance Navigation. Submitted to The International Society for the Advancement of Spine Surgery Meeting. April 5-6, 2016. Las Vegas, Nevada

Book Chapters

1. **Baron, EM**, and Young, WF. Cervical Spondylosis. *E-medicine Neurology*. 2000, 2005, 2006
2. **Baron, EM** and Jallo JI. Traumatic Brain Injury: Pathology, Pathophysiology, Acute Care and Surgical Management, Critical Care Principles and Outcomes in Zasler, Katz & Zafonte, eds. *Brain Injury Medicine: Principles & Practice* (eds) Demos Publishing, New York 2006
3. **Baron, EM**. Spinal Tumors: Classification, Staging and Management in Anderson, D.G., Vaccaro, A. R. *Decision Making in Spinal Care*. Thieme Medical Publishing, New York. 2005
4. **Baron EM**, Zeiller S, Vaccaro, AR, Hilibrand, AS. Surgical Management of Thoracolumbar Fractures. *Contemporary Spine*. December 2005. Lippincott Publishing, Philadelphia. 2005.
5. **Baron, EM**. D. Dominique D. Anterior Cervical Instrumentation in Pediatric Patients in Kim, D., Betz, R, Huhn, S. and Newton, P. *Surgery of the Pediatric Spine*. Thieme Medical Publishing, New York. 2005
6. **Baron, EM**. Choi, D. Harrop, JS, Vaccaro, AR, Crockard, HA. Anterior Odontoid Resection in Vaccaro, A, Baron, EM *Atlas of Spinal Surgery*. Elsevier Medical Publishing, Philadelphia. 2007

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39. Ghobrial, GM, **Baron, EM**, Choi, D, Singh, H , Harrop, JS, Johnson, JP, Vaccaro, AR and Crockard, HA. Anterior Odontoid Resection: The Transoral Approach in Vaccaro, A, Baron, EM *Atlas of Spinal Surgery*. 2nd edition Elsevier Medical Publishing, Philadelphia. 2012
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56. **Baron, EM**. Spinal cord and spinal nerves: gross anatomy in Standing, S. Gray's Anatomy Forty First Edition, Churchill Livingstone, Edinburgh, 2015
57. Schiraldi, M. **Baron, EM**, Vaccaro, AR. C1-2 Arthrodesis— Lateral Approach of Barbour and Whitesides in Vaccaro, AR, Albert, TJ. *Spine Surgery: Tricks of the Trade*. 3rd edition. Thieme Medical Publishing, New York, 2015
58. **Baron, EM**, Anand, N, Drazin, D. Open Placement Of Pedicle Screws: Lumbar, Sacral, And Iliac Screws in Fessler, R. G, Sekhar, L. N. *Atlas of Neurosurgical Techniques: Spine and Peripheral Nerves*, 2nd Edition. Thieme Medical Publishing, New York, 2015
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60. Jeswani, S, **Baron, EM**, Anand, N. Lumbar Internal Laminectomy. in Vaccaro, A, Baron, EM *Atlas of Spinal Surgery*. 3rd edition Elsevier Medical Publishing, Philadelphia. 2016
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65. Nomoto, **EK**, **Baron, EM**, Vaccaro, AR. Spinal Infections in Loftus, CM. *Neurosurgical Emergencies*, 3rd edition. Thieme Medical Publishing, New York, 2016

Edited Text Books

1. Vaccaro, AR, **Baron, EM** (ed). *Operative Techniques: Spine Surgery*. Elsevier Publishing, Philadelphia 2007
2. Vaccaro, AR, **Baron, EM** (ed). *Operative Techniques: Spine Surgery. 2nd Edition*. Elsevier Publishing, Philadelphia, June 2012
3. Vaccaro, AR, **Baron, EM** (ed). *Operative Techniques: Spine Surgery. 3rd Edition*. Elsevier Publishing, Philadelphia, June 2016
4. Loftus, CM, Biller, J, **Baron, EM**. *Intraoperative Neuromonitoring*. McGraw-Hill, 2nd ed., New York December 2013.

Peer Review Activity

1. Ad Hoc Reviewer for *J. Neurotrauma* 2004
2. Ad Hoc Reviewer for *Surgical Neurology* 2005
3. Ad Hoc Reviewer for *Neurosurgery* 2006
4. Ad Hoc Reviewer for *Journal of Stroke and Cerebrovascular Diseases* 2006
5. Ad Hoc Reviewer for *Spine* 2006
6. Ad Hoc Reviewer for *Spine* 2010
7. Editorial Board *Contemporary Spine Surgery* 2012
8. Ad Hoc Reviewer for *Neurosurgery* 2014
9. Ad Hoc Reviewer for *Journal of Spinal Disorders and Techniques* 2015

Course Instructor Activity

December 2007. Course instructor. Current Concepts in Spine Surgery sponsored by Globus Medical Corporation. W Hotel. Los Angeles, CA

February 2008. Course instructor. Cedars Sinai 7th Annual Symposium on Current Concepts in Spinal Disorders, Mandalay Bay Hotel, Las Vegas, Nevada.

January 2009 . Course instructor. Cedars Sinai 8th Annual Symposium on Current Concepts in Spinal Disorders, Mandalay Bay Hotel, Las Vegas, Nevada.

February 4-6, 2010. Course instructor. Cedars Sinai 9th Annual Symposium on Current Concepts in Spinal Disorders, Bellagio Hotel, Las Vegas, Nevada.

June 5, 2010. Course instructor. Association for Presacral Spine Surgeons, Las Vegas Nevada

February 3-5, 2011. Course instructor. Cedars Sinai 10th Annual Symposium on Current Concepts in Spinal Disorders, Bellagio Hotel, Las Vegas, Nevada.

February 2 – 4, 2012. Course instructor. Cedars Sinai 11th Annual Symposium on Current Concepts in Spinal Disorders, Paris Hotel, Las Vegas, Nevada.

January 31-February 2, 2013. Course instructor. Cedars Sinai 12th Annual Symposium on Current Concepts in Spinal Disorders, Cosmopolitan Hotel, Las Vegas, Nevada.

January 30-February 1, 2014. Course instructor. Cedars Sinai 13th Annual Symposium on Current Concepts in Spinal Disorders, Cosmopolitan Hotel, Las Vegas, Nevada.

January 29- January 31, 2015. Course instructor. Cedars Sinai 14th Annual Symposium on Current Concepts in Spinal Disorders, Aria Hotel, Las Vegas, Nevada.

Extracurricular Activities

1997 - 1998	Student Advisor for First Year Medical Students
1995 - 1997	Student Surgical Society
1990 - 1998	Blackbelt Candidate: Okinawan Shorin-Ryu Karate

Memberships

1994	Golden Key National Honor Society
1995	Phi Beta Kappa
1995 - 2003	American Medical Association
1995 - 1999	American Medical Student Association
1995 – 2003	Pennsylvania Medical Society
1998	Alpha Omega Alpha
2000	Pennsylvania Neurosurgical Society
2003	Congress of Neurologic Surgeons
2003	American Association of Neurological Surgeons
2005	North American Spine Society
2007	Spine Arthroplasty Society
2009	Association Of Collaborative Spine Research

Outside Interests

Fishing, Martial Arts, Herpetology, Computer Technologies, Fountain Pens