

Samir Lapsiwala, M.D., F.A.A.N.S., F.A.C.S

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PRACTICE

2009-Present Fort Worth Brain & Spine Institute, LLP, Fort Worth, TX

2006-2009 Private Practice, Santa Rosa, CA

EDUCATION

2005-2006 **Spine Fellowship**
Director: Dr. Edward Benzel
Cleveland Clinic Foundation
Cleveland, OH

1999-2005 **Neurosurgery Residency**
University of Wisconsin Hospital and Clinics
Madison, WI

1998-1999 **General Surgery Internship**
University of Wisconsin Hospital and Clinics

1994-1998 **M.D. Pennsylvania State University School of Medicine**
Milton S. Hershey Medical Center
Alpha Omega Alpha graduate

1990-1994 **B.S. University of California at San Diego**
Major: Animal Physiology and Neuroscience
Minor: Psychology
Magna Cum Laude (GPA 3.82/4.00)

1987-1990 **High School Diploma**
Diamond Bar High School
Diamond Bar, CA

LICENSING EXAMINATION

March 2002 Neurosurgery Written Boards
Passed for credit PGY -4
Score: 632 (91 %tile)

March 2001 Neurosurgery Written Boards
Passed for practice PGY -3
Score 476

May 1999 USMLE III: Passed
March 1998 USMLE II: Passed
June 1996 USMLE I: Passed, Score 243 (98 %tile)

HONORS AND AWARDS

2002	Resident Research Award – Given to one resident who shows commitment to research and publishing
2002	Winner of the Best Poster Award 5 th Biennial Satellite Symposium of the AANS/CNS Section of Tumors, Chicago, IL, April 2002
1998	Alpha Omega Alpha graduate
1998	Dean's Award – Given to one of the top graduating medical students
1994	Outstanding Achievement Award in Biology - - Given to the top graduating student in the department
1994	Magna Cum Laude Graduate
1991-1994	Invitation to Revelle Honors Banquet
1991-1993	Revelle Provost's List (8 quarters)
1991-1992	University Scholarship – University of California
1990	National Golden Key Honors Society
1990	California Scholastic Federation – Honorary Society

GRANTS

2003-2004	The CNS/DePuy AcroMed Clinical Fellowship in Spinal Neurosurgery One fellowship (\$50,000) is awarded for research in spinal neurosurgery annually. Project: Comparing biomechanical properties of C1-C2 pedicle screw fixation techniques with anterior and posterior transarticular screw fixation. Advisors: Dr. Daniel Resnick, Dr. Gregory Trost, Dr. Thomas Zbedlick
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RESEARCH

2005-2006	Biomechanics of rod connectors Advisor: Robert McLain, MD Cleveland Clinic Spine Institute
2003-2004	Biomechanical study of C1-2 fusion techniques Advisor: Daniel Resnick, MD Department of Neurosurgery and Division of Orthopedics
2000-2004	Neuro-oncology Laboratory Advisor: Behnam Badie, MD Department of Neurosurgery Project: Explored the role of microglia and endothelial cells in glial neoplasms using rat C6 glioma model
1995-1997	Medical Student Research Project Advisor: Dennis Johnson, MD at Pennsylvania State University School of Medicine, Department of Neurosurgery Project: Spinal CSF physiology as it relates to Syringomyelia
1992-1993	Research Assistant Advisor: Dr. Adrienne Brian at La Jolla Cancer Research Center Project: The role of T-cell surface molecule LFA-1 and B-cell surface molecule ICAM-1 in potentiating immune response

TEACHING EXPERIENCE

April 2002	University of Wisconsin Physician Assistant School
Winter 1995	Course Chair for Neuroanatomy Pennsylvania State University School of Medicine Department of Anatomy
Fall 1993 & Winter 1993	Teaching Assistant University of California, San Diego Department of Biology Multicellular Life Biology and Cellular Neurobiology
Fall 1992 & Winter 1993	Student Health Advocate University of California, San Diego Student Health Center

POSTER PRESENTATIONS

1. Nguyen P, **Lapsiwala S**, Haughton V, Dempsey R. *Adjunctive Use of Preoperative Functional Magnetic Resonance Imaging for Cerebral AV Malformation Surgery* The Congress of Neurological Surgeons Annual Meeting, San Antonio, TX; September 2000.
2. Badie B, **Lapsiwala S**, Nguyen P, and Pyle M. *Elevation of the internal auditory canal pressure by vestibular schwannomas*. Annual Meeting of the North American Skull Base Society, Lake Buena Vista, FL, February 2001.
3. **Lapsiwala S**, Resnick D, *Anatomic suitability of the C1-2 complex for pedicle screw fixation*. The AANS/CNS Joint Section Meeting of Spine & Peripheral Nerves, Tampa, FL, February 2002.
4. Badie B, **Lapsiwala S**, Pyle M. *Correlation of Auditory Function to the Internal Auditory Canal Pressure in Patients with Vestibular Schwannomas* American Association of Neurological Surgeons Annual Meeting, Chicago, IL, April 2002.
5. Badie B, Prabakaran S, Salamat S, MD, PhD, Haughton V, Rowley H, Field A, Schartner J, **Lapsiwala S**. *Low-grade Glioma Invasion Pattern: Correlation of Gene Expression Profile to Radiographic Findings*. 5th Biennial Satellite Symposium of the AANS/CNS Section on Tumors, Chicago, IL, April 2002. **Winner of the Best Poster Award**
6. Badie B, Schartner JM, **Lapsiwala S**, Salamat SM, Weichert JP. *Novel imaging of intracranial gliomas Using NM404*. American Association of Neurological Surgeons Annual Meeting, San Diego, CA, April 2003.
7. **Lapsiwala S**, Salamat SM, Badie B. *Surgical Management of low grade insular glioma*. Congress of Neurological Surgeons Annual Meeting. San Francisco, CA October 2004.
8. **Lapsiwala S**, Anderson P, Oza A, Resnick D. *Comparing biomechanics of four C1-C2 rigid fixative techniques: anterior transarticular, posterior transarticular, C1-C2 pedicle and C2 translaminar screws*. Cervical Spine Research Society Meeting. Boston, MA, December 2004.

ORAL PRESENTATIONS

1. **Lapsiwala S**, Rusy D, Medow J, Iskandar B. *Use of intra-operative monitoring in tethered cord release surgery in children*. The Congress of Neurological Surgeons Annual Meeting, San Diego, CA; September 2001.
2. Badie B, Schartner, **Lapsiwala S**, Prabakaran S, Peebles TR, and Vorpahl J. *Microglia cyclooxygenase-2 activity in experimental gliomas: possible role in cerebral edema formation*. First World Federation of Neuro-oncology Societies Annual Meeting, Washington, DC, November 2001.
3. Badie B, **Lapsiwala S**, Pyle M, Kaemmerle AW. *Correlation Between Auditory Function and Internal Auditory Canal Pressure in Vestibular Schwannoma Patients*. 13th Annual Meeting of the North American Skull Base Society, San Diego, 2002.
4. Badie B, Schartner J, **Lapsiwala S**, Peebles T, Resnick D. *Role of microglia in brain edema formation in gliomas*. American Association of Neurological Surgeons Annual Meeting, Chicago, IL, April 2002.
5. **Lapsiwala S**, Badie B, Nelson L, Sadrzadeh A, Haughton V, Moritz C, Meyerand E. *Preoperative mapping of the supplementary motor area in patients with frontal lobe brain tumors*. 5th Biennial Satellite Symposium of the AANS/CNS Section on Tumors, Chicago, IL, April 2002.
6. Behnam B, **Lapsiwala S**, Noyes J, Sadrzadeh A. *Surgical management of low-grade insular glioma*. 5th Biennial Satellite Symposium of the AANS/CNS Section on Tumors, Chicago, IL, April 2002.
7. Behnam B, **Lapsiwala S**. *Identification of Gene Expression Profiles That Predict the Invasive Behavior of Low-Grade Oligodendrogliomas*. The Congress of Neurological Surgeons Annual Meeting, Philadelphia, PA: September, 2002.
8. **Lapsiwala S**, Schartner J, Badie B. *Correlation of microglia function and tumor immunogenicity in rodent gliomas*. The Congress of Neurological Surgeons Annual Meeting, Philadelphia, PA: September, 2002.
9. **Lapsiwala S**, McLain Robert Biomechanics of Rod-Connectors. AO Spine Fellows Forum, Banff, Canada: March 2006. (Ranked second place for best presentation)

PUBLISHED PAPERS

1. **Lapsiwala S**, Pyle G, Kaemmerle A, Badie B. *Correlation Between Auditory Function and Internal Auditory Canal Pressure in Vestibular Schwannoma Patients*. Journal of Neurosurgery. 96(5):872-6. May 2002 (selected for journal cover illustration).
2. Resnick D, **Lapsiwala S**, Trost G. *Anatomic suitability of the CI-2 complex for pedicle screw fixation*. Spine. 27(14):1494-8. July 2002.
3. **Lapsiwala S**, Mofitakhar R, Badie B. *Drug-Induce, Iatrogenic ICH* Neurosurgery Clinics of North America. 13(3):299-312, v-vi. July 2002.
4. Nelson L, **Lapsiwala S**, Haughton V, Noyes J, Sadrzadeh A, Moritz C, Meyerand E, and Badie B. *Preoperative mapping of the supplementary motor area in patients with medial frontal lobe brain tumors*. Journal of Neurosurgery. 97(5):1108-14. November 2002.

5. Badie B, Schartner J, Prabakaran S, Peebles TR, Bartley B, **Lapsiwala S**, Resnick DK, and Vorpahl J. Microglia cyclooxygenase-2 activity in experimental gliomas: possible role in cerebral edema formation. Clinical Cancer Research, 9(2): 872-7. February 2003.
6. **Lapsiwala S**, Iskandar B. Tethered cord syndrome in adults with spina bifida occulta. Neurological Research, 26(7):735-40. October 2004.
7. **Lapsiwala S**, Anderson PA, Oza A, Resnick DK. Biomechanical comparison of four C1 to C2 rigid fixative techniques: anterior transarticular, posterior transarticular, C1 to C2 pedicle, and C1 to C2 intralaminar screws. Neurosurgery, 58(3): 516-21. March 2006.
8. **Lapsiwala S**, Benzel E. Surgical management of cervical myelopathy dealing with the cervical-thoracic junction. The Spine Journal, 6(6): S268-S273. November 2006.

PUBLISHED CHAPTERS

1. **Lapsiwala S**, Trost G. In The Cervical Spine, Fourth Edition. "Diagnosis and Differential Diagnosis of Cervical Myelopathy." Lippincot-Raven Publishers, Philadelphia, PA. Benzel E, ed. 2004.
2. **Lapsiwala S**, Resnick. In Neurosurgical Operative Atlas, Second Edition. "Surgical Management of Spinal Meningiomas." Thieme Medical and Scientific Publishers, New York, NY. Badie B, ed. 2004.

BOOK REVIEW

1. **Lapsiwala S**. Critical Review of book Magnetic Resonance Imaging of the Brain and Spine. 3rd Edition by Scott W. Atlas. Journal of Neurosurgery, 97(6): 1482-3. December 2002.