

curriculum vitae

RAVISH PATWARDHAN M.D.

NEUROSURGEON



FOUNDER & DIRECTOR

The Comprehensive NeuroSurgery Network, LLC

www.brainspinecare.com

The Interactive Neuroscience Center, LLC

www.neuroscience.ws

FOUNDER & PRESIDENT

Re-VITALIZE! PHILANTHROPIC FOUNDATION

A Non-profit organization

www.brainspinecare.com/community

PRACTICE TYPE General Neurosurgery of Brain, Spine, & Peripheral Nerves
Minimally invasive Neurosurgery
Highly specialized Neurosurgery using latest techniques

PRACTICE SETTING Willis-Knighton Pierremont, Suite 970,
8001 Youree Drive, Shreveport, LA 71119

CONTACT INFORMATION Tel (318) 797-5543; Fax (318) 797-7608;
Website: www.brainspinecare.com
Email: rp@brainspinecare.com

CITIZENSHIP United States

EDUCATION

Bachelor of Science (B.S.)

1993

UCR/UCLA Accelerated (7-year) Program in Biomedical Sciences

Riverside, California

Double Major:

(1) Biomedical Sciences

(2) Electrical Engineering

Doctor of Medicine (M.D.)

1996

UCLA School of Medicine

Los Angeles, California

ACADEMIC & PRIVATE PRACTICE POSITIONS

Clinical

Intern - General Surgery

1996-1997

University of Alabama, Birmingham

Department of Surgery

Birmingham, Alabama

Resident - Neurosurgery

1997-2001

University of Alabama

Division of Neurosurgery

Birmingham, Alabama

Cleared Neurosurgery written Board exam for credit, 2001

Chief Resident - Neurosurgery

2002-2004

Department of Neurosurgery

Louisiana State University - Shreveport

Shreveport, Louisiana

Fellow

7-10/2003

Epilepsy Neurosurgery (Dr. Itzhak Fried & Dr. Gary Mathern);

Functional Neurosurgery (Dr. Antonio DeSalles);

Neurosurgical Treatments for Pain (Dr. Antonio DeSalles &

Dr. Joshua Prager)

Division of Neurosurgery

U.C.L.A. School of Medicine

Los Angeles, California

Assistant Professor

4/2004-3/2006

Functional, Epilepsy, Minimally Invasive, & General Neurosurgery

Department of Neurosurgery

LSUHSC-Shreveport, Louisiana

Founder, Director, & Neurosurgeon

3/2006-Present

The Comprehensive Neurosurgery Network, LLC
An Independent, Solo Private Practice based at Willis-Knighton
Pierremont, with privileges at Schumpert and Lifecare hospitals also

Additional Training

Transcranial Doppler Fellowship Certification 1994
Cerebral Blood Flow Laboratory
Division of Neurosurgery, UCLA Medical Center
Los Angeles, California

Gamma Knife Radiosurgery 2003
Department of Neurosurgery, University of Pittsburgh,
Pittsburgh, Pennsylvania

U.C.L.A. Brain Mapping Center 2003
Transcranial Magnetic Stimulation (TMS) Laboratory
Los Angeles, California

Clinical Trials (GCP) Fundamentals Training 2004
LSU Health Sciences Center
Shreveport, Louisiana

Association of Clinical Research Professionals 2007
Member
“Project Management” course
Houston, Texas

RESEARCH POSITIONS

Staff Research Associate 1993
UCLA Microneurosurgical Skull Base Laboratory
[Dr. Mario Ammirati, Director]
Division of Neurosurgery
UCLA School of Medicine
Los Angeles, California

Research Assistant 1994-1996
UCLA Cerebral Blood Flow Laboratory
[Dr. Neil A. Martin, Director]
Division of Neurosurgery
UCLA School of Medicine
Los Angeles, California



Researcher 1996
Clinical Neurophysiology Lab – Microelectrode
Construction for Epilepsy & Functional Monitoring
Division of Neurosurgery (UCLA),
Department of Electrical Engineering (UCLA), &
Jet Propulsion Laboratory
Los Angeles, California

Project Director & Investigator 1999
The role of ninth cranial nerve stimulation for seizure
control in both animal and human cadaveric models
Cardiac Rhythm Management Laboratory
Department of Cardiology
University of Alabama, Birmingham
Birmingham, Alabama

Co-Principal Investigator 1999
The role of diffusion-perfusion MRI in spinal cord injury
[Dr. Mark N Hadley, Co-Principal Investigator]
University of Alabama, Birmingham
Birmingham, Alabama

Co-Principal Investigator 2000
A solution for differentiating fatty versus nervous tissue
University of Alabama, Birmingham
Birmingham, Alabama

Principal Investigator 2002-2004
A prospective study determining the incidence of
non-convulsive status epilepticus in adults suffering
post-traumatic severe brain injury
Louisiana State University Health Sciences Center - Shreveport
Shreveport, Louisiana (Co-P.I. 2002-2004; P.I. 2004-)

Co-Principal Investigator 2003
The role of doxycycline as a metalloproteinase inhibitor
in spontaneous hypertensive intracerebral hemorrhage
Louisiana State University Health Sciences Center - Shreveport
Shreveport, Louisiana

Principal Investigator 2003
The use of frameless navigation for deep brain stimulation
U.C.L.A.
Los Angeles, California

MEMBERSHIP

American Association of Neurological Surgeons	1996 - Present
American Epilepsy Society	2002 - Present
American Medical Association	1993 - Present
California Medical Association	1994 - 1996
Congress of Neurological Surgeons	1996 - Present
Louisiana State Medical Society (including Delegate in '02,'06)	2002 - Present
Louisiana State Medical Society Membership Committee	2006
Shreveport Medical Society	2002 - Present
World Society for Stereotactic and Functional Neurosurgery	2002

PUBLICATIONS IN PRINT

Chapters in books & Articles in referenced journals

1. Martin NA, **Patwardhan RV**, Alexander MJ, Africk CZ, Lee JH, Shalmon E, Hovda DA, Becker DP: Characterization of cerebral hemodynamic phases following severe head trauma: hypoperfusion, hyperemia, and vasospasm. *Journal of Neurosurgery* 87:9-19, 1997.
2. Perez-Cruet M, **Patwardhan RV**, Mawad ME, Klucznik RP, Rose JE: Treatment of dissecting pseudoaneurysm of the cervical internal carotid artery using a wall stent and detachable coils: Case Report. *Neurosurgery* 40(3):622-626, 1997.
3. **Patwardhan RV**, Martin NA: "Venous Angiomas," in Welch M, Caplan L, Reis D, Siesjo B, Weir B (eds.): *Primer on cerebrovascular diseases*, Academic Press, San Diego, 1996.
4. American association of clinical anatomists, Educational affairs committee: The clinical anatomy of several invasive procedures. *Clinical anatomy* 12:43-54, 1999.
5. **Patwardhan RV**, Stong B, Bebin M, Mathisen J, Grabb PA: Efficacy of vagal nerve stimulation in children with medically refractory epilepsy. *Neurosurgery* 47:1353-1358, 2000.
6. **Patwardhan RV**, Hadley MN: "The history of surgery for ruptured disc," in Dagi TF (ed.): *Neurosurgery clinics of North America*, 12(1):173-180, 2000.
7. **Patwardhan RV**, Tubbs RS, Killingsworth C, Rollins D, Smith W, Ideker R: Ninth cranial nerve stimulation for epilepsy control Part I: Efficacy in an animal model, *Pediatric Neurosurgery* 36(5):236-243, 2002.
8. Tubbs RS, **Patwardhan RV**, Oakes WJ: Ninth cranial nerve stimulation for epilepsy control Part II: Surgical feasibility in humans. *Pediatric Neurosurgery* 36(5):244-247, 2002.

9. Tubbs RS, **Patwardhan RV**, Palmer CA, Kelley DR, Elton S, Blount JP, Bebin M, Grabb PA: Histological appearance of a chronically stimulated vagus nerve in a pediatric patient. *Pediatric Neurosurgery* 35:99-102, 2001.

10. **Patwardhan RV**, Tubbs RS, Leonard RJ, Kelly D, Killingsworth CR, Rollins DL, Smith WM, Ideker RE, Oakes WJ: Discernment of adipose versus nervous tissue using a novel solvent: a potential application in lipomyelomeningoceles. *Pediatric Neurosurgery* 36(6):314-319, 2002.

11. Tubbs RS, **Patwardhan RV**, Wellons JC 3rd, Oakes WJ: Cortical representation of Hering's nerve: a possible anatomical pathway for seizure cessation following electrical stimulation. *Pediatric Neurosurgery* 37(5):235-239, 2002.

12. Tubbs RS, Wellons JC 3rd, **Patwardhan RV**, Oakes WJ, Wyss JM: The effectiveness of Hering's nerve stimulation in controlling penicillin-induced seizures in the rat is dependent on the amygdala. *Pediatric Neurosurgery* 37(5):231-234, 2002.

13. **Patwardhan RV**, Shorter C, Willis BK, Smith D, Caldito GC, Nanda A: Survival trends in elderly patients with glioblastoma multiforme: Resective surgery, radiation, and chemotherapy. *Surg Neurol.* 62(3):207-215, 2004.

14. Nanda A, Williams RG, Polin RS, Jawahar A, Acharya R, **Patwardhan RV**: Cervical spondylotic myelopathy. *Medlink*, 2003.

15. Weilbaecher C, **Patwardhan RV**, Nanda A: Sellar metastases: Three cases and review of the literature. *Neurology India* 52(3):365-368,2004.

16. Dubey A, **Patwardhan RV**, Sampath S, Santosh V, Kolluri S, Nanda A: Intracranial fungal granuloma: Analysis of 40 patients and review of the literature. *Surgical Neurology* 63(3):254-260,2005.

17. **Patwardhan RV**, Mathern G: Epilepsy surgery. *American Academy of Neurology (AAN) Continuum*, 2005.

18. **Patwardhan RV**, Nanda A: Implanted Ventricular Shunts: The billion-dollar-a-year cost of hydrocephalus treatment. *Neurosurgery* 56(1):139-145,2005.

19. **Patwardhan RV**: Concerns of the young neurosurgeon. Invited editorial comment, *Surg Neurol* 61(4):404-406,2004.

20. **Patwardhan RV**, Kelley R: Epilepsy imaging techniques in animal models: CT and MR. Invited Commentary. *Neuroscience Imaging*. 2005.

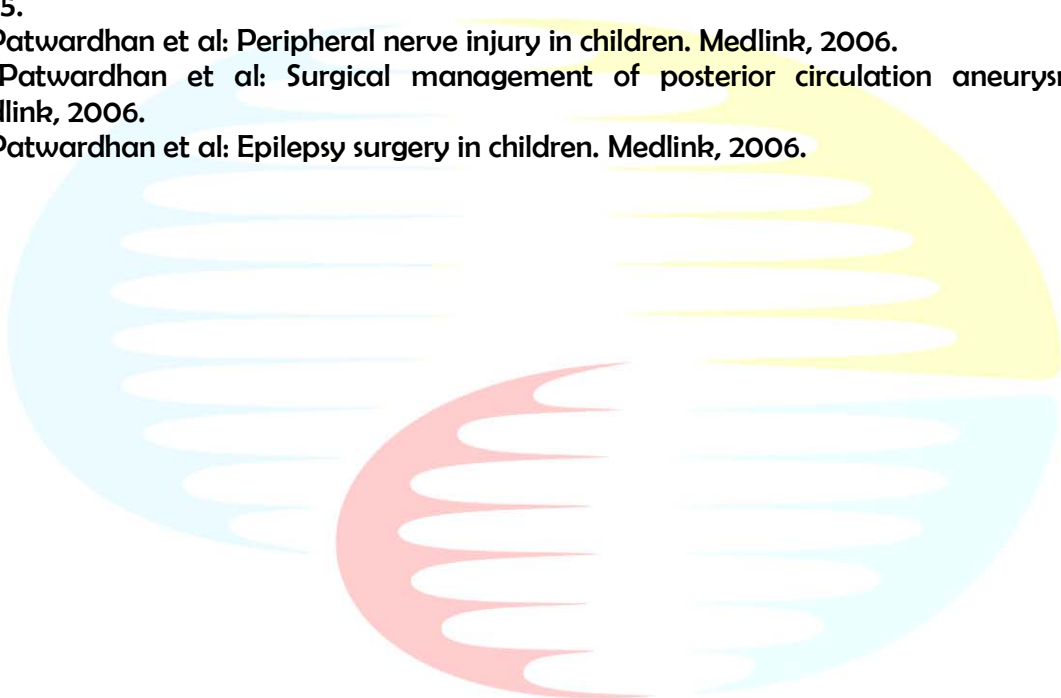
21. Nanda A, **Patwardhan RV**: Reviewer comment in response to Friedrich et al, "Reconstruction of sphenoid wing dysplasia in a case of neurofibromatosis type 1." *Skull Base* 13(4):216-217, 2003.

25. **Patwardhan RV**, Calvert JW, Besio W, Kusaka G, Kusaka I, Zhang J, Nanda A: Technical note: preliminary results in development of a novel intracisternal penicillin seizure model in the rat. *Front Biosci* 10:3009-3012, 2005.
26. **Patwardhan RV**, Besio W, Calvert JW, Kusaka G, Kusaka I, Zhang J, Nanda A: Electroconvulsive therapy for seizure control: preliminary data in a new seizure generation and control model. *Front Biosci* 10:3013-3019, 2005.
27. **Patwardhan RV**, Dellabadia J Jr, Rashidi M, Grier L, Nanda A: Control of refractory status epilepticus precipitated by anticonvulsant withdrawal using left vagus nerve stimulation: a case report. *Surg Neurol.* 64(2):170-173, 2005.
28. **Patwardhan RV**, Fowler M, Willis BK, Nanda A: Idiopathic primary pan intraventricular hemorrhage in a child. *Neurol India* 53(3):373-374, 2005.
29. Acharya R, **Patwardhan RV**, Smith DR, Willis BK, Fowler M, Nanda A: Intraspinal synovial cysts: a retrospective study. *Neurol India* 54(1):38-41, 2006.
30. **Patwardhan RV**, Minagar A, Kelley RE, Nanda A: Neurosurgical treatment of multiple sclerosis. 289(3):320-325, 2006.
31. Koka K, **Patwardhan R**, Besio W: Computer simulation and tank experimental verification of concentric ring electrodes. 3:2243-2246, 2004. *Conf Proc IEEE Eng Med Biol Soc.*
32. Nathan CO, Chakradeo V, Malhotra K, D'Agostino H, **Patwardhan R**: The voice-controlled robotic assist scope holder AESOP for the endoscopic approach to the sella. *Skull Base.* 16(3):123-131, 2006.
33. **Patwardhan R**, Cardenas R, Myers D, Ware P, Nanda A: Left vagus nerve stimulation for depression: first implantation case post-FDA approval and review of the literature. *J La State Med Soc.* 159(1):38-41, 2007.
34. Hunt K, **Patwardhan RV**: Trigeminal neuralgia: a modern day review. *Int Rev Neurobiol.* 79:621-631, 2007.
35. Crane L, **Patwardhan RV**: Neurosurgery and Stroke. Submitted for publication, *Neurological Research*, 2007.

Additional Contributions (updates to Medlink, expanding on previous clinical summaries to update these – electronically published, with multiple authors, order unspecified below):

1. Patwardhan et al: Contemporary issues in spinal cord injury management. *Medlink*, 2006.

2. Patwardhan RV, Nanda A: Cervical spondylotic myelopathy. Medlink, 2005.
3. Patwardhan RV, Baskaya M, Vannemreddy P, Nanda A: Neurovascular trauma. Medlink, 2005.
4. Patwardhan RV, Acharya R, Nanda A: Brachial plexus injuries. Medlink, 2005.
5. Patwardhan et al: Transcranial Doppler applications to neurosurgery. Medlink, 2006.
6. Patwardhan et al: Thoracolumbar spine stabilization procedures. Medlink, 2006.
7. Patwardhan et al: Pathophysiology of closed head injury. Medlink, 2006.
8. Patwardhan et al: Surgery for hemispheric gliomas. Medlink, 2006.
9. Patwardhan et al: Surgery for meningiomas. Medlink, 2006.
10. Patwardhan et al: Neurosurgical management of neuropathic pain. Medlink, 2005.
11. Patwardhan et al: Multimodality monitoring of the neurosurgery patient. Medlink, 2005.
12. Patwardhan et al: Peripheral nerve injury in children. Medlink, 2006.
13. Patwardhan et al: Surgical management of posterior circulation aneurysms. Medlink, 2006.
14. Patwardhan et al: Epilepsy surgery in children. Medlink, 2006.



The
COMPREHENSIVE NEUROSURGERY
n • e • t • w • o • r • k
LLC

Novel Procedures

First in the world: successful "nerve rerouting for bladder function restoration seven years after a gunshot wound to the spine" in collaboration with Dr. Chuan-Guo Xiao from China.

First in North America: "awake laser ablation of brain tumor" in conjunction with Visualase from Houston, Texas.

Inventions; Patents & Grand Rounds; Other Presentations

Inventions

Devices

March, 1996

Microtriad Device
Division of Neurosurgery/Division of Mechanical,
Aerospace, & Nuclear Engineering
U.C.L.A.
Jet Propulsion Laboratory
Los Angeles, California

"A seizure defibrillator"
[In conjunction with Dr. Walter Besio, Louisiana Tech]
Department of Neurosurgery
Louisiana State University, Shreveport
Shreveport, Louisiana

April, 2002

Techniques/Methods

September, 1999

"Ninth cranial nerve stimulation for epilepsy control"
Departments of Cardiology and Surgery (Neurosurgery)
University of Alabama, Birmingham

Patents

(1) "A neurological probe with macro- and microelectrodes and microdialysis catheter with same."

Patwardhan RV, Li W, Hong W, Behnke E, Ho C-M, Wilson C.
Provisional patent filed 1996
University of California,
Los Angeles, California

(2) "Carotid sinus nerve stimulation for epilepsy control."

Patwardhan RV, Tubbs RS
Provisional patent filed 2000
University of Alabama, Birmingham
Birmingham, Alabama

(3) "A device for brain stimulation for epilepsy control"

Patwardhan RV, Besio WG
Provisional patent filed October 2003; Final patent pending, 2004
Shreveport, Louisiana

Patents continued

(4) "Countersunk Anterior Pedicle Screw Instrumentation System" (CAPSID)
Patwardhan RV, Karim AS, Smith DR, Nanda A
Provisional patent filed December, 2004

(5) "A novel, simple device for accurate placement of intracranial objects"
Patwardhan RV
The Interactive Neuroscience Center, LLC -- Pending provisional patent filed 2007

Grand Rounds Presentations

(1) Department of Pediatrics Grand Rounds December 20, 1994
Martin Luther King, Jr./Drew Medical Center
"Hydrocephalus: Interface between pediatrics and neurosurgery"
Los Angeles, California

(2) Division of Neurosurgery Grand Rounds February 15, 1995
UCLA Medical Center, Center for the Health Sciences
"Cerebrovascular imaging including Spiral CT & MRA:
Development of the best diagnostic protocol"
Los Angeles, California

(3) Division of Plastic Surgery Grand Rounds May 16, 1997
University of Alabama Medical Center
"Therapeutic modalities for pain"
Birmingham, Alabama

(4) Neurology/Neurosurgery Grand Rounds 2001
University of Alabama Medical Center
"Brain stimulation and recording: The history of 4 techniques"
Birmingham, Alabama

(5) Neurosurgery Grand Rounds February, 2003
LSU-Shreveport Health Sciences Center
"Gamma knife radiosurgery: A comprehensive review."
Shreveport, Louisiana

(6) Neurosurgery Grand Rounds March, 2003
LSU-Shreveport Health Sciences Center
"Cervical spine injury treatment: Evidence-based medicine."
Shreveport, Louisiana

(7) Trauma (and separately Medical Intensive Care) April, 2004
Grand Rounds
LSU-Shreveport Health Sciences Center
"Traumatic Brain Injury: Evidence-based medicine"
Shreveport, Louisiana February,

Grand Rounds Presentations continued

(8) Neurology Grand Rounds
LSU-Shreveport Health Sciences Center
"Epilepsy Surgery"
Shreveport, Louisiana

March, 2004

Special Neurosurgical Topic Presentations

(1) UCLA Neuropsychiatric Institute
"Anxiolytic Capsulotomy. Current trends in neurosurgical treatment of the most common psychiatric disorders"
Los Angeles, California

October 25, 1994

(2) Department of Medicine
UCLA Medical Center, Center for the Health Sciences
"Pituitary adenomas: Diagnosis, clinical presentation, and treatment"
Los Angeles, California

June 15, 1995

(3) Department of Obstetrics & Gynecology
UCLA Medical Center, Center for the Health Sciences
"Neurological & Neurosurgical complications of pregnancy"
Los Angeles, California

August 24, 1995

(4) Department of Anesthesiology
Oliveview/UCLA Medical Center
"Intracranial pressure: Implications in anesthesiology"
Sylmar, California

September, 1995

(5) Department of Family Practice
UCLA Medical Center, Center for the Health Sciences
"Analysis of a headache"
Los Angeles, California
Department of Surgery

March 9, 1996

(6) Division of Trauma & Critical Care
UAB Medical Center, University Hospital
"Head Injury - A practical approach"
Los Angeles, California

March 9, 1996

(7) U.A.B. Division of Neurosurgery
Annual Galbraith Lecture Presentations
"Efficacy of vagal nerve stimulation in children with medically refractory epilepsy." Birmingham, Alabama

November, 1999

Special Neurosurgical Topic Presentations continued

(8) U.A.B. Division of Neurosurgery
Annual Galbraith Lecture Presentations
"Stimulation of Herring's nerve (cranial nerve IX) in
epilepsy control." Birmingham, Alabama

November, 1999

(9) U.A.B. Division of Neurosurgery
Annual Galbraith Lecture Presentations
"The role of diffusion-perfusion MRI in spinal cord injury:
Preliminary studies." Birmingham, Alabama

November, 1999

(10) U.A.B. Division of Neurosurgery
Annual Galbraith Lecture Presentations
"Lipomyelomeningoceles: Development of a novel solvent for
discerning adipose versus nervous tissue"
Birmingham, Alabama

November, 2000

(11) Neurosurgery Conference
UCLA Division of Neurosurgery
"Importance of cerebral grid mapping for para-eloquent region
resection: Case illustration in a cortical dysplasia patient"
Los Angeles, California

August, 2003

(12) Honors Thesis
Honors Thesis Presentation:
"Human cerebral hemodynamics following traumatic brain injury"
Dr. Neil A. Martin, Mentor
UCLA School of Medicine
Los Angeles, California

February, 1996

(13) Exhibits
UCLA History & Special Collections Division
Louise Darling Biomedical Library
"An introduction to contemporary Neurosurgery"
- by Ravish V. Patwardhan & Steven Ojemann
Los Angeles, California

March, 1996

(14) Invited Speaker
LAMMICO
"Brain & Spine Surgery: What's New & Legal Implications"
(Co-presented with Mrs. Rendi Wiggins, Attorney, PADWBC)
Point Clear, Alabama

August 9, 2007

(15) Guest Faculty
"Bladder Restoration and Nerve Rerouting Conference
(Sponsored by Beaumont Hospital)
Dearborn, Michigan

September 11-12, 2009

(16) Invited Speaker
Louisiana Tech University
"Brain & Spine Advances"
Ruston, Louisiana

October 15, 2009

(17) Invited Speaker
"The Journey: Novice Student to Neurosurgeon"
Surgery Interest Group
LSU Health Sciences Center
Shreveport, Louisiana

November 17, 2009

(18) Invited Speaker
Northwestern State University, College of Nursing
"Brain & Spine Advances"
Shreveport, Louisiana

November 19, 2009

(19) Invited Speaker
Louisiana State University – Alexandria, School of Nursing
"Brain & Spine Advances"
Alexandria, Louisiana

November 19, 2009

(20) Invited Speaker
Louisiana Society of Radiologic Technologists Mid-Winter Conference
"Brain & Spine Advances"
Shreveport, Louisiana

February 27, 2010

Books

"Brain Surgery in Real Life"
Written by Ravish V. Patwardhan
Illustrated by Steven Goldberg
E-published at <http://www.neurosurgery.ws/docs/96a7b2.pdf>

Honorary Address

Baccalaureate Address, Commencement 1996
Key Alumnus Speaker
John F. Kennedy High School (Alma Mater)
La Palma, California
June 8, 1996

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. Ammirati M, Ma J, **Patwardhan RV**, Cheatham M, Becker DP: Surgical strategies in lesions of the clivus, First European Skull Base Society Congress, 1993.
2. Ammirati M, Ma J, **Patwardhan RV**, Cheatham M, Becker DP: Comparison and evaluation of anterior skull base approaches: Development of a neurosurgical protocol. Joint Annual Meeting, North American & German Skull Base Societies, 1994.
3. **Patwardhan RV**, Martin NA, Hovda DA: Can TCD measurements be used to estimate cerebral blood flow? Neurotrauma Conference, 1994.
Abstract in: Journal of Neurotrauma, February, 1995.
4. Martin NA, Benalcazar HE, Alexandar M, **Patwardhan RV**, Zane C, Doberstein C, Hovda DA: Characterization of cerebral hemodynamic phases that follow severe head trauma (hypoperfusion, hyperemia, vasospasm, resolution). International Neurotrauma Symposium, 1995.
Abstract in: Journal of Neurotrauma, 12(3):432; June, 1995.
5. **Patwardhan RV**, Martin NA, Benalcazar HE, Hovda DA: Characterization of cerebral hemodynamic phases that follow mild-moderate head trauma (hypoperfusion, hyperemia, resolution). International Neurotrauma Symposium, 1995.
Abstract in: Journal of Neurotrauma, 12(3):490; June, 1995.
6. **Patwardhan RV**, Martin NA, Hovda DA: Can TCD measurements be used to estimate cerebral blood flow? International Neurotrauma Symposium, 1995.
Abstract in: Journal of Neurotrauma, 12(3):432; June, 1995.
7. Alsina GA, King W, **Patwardhan RV**, Martin NA: Combined transcranial Doppler and cerebral blood flow in aneurysmal subarachnoid hemorrhage and vasospasm. International Cerebral Blood Flow Conference, 1995.
8. Martin NA, Alexander M, **Patwardhan RV**, Zane C, Becker DP: The Cerebral Hemodynamic Phases in Head Injury. American Academy of Neurological Surgery, 1995.
9. Martin NA, **Patwardhan RV**: The relationship of outcome to post-traumatic cerebral hemodynamics: A prospective study. American Association of Neurological Surgeons Conference Annual Meeting, 1996.
10. **Patwardhan RV**, Martin NA: The effects of age on post-traumatic cerebral hemodynamics: A prospective study. . American Association of Neurological Surgeons, 1996.

11. Lee JH, **Patwardhan RV**, Martin NA: Associations with the presence of subarachnoid hemorrhage (SAH) on initial CT scans. The Institute of Applied Physiology and Medicine, 1996.
12. Glenn TC, **Patwardhan RV**, Martin NA: Age affects cerebral blood flow and outcome in adult head trauma patients. The Institute of Applied Physiology and Medicine, 1996.
13. Counelis GJ, **Patwardhan RV**, Martin NA: Association of early intracranial hypertension and cerebral blood flow. The Institute of Applied Physiology and Medicine, 1996.
14. **Patwardhan RV**, Lee JH, Martin NA: Physiologic predictors of outcome following traumatic brain injury. The Congress of Neurological Surgeons, 1996.
15. **Patwardhan RV**, Stong B, Bebin M, Mathisen J, Grabb PA: Vagal nerve stimulation in children with medically refractory epilepsy. The Congress of Neurological Surgeons, 2000.
16. **Patwardhan RV**, Tubbs RS, Killingsworth C, Rollins D, Smith W, Ideker R: Stimulation of Herring's nerve (cranial nerve IX) in epilepsy control. The Congress of Neurological Surgeons, 2000.
17. Tubbs RS, **Patwardhan RV**: Feasibility of Herring's nerve stimulation in humans: An anatomic study. The Congress of Neurological Surgeons, 2000.
18. **Patwardhan RV**, Tubbs RS, Leonard RJ, Kelly D, Killingsworth CR, Rollins DL, Smith WM, Ideker RE, Oakes WJ: Discernment of adipose versus nervous tissue using a novel solvent: a potential application in lipomyelomeningoceles. American Association of Neurological Surgeons/Congress of Neurological Surgeons Section on Pediatric Neurological Surgery Annual Meeting, 2001.
19. Acharya R, **Patwardhan RV**, Smith DR, Willis BK, Fowler M, Nanda A: Intraspinal synovial cysts: A nine year experience. Congress of Neurological Surgeons, Annual meeting, Philadelphia, Pennsylvania, 2002.
20. Jawahar A, **Patwardhan RV**, DeLaune A, Willis BK, Ampil F, Nanda A: Symptomatic Radiation Necrosis Following Whole Brain and Stereotactic Radiation: Total Dose, Volume, and Time Interval. American Association of Neurological Surgeons (AANS) Annual Meeting, San Diego, California, 2003.
21. Dubey A, **Patwardhan RV**, Sampath S, Santosh V, Kolluri S, Nanda A: Intracranial fungal granuloma: Analysis of 40 patients and review of the literature. Congress of Neurological Surgeons (CNS) Annual Meeting, Denver, Colorado, 2003.

22. **Patwardhan RV**, Calvert JW, Kusaka G, Kusaka I, Zhang J, Nanda A: Development of a novel, minimally invasive, quick-onset animal model of epilepsy. Congress of Neurological Surgeons (CNS) Annual Meeting, Denver, Colorado, 2003.
23. **Patwardhan RV**, Calvert JW, Kusaka G, Kusaka I, Zhang J, Nanda A: Can electroconvulsive therapy control a seizure by "pacing" it? Congress of Neurological Surgeons (CNS) Annual Meeting, Denver, Colorado, 2003.
24. **Patwardhan RV**, Shorter C, Willis BK, Smith DR, Caldito G, Reddy P, Nanda A: Survival trends in elderly patients with glioblastoma multiforme: Resective surgery, radiation, and chemotherapy. Congress of Neurological Surgeons (CNS) Annual Meeting, Denver, Colorado, 2003.
25. **Patwardhan RV**, Nanda A: Economics, neurosurgical intervention, and disposition in patients suffering primary hypertensive intracerebral hemorrhage. AANS Annual Meeting, Orlando, Florida, 2004.
26. **Patwardhan RV**, Nanda A: Do race, socioeconomic status, and type of hospital improve inpatient mortality in patients suffering primary hypertensive intracerebral hemorrhage? AANS Annual Meeting, Orlando, Florida, 2004.
27. **Patwardhan RV**, Nanda A: Stereotactic radiosurgery vs. open neurosurgical decompression for trigeminal neuralgia: Economic cost, length of stay, and discharge disposition. AANS Annual Meeting, Orlando, Florida, 2004.
28. **Patwardhan RV**, Nanda A: Unruptured intracranial aneurysms: Referral source, treating institution, cost provider, inpatient mortality, and disposition. AANS Annual Meeting, Orlando, Florida, 2004.
29. **Patwardhan RV**, Caldito G, Nanda A: Intracranial Benign Cranial Nerve Tumors: Referral Source, Treating Institution, Type of Treatment, Cost Provider, and Disposition. AANS Annual Meeting, Orlando, Florida, 2004.
30. **Patwardhan RV**, Caldito G, Nanda A: Stereotactic Radiosurgery: Referral sources, treating institution types, diagnoses treated, and disposition. AANS Annual Meeting, Orlando, Florida, 2004.
31. **Patwardhan RV**, Nanda A: Socioeconomics of stereotactic radiosurgery: Characterization of costs, cost providers, socioeconomic status, and race. AANS Annual Meeting, Orlando, Florida, 2004.
32. **Patwardhan RV**, Nanda A: Implanted brain stimulators: Referral sources, treating institution types, diagnoses treated, and disposition. AANS Annual Meeting, Orlando, Florida, 2004.

33. **Patwardhan RV**, Nanda A: Socioeconomics of implanted brain stimulators: Characterization of costs, cost providers, socioeconomic status, and race. AANS Annual Meeting, Orlando, Florida, 2004.
34. **Patwardhan RV**, Nanda A: Peripheral stimulators for epilepsy: Referral sources, treating institution types, cost providers, socioeconomic factors, and disposition. AANS Annual Meeting, Orlando, Florida, 2004.
35. **Patwardhan RV**, Nanda A: Implanted Ventricular Shunts: The Billion-Dollar-a-Year Problem. AANS Annual Meeting, Orlando, Florida, 2004.
36. **Patwardhan RV**, Behnke EJ, Krahl S, DeSalles AAF: "Off-target measurements in deep-brain stimulation: How much off-target and why?" AANS Meeting, Orlando, Florida, 2004.
37. **Patwardhan RV**, Calvert JW, Kusaka G, Kusaka K, Besio W, Zhang J, Nanda A: Novel modelling and treatment of status epilepticus. Louisiana State Neurosurgical Society, 2004.
38. **Patwardhan RV**, Nanda A: Novel modelling and treatment of status epilepticus. Louisiana State Neurosurgical Society, 2004.
39. Nanda A, **Patwardhan RV**: The far lateral skull base approach: The LSU-Shreveport experience. Louisiana State Neurosurgical Society, 2004.
40. **Patwardhan RV**, Nanda A: Utilization of older vs. newer neurosurgical treatments: The impact on socioeconomic status and race. CNS Annual Meeting, San Francisco, California, 2004
41. Weilbaecher C, **Patwardhan RV**, Nanda A: Pleuro-spinal fistulae recognition, treatment, and prognosis: Presentation of two cases. Louisiana Association of Neurological Surgery (LANS) Annual Meeting, 2005.
42. **Patwardhan RV**, Dellabadia J, Glabus M, Gonzalez-Toledo E, Pinkston J, D'Agostino H, Rao A: Functional imaging/electrostimulation for neurosurgical treatment: Illustration via three cases. Louisiana Association of Neurological Surgery (LANS) Annual Meeting, 2005.

AWARDS

NCAA All-Conference Academic & Athletic Award California Collegiate Athletic Association	1991
Alpha Omega Alpha Research Fellowship UCLA School of Medicine National Nominee	1995
AANS Best Poster at Meeting Stereotactic Section, E-poster "Stereotactic radiosurgery vs. open neurosurgical decompression for trigeminal neuralgia: Economic cost, length of stay, and discharge disposition." Orlando, Florida	May 1, 2004
AANS Best Poster at Meeting General Section, E-poster "Economics, neurosurgical intervention, and disposition in patients suffering primary hypertensive intracerebral hemorrhage." Orlando, Florida	May 1, 2004
Cone Pevehouse, MD Award AANS -- Best abstract submitted by a Resident: "Do Race, Socioeconomic Status and Type of Hospital Improve Inpatient Mortality in Patients Suffering Primary Hypertensive Intracerebral Hemorrhage?" Orlando, Florida	May, 2004
Outstanding Young Alumnus Award University of California, Riverside	2006
Northwest Louisiana Young Professional of the Year Greater Shreveport Chamber of Commerce	2007
Small Business of the Year Greater Shreveport Chamber of Commerce LLC	2009

OTHER CONTRIBUTIONS TO JURIED OR REFERRED PUBLICATIONS

Reviewer, Radiology Diagnostico
Reviewer, Surgical Neurology
Reviewer, Clinical Anatomy
Reviewer, IEEE

GRANTS & CONTRACTS FUNDED

Center for NMR Research and Development

"Assessment of spinal cord perfusion using diffusion-perfusion MRI" (\$10,000)
University of Alabama at Birmingham, Birmingham, Alabama 2001

Dean Echols Award for Best Scientific Paper presented by a Resident

"Treatment of GBM in elderly patients: Surgery, Radiation, and Chemotherapy?"
(\$500)
Louisiana Neurosurgical Society
New Orleans, Louisiana
January, 2003

Medtronic Fellowship Grant in Functional Neurosurgery

(\$10,000) July, 2003

Also Wrote and submitted one NIH R01 grant in 10/2004, one NIH R03 in 10/2003, one NIH R21 in 10/2003, and a grant to the Michael J Fox Foundation for different topics, which were not funded.

Documentation of teaching activities: Please See Teacher's Portfolio Link

MAJOR AREAS OF RESEARCH INTEREST

- (1) Epilepsy Neurosurgery
Electrical brain stimulation for seizure control
- (2) Functional Neurosurgery
Brain mapping techniques for neurosurgical planning/function localization
- (3) Community outreach (and distant outreach via medical missions)
To empower local and distant populations by education regarding medicine

OTHER TRAINING

Greater Shreveport Leadership Program 2005-2006

LANO (Louisiana Association of Non-Profit Organizations) – presently enrolled, 2007

UNIVERSITY SERVICE

Graduate Medical Education Committee (GMEC)

2002-2003

LSU-Shreveport Health Sciences Center
Shreveport, Louisiana

Operating Room Committee LSU-Shreveport Health Sciences Center Shreveport, Louisiana	2003
Trauma Committee LSU-Shreveport Health Sciences Center Shreveport, Louisiana	2003
Clinical Board LSU-Shreveport Health Sciences Center Shreveport, Louisiana	2004

PUBLIC SERVICE

North Louisiana Epilepsy Support Group Invited speaker "Epilepsy surgery: Past, present, and future." Willis Knighton North Hospital, Shreveport, Louisiana	May, 2003
ThinkFIRST Invited Physician Speaker Shreveport Courthouse and local schools, Louisiana	February, 2004
Junior Achievement Volunteer 4 th Grade class: "Our Region" Central Elementary School, Shreveport, Louisiana	October, 2004
Member Leadership Shreveport Shreveport, Louisiana	2005
Co-Program Chair Young Professionals Formation Committee Chamber of Commerce, Shreveport, Louisiana	2006
Founder & President Re-Vitalize! Philanthropic Foundation Shreveport, Louisiana	2006 LLC
Board Member Greater Shreveport Chamber of Commerce Shreveport, Louisiana	2007
Vice-Chair of Membership & Marketing Greater Shreveport Chamber of Commerce Shreveport, Louisiana	2008

Board Member 2008
American Red Cross – Northwest Louisiana Region
Shreveport, Louisiana

Board Member 2008
Community Renewal International
Shreveport, Louisiana

Board Member 2008
Shreveport Symphony
Shreveport, Louisiana

Board Member 2008
Shreveport Opera
Shreveport, Louisiana

Board Member 2008
Shreveport Medical Society
Shreveport, Louisiana

Member 2008
The Committee of One Hundred
Shreveport, Louisiana

Member 2008
Business Exchange, Incorporated
Shreveport, Louisiana

Member 2008
**Leadership Louisiana
Council for A Better Louisiana (CABL)**
Shreveport, Louisiana

Member 2009
Clinton Global Initiative
New York City, NY

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MISCELLANEOUS

Acknowledgment in: Human Gross Anatomy
by Robert J. Leonard, Ph.D.
U.C. Riverside
Oxford 1995

Various Press Releases for article regarding vagus nerve stimulation in children, other articles (National Public Radio, WebMD, Medscape, ChuMD.com, Shreveport Times, et al.)

OTHER INTERESTS

Sport Activities and Other Interests

Private Pilot -- Single-engine propeller plane license

Scuba Diving -- Open Water PADI Certification

SCAQ/Masters Swimming

Skydiving -- AFF Solo

Various road running races, including NCAA National Championships, City of Los Angeles Xth Anniversary Marathon, and triathlon races

REFERENCES

Roy Griggs
President, Griggs Enterprises
Shreveport, Louisiana

Rod Masteller
Senior Pastor
Summer Grove Baptist Church
Shreveport, Louisiana

David Abdehou, M.D.
Internal Medicine
Shreveport, Louisiana

Mack McCarter
Coordinator,
Community Renewal International
Shreveport, Louisiana

David Cavanaugh, M.D.
Neurosurgeon,
The Spine Institute of Louisiana
Shreveport, Louisiana



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