

Anant I. Patel, MD

Education:

- 1995-1996 Ohio State University, Columbus, Ohio
Chief Resident, Department of Neurosurgery
- 1990-1995 Ohio State University, Columbus, Ohio
Resident, Department of Neurosurgery
- 1989-1990 Baptist Hospital, Bowman Gray, Wake Forest University
Winston-Salem, NC
Intern, Department of General Surgery
- 1985-1989 Bowman Gray, Wake Forest University, Winston-Salem, NC
Medical School, MD;
- 1980-1984 University of North Carolina at Greensboro, Greensboro, NC
B.A. Chemistry and Biology

Clinical Appointments:

- Present Neurosurgeon
Neurosurgery, Endovascular & Spine Center
- 2004-2005 Medical Director of Neurosurgery
Institute of Neurology and Neurosurgery
St David Medical Center, Austin, Texas

Licensure

- Texas
- Louisiana
- Ohio
- North Carolina

Grants and Awards

Medical School
Student Research Training Award in Anesthesiology
Sigma Xi Research Award
Medical Student Research Poster Award; First Place

College
Student Excellence Award
Magnum Cum Laude

Grants

“MRI Spectroscopy in Intraventricular Hemorrhage in the New Born Beagle Puppy”
General Electric Research Foundation

“Determinants of Canine Right Ventricular Infarction”
National Institute of Health; Student Research Fellowship

“Hypothermia and End-Expiratory Pressure in Canine Asymmetric Lung Disease.”
National Institute of Health; Student Research Fellowship

Professional Orgainzations

Congress of Neurological Surgeons
American Association of Neurological Surgeons
Sigma Xi Scientific Research Society
Louisiana State Medical Society
Travis Medical Society
Central Texas Neurological Society
National Registry of Who's Who

Teaching Appointments

2004-2005 Medical Director of Neurosurgery,
Institute of neurology and Neurosurgery
St. David's Medical Center, Austin, TX

1996 Chief Resident and Clinical House Instructor
Department of Neurosurgery, Riverside Methodist Hospital
Columbus, OH

1995 Chief Resident and Clinical House Instructor
Department of Neurosurgery, Ohio State University
Columbus, OH

1993-1994 Chief Resident and Clinical House Instructor
Department of Neurosurgery, Grant Medical Center
Columbus, OH

1993-1994 Senior Resident and Clinical House Instructor
Department of Neurosurgery, Children's Medical Center
Columbus, OH

1993 Senior Resident and Clinical House Instructor
Department of Neurosurgery, Children's Medical Center
Columbus, OH

1992 Senior Resident and Clinical House Instructor
Department of Neurosurgery, Grant Medical Center
Columbus, OH

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St David's HealthCare

- 1992 Chief Resident and Clinical House Instructor
Department of Neurosurgery, Children's Medical Center
Columbus, OH
- 1991 Senior Resident and Clinical House Instructor
Department of Neurosurgery, Ohio State University
Columbus, OH
- 1991 Resident and Clinical Instructor
Department of Neurosurgery, Children's Medical Center
Columbus, OH
- 1990 Resident and Clinical House Instructor
Department of Neurosurgery, Ohio State University
Columbus, OH

Research

- 1993-1994 Research Assistant
Projects: "*Role of Nitric Oxide in cerebral ischemia*"
MRI Spectroscopy in Intraventricular hemorrhage
Department of Neurosurgery
Children's Medical Center, Columbus, OH
- 1988 Research Assistant
Projects: "*Determinants of Canine Right Ventricular Infarction*"
Department of Anesthesia
Bowman Gray, Wake Forest University, Austin, TX
- 1986 Research Assistant
Projects: "*Hypothermia and End-Expiratory Pressure in Canine Asymmetric Lung*"
Department of Anesthesia
Bowman Gray, Wake Forest University, Austin, TX
- 1983 Research Assistant
Department of Chemistry
Project: "*Organometallic Chemistry*"
University of North Carolina, Greensboro, NC

Lectures, Exhibits and Films

"*Role of Deep Brain Stimulation in Parkinson Disease*" Central Texas Parkinson's Society. Austin, Texas; May 2006.

"*Gamma Knife Radiosurgery: A New Treatment Options for Brain Tumor*". Lions Rotary Club. Austin, Texas. Feb 2006

"*Management of Ankylosis Spondylosis (Bamboo Spine)*" The Third Annual St David's

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StDavid's HealthCare

Neuroscience Conference. September 2004

"Management of Spinal Injuries", Central Texas Nursing Forum. Central Texas Medical Center, San Marcos, May 2003.

"Advances in the Management of Head Injury", ICU Nursing Forum, Brackenridge Hospital. Austin, TX 2000

"Management of Closed Injury", Nursing Forum, McNeese University, Lake Charles, LA. 1997

"Role of Pentobarbital and Hypothermia in Severe Closed Head Injury"
Nursing Forum, LCMH, Lake Charles, LA. 1997

"An Alternative Perspective to PLIF using RAY cages", Channel 3 Health Watch, Lake Charles, LA. April 1997

"Role of eNOS in Subarachnoid hemorrhage". Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus, OH. May 1996.

"Treatment of Spinal Ependymoma", Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus OH. April 1996

"Management of Colloid Cyst", Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus OH. March 1996

"Epidermoid and Dermoid Tumors", Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus OH. March 1996

"Classification and treatment of Meningioma", Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus OH. February 1996

"Phakomatoses (Neurocutaneous Disorder)", Neurology/ Neurosurgery Grand Round. Riverside Hospital, Columbus OH. February 1996

"Current concepts in the management of intramedullary spinal cord tumors", Neurology/ Neurosurgery Grand Round. Ohio State University, Columbus OH. November 1995

"Current Concepts in the management of Moya Moya", Neurology/ Neurosurgery Grand Round. Ohio State University, Columbus OH. September 1995

"Management of Pituitary Tumors". Neurology/ Neurosurgery Grand Round. Ohio State University, Columbus OH. September 1995.

"Spinal Epidural metastasis" Neurology/ Neurosurgery Grand Round. Ohio State University, Columbus OH. August 1995

"Choroid Plexus Tumors", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. June 1992

"Pineal Region Tumors", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. May 1992

"*Management of Posterior Fossa Tumor in Children*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. April 1992

"*Classification and management of Arnold Chiari Malformation*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. March 1992

"*Diastematomyelia*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. March 1992.

"*Moya Moya Disease*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. February 1992

"*Treatment of Subdural Empyema*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. February 1992

"*Arachnoid Cysts*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. January 1992

"*Management of Craniopharyngioma*", Neurology/ Neurosurgery Grand Round. Children's Hospital, Columbus OH. January 1992.

"*Classification and Management of Arteriovenous Malformation (AVM)*", Neurology/ Neurosurgery Grand Round. Ohio State University Hospitals, Columbus OH. September 1991.

"*Management of Intracranial Hypertensive Hemorrhage in Pregnancy*", Neurology/ Neurosurgery Grand Round. Ohio State University Hospitals, Columbus OH.

International and National Conferences

Kim SH, Patel AI, Bertelson JA, Ellington KT, Kaji-Wyllie M, Hall G, Qureshi AI: "*TAXUS Express (2) Stent for Treatment of Symptomatic Positional C4-5 Cervical Vertebral Artery Occlusion due to Spondylitic Spur.*" Ninth Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology in Orlando, Florida, February 17-20, 2006.

Kim SH, Patel AI, Ellington KT, Kaji-Wyllie M, Qureshi AI: "*Intracranial Angioplasty in a Young Adult with Graves' Disease and Moya Moya Disease.*" Eight Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology in New Orleans, Louisiana, February 1-4, 2005.

Patel AI, Betts WB. "*Treatment of Multiseptated Syrinx.*" World Congress of Neurological Surgeons, Sydney, Australia. September 14, 2001

Patel AI, Betts WB. "*Endoscopic approach to the management of Syringomyelia.*" Hydrocephalus 2000, Sydney, Australia. March 2000

Bartkowski HM, Patel AI, Wright R. "*Selective Inhibition of Nitric Oxide Synthase isoform in irreversible Cerebral Ischemia.*" Tenth International Brain Edema Symposium #56, 1996

Bartkowski HM, Patel AI, Wright R. *"Selective Inhibition of Nitric Oxide Synthase Isoenzymes in Irreversible Cerebral Ischemia"*. Fifth International Conference on Nitric Oxide, #8, 1996

Bartkowski, HM, Patel AI, Wright R. *"Our Experience with Nitric Oxide Synthase in Acute Cerebral Ischemia in the Rodent."* Children's Hospital Research Symposium, 1995

Patel AI, Bartkowski HM, Robin K. *"Role of Nitric Oxide in an Irreversible Acute Middle Cerebral Artery Ischemia in the Rat Model"*, American Association of Neurological Surgeon 63rd Annual Meeting, 1995.

Patel AI, Bartkowski HM. *"Role of Nitric Oxide in Focal Cerebral Ischemia"* Ohio State Neurological Society. Mohican State Lodge, Ohio.

Patel AI, Bartkowski HM. *"Role of Nitric Oxide in Subarachnoid Hemorrhage"* Hunt Lectureship, Columbus Ohio.

Patel AI, Bartkowski HM. *"Role of Nitric Oxide in Cerebral Ischemia"*, Children's Hospital Research Forum, Columbus Ohio.

Patel AI, Bartkowski HM. *"Inhibition of Nitric Oxide in Irreversible Acute Cerebral Ischemia in the Rat Model"*, Children's Hospital Research Forum, Columbus Ohio.

Patel AI, Qualman SJ, Bartkowski HM. *"Cranial fasciitis of Childhood: Biological Potential for Recurrence"* American Association of Neurological Surgeon, 62nd Annual Meeting 1994.

Patel AI, Bartkowski HM, Wright R. *"Effects of Nitric Oxide in Focal Cerebral Ischemia"* Ohio State Neurosurgical Society Annual Meeting, #10, 1994

Koman LA, Toby EB, Patel AI. *"Magnetic Resonance Imaging of the Wrist and Hand"*, Piedmont Orthopedic Society, Pebble Beech, CA

Koman LA, Toby EB, Patel AI. *"Diagnostic Magnetic Resonance Imaging of the Wrist and Hand"*, Hand Forum, Dear Valley, Utah.

Patel AI, Johnston WE, Viten-Johansen J. *"Time Dependence of Acute Myocardial Infarction in Canine Right Ventricle"* National Institute of Health Centennial, Durham, North Carolina.

Johnston WE, Viten-Johansen J, Patel AI. *"Time Dependence of Acute Myocardial Infarction in Canine Right Ventricle"*, Scientific Conference on Myocardial Ischemia and Reperfusion, Durango, Colorado.

Johnston WE, Viten-Johansen J, Patel AI. *"Overlapping Vessels Significantly protect Canine Right Ventricular Infarction"*, Scientific Conference on Myocardial Ischemia and Reperfusion, Durango, Colorado.

Johnston WE, Viten-Johansen J, Patel AI. *"Time Dependence of Acute Myocardial Infarction in Canine Right Ventricle"*, Society of Cardiovascular Anesthesiologist 9th Annual Meeting.

Johnston WE, Viten-Johansen J, Patel AI. "*Ligation of Overlapping Vessels in Canine Right Ventricle Increases Area of Necrosis*", Society of Cardiovascular Anesthesiologist 9th Annual Meeting.

Patel AI, Johnston WE, Viten-Johansen J. "*Acute Myocardial Infarction in the Canine Right Ventricle*", Sigma Xi Chapter of Wake Forest University.

Nile TA, Patel AI, Adams KP, Reid CD. "*The Use of Isocyanide Complexes of Chromium, Molybdenum, and Tungsten Carbonyls as Catalysts*", Royal Society of Chemistry: International Symposium Chromium, Molybdenum, and Tungsten. Sussex, UK.

Nile TA, Patel AI, Walter M. "*Synthesis of Chiral Phosphine Ligand*", American Chemistry Society; 34th Southern Regional Meeting. Birmingham, Alabama.

Journal Articles

Bartkowski HM, Patel AI, Wright R, Wang A. "*The Efficacy of Nitric Oxide Synthase Inhibition at Selective Intervals of Acute Focal Cerebral Ischemia in Rodent*." (Submitted J Cereb Bloods Flow Metab)

Bartkowski HM, Patel AI, Wright R. "*Selective Nitric Oxide Synthase Inhibition and Stimulation in Acute Cerebral Ischemia in the Rat*" (Submitted J Neurosurgery)

Patel AI, Crowe NW, Tesh PE, Evans GW, McKinney WM. "*Real-time Ultrasonographic Correlation between Carotid Artery Diameter and Artherosclerotic Plaque Thickness*." (Submitted to Stroke)

Johnston WE, Viten-Johansen J, Patel AI, Tommassi E. "*Hypoxic Pulmonary Vasoconstrictor Response with Asymmetric Oleic Acid Injury in the Dog*." Critical Care Med.

Johnston WE, Viten-Johansen J, Patel AI, Santamore WP. "*Right Ventricular Free Wall Ischemia: Correlation of Ischemic Duration with extent of infarction in Dogs*". Ann. Thor. Surg.

Johnston WE, Viten-Johansen J, Patel AI, Santamore WP. "*Do Overlapping Vessels Protect against Right Ventricular infarction after Right Coronary Artery Occlusion?*" Cardiovascular Research.

Adams KP, Joyce JA, Nile TA, Patel AI, Reid CD, Walters JM. "*The Catalytic Activity of Transition Metal Complexes of Sterically Hindered Isocyanides*." J Molecular Catalysis, 1985; 29; 201-208.

Abstracts

Patel AI, Betts WB. "*Treatment of Multiseptated Syrinx*." World Congress of Neurological Surgeons (WCNS), Sydney, Australia. 2001

Patel AI, Betts WB. "*Endoscopic approach to the management of Syringomyelia*." Hydrocephalus 2000, Sydney, Australia. 2000

Bartkowski HM, Patel AI, Wright R. "*Selective Inhibition of Nitric Oxide Synthase isoform in irreversible Cerebral Ischemia.*" Tenth International Brain Edema Symposium #56, 1996

Bartkowski HM, Patel AI, Wright R. "*Selective Inhibition of Nitric Oxide Synthase Isoenzymes in Irreversible Cerebral Ischemia.*" Fifth International Conference on Nitric Oxide, #8, 1996

Patel AI, Bartkowski HM, Robin K. "*Role of Nitric Oxide in an Irreversible Acute Middle Cerebral Artery Ischemia in the Rat Model.*" AANS #382, 1995.

Patel AI, Qualman SJ, Bartkowski HM. "*Cranial fasciitis of Childhood: Biological Potential for Recurrence.*" AANS 1994.

Bartkowski HM, Patel AI, Wright R, Wang A. "*The Efficacy of Nitric Oxide Synthase Inhibition in Acute Cerebral Ischemia in the Rat*", Second International Symposium on Ischemic Stroke, #001, Tokyo, Japan. 1993

Bartkowski HM, Patel AI, Wright R. "*Inhibition of Nitric Oxide Synthase in Irreversible Acute Cerebral Ischemia*", International Society of Brain Edema, Biannual Meeting, #373, Tokyo, Japan. 1993

Patel AI, Kutan R, Wang A, Kosnik E, Bartkowski HM. "*Inhibition of Nitric Oxide Synthesis in Irreversible Acute Cerebral Ischemia in the Rat Model*", American Association of Neurological Surgeons 61st Annual Meeting #1035, Boston, MA 1993.

Bartkowski, HM, Patel AI, Wright R. "*Nitric Oxide Synthase Inhibition in Acute Cerebral Ischemia*", SMRM Annual Meeting, #1024. 1992