



Ketan Ramanlal Bulsara M.D.

Email: ketan.bulsara@yale.edu

Travel: Born in Mumbai, India
Immigrated to the United States in 1983 from Zambia, Africa
Naturalized citizen of the United States (1991)

Language ability: Gujarati, Hindi, French, Latin

Board Certification: American Board of Neurological Surgery

Medical Licenses: Connecticut, North Carolina, Arkansas, Missouri

Education

July 30th 2007-present Assistant Professor of Neurosurgery
Neurovascular Program
Director of Neuroendovascular and Skull Base Surgery
Yale Department of Neurosurgery

February 2006- June 2007 Clinical Associate
Duke Neurovascular Program-Endovascular Neurosurgery Fellowship
Duke Department of Radiology

2004-January 2006 Assistant Professor, University of Missouri-Columbia
Associate in Neuro-Oncology
Director of Skull Base and Cerebrovascular Surgery
Director of Walter Dandy Neurosurgical Intensive Care Unit

2003-2004 Skull Base/Cerebrovascular Fellowship
(under the guidance of Dr. Al-Mefty)
Co-faculty: Professor Yasargil and Dr. Ali Krisht
University of Arkansas Medical Sciences
Little Rock, Arkansas

1996-2003 Internship, General Surgery (David Sabiston Jr. M.D./Robert Anderson
Residency, Neurological Surgery (Allan H. Friedman M.D./Robert H.
Wilkins M.D.)
Duke University Medical Center
Durham, North Carolina

05/01-06/01 Transoral Approach Fellowship (Arnold Menezes M.D.)

University of Iowa
Iowa City, Iowa

1992-1996 Doctor of Medicine with Honors
Duke University School of Medicine
Durham, North Carolina

1988-1992 Magna Cum Laude with Honors in Biology
concentration in Neuroscience
Davidson College
Davidson, North Carolina

1986-1988 Class Salutatorian (age 16)
West Charlotte High School
Charlotte, North Carolina

Academic Honors and Awards

- 2009 Recognized as one of America's Top Surgeons; Consumer Research
Group of America
- 2008 AcademicKeys Who's Who in Higher Medical Education
- 2007 Augustus McCravey Award; Southern Neurosurgical Association; Senior
Author
- 2007 Recognized as one of America's Top Surgeons; Consumer Research
Group of America
- 2006 Cordis Neurovascular Fellowship
- 2006 Marquis Who's Who in American Healthcare and Medicine
- 2005 Service Quality Hero Recognition for patient care. University of Missouri-
Columbia.
- 2005 Recognized as one of America's Top Physicians; Consumer Research
Group of America
- 2002 Mayfield Award in Clinical Science
American Association of Neurological Surgeons/Congress of
Neurological Surgeons
- 2001 Mayfield Award in Basic Science Research
American Association of Neurological Surgeons/Congress of
Neurological Surgeons
- Synthes Award Brain and Craniofacial Trauma
American Association of Neurological Surgeons/Congress of

Neurological Surgeons

Shulman Resident Award
American Association of Neurological Surgeons/Congress of
Neurological Surgeons

Traveling Fellowship in Neurosurgery
American Association of Neurological Surgeons/Congress of
Neurological Surgeons

2000 Invited Neuroscience Lecturer
Davidson College
Davidson, North Carolina

1996 Special Recognition Society for Neuroscience
San Diego, California

International Neurosurgery Grant
Dr. Takanori Fukushima

Alpha Omega Alpha
Duke University School of Medicine

Ideal Physician Award
Selected by the graduating class of 1996
Duke University School of Medicine

1995 Duke School of Medicine Award
Selected by medical school deans
Duke University School of Medicine

1994 Howard Hughes Medical Institute Fellowship
Duke University School of Medicine

1993 Senior Merit Scholarship
Duke University School of Medicine

1992 Honors in all basic clinical clerkships (Surgery, Neurology, Internal
Medicine, Obstetrics and Gynecology, Family Medicine, Pediatrics,
Psychiatry)
Duke University School of Medicine

Duke Medical School Endowment Scholarship
Southern Medical Association Scholarship
Duke University School of Medicine

1991 All American Scholar
Davidson College

Class Superlative (selected by graduating class)
Davidson College

1990

Phi Beta Kappa
President Alpha Epsilon Delta (pre-medical Honor Society)
State of North Carolina Recognition for Academic Accomplishments
Davidson College

Carnegie Mellon Fellowship
Mentor: Rohan Ganguli M.D.
University of Pittsburgh

Dana Foundation Research Grant
Mentors: Julio J. Ramirez Ph.D. and John H. Williamson Ph.D.

Who's Who in American Colleges and Universities
Davidson College

1988

National Robert C. Byrd Honors Scholar
West Charlotte High School

Presidential Academic Fitness Award
West Charlotte High School

"I Dare You" Leadership Award
West Charlotte High School

Charlotte Observer All-Star Scholar
West Charlotte High School

Youth Merit Award
West Charlotte High School

Coach's Award for Tennis
West Charlotte High School

Class Superlative (Selected by peers)
West Charlotte High School

Research and Teaching Experience

December 2007-
present

Director of Cerebrovascular Microanastomosis and Skull Base Laboratory
Yale Department of Neurosurgery

- 2004-January 2006 Director of Cerebrovascular Microanastomosis and Skull Base Laboratory
University of Missouri-Columbia, Division of Neurosurgery
- 2000-2003 Resident Director
Skull Base and Microsurgical Laboratory
Duke University Medical Center
Advisor: Allan H. Friedman, M.D. and Takanori Fukushima, M.D.
- 1999-present Laboratory Research
Gene Therapy for Central Nervous System Injury
Advisors: J.H. Pate Skene Ph.D.
- 1994-1995 Laboratory Research
Intracellular Electrophysiological and Anatomical characteristics of
Dentate Granule
Advisor: Dennis Turner, M.D.
- 1991-1992 Laboratory Research
Mechanism to Accelerate Hippocampal Sprouting following Entorhinal
Cortex Lesions
Advisor: Julio J. Ramirez, Ph.D.
- Clinical Research
Autoimmunity in Schizophrenia
Advisor: Rohan Ganguli, Ph.D.
- 1990 Laboratory Research
Anatomical Study of the Connections of the Olfactory system
Advisor: David Coppola, Ph.D.
- 1989 Clinical Research
Charlotte Health Department Research Assistant
Independent epidemiology research on *Pseudomonas aeruginosa*
Advisor: John H. Williamson, Ph.D.

Abstracts/Presentations

1. Bulsara KR. Aneurysm Treatment Modality and Outcome of Oculomotor Nerve Palsy. 3rd International Neurosurgical Winter Congress/AANS meeting, March 24th, 2009, Utah.
2. Bulsara KR, Hoh B.; Rosen C.; Tanikawa R., Carpenter J.. Predicting need for Coil Extraction During Microsurgery: The Clip-Coil Ratio. 3rd International Neurosurgical Winter Congress/AANS meeting, March 24th, 2009, Utah.
3. Bulsara KR. & Arambepola, P.. De Novo Aneurysm Formation following Carotid Occlusion. 3rd International Neurosurgical Winter Congress/AANS meeting, March 26th, 2009, Utah.
4. Diluna M. & Bulsara KR. Sphenopetroclival Meningiomas: A Comprehensive Review in the Skull Base Surgery Era. 3rd International Neurosurgical Winter Congress/AANS meeting, March 28th, 2009, Utah.

5. Bulsara KR. Optimal management of third nerve palsies and cerebral aneurysms in the Microsurgical/Endovascular Era. 1st Biennial International Fukushima Aneurysm Workshop. Sarasota, Florida, November 15th 2008.
6. Nonaka Y, Bulsara KR, Friedman A, Fukushima T. Skull Base Cerebral Bypass Surgery in 110 patients: Lessons Learnt over two Decades. 1st Biennial International Fukushima Aneurysm Workshop. Sarasota, Florida, November 15th 2008.
7. Sphenopetroclival Meningiomas: Review of Outcomes in the Skull Base Surgery Era. 5th International Congress of the World Federation of Skull Base Societies and 19th Annual Meeting of the North American Skull Base Society. September 12th, 2008.
8. Yoichi, Friedman AH, **Bulsara KR**, Fukushima T.. Cerebral Bypass Surgery: Lessons from two Decades. Rome Skull Base and Cerebrovascular Workshop in conjunction with The Italian Neurosurgical Society, June 2008.
9. Alexander MJ, **Bulsara KR**, Zomorodi A. Embolization of Wide-Neck Aneurysms: Does Stent Assistance Really Help: 368 Aneurysms with Delayed Angiographic Follow-up. American Association of Neurological Surgeons, April 2008.
10. Alexander MJ, **Bulsara KR**, Zomorodi A. Experience in the endovascular management of giant aneurysms. Congress of Neurological Surgeons, September 2007.
11. Zomorodi A, **Bulsara KR**, Alexander MJ. Increased rate of in-stent stenosis in diabetic smokers. ASITN, 2007.
12. **Bulsara KR**, Tolbert M, Alexander MJ. Endovascular Management of 76 Middle Cerebral Artery Aneurysms. Congress of Neurological Surgeons, October 2006.
13. **Bulsara KR**, Tolbert M, Alexander MJ. Endovascular Management of Aneurysms less than 3mm in size. Congress of Neurological Surgeons. October 2006.
14. **Bulsara KR**, Leveque JC, Gray L, Fukushima T, Friedman AH, Villavicencio AT. Relationship of the Arcuate Eminence to the Superior Semicircular Canal. AANS Meeting, April 2006.
15. **Bulsara KR**, Galvan G, Jackson D. Third Nerve Palsy Recovery following Microvascular Clip Ligation versus Endovascular Coiling of Intracranial Aneurysms. AANS/CNS Section for Cerebrovascular Surgery, February 2006.
16. **Bulsara KR**, Vasudevan R, Erdem E. The Superior Ophthalmic Approach to the Cavernous Sinus Revisited. AANS/CNS Section for Cerebrovascular Surgery, February 2005.
17. **Bulsara KR**, Asaoka K, Villavicencio AT, Fukushima T, Friedman AH. 3-D CT Anatomy of the Hypoglossal Canal. North American Skull Base Society Meeting. Memphis. 2003.
18. **Bulsara KR**, Cummings T, Villavicencio AT, George TM. Unravelling the Enigma of the Filum Terminale: Basic Science and Clinical Evidence. AANS/CNS Section for Spine and Peripheral Nerves—Orlando, Florida 2002.
19. Patil P, **Bulsara KR**, Kureshi S, Fuchs H, George TM. Surgical Management of the Tethered Cord Syndrome in Adults. AANS/CNS Section for Spine and Peripheral Nerves—Orlando, Florida 2002.
20. McGirt M, Blessing B, Lynch J, **Bulsara KR**, Laskowitz D. Positive Predictive Value of Transcranial Dopplers for the Diagnosis and Outcome of Patients with Subarachnoid Hemorrhage. AANS. Chicago 2002.
21. McGirt M, Wellons J, Nimjee S, **Bulsara KR**, Fuchs H, George TM. Ventriculoperitoneal Shunt Failure Rates following Partial versus Total Shunt Revision. AANS. Chicago 2002.
22. **Bulsara KR**, McGirt M, Liao L, Villavicencio AT, Borel C, Alexander M, Friedman A. Troponin Trend Can Differentiate “Stunned” Myocardium in Patients Following Aneurysmal Subarachnoid Hemorrhage. 51st Annual Meeting of the Congress of Neurological Surgeons— San Diego, California. Sept 29-Oct 4, 2001.

23. **Balsara KR**, Ficklin MB, Lu M, Amalfitano A, Skene JHP. Adenovirus Vectors for Retrograde Delivery and Sustained Expression of Neuronal Growth-Associated Genes after Spinal Cord Injury. Society for Neuroscience Meeting---San Diego, California, 2001.
24. McGirt M, Villavicencio AT, **Balsara KR**, Friedman H, Friedman AH. Non-operative Management of Tumor Bed Cysts after BCNU Wafer Implantation: Report of 3 cases. CNS. San Diego 2001.
25. **Balsara KR**, Abrams W, Moore SC, Ruch K, Ramirez. Progressive Lesions Accelerate Functional Axonal Sprouting. Congress of Neurological Surgeons---San Diego, California 2001.
26. **Balsara KR**, Bomze H, Iskandar B, Skene JHP. Axonal Regeneration in the Spinal Cord by Replacing two Growth Cone Components. Congress of Neurological Surgeons---San Diego, California 2001.
27. **Balsara KR**, Grossi P, McGirt M, George T. Prognostic Factors Associated with Cerebrospinal Fluid Shunt Survival in Premature Infants. AANS/CNS Section on Pediatric Neurosurgery---New York, New York 2001.
28. **Balsara KR**, Cummings T, George TM. Novel Findings in the Development of the Normal and Tethered Filum Terminale. AANS/CNS Section on Pediatric Neurosurgery---December 6-10th, 2000.
29. **Balsara KR**, Zomorodi AR, Villavicencio AT, Fuchs HE, George TM. Predictive Value of Magnetic Resonance Imaging in the Evaluation of Fatty Filum Terminale. Annual Meeting of Congress of Neurological Surgeons---San Antonio, Texas, 2000.
30. **Balsara K**, Villavicencio AT, George T. Clinical Outcome Differences for Lipomeningoceles, Intra-spinal Lipomas and Lipomas of the Filum Terminale – Southern Neurosurgical Society – Jacksonville, Florida. June 20-24, 2000.
31. Villavicencio AT, New K, **Balsara K**, Kim J, Gorecki J. Standard Percutaneous Cordotomy Compared with a Novel MRI-guided Stereotactic Frameless Technique. Annual Meeting of The Congress of Neurological Surgeons – San Antonio, Texas, September 23-28, 2000.
32. Villavicencio AT, Dimitrov D, Haglund M, Lewis D, Radtke R, Morse R, **Balsara K**, George TM. Hemispherectomy in Older Children with Rasmussen's Disease. Annual Meeting of The Section on Pediatric Neurological Surgery of The American Association of Neurological Surgeons – San Diego, California, December 8-10, 2000.
33. Villavicencio AT, Pracyk J, Rubin L, Dimitrov D, **Balsara K**, Chambers J, Gorecki J. A Prospective, Randomized, Controlled Clinical Trial of Intrathecal Narcotic Analgesia for Chronic Intractable Pain of Non-Malignant Origin. Annual Meeting of The Congress of Neurological Surgeons – Boston, Massachusetts, Oct. 28-Nov. 3, 1999.
34. Villavicencio A, **Balsara K**, Kureshi S, Gorecki JP. Spinal Cord Stimulation for Failed Back Syndrome. Annual Meeting of The Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons – Orlando, Florida, Feb. 10-13, 1999.
35. Villavicencio A, **Balsara K**, Kureshi S, Gorecki JP. Spinal Cord Stimulation for Intractable Pain: Critical Evaluation of Technique. Annual Meeting of The Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons – Orlando, Florida, Feb. 10-13, 1999.
36. Villavicencio A, Leveque JC, **Balsara K**, Kureshi S, Gorecki JP. Results Following Laminectomy versus Percutaneous Lead Placement in 48 Patients Undergoing Spinal Cord Stimulation for Intractable Pain. Annual Meeting of The American Association of Neurological Surgeons – New Orleans, Louisiana 1999.

37. **Bulsara KR**, Villavicencio AT, Gorecki JP. Midbrain Tractotomy. AANS Meeting---Philadelphia, Pennsylvania 1998.
38. **Bulsara K**, Villavicencio AT, Gorecki J. Midbrain Tractotomy. Southern Neurosurgical Association Meeting, Home Stead, Virginia, 1998.
39. **Bulsara KR**, Kureshi S, Enterline D, Fuchs H, George T. MRI-Cine CSF Flow Studies as a Predictor of Outcome in a Pediatric Chiari I Population---Congress of Neurological Surgery 1997.
40. Ramirez JJ, Bulsara KR, Moore SC, Ruch K, Abrams W. Time Course of Hippocampal Sprouting after Progressive Lesions of the Entorhinal Cortex in Rats. Society for Neuroscience---1997.
41. **Bulsara KR**, Turner DA. Presynaptic and Postsynaptic Terminal Analysis Following Unilateral Entorhinal Cortex Lesions---Howard Hughes Meeting, Washington D.C.---1995.
42. **Bulsara KR**, Pyapali GK, Shetty AK, Turner DA. Intracellular Dendritic Analysis of Dentate Granule Cells Following Unilateral Entorhinal Cortex Lesions. Society for Neuroscience---New Orleans, Louisiana, 1995.
43. **Bulsara KR**, Pyapali GK, Shetty AK, Turner DA. Intracellular Dendritic Analysis Following Unilateral Entorhinal Cortex Lesions. Society for Neuroscience---San Diego, California 1995.
44. **Bulsara KR**, Manibo JJ, Ramirez JJ. Progressive Entorhinal Lesions Accelerate Hippocampal Sprouting. Society for Neuroscience---1992.
45. **Bulsara KR**, Ramirez JJ. Progressive Entorhinal Lesions Accelerate Hippocampal Sprouting. Sixth National Conference for Undergraduate Research---Minnesota, 1992.
46. Zomorodi AR, **Bulsara KR**, Powers C., Alexander MJ. Increased Intracranial Stent Stenosis in patients with Diabetes and Smokers. ASITN Meeting Abstract. 2007.
47. Powers C., **Bulsara KR**, Zomorodi AR Alexander MJ.. Use of Intracranial Stents in Patients with Acute Subarachnoid Hemorrhage. Southern Neurosurgical Meeting. 2007.
48. **Bulsara KR**, Zomorodi AR, Powers CJ, Alexander MJ. Aneurysmal Subarachnoid Hemorrhage in Patients with Aneurysms Less than 7mm in Size. *ASITN Meeting Abstract*. 2007.
49. **Bulsara KR**, Tolbert M, Alexander MJ. Endovascular Management of Middle Cerebral Artery Aneurysms. ASITN Meeting Abstract 2006.
50. Alexander MJ, **Bulsara KR**, Zomorodi A. Endovascular management of giant aneurysms. Congress of Neurological Surgeons 2007.
51. OPTHALMIC MANIFESTATIONS OF SUBARACHNOID HEMORRHAGE IN DOGS: CLINICAL FINDINGS AND PRACTICAL SIGNIFICANCE (EA Giuliano¹, JR Coates¹, DM Eifler¹, KR Bulsara^{2,3})

Book Chapters/Books/PDA Handbooks

1. AANS/CNS Cerebrovascular Section Newsletter. Technical Forum: Anterior Communicating Artery Aneurysms. Winter 2009.
2. Health-link Neurosciences. Yale-New Haven Hospital. Fall 2008. <http://www.ynhh.org/healthlink/neurology/index.html>
3. **Bulsara KR** (Associate Editor). Proceedings of the 1st Biennial International Fukushima Aneurysm Workshop. In preparation
4. **Bulsara KR** and Friedman, AH. Frontal and Temporal AVMS. In Sekhar and Fesser Cranial Neurosurgery, 2008.

5. **Bulsara KR**, Al-Mefty O. Meningiomas. In Textbook of Neuro-oncology. M. Berger (editor). (*in print*).
6. **Bulsara KR**, George TM,. Lipomas of the Spinal Cord and Filum Terminale. In JF Sarwark and JP Lubicky (editors) Caring for the Child with Spina Bifida. American Academy of Orthopaedic Surgeons, Rosemont, Illinois. Pg. 439-455, 2001.
7. **Bulsara KR**. Synovial Cysts. In Wilkins RH, Rengachary SS. Neurosurgery. McGraw-Hill. (*in print*)
8. Sampson JH, **Bulsara KR**, Alexander MJ, Fukushima T. Paragangliomas. Neurosurgery. McGraw-Hill. (*in print*)
9. Friedman AH, **Bulsara KR**. Frontal, Occipital, Temporal AVMs. In Shekhar L. Atlas of Neurosurgical Techniques (*in print*).
10. **Bulsara KR**, Rengachary SS. Post-laminectomy Kyphosis. In Ramamurthy, Tandon Textbook of Neurosurgery (*in print*).
11. **Bulsara KR**, Rengachary SS. Osteomyelitis and Discitis. In Ramamurthy, Tandon Textbook of Neurosurgery (*in print*).
12. **Bulsara KR**, Rengachary SS. Rehabilitation for the Spinal Cord Injury Patient. In Ramamurthy, Tandon Textbook of Neurosurgery (*in print*).
13. Yeh B, Paydarfar J, Biswas SK, **Bulsara KR**, Flynn M, Liao L. Crashing the Boards: A Friendly Study Buddy for the USMLE Step I Exam. Lippincott 1995. second edition 1999.
14. Flynn M, Yeh B, Anthony E, **Bulsara KR**, Chang A, Krol B, Rao JB. ACLS USMLE Step II. Lippincott 1996. second edition 1999.

Publications

1. **Bulsara KR.**, Aruny JE, Muhs B.. Infectious Pseudoaneurysm of the Internal Carotid Artery Treated with a Covered Stent. *in press, Journal of Neurointerventional Surgery 2009.*
2. Joshi A, Qian X, Dione DP, **Bulsara KR**, Breuer CK, Sinusas AJ, Papademetris X. Effective visualization of complex vascular structures using a non-parametric vessel detection method. IEEE Trans Vis Comput Graph. 14(6): 1603-1610, 2008.
3. Mahajan, A and **Bulsara KR**. Intracranial Stenting. *Endovascular Today. Pg 77-80. November 2008.*
4. Patel TP and **Bulsara KR**. Current Strategies for Cerebral Revascularization in Atherosclerotic disease of the internal carotid artery (*in Press, Neurosurgical Review 2008*).
5. **Bulsara KR**, Villavicencio AT, Gray L, Fukushima T, Friedman AH. 3-D CT Anatomy of the Hypoglossal Canal (*in press Neurosurgical Review 2008*)
6. **Bulsara KR.**, Sameshima T, Fukushima T & Friedman AH. Surgical Management of 53 Jugular foramen schwannomas: Lessons learned incorporated into a modified grading scale. (*in press Journal of Neurosurgery, November 2008*)
7. Powers CJ, **Bulsara KR**, Cummings T, Sampson J. Prostate Metastases to the Pituitary Gland. (*in press Journal of Clinopathology 2008*).
8. **Bulsara KR**, Patel TP, Fukushima T. Cerebral Bypass Surgery for Skull Base Tumors. *Neurosurgical Focus 24(2), E11, 2008.*
9. Topsakal C., Al-Mefty O., **Bulsara KR**, Williford VS. Intraoperative Electrophysiological Monitoring of the Lower Cranial Motor Nerves (CN10-12) in Skull Base Surgery: Technical Report and Review of 123 Monitored Cases. *Neurosurgical Review, 31(1), 45-53, 2008.*
10. **Bulsara KR**, Karavadia SS, Powers CJ, Pallus WC. Co-existence of Pituitary Adenomas and Anterior Communicating Artery Aneurysms. *Neurology India, 55(4), 410-2, 2007.*

11. **Bulsara KR**, Zomorodi A, Provenzale JM. Anatomical Variant of the posterior cerebral artery. *American Journal of Roentgenology*, 188(4), W395, 2007.
12. **Bulsara KR.**, Jackson D, Galvan G.. Rate of Third Nerve Palsy Recovery Following Endovascular Management of Cerebral Aneurysms. *Neurosurgical Review*, 30(4), 307-10, 2007.
13. Vasudevan RR, Galvan G, Pait GT, Villavicencio AT, **Bulsara KR**. Muscle Splitting Approach with MetrX system for removal of an intrathecal bullet fragment. *Journal of Trauma* 62 (5), 1290-1, 2007.
14. Agrawal V, Ludwig N, Agrawal A, **Bulsara KR**. Intraosseous Intracranial Meningioma. *American Journal of Neuroradiology*, 28(2), 314-315, 2007.
15. **Bulsara KR**. Advances in Mechanical Devices for the Treatment of Patients with Diabetes and Glucose Intolerance, *Journal of Cardiometabolic Syndrome*, 2, 131-132, 2007.
16. **Bulsara KR**, Leveque JC, Gray L, Fukushima T, Friedman AH, Villavicencio AT. Relationship of the Arcuate Eminence to the Superior Semicircular Canal. *Neurosurgery* 59(1), ONS 7-12, 2006.
17. Mintelis A., **Bulsara KR**, Sameshima T., Friedman A., Fukushima T. The Jugular Tuberculum: Morphometric Analysis and Surgical Significance *Journal of Neurosurgery* 105(5), 753-7, 2006.
18. Nimjee SM, Powers CJ, **Bulsara KR**. Review of De Novo Formation of Cavernous Malformations of the Central Nervous System Following Radiation Therapy. *Neurosurgical Focus*, 21(1), e4, 2006.
19. **Bulsara KR**, Sukhla S, Nimjee S. History of Bipolar Coagulation. *Neurosurgical Review* 29(2), 93-6, 2006.
20. **Bulsara KR**, Coates JR, Eifler D, Agrawal V, D, Wagner-Mann L, Durham E, & Toft K. Two Hit Hypothesis for Cerebral Vasospasm- The effects of Cyclosporine and Simvastatin on Cerebral Vasospasm *Neurosurgical Focus* 21(3), 2006.
21. Villavicencio AT, Burnieke S, **Bulsara KR**, Thramann J. Perioperative complications in Transforaminal Lumbar Interbody Fusions versus Anterior-Posterior Reconstruction for Lumbar Disc Degeneration and Instability. *Journal of Spinal Disorders Techniques*, 19(2), 92-7, 2006.
22. **Bulsara KR**, Velez D., Villavicencio AT. "Rotational Occlusion of the Vertebral Artery: Case Report and Review of the Literature." *Surgical Neurology*, 65(6), 625-7, 2006.
23. Villavicencio AT, Burnieke S, Nelson E., **Bulsara KR**, Favors M., Thramann J. Safety of Transforaminal Lumbar Interbody Fusion and Intervertebral Recombinant Human Bone Morphogenetic Protein-2. *Neurosurgery (Spine)*, 3(6), 436-43, 2005.
24. **Bulsara KR**, Johnson, J, Villavicencio AT. "The Modern History of Awake Craniotomies." *Neurosurgical Focus*, 18(4), e5, 2005.
25. McGirt MJ, Nimjee SM, Floyd J, **Bulsara KR**, George TM. "Correlation of Cerebrospinal Flow Dynamics and Headaches in Chiari I Patients." *Neurosurgery*, 56(4), 716-721, 2005.
26. Villavicencio AT, Burniekine S, **Bulsara KR**, Thramann JJ. "Intraoperative three-dimensional fluoroscopy-based computerized tomography guidance for percutaneous kyphoplasty." *Neurosurgical Focus*, 18(3), e3, 2005.
27. Villavicencio AT, Burniekine S, **Bulsara KR**, Thramann JJ. "Utility of Computerized Isocentric Fluoroscopy for Minimally Invasive Spinal Surgical Techniques." *J Spinal Disorders Tech*, 18(4) 369-375, 2005.
28. **Bulsara KR**, Vasudevan R, Erdem E. "The Superior Ophthalmic Approach to Cavernous Carotid Fistulae Revisited." *Neurosurgical Focus*, 18(2), ECP3, 2005.

29. **Bulsara KR**, Raja A, Crowley J. "Cerebral Aneurysms in HIV Positive Patients." *Neurosurgical Review*, 18(2), 92-95, 2005.
30. **Bulsara KR**, Kadri P, Hussain M, Al-Mefty O. "Malignant Lymphoma of Meckel's Cave Mimicking a Trigeminal Schwannoma." *J. Neurooncology*, 73(3), 279-80, 2005..
31. **Bulsara KR** & Al-Mefty O: "Skull Base Surgery for Benign Skull Base Tumors." *J. Neurooncology*, 69(1-3), 181-189, 2004.
32. Adamson C, **Bulsara KR**, Bronec P. "Spontaneous Cervical Epidural Hematomas." *Surgical Neurology*, 62(2), 156-159, 2004.
33. **Bulsara KR**, Zomorodi A, , Enterline D, George TM. "Predictive Value of Magnetic Resonance Imaging in the Evaluation of Fatty Filum Terminale." *Neurosurgery*, 54(2), 375-379, 2004.
34. **Bulsara KR** & Al-Mefty OM. Supplementary comment on "Computed tomography evaluation of air cells in the petrous bone--relationship with postoperative cerebrospinal fluid rhinorrhea". *Neurol Med Chir (Tokyo)* 43(9): 469, 2003.
35. **Bulsara KR**, McGirt MJ, Liao L, Borel C, Alexander M, Friedman AH: Use of the peak troponin value to differentiate myocardial infarction from reversible neurogenic left ventricular dysfunction associated with aneurysmal subarachnoid hemorrhage. *J Neurosurg* 98:524-528, 2003
36. **Bulsara KR**, Villavicencio AT, Shah AJ, George TM: Successful aqueductal plasty and stenting for tectal plate tumor after failed third ventriculostomy: a case report. *Surg Neurol* 59:58-61; 2003
37. George TM, **Bulsara KR**, Cummings T. The Immunohistochemical Profile of the Tethered Filum Terminale. *Pediatric Neurosurgery*, 39(5), 227-233, 2003.
38. McGirt M, Villavicencio AT, **Bulsara KR**, Friedman AH. "MRI Guided Stereotactic Biopsy in the Diagnosis of Glioma: Comparison of Biopsy and Surgical Resection Specimen." *Surgical Neurology*, 59(4), 277-281, 2003.
39. **Bulsara KR**, Friedman AH, Fukushima T. Management of Malignant Tumors of the Anterior Cranial Fossa. *Neurosurgical Focus* 13(4): 1-11, 2002.
40. **Bulsara KR**, Iskandar BJ, Villavicencio AT, Skene JHP: A new millenium for spinal cord regeneration: growth-associated genes. *Spine* 27:1946-1949, 2002
41. McGirt MJ, Villavicencio AT, **Bulsara KR**, Gorecki J: MRI-guided frameless stereotactic percutaneous cordotomy. *Stereotact Funct Neurosurg* 78:53-63, 2002
42. McGirt MJ, **Bulsara KR**, Cummings TJ, Friedman H, Friedman AH: Prognostic value of magnetic resonance imaging-guided stereotactic biopsy in the evaluation of recurrent malignant astrocytoma compared with a lesion due to radiation effect. *J Neurosurg* 98:14-20, 2003
43. McGirt MJ, Wellons JC, 3rd, Nimjee SM, **Bulsara KR**, George TM: Comparison of total versus partial revision of initial ventriculoperitoneal shunt failures. *Pediatr Neurosurg* 38:34-40, 2003
44. McGirt MJ, Villavicencio AT, **Bulsara KR**, Friedman H, Friedman AH. "Management of Tumor Bed Cysts after Chemotherapeutic Wafer Implantation: Report of Four Cases." *Journal of Neurosurgery*, 96(5), 941-5, 2003.
45. **Bulsara KR**, Villavicencio AT, Alexander MJ. "De Novo Cerebral Arteriovenous Malformation.: *Neurosurgery*, 50(5), 1137-1140, 2002.
46. Bomze HM, **Bulsara KR (Joint First Author)**, Iskandar BJ, Caroni P, Skene JHP: Spinal axon regeneration evoked by replacing two growth cone proteins in adult neurons. *Nat Neurosci* 4:38-43, 2001

47. New KC, **Bulsara KR**, Dodd LG, Cummings T, Friedman AH: Fine-needle aspiration diagnosis of medulloblastoma metastatic to the pelvis. *Diagn Cytopathol* 24:361-363, 2001
48. **Bulsara KR**, Zomorodi AR, Villavicencio AT, Fuchs H, George TM: Clinical outcome differences for lipomyelomeningoceles, intraspinal lipomas, and lipomas of the filum terminale. *Neurosurg Rev* 24:192-194, 2001
49. Villavicencio AT, Gray L, Leveque JC, **Bulsara K**, Friedman AH. Three-dimensional Computed Tomographic Cranial Base Measurements for Improvement of Surgical Approaches to the Petrous Carotid and Apex Regions. *Neurosurgery* 49(2):1-14, 2001.
50. Villavicencio AT, **Bulsara KR**, Little K, Turner DA. Multifocal Acute Intracranial Epidural Hematomas Following Lumbar Puncture: Case Report and Review of the Literature. *The Neurologist* 7(2):122-126, 2001.
51. Villavicencio AT, Leveque JC, **Bulsara K**, Gorecki JP. Standard Percutaneous Cordotomy Compared with a Novel MRI-guided Stereotactic Frameless Technique. *American Association of Neurological Surgeons and Congress of Neurological Surgeons Section on Pain* 8(1):3-11, 2001.
52. Leveque JC, Villavicencio AT, Rubin, L, **Bulsara K**, Gorecki JP. Spinal Cord Stimulation for Failed Back Surgery Syndrome. *Neuromodulation* 4(1):1-9, 2001.
53. **Bulsara KR**, Baron PW, Tuttle-Newhall JE, Clavien P, Morgenlander J: Guillain-Barre syndrome in organ and bone marrow transplant patients. *Transplantation* 71:1169-1172, 2001
54. Villavicencio AT, Leveque JC, Rubin, L, **Bulsara KR**, Gorecki JP. Laminectomy versus Percutaneous Electrode Placement for Spinal Cord Stimulation. *Neurosurgery* 46(2):399-406, 2000.
55. Cavazos, **Bulsara KR**, Caress J, Osumi A, Glass PJ. Pure Motor Hemiplegia Including the Face Induced by and Infarct of the Medullary Pyramid. *Clinical Neurology and Neurosurgery* 1996; 98: 21-23.
56. Ramirez JJ, **Bulsara KR**, McLaughlin M. Progressive Entorhinal Cortex Lesions Accelerate Hippocampal Sprouting. *Journal of Neuroscience* 1999; 19(RC42): 1-6.
57. **Bulsara KR**, Ramirez JJ. Progressive Entorhinal Lesions Accelerate Hippocampal Sprouting. *Proceedings of the Sixth National Conference for Undergraduate Research, R.D. Yearout (editor): 1387-1392, 1992.*

Articles Currently Under Review/Preparation

58. **Bulsara KR**, Aruny J, Muhs B. "Covered Stent Treatment of Infectious Pseudoaneurysm of the internal carotid artery." *Submitted Journal of Endovascular Therapy, 2008.*
59. **Bulsara KR**. "Balloon Assisted Embolization of High Flow Dural Fistulae Using Onyx." *Submitted Neurology India, 2008.*
60. Diluna, M and **Bulsara KR**. Sphenopetroclival Meningiomas: Comprehensive Review Focusing on Outcomes in the Skull Base Surgery Era. *(submitted to Neurooncology).*
61. **Bulsara KR** & Alexander MJ. "Endovascular Experience with 76 middle cerebral artery aneurysms." *Submitted to Neurosurgery*
62. **Bulsara KR** & Alexander MJ. "Outcome of aneurysms 2-3 mm in size treated with coil embolization." *Submitted to Journal of Neurosurgery*
63. **Bulsara KR**. The History of Willis and his Circle. *(in preparation for Neurosurgical Review 2006).*
64. Krisht A., Kadri P., **Bulsara KR**. Surgical Management of Complex Basilar Tip Aneurysms *(in preparation for Operative Nuances of Neurosurgery)*
65. Giuliano EM, Coates JR, **Bulsara KR**, Eifler D, Toft K. Scleral Hemorrhage Induced by Subarachnoid Hemorrhage in a Canine Model *(in preparation)*

66. Rubin L, **Bulsara KR**, Coates JR, Eifler D. Subarachnoid Hemorrhage Induced Vascular Changes in the Canine Basilar Artery (*in preparation*)
67. Durham E, **Bulsara KR**, Coates JR, Eifler D, Agrawal V, Toft K. Fluoroscopic Guided Femoral Artery Puncture (*in preparation*)
68. Eifler D, Coates JR, **Bulsara KR**, Beherendt L, Royal A. CSF Analysis of Subarachnoid Hemorrhage in a Canine Model (*in preparation*)

Patents

1. Axon repair. Application # 10/268, 967 (awaiting final approval)

Clinical Trials

1. Matrix and Bare Platinum Coil Trial. (Yale PI) Boston Scientific 2008.
2. Presidio coils in Giant and Large Aneurysms (Yale PI) Micrus 2008.
3. Vitesse Pharos Intracranial Stent Trial (Yale PI) Micrus 2008

Invited Regional/National/International Course Faculty/Moderator

1. Advances in the Management of Neurovascular Lesions. Saint Mary's Hospital, Waterbury, Connecticut. February 5th, 2009.
2. 1st Biennial International Fukushima Aneurysm Workshop, Sarasota, Florida. November 15th-16th, 2008.
3. Advances in the management of intracranial vessel injuries, Saint Frances Hospital, Hartford, Connecticut. October 29th, 2008.
4. Neuroendovascular Surgery Update. Yale University School of Medicine. Grand rounds. October 8th, 2008.
5. Neurosciences Lecture. SAH and AVM Management. Department of Neurology. Yale University School of Medicine. September 30, 2008.
6. Cerebral Revascularization Course. Congress of Neurological Surgeons Meeting. September 2008, Orlando, Florida.
7. Management of Complex Skull Base Aneurysms. 5th International Congress of the World Federation of Skull Base Societies and 19th Annual Meeting of the North American Skull Base Society, Vancouver, Canada. September 12th 2008.
8. 2nd Annual Lawrence Brass Memorial Stroke Symposium. Yale University School of Medicine. "Device-assisted endovascular treatments." June 20th, 2008.
9. International Stroke Conference Moderator, New Orleans, LO, 2/08.
10. Cerebral Revascularization Course. Congress of Neurological Surgeons Meeting, September 2007. San Diego, California.

11. Cerebral Revascularization Course. Congress of Neurological Surgeons Meeting. October 7th-11th, 2006. Chicago, Illinois.
12. Temporal Bone Dissection Workshop. Course Director. University of Missouri-Columbia. June 11th, 2005.
13. Operative Masters Course, PAWS Laboratory. Saint Louis University, Missouri, May 2005. Laboratory dissection Faculty.
14. International Cerebral Revascularization Course. Laboratory Faculty. PAWS Laboratory. Saint Louis University, Missouri, January 2005.
15. University of Missouri-Columbia Skull Base Approaches Update. Co-Director. PAWS Laboratory. Saint Louis University, Missouri, November 2004.
16. Temporal Bone Course, lab instructor with Takanori Fukushima M.D., Duke University Medical Center, Durham, North Carolina 2002.

Current Research Interests/Grants:

1. Encephalomyosynangiosis for acute stroke. YCCI grant.
2. Development of autologous conduits/covered stents for revascularization
3. Skull base/cerebrovascular microsurgery anatomical dissections
4. Brain School (2007-8)

Editorial Boards/Ad hoc reviewer

1. Journal of Neurointerventional Surgery
2. Practical Reviews in Neurosurgery
3. Neurology India
4. Journal of Cardiometabolic Syndrome (2004-2008)
5. American Journal of Neuroradiology (reviewer)
6. Journal of Neurology, Neurosurgery, Psychiatry (reviewer)
7. International Stroke Conference Abstract Reviewer 2007
8. Acta Neurologica Scandinivica
9. Clinical Medicine: Trauma and Intensive
10. Endovascular Today (reviewer)
11. Acta Neurochirciga(reviewer)

Professional Affiliations/Work Experience

| | |
|-----------|--|
| 1994-1995 | Convenience Store Clerk (2 nd and 4 th weekend each month) |
| 1988-1992 | Teacher's Assistant for Biology |
| 1988-1989 | Library Assistant |

| | |
|--------------|--|
| 1986-1987 | USA Today Salesperson |
| 1996-present | Congress of Neurological Surgeons |
| 1996-present | American Medical Association |
| 1995 | Assistant Director Independent Theater Production “The Procession” |
| 1992-present | Society for Neuroscience |
| 2003-present | American Association for Neurological Surgeons |
| 2007-present | American Society of Interventional and Therapeutic Neuroradiology |
| 2007-present | AANS/CNS Section on Cerebrovascular Surgery |
| 2007-present | Neurosurgical Society of India |
| 2007-present | North American Skull Base Society |

Clinical Neurosurgical Interests

I am interested in all aspects of neurosurgery but have a particular interest in cerebrovascular neurosurgery and the application of skull base techniques and endovascular techniques in treating cerebrovascular disorders and skull base pathologies.

Personal Interests

Tennis, Basketball, Reading (autobiographies), playing snare drums