

Curriculum Vitae

Name: Michael A. Horgan, M.D.
Address: Division of Neurosurgery
University of Vermont
Fletcher 5
Burlington, Vermont 05401
Phone: (802) 847-3072
E-mail: Michael.Horgan@vtmednet.org

Current Position:

2000-present Associate Professor
Division of Neurosurgery
University of Vermont
Fletcher Allen Health Care

Certification:

2004-present Board Certified, American Board of Neurological Surgery

Education:

1983-1987 Tufts University, Medford, Massachusetts; BA in theater, with honors,
1987
1988-1992 UMDNJ-New Jersey Medical School, Newark, New Jersey, M.D., with
honors, 1992

Postdoctoral Training:

1992-1993 Intern in surgery, Oregon Health Sciences University, Portland,
Oregon
1995 Resident externship, four months, neuropathology, Massachusetts
General Hospital, Boston, Massachusetts
1993-1998 Resident in neurosurgery, Oregon Health Sciences University, Portland,
Oregon
1998-1999 Chief resident in neurosurgery, Oregon Health Sciences University,
Portland, Oregon
1999-2000 Fellow in cerebrovascular and skull base surgery, Barrow Neurological
Institute, Phoenix, AZ under the auspices of Dr. Robert F. Spetzler

Research and Clinical Fellowships:

- 1989 Summer research fellow: Brigham and Women's Hospital, (Dr. Eugene Rossitch), Department of Neurosurgery, Harvard Medical School, Boston, Massachusetts
- 1997 Spine trauma clinical research fellowship, (Dr. Randall Chesnut), Department of Neurosurgery, Oregon Health Sciences University, Portland, Oregon
- 1997-1998 Skull base research fellowship, (Dr. Johnny B. Delashaw), Department of Neurosurgery, Oregon Health Sciences University, Portland, Oregon

Other Research Positions:

- 1986-1987 Research Assistant: Organic chemistry laboratory, Department of Chemistry, Tufts University, Medford Massachusetts
- 1987-1988 Study Coordinator, Research Assistant: Harborview Medical Center, (Dr. Richard Maunder), Department of Pulmonary and Critical Care, University of Washington, Seattle, Washington
- 1989-1992 Research Assistant: University Hospital, (Dr. Michael Schulder), Division of Neurosurgery, UMDNJ-New Jersey Medical School, Newark, New Jersey

Medical Licensing:

- 1993-1999 Oregon State Board of Medical Examiners, MD18346
- 1999-2000 Arizona State Board of Medical Examiners, AZ27530
- 2000-present Vermont State Board of Medical Examiners, #042-0010072w
- 2002-present New York State Board of Medical Examiners, 224384

Awards and Honors:

- 1987 Cum Laude, Tufts University
- 1988 Student Research Symposium: Presentation of "Adult Diastematomyelia"
- 1990 Alpha Omega Alpha
- 1992 Sigma Xi
- 1992 Merck Manual Award: Academic achievement
- 1992 Upjohn Achievement Award: Class Salutorian
- 2008 H. Gordon Page Surgical Clinician Award

Committees and Organizations:

- 1989-1990 Treasurer, New Jersey Medical School Chapter of the American Medical Students Association
- 1989-1990 Founding Member/Organizational Committee: Students Teaching Aids to Students (STATS), New Jersey Medical School
- 1990-1992 Committee Member: Student's Health Program (formerly The Impaired Students Program), New Jersey Medical School

1993-1994	Committee Member: Hospital Discharge Planning, University Hospital, Oregon Health Sciences University
2001-2002	Fletcher-Allen Health Care Stroke Advisory Committee
2002-2003	Faculty Senate Financial and Physical Planning Committee: University of Vermont
2000-present	Trauma Committee, FAHC
2005-2007	Tissue Bank Committee: Director Periop Services, FAHC
2005-2007	Clinical Technology Committee, FAHC
2005-present	Value Analysis Committee, FAHC
2010-present	Post-Concussive Task Force

Professional Societies:

1993-present	American Association of Neurological Surgeons: Active Provisional Member
1993-present	Congress of Neurological Surgeons: Member
2001-present	New England Neurosurgical Society
2010-present	New England Neurosurgical Society Executive Board
2002-present	Vermont Medical Society

Teaching:

1995-1999	Laboratory instructor, human nervous system, Oregon Health Sciences University, Portland, Oregon
1998	Instructor, Oregon Hands-On Skull Base Workshop: The lateral skull base, Oregon Health Sciences University, Portland, Oregon
1999	Instructor, Korean Skull Base Society: The lateral skull base, Catholic Health University, Seoul, Korea
2000	Instructor, Barrow Neurological Institute: Recent Advances in Neurosurgery
2004	Course Instructor, Hands on Approach to the Skull Base, Anspach Companies, West Palm Beach, Florida
2004	Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington, Vermont (January 28-31)
2005	Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington, Vermont (March 3-6)
2006	Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington, Vermont (February 9-11)
2006	Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington, Vermont (September 14-17) (Sponsored jointly by the New England Neurosurgical Society)
2009	Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington,

- Vermont (February 13-16) (Sponsored jointly by the New England Neurosurgical Society)
- 2010 Course Director, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, University of Vermont, Burlington, Vermont (February 11-14) (Sponsored jointly by the New England Neurosurgical Society)
- 2010 Course Faculty, Surgical Approaches to the Skull Base: A hands on cadaver workshop for neurosurgeons, Anspach Effort, Inc., West Palm Beach, FL (July 15-17)

Bibliography

Publications:

- Horgan MA, Rossitch E Jr. Summer fellowships. *Acad Med* 64:668,1989
- Horgan MA, Rossitch E Jr. New Jersey Medical School's fellowships. *NJ Med* 87:168, 1990
- Kernan JC, Horgan MA, Piatt JH. Tethered hindbrain. Case Report. *J Neurosurg* 85(4):713-715, 1996
- Horgan MA, Piatt JH. Shaving of the scalp may increase the rate of infection in CSF shunt surgery. *Pediatr Neurosurg* 26(4):180-184, 1997
- Stemmer-Rachamimov AO, Horgan MA, Taratuto AL, Munoz DG, Smith TW, Frosch MP, Louis DN. Meningioangiomas are associated with neurofibromatosis 2 but not with somatic alterations of the NF2 gene. *J Neuropath Exp Neurol* 56(5):485-489, 1997
- Kernan JC, Horgan MA, Piatt JH, D'Agostino AD. Spontaneous involution of a diencephalic astrocytoma. *Pediatr Neurosurg* 29(3):149-153, 1998
- Horgan MA, Kernan JC, Delashaw JB, Schwartz MS, Kuether T. Schwannoma of the torcula presenting as an occipital mass. Case illustration. *J Neurosurg* 89(3):490, 1998
- Schwartz MS, Riddle SA, Delashaw JB, Horgan MA, Kellogg, JX, McMenomey, SO. Quality of life following acoustic neuroma surgery. *Neurosurg Focus* 15;5(3): e3, 1998
- Kellogg JX, Kuether TA, Horgan MA, Nesbit GM, Barnwell SL. Current concepts on carotid artery-cavernous sinus fistulas. *Neurosurg Focus* 15;5(4): e12, 1998
- Horgan MA, Hsu FP, Frank EH. Cervical radiculopathy secondary to a tortuous vertebral artery. Case illustration. *J Neurosurg* 89(3):489, 1998
- Kellogg JX, Kuether TA, Horgan MA, Nesbit GM, Barnwell SL. Current concepts on carotid artery-cavernous sinus fistulas. *Neurosurg Focus* 15;5(4):e 12, 1998

Schwartz MS, Cohen JI, Meltzer T, Wheatley MJ, McMenomey SO, Horgan MA, Kellogg JX, Delashaw JB. Use of the radial forearm microvascular free-flap for cranial base reconstruction. *J Neurosurg* 90(4):651-655, 1999

Horgan MA, Kellogg JX, Chesnut RM. Posterior cervical arthrodesis and stabilization: an early report using a novel lateral mass screw and rod technique. *Neurosurg* 44(6):1267-1271, 1999

Horgan MA, Delashaw JB, Dailey RA. Bilateral proptosis: an unusual presentation of fibrous dysplasia. *Brit J Neurosurg* 13(3):335-337, 1999

Schwartz MS, Anderson GJ, Horgan MA, Kellogg JX, McMenomey SO, Delashaw JB. Quantification of increased exposure resulting from orbital rim and orbitozygomatic osteotomy via the frontotemporal transsylvian approach. *J Neurosurg* 91(6):1020-1026, 1999

Horgan MA, Kernan JC, Schwartz MS, Kellogg JX, McMenomey SO, Delashaw JB. Shaveless brain surgery: safe, well tolerated, and cost effective. *Skull Base Surg* 9(4):253-258, 1999

Horgan MA, Hsu FP, Frank EH. A novel endoscopic approach to anterior odontoid screw fixation: Technical note. *Minim Invas Neurosurg* 42(3):142-145, 1999

Frank EH, Horgan M. An endoscopic aneurysm clip applicator: preliminary development. *Minim Invas Neurosurg* 42(2):89-91, 1999

Spektor S, Anderson GJ, McMenomey SO, Horgan MA, Kellogg JX, Delashaw JB. Quantitative description of the far-lateral transcondylar transtuberular approach to the foramen magnum and clivus. *J Neurosurg* 92(5):824-831, 2000

Horgan MA, Anderson GJ, Kellogg JX, Schwartz MS, Spektor S, McMenomey SO, Delashaw JB. Classification and quantification of the petrosal approach to the petroclival junction. *J Neurosurg* 93(1):108-112, 2000

Kaylie DM, Horgan MA, Delashaw JB, McMenomey SO. A meta-analysis comparing outcomes of microsurgery and gamma knife radiosurgery. *Laryngoscope* 110(11):1850-1856, 2000

Kaylie DM, Gilbert E, Horgan MA, Delashaw JB, McMenomey SO. Acoustic neuroma surgery outcomes. *Otol Neurotol* 22(5):686-689, 2001

Horgan MA, Delashaw JB, Schwartz MS, Kellogg JX, Spektor S, McMenomey SO. Transcranial approach to the petroclival region with hearing preservation. *J Neurosurg* 94(4):660-666, 2001

Gonzalez LF, Crawford NR, Horgan MA, Deshmukh P, Zabramski JM, Spetzler RF. Working area and angle of attack in three cranial base approaches: pterional,

orbitozygomatic, and maxillary extension of the orbitozygomatic approach. *Neurosurg* 50(3):550-555, 2002

Kaylie DM, Horgan MA, Delashaw JB, McMenomey SO. Hearing preservation with the transcranial approach to the petroclival region. *Otol Neurotol* 25(4):594-598, 2004

Bisson EF, Pendlebury WW, Horgan MA. Glioneural tumor with unique imaging and histological features. *J Neuro Onc* 72(1):89-90, 2005

Bisson EF, Visioni AJ, Tranmer B, Horgan MA. External carotid artery to middle cerebral artery bypass with the saphenous vein graft. *Neurosurg* 62(3 Suppl 1):134-138, 2008

Bisson EF, Visioni AJ, Tranmer B, Horgan MA. External carotid artery to middle cerebral artery bypass with the saphenous vein graft. *Neurosurg* 62(6 Suppl 3):1419-1424, 2008

Visioni A, Bisson EF, Tranmer BI, Horgan MA. High flow extra-cranial to intra-cranial bypass for severe middle cerebral artery stenosis. Accepted. *Current Techniques in Neurosurgery*, 2009

Link TE, Bisson E, Horgan MA, Tranmer BI. Raymond M. P. Donaghy: a pioneer in microneurosurgery. *J Neurosurgery* 112(6):1176-1181, 2010

Rughani AI, Lin C, Dumont TM, Penar PL, Horgan MA, Tranmer BI. A case-comparison study of the subdural evacuating port system in treating chronic subdural hematomas. *J Neurosurgery* 113(3):609-614, 2010

Rughani AI, Dumont TM, Lu Z, Bongard J, Horgan MA, Penar PL, Tranmer BI. Use of an artificial neural network to predict head injury outcome. *J Neurosurgery* 113(3):585-590, 2010

Dumont TM, Stockwell DW, Horgan MA. Venous air embolism - an unusual complication of atlantoaxial arthrodesis: case report. *Spine* 35(22), E1238-40, 2010

Tsen AR, Burrows AM, Dumont TM, Horgan MA. Spinal epidural hematoma masquerading as atypical chest pain. *Am J Emerg Med* October 28, 2010

Gibbons BA, Miele WR, Florman JE, Heilman CB, Horgan MA. Pneumosinus dilataans and meningioma: a case series and review of the literature. *Neurosurg Focus* 30(5):E13, 2011

Rughani AI, Lin CT, Ares WJ, Cushing DA, Horgan MA, Tranmer BI, Jewell RP, Florman JE. Helmet use and reduction in skull fractures in skiers and snowboarders admitted to the hospital. *J Neurosurg Ped* 7(3):268-271, 2011

Rughani AI, Dumont TM, Lin CT, Tranmer BI, Horgan MA. Safety of microvascular decompression for trigeminal neuralgia in the elderly. Clinical article. Accepted. J Neurosurg, 2011

Rughani AI, Horgan MA. Editorial response. Accepted. J Neurosurg, 2011

Book Chapters and Reviews:

Barnwell SL, Clark WM, Nesbit GM, Horgan MA. Thrombolytic therapy for acute stroke: Indications, technique and results, in *A Clinical Approach to Vascular Intervention*, Eds. Perler BA, Becker GJ

Horgan MA, Delashaw JB. Review of *Operative Skull Base Surgery*, Eds. Torrens, Al-Mefty, Kobayashi.

Tranmer BI, Horgan MA, Seki Y, Ribeiro LP, Popp AJ. Head Injury, in *Primary Care Giver's Guide to Neurological Disease*, Eds. Popp JA

Presentations:

Horgan MA, Piatt JH. Shaving of the scalp may increase the rate of infection in CSF shunt surgery. CNS Annual Meeting, 1996, Montreal, Quebec

Horgan MA, Schwartz MS, Kellogg JX, Hsu FPK, McMenemy SO, Delashaw JB. Predicting facial nerve outcome after acoustic neuroma surgery by amplitude ratios. North American Skull Base Society Annual Meeting, 1998, Kamuela, Hawaii

Horgan MA, Kernan JC, Schwartz MS, McMenemy SO, Delashaw JB. Shaveless brain surgery: safe, well tolerated and cost effective. North American Skull Base Society Annual Meeting, 1998, Kamuela, Hawaii

Horgan MA, Anderson G, Schwartz MS, Kellogg JX, McMenemy SO, Delashaw JB. The petrosal approach to the petro-clival junction: history, classification and quantification. Grand Rounds, Brown University, 1998, Providence, Rhode Island

Horgan MA, Chesnut RM, Frank EH. Screw fixation of spinal pedicle hooks facilitates stabilization of traumatic spine injuries. Western Neurosurgical Society Annual Meeting, 1998, Napa, California

Horgan MA, Schwartz MS, Kellogg JX, McMenemy SO, Delashaw JB. Amplitude ratios as a predictor of facial nerve outcome after acoustic neuroma surgery in 30 patients. Congress of Neurological Surgery Post Satellite Meeting, 1998, Blaine, Washington

Horgan MA, Kellogg JX, Schwartz MS, McMenemy SO, Delashaw JB. History and classification of the petrosal approach to the petroclival region: 100 years of progress. American Association of Neurological Surgeons Annual Meeting, 1999, New Orleans, Louisiana

Horgan MA, Anderson G, Schwartz MS, Kellogg JX, McMenemy SO, Delashaw JB. Classification and quantification of the petrosal approach to the petroclival junction. North American Skull Base Society Annual Meeting, 2000, Phoenix, Arizona

Bisson E, Horgan MA. Historical perspectives on vestibular schwannoma surgery. North American Skull Base Society Annual Meeting, 2002, San Diego, California

Bisson E, Horgan M, Tranmer B. Microneurosurgery: the contribution of RMP Donaghy at the University of Vermont. American Association of Neurological Surgery, 2003, San Diego, California

Visioni D, Bisson E, Horgan MA. High flow extra-cranial to intra-cranial bypass for severe middle cerebral artery stenosis. The Video Theater Program, Congress of Neurological Surgeons 55th Annual Meeting, 2005, Boston, Massachusetts

Dumont T, Visioni A, Bisson E, Binter N, Horgan M, Penar P, Tranmer B, Crookes B. Partial pressure of carbon dioxide as an independent predictor of outcome from head trauma. New England Neurosurgical Society, 2006, Burlington, Vermont

Rughani AI, Lin C, Dumont TM, Link TE, Horgan MA, Tranmer BI. Small Craniotomy Compared to Burr Hole Treatment of Chronic Subdural hematoma. Annual Meeting of the New England Neurosurgical Society, 2009, New Castle, New Hampshire

Rughani AI, Lin CT, Dumont TM, Penar PL, Horgan MA, Tranmer BI. Subdural evacuating port system in the treatment of chronic subdural hematoma. Congress of Neurological Surgeons Annual Meeting, 2009, New Orleans, Louisiana

Rughani AI, Lin C, Ares W, Tranmer BI, Horgan M. Helmet use reduces skull fractures in skiers and snowboarders. Annual Meeting of the Congress of Neurological Surgeons, 2010, San Francisco, California

Gibbons B, Jewell R, Horgan M. Minimally invasive lumbar fusion: the Vermont experience. Annual Meeting of the New England Neurosurgical Society, 2010, Cape Cod, Massachusetts

Murray RD, Dumont TM, Horgan, MH. Quantification of surgical operative corridor in trans-nasal odontoidectomy. Craniovertebral Junction. North American Skull Base Society, 2011, Phoenix, Arizona

Abstracts:

Horgan MA, Rossitch E Jr. The role of endothelin in cerebral vasospasm. Summer Student Research Program, 1989;39

Horgan MA, Rossitch E Jr. Adult Diastematomyelia. Summer Student Research Program, 1989;39

Rossitch E Jr, Horgan MA, Moore MR, Shillito J Jr. Diastematomyelia presenting in the adult. Joint Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, 1990;165-166

Rossitch E Jr, Black P McL, Horgan MA, Alexander E III, Cooke JP. Endothelium dependent and independent responses in perfused, pressurized basilar artery. American Association of Neurological Surgeons Annual Meeting, 1990;318-319

Rossitch E Jr, Black P McL, Horgan MA, Alexander E III, Cooke JP. Hypercholesterolemia alters the vascular reactivity of the basilar artery. American Association of Neurological Surgeons Annual Meeting, 1990;309

Schulder M, Horgan MA. Tristate area neurosurgeons attitudes on AIDS. American Association of Neurological Surgeons Annual Meeting, 1992

Frank EH, Johans T, O'Neill OR, Horgan MA, Keenen T. Stabilization after anterior cervical corpectomy and fusion with the morscher locking plate system. Joint Section on Spine, AANS/CNS Annual Meeting, 1992

Zimmerman CG, Horgan MA, Burchiel KJ. Intraoperative nerve stimulation during surgical excision of painful neuromas. American Association of Neurological Surgeons Annual Meeting, 1992

Piatt J Jr, Horgan M, Carson C. The prevalence of epilepsy among patients treated for hydrocephalus: an actuarial study. Pediatric Section of the American Association of Neurological Surgeons Annual Meeting, 1993

Horgan MA, O'Neill OR, Kuether T, Delashaw JB. The perioperative use of corticosteroids and bupivacaine in the management of lumbar stenosis. American Association of Neurological Surgeons Annual Meeting, 1996

Horgan MA, Piatt JH. Shaveless neurosurgery. American Association of Neurological Surgeons Annual Meeting, 1996

Horgan MA, Petrillo A, Kernan JC, Doolittle ND, Neuwelt EA. Is there a role for enhanced chemotherapy delivery in the treatment of low grade gliomas? Society for Neuro-Oncology Annual Meeting, 1996

Horgan MH, Delashaw JB. Shaveless neurosurgery: both simple and effective. American Association of Neurological Surgeons Annual Meeting, 1998

Kellogg JX, Anderson G, Horgan MA, Schwartz M, Delashaw JB. Advances in frameless stereotaxy: surface merge and its implications using the stealth station. American Association of Neurological Surgeons Annual Meeting, 1998

Schwartz MS, Horgan MA, Kellogg JX, Anderson GA, McMenemy SO, Delashaw JB. Limited zygomatic osteotomy for skull base lesions: a cadaveric study. North American Skull Base Society Annual Meeting, 1998

Schwartz MS, Riddle S, Delashaw JB, Kellogg JX, Horgan MA, McMenemy SO. Quality of life following acoustic neuroma surgery. American Association of Neurological Surgeons Annual Meeting, 1998

Schwartz MS, Delashaw JB, Cohen JI, Kellogg JX, Horgan MA, McMenemy SO, Meltzer T. Neurosurgical and skull base application of the radial forearm microvascular free-flap. American Association of Neurological Surgeons Annual Meeting, 1998

Schwartz MS, Anderson G, Horgan MA, Kellogg JX, McMenemy SO, Delashaw JB. Quantification of exposure in orbitozygomatic approaches. American Association of Neurological Surgeons Annual Meeting, 1999

Spektor S, Anderson GJ, McMenemy SO, Horgan, Kellogg JX, Delashaw JB. Quantitative description of the far lateral transcondylar transtuberular approach. North American Skull Base Society Annual Meeting, Chicago, IL, 1999

Kellogg JX, Horgan MA, Martin JE, Chesnut RM. Does CPP therapy really do what we think it does? Congress of Neurological Surgeons Annual Meeting, Boston, MA, 1999

Hsu FP, Horgan MA, Chen JW, McMenemy SO, Delashaw JB. Petrosal craniotomy: single center experience at Oregon Health Sciences University. North American Skull Base Society Annual Meeting, Phoenix, Arizona, 2000

Kernan JC, Spektor S, McMenemy SO, Horgan MA, Kellogg JX, Delashaw JB. Water permeability of CRS calcium phosphate cement: experiments in vitro and clinical experience. North American Skull Base Society Annual Meeting, Phoenix, Arizona, 2000

Gonzalez L, Horgan M. Comparison of O-Z, extended O-Z. American Association of Neurological Surgery, 2001

Bisson E, Lew S, Horgan M. Vestibular schwannoma surgery: a historical perspective. North American Skull Base Society Meeting, San Diego, California, 2002

Kaylie M, Horgan MA, Delashaw JB, McMenemy SO. The transcrural approach to the petroclival region with hearing preservation: technical note and results. Otolaryngology Triologic Society, Boca Raton, 2002

Florman JE, Lew SM, Tranmer BI, Horgan MA. Pressure equalization tube syringosubarachnoid shunt: technical note. American Association of Neurological Surgery, San Diego, California, 2003

Bisson E, Horgan MA, Tranmer BI. Microneurosurgery: the contribution of RMP Donaghy at the University of Vermont. American Association of Neurological Surgery, San Diego, California, 2003

Rughani AI, Lin C, Dumont TM, Penar PL, Horgan MA, Tranmer BI. Subdural Evacuating Port System in the Treatment of Chronic Subdural Hematoma. Annual Meeting of the Congress of Neurological Surgeons. New Orleans, Louisiana, 2009

Rughani AI, Lin C, Ares W, Tranmer Bi, Horgan M. Helmet Use reduces Skull Fractures in Skiers and Snowboarders. Annual Meeting of the Congress of Neurological Surgeons. San Francisco, California, 2010

Ongoing Academic Activity

Research

Assessment of Pediatric Traumatic Brain Injury using advanced Diffusion Tensor Imaging

Kalev Freeman
Christopher Filippi
David Stockwell

Mind the Music: A Longitudinal, Randomized-Controlled Trial of Music-Based Mindfulness Practice to Improve Clinical Outcomes and Their Neural Correlates Measured by MRDTi and fMRI Following Traumatic Brain Injury

Kalev Freeman
Christopher Filippi
David Stockwell
et. al.

Development of a Mouse Model for Fluid Percussion Head Injury

Kalev Freeman
David Stockwell

A multi-center Surgical Study on Minimally Invasive Instrumented Unilateral Transforaminal Lumbar Interbody Fusion Procedures using VIPER Pedicle Screw Fixation System and PIPELINE Expandable Access System

Sponsor: DePuy Spine, Inc

A Multi-Center Study of the UNIPLATE Anterior Cervical Plate System Used in Conjunction with VG2 Cervical Allograft in One or Two-Level ACDF

Sponsor: DePuy Spine, Inc

Transnasal Endoscopic Odontoidectomy: A Cadaveric Study to Assess the Limitations and Usefulness of an Advanced Novel Technique

Richard Murray
Travis Dumont

The Role of Neurosurgical Education during Medical School

Lectures

- 2009 Combined Neuroscience Grand Rounds
“Advances in Minimally Invasive Spine Techniques”
- 2010 Combined Neuroscience Grand Rounds
“Endoscopic Transnasal Pituitary Surgery: Advances and Pitfalls”
- UVM School of Medicine Neurosurgery Interest Group
“An Introduction to Neurosurgery”
- Medicine Grand Rounds, Alice-Hyde Hospital, Malone, NY
“Minimally Invasive Spine Surgery for the Primary Care Doctor”
- Shelburne Rotary Club, Shelburne, VT
“Neurosurgeons: Who Are We and What Do We do?”

Resident Mentorship and Projects

Chi-Ta Lin

A Retrospective and Prospective Study on the UNIPLATE in One and Two Level Cervical Spine Disease

Andrew Tsen

Guidelines for DVT Prophylaxis in Head Injury at FAHC
Protocol for Anticoagulation in the Head Injured Patient with Normal Head CT
The role of Bronchoalveolar Lavage in Predicting Pneumonia in CHI
Complex Intracranial Surgery in a Rural Environment: MCA Bypass Case Report
Retrospective Analysis of Aneurysm Treatment in a Rural Environment
Thoracic Epidural Hematoma Masquerading as Acute MI/Aortic Dissection: Case Report

David Stockwell

Development of Fluid Percussion Head Injury Model in Mice
Validation of a Technique, IACOC approval pending
A Study to Assess Mechanisms of Malignant Cerebral Edema
DTI in the Moderately Head Injured Pediatric Population
Reversal of INR with FFP: A Dose/Response Curve (with Paul Jarvis, MS)

Richard Murray

Prospective Randomized Trial of Allograft/plate v Healos/Cage/Plate in ACDF
IRB Approval in Progress
Minimally Invasive Screw Angles in the Obese Patient (with Dr. Ryan Jewell)
CT Spectroscopy and Lumbar Spine Disease
Outcomes and Disability Indices: Development of a protocol for FAHC Clinic
Transnasal Endoscopic Odontoidectomy

Beth Gibbons

Experience of Carotid Endarterectomy in a Rural Environment
Minimally Invasive Lumbar Fusion, Experience and Learning Curve
The role of Bronchoalveolar Lavage in Predicting Pneumonia in CHI
Outcomes in Head Injury for Patients on ASA/Plavix/Coumadin in Rural environment
Biomechanics of the Aspen Interspinous Device

Anand Rughani

Helmet Use and Head Injury in Skiers/Snowboarders
Neural Networks
Subdural Survival Curve (with Tara Goets, MS)

Travis Dumont

Transnasal Endoscopic Odontoidectomy
ICH/Coumadin in a Rural Head Injured Population (with Andrew Fanous, MS)

Medical Student Advisees

Andrew Fanous

Paul Jarvis

“Dose-response curve of fresh frozen plasma to correct INR in coumadinized patients with acute subdural hematoma.” University of Vermont College of Medicine Summer Research Award

Jonathen Severy

Amilyn Taplin