

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

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-present	Tissue Bank Committee: Director Periop Services, FAHC
2005-present	Clinical Technology Committee, FAHC
2005-present	Value Analysis Committee, FAHC

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
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)

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 85:713-715, 1996

Horgan MA, Piatt JH. Shaving of the scalp may increase the rate of infection in CSF shunt surgery. Pediatr Neurosurg 26:180-184, 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 56:485-489, 1997

Kernan JC, Horgan MA, Piatt JH, D'Agostino AD. Spontaneous involution of a diencephalic astrocytoma: case report. Pediatr Neurosurg 29:149-153, 1998

Horgan MA, Kernan JC, Delashaw JB, Schwartz M, Kuether T. Schwannoma of the torcula presenting as an occipital mass: Case report. J Neurosurg 89:490, 1998

Horgan MA, Delashaw JB, Dailey RA. Bilateral fibrous dysplasia of the orbit: Case report. Brit J Neurosurg. Brit Journal Neurosurg 13:335-337, 1999.

Horgan MA, Hsu FPK, Frank EH. Cervical radiculopathy secondary to a tortuous vertebral artery: Case illustration. J Neurosurgery 89:489, 1998

Horgan MA, Jordi X. Kellog, Chesnut RM. Posterior cervical arthrodesis and stabilization using a novel lateral mass screw and rod technique: Technical note. Neurosurg 44:1267-1272, 1999.

Schwartz MS, Riddle SA, Delashaw JB, Horgan MA, Kellog, JX, McMenomey, SO. Quality of life following acoustic neuroma surgery. Neurosurg Focus 5(3): Art 3, 1998.

Schwartz MS, Cohen JJ, 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 90:651-655, 1999

Schwartz MS, Anderson GJ, Horgan MA, Kellogg JX, McMenomey SO, Delashaw JB. Quantification of increased exposure with orbital rim and orbitozygomatic osteotomy via the pterional/anterior temporal transsylvian approach Journal of Neurosurg 91:1020-1026, 1999

Horgan MA, Kernan J, Schwartz MS, Jordi X. Kellogg, McMenomey SO, Delashaw JB. Shaveless neurosurgery: both simple and cost effective Skull Base Surg 9: 253-258, 1999

Horgan MA, Hsu, FPK, Frank, EH. A novel endoscopic approach to anterior odontoid screw fixation: Technical note. Minim Invas Neurosurg 42:1-4, 1999

Frank EH, Horgan M. An endoscopic aneurysm clip applicator: preliminary development. Minim Invas Neurosurg 42:1-3, 1999

Kellogg JX, Kuether TA, Horgan MA, Nesbit GM, Barnwell SL. Current concepts on carotid artery-cavernous sinus fistulas. Neurosurg Focus 5 (4): 1-8, 1998.

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

Horgan MA., Delashaw JB, Schwartz MS, Kellogg JX., Spektor S, McMenomey SO. The transcrural approach to the petroclival region with hearing preservation: Technical note and illustrative cases. J Neurosurg 94(4):660-666, 2001

Horgan MA, Anderson G, 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: 1850-56, 2000

Kaylie DM, Gilbert E, Horgan MA, Delashaw JB, McMenomey SO. Acoustic neuroma surgery outcomes. Otol Neurotol 22(5):686-689, 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 transcrural approach to the petroclival region. Otol Neurotol. 2004 Jul: 25(4) 594-8;discussion 598

Bisson EF, Pendlebury WW, Horgan MA. Glioneural Tumor with Unique Imaging and Histological Features. J Neuro Onc 72 (1): 89-90, 2005

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.

Link T, Bisson E, Horgan MA, Tranmer, BI. Microneurosurgery: the contribution of RMP Donaghy at the University of Vermont. Neurosurgery (accepted)

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. 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, Oct 1, 1996, Montreal, Quebec.

Horgan MA, Schwartz MS, Kellogg JX, Hsu FPK, McMenomey SO, Delashaw JB. Predicting facial nerve outcome after acoustic neuroma surgery by amplitude ratios. North American Skull Base Society: Annual Meeting, Feb 16, 1998, Kamuela, Hawaii.

Horgan MA, Kernan JC, Schwartz MS, McMenomey SO, Delashaw JB. Shaveless brain surgery: Safe, well tolerated and cost effective. North American Skull Base Society: Annual Meeting, Feb 14, 1998, Kamuela, Hawaii.

Horgan MA, Anderson G, Schwartz MS, Kellogg JX, McMenomey SO, Delashaw JB. The petrosal approach to the petro-clival junction: History, classification and quantification. Grand Rounds, Brown University, Apr 20, 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, Sept 13, 1998, Napa, CA

Horgan MA, Schwartz MS, Kellogg JX, McMenomey 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, Oct 10, 1998, Blaine, WA

Horgan MA, Kellogg JX, Schwartz MS, McMenomey 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, April 28, 1999, New Orleans, LA

Horgan MA, Anderson G, Schwartz MS, Kellogg JX, McMenomey SO, Delashaw JB. Classification and quantification of the petrosal approach to the petroclival junction. North American Skull Base Society Annual Meeting, March 17, 2000, Phoenix, AZ

Bisson E, Horgan MA. Historical Perspectives on Vestibular Schwannoma Surgery. North American Skull Base Society Annual Meeting, February 18, 2002, San Diego, CA

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

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, Boston, MA, Oct 2005

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, Burlington, VT, September 2006.

Abstracts:

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

Horgan MA, Rossitch E Jr. Adult Diastematomyelia. 1989 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. AANS 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. AANS Annual Meeting, 1990;309.

Schulder M, Horgan MA. Tristate area neurosurgeons attitudes on AIDS. AANS 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. AANS 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 AANS 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. AANS Annual Meeting, 1996.

Horgan MA, Piatt JH. Shaveless neurosurgery. AANS 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, AANS 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. AANS Annual Meeting, 1998.

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

Spektor S, Anderson GJ, McMenomey SO, Horgan, Kellogg JX, Delashaw JB. Quantitative description of the far lateral transcondylar transtubercular 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 FPK, Horgan MA, Chen JW, McMenomey SO, Delashaw JB. Petrosal craniotomy: Single center experience at Oregon Health Sciences University. North American Skull Base Society: Annual Meeting, March 17, 2000, Phoenix, AZ

Kernan JC, Spektor S, McMenomey 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, March 17, 2000, Phoenix, AZ

Gonzalez, Horgan. 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, CA, February 2002

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

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