

ANAND INDULAL RUGHANI

CONTACT

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PERSONAL

- ▶ United States Citizen
- ▶ Married: Rosa Mojdehi, MD

MEDICAL LICENSURE

- ▶ Vermont Medical Licence (060-0003401; May 17, 2006 – June 30, 2011)
- ▶ Maine Medical Licence(EC091058; July 1, 2009 – June 30, 2010)
- ▶ Quebec Training Card (R14778; November 1, 2008 – December 1, 2008)
- ▶ US Medical Licence Exam Step 3 (Passed - December 8, 2009)
- ▶ American Board of Neurological Surgery Written Exam (Passed - March 28, 2009)

EDUCATION & TRAINING

2007–2012	University of Vermont Neurosurgery Residency (Dr. Bruce Tranmer, Chairman)	<i>Burlington, Vermont, USA</i>
2006-2007	University of Vermont General Surgery Internship (Dr. Steven Shackford, Chairman)	<i>Burlington, Vermont, USA</i>
2002–2006	McGill University M.D.C.M.	<i>Montreal, Quebec, Canada</i>
1996–2002	McGill University B.Sc. in Cognitive Science (First Class Honours)	<i>Montreal, Quebec, Canada</i>

PEER-REVIEWED PUBLICATIONS

Rughani AI, Dumont TM, Lin C, Tranmer BI, Horgan MA. *Safety of Microvascular Decompression for Trigeminal Neuralgia in the Elderly. Clinical article.* The Journal of Neurosurgery. 2011 May 13. [Epub ahead of print]. PMID:21568658.

Rughani AI, Lin C, Ares WJ, Cushing DA, Horgan MA, Tranmer BI, Jewell RP, Florman JE. *Helmet Use Reduces Skull Fractures in Skiers and Snowboarders Admitted to Hospital. Clinical article.* The Journal of Neurosurgery: Pediatrics. 7(3):268-271, 2011. PMID:21361765.

Rughani AI, Rintel T, Desai R, Cushing DA, Florman JE. *Development of a Safe and Pragmatic Awake Craniotomy Program in a Community Setting.* Journal of Neurosurgical Anesthesiology. Jan;23(1):18-24, 2011. PMID: 20706142.

Dumont TM, **Rughani AI**, Tranmer BI. *Prediction of Symptomatic Cerebral Vasospasm after Aneurysmal Subarachnoid Hemorrhage with an Artificial Neural Network: Feasibility and Comparison to Logistic Regression Models.* World Neurosurgery. World Neurosurg. 2011 Jan;75(1):57-63. PMID:21492664.

Rughani AI, Lin C, Tranmer BI, Wilson JT. *Anal cancer with cerebral metastasis: a case report.* Journal of Neuro-oncology. Jan;101(1):141-3, 2011. PMID: 20440537.

Rughani AI, Lin C, Dumont TM, Penar PL, Horgan MA, Tranmer BI. *Case-comparison study of the subdural evacuating port system in treating chronic subdural hematomas. Clinical article.* The Journal of Neurosurgery Sep;113(3):609-14, 2010. PMID: 20001585.

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. Clinical article.* The Journal of Neurosurgery Sep;113(3):585-90, 2010. PMID: 20020844.

Rughani AI, Tranmer BI, Florman JE, Wilson JT. *Radiographic Assessment of Snap-Shunt Failure.* Journal of Neurosurgery: Pediatrics. Sep;6(3):299-302, 2010. PMID: 20809717.

Rughani AI, Florman JE, Seder DB. *Clinical and Radiographic Improvement Following Cerebral Fat Emboli.* Neurocritical Care. 2010 Jun 4. [Epub ahead of print]. PMID: 20524081.

Dumont TM, Visionsi A, **Rughani AI**, Tranmer BI, Crookes B. *Inadequate Prehospital Ventilation in Severe Traumatic Brain Injury Increases In-Hospital Mortality.* Journal of Neurotrauma. Jul;27(7):1233-41, 2010. PMID: 20373856.

Rughani AI, Holmes CE, Penar PL. *A Novel Association Between a Chronic Subdural Hematoma and a Fibrinolytic Pathway Defect.* Neurosurgery 64(6): E1192, 2009. PMID: 19487862.

Dumont T, **Rughani A**, Silver J, Tranmer BI. *Diabetes mellitus increases risk of vasospasm following aneurysmal subarachnoid hemorrhage independent of glycemic control.* Neurocritical Care 11(2):183-189, 2009. PMID: 19472085.

Rughani A, Visionsi A, Hamill R, Tranmer B. *Subclavian Artery Stenosis Causing Transient Bilateral Brachial Diplegia.* Journal of Neurosurgery: Spine 9:191-195, 2008. PMID: 18764753.

Keezer M, **Rughani A**, Carrol M, Haas B. *Bicycle-helmet use and our Children's Safety*. Canadian Family Physician. 53: 1131-1132, 2007. PMID: 17872797.

ABSTRACTS & POSTER PRESENTATIONS

Rughani AI, Dumont TM, Ares W, Tranmer BI, Horgan MA. *Effect of Age and Medical Co-morbidities on In-hospital Complications Following Shunting for Normal Pressure Hydrocephalus*. Annual Meeting of the Congress of Neurological Surgeons. Washington D.C., October 1-6, 2011.

Hubbard ME, Jewell RP, Dumont TM, **Rughani AI**. *Patterns of Spinal Cord Injury Observed in Injured Skiers and Snowboarders*. Annual Meeting of the Congress of Neurological Surgeons. Washington D.C., October 1-6, 2011.

Dumont TM, **Rughani AI**. *National Trends in Carotid Artery Revascularization 1998 – 2008*. Annual Meeting of the Congress of Neurological Surgeons. Washington D.C., October 1-6, 2011.

Rughani AI, Ares WJ, Florman JE. *Safety and Early Efficacy of Silicated Calcium Phosphate in Posterior Cervical Spine Surgery*. American Association of Neurological Surgeons Annual Meeting. Denver, Colorado, April 9-13, 2011.

Rughani AI, Keen J, Tranmer BI, Florman JE. *Intracranial Hemorrhage Patterns Associated with Stereotactic Tumor Biopsy*. Annual Meeting of the Congress of Neurological Surgeons. San Francisco, CA, October 16-21, 2010.

Rughani AI, Desai R, Cushing D, Rintel T, Florman JE. *Establishment of an Awake Craniotomy Program in a Community Hospital Setting*. Annual Meeting of the Congress of Neurological Surgeons. San Francisco, CA, October 16-21, 2010.

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, CA, October 16-21, 2010.

Florman JE, Baldwin NG, Hsiang JN, Webb S, Youssef JA, **Rughani AI**. *Two Year Clinical and Radiographic Follow-up after Cervical Intervertebral Arthroplasty: Preliminary Data*. Annual Meeting of the Congress of Neurological Surgeons. San Francisco, CA, October 16-21, 2010.

Dumont TM, Goecks T, **Rughani AI**, Tranmer BI. *Subdural Hematoma Survival: Impact of Advanced Age and Surgery*. Annual Meeting of the Congress of Neurological Surgeons. San Francisco, CA, October 16-21, 2010.

Duprey J, **Rughani A**, Palminteri J, Dziodzio J, Lin C, McCrum B, Florman J, Seder D. *Burden of Coagulopathy in Spontaneous Intracerebral Hemorrhage: Three-year Experience at a Tertiary Referral Center*. Neurocritical Care Society Eighth Annual Meeting. San Francisco, CA, September 15-18, 2010.

Palminteri J, Duprey J, **Rughani A**, Tu C, Lin C, McCrum B, Seder D. *Effect of Hiring a Neurointensivist on Severity-adjusted ICH Mortality*. Neurocritical Care Society Eighth Annual Meeting. San Francisco, CA, September 15-18, 2010.

Rughani AI, Dumont TM, Wellman GC, Tranmer BI. *Reactive Gliosis Induced in a Murine Model of Subarachnoid Hemorrhage*. Annual Meeting of the Congress of Neurological Surgeons. New Orleans, LA, October 26, 2009.

Rughani AI, Lin C, Dumont TM, Penar PL, Horgan MA, Tranmer BI. *Subdural Evacuating Port System in the Treatment of Chronic Subdural Hematomas*. Annual Meeting of the Congress of Neurological Surgeons. New Orleans, LA, October 26, 2009.

Dumont TM, **Rughani AI**, Tranmer BI. *Prediction of Symptomatic Cerebral Vasospasm After Aneurysmal Subarachnoid Hemorrhage with an Artificial Neural Network: Feasibility and Comparison to Logistic Regression Models*. Annual Meeting of the Congress of Neurological Surgeons. New Orleans, LA, October 26, 2009.

Rughani A, Lu Z, Dumont T, Bongard J, Tranmer B. *Use of an Artificial Neural Network to Predict Head Injury Outcomes*. Congress of Neurological Surgeons, Annual Meeting, Orlando, Florida, September 19-25, 2008.

Dumont TM, **Rughani AI**, Silver J, Tranmer BI. *Diabetes Mellitus and Obesity are Independent Risk Factors of Symptomatic Cerebral Vasospasm in Aneurysmal Subarachnoid Hemorrhage Despite Adequate Glycemic Control*. Annual Meeting of the Congress of Neurological Surgeons. Orlando, FL, September 2008.

Lu Z, **Rughani A**, Tranmer B, Bongard J. *Informative sampling for large unbalanced data sets*. GECCO Atlanta, Georgia July 12 - 16, 2008.

Mohr CR, **Rughani A**, Hull, C, Bell CC. *Origins of Direct and Indirect Feedback to the Electrosensory Lobe from the Nucleus Preeminentialis in a Mormyrid Fish*. 31st Annual Meeting of the Society for Neuroscience, San Diego, California, November 10-15, 2001.

ORAL PRESENTATIONS

Rughani AI, Dumont TM, Lin C, Tranmer BI, Horgan MA. *Safety of Microvascular Decompression for Trigeminal Neuralgia in the Elderly*. Annual Meeting of the Congress of Neurological Surgeons. Washington D.C., October 1-6, 2011.

Dumont TM, **Rughani AI**. *Increased Morbidity in Teaching Hospitals After Introduction of the ACGME Work-hour Restriction After Elective Craniotomy for Meningioma*. Annual Meeting of the Congress of Neurological Surgeons. Washington D.C., October 1-6, 2011.

Rughani AI, Lin C, Ares W, Florman JE, Cushing D, Tranmer BI. *Helmet Use Reduces Skull Fractures in Skiers and Snowboarders*. American College of Surgeons Committee on Trauma, Regional Paper Competition. Boston, Massachusetts, November 8, 2010.

Rughani AI, Lin C, Ares W, Florman JE, Cushing D, Tranmer BI. *Helmet Use Reduces Skull Fractures in Skiers and Snowboarders*. American College of Surgeons Committee on Trauma, State Paper Competition. Burlington, Vermont, October 21, 2010.

Rughani AI, Lin C, Murray R, Tranmer BI. *A Cost-Benefit Analysis of Craniotomy Versus Burr Hole Treatment of Chronic Subdural Hematomas*. Annual Meeting of the New England Neurosurgical Society. Chatham, Massachusetts, June 19, 2010.

Ares W, **Rughani AI**, Florman JE. *An Early Evaluation of Silicated Calcium Phosphate in Posterior Cervical Spine Fusion*. Annual Meeting of the New England Neurosurgical Society. Chatham, Massachusetts, June 19, 2010.

Lin C, **Rughani AI**, Ares W, Florman JE, Cushing D, Tranmer BI. *Helmet Use Reduces Skull Fractures in Skiers and Snowboarders*. Annual Meeting of the New England Neurosurgical Society. Chatham, Massachusetts, June 19, 2010.

Rughani AI, Lin C, Murray R, Tranmer BI. *A Cost-Benefit Analysis of Craniotomy Versus Burr Hole Treatment of Chronic Subdural Hematomas*. Annual AANS Annual Meeting in Philadelphia, PA, May 4, 2010.

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, June 19, 2009 Portsmouth, NH, June 19, 2009.

Dumont TM, **Rughani AI**, Tranmer BI. *Prediction of Symptomatic Cerebral Vasospasm after Aneurysmal Subarachnoid Hemorrhage with an Artificial Neural Network: Feasibility and Comparison to Logistic Regression Models*. Annual Meeting of the New England Neurosurgical Society, June 19, 2009 Portsmouth, NH, June 19, 2009.

Rughani AI, Lin C, Dumont TM, Tranmer BI. *Mini-Craniotomy for Chronic Subdural Hematoma Reduces Recurrence Without Increased Risk Compared to Burr Hole*. Annual Meeting of the Congress of Neurological Surgeons. New Orleans, LA, October 26, 2009.

Rughani A, Lu Z, Dumont T, Bongard J, Tranmer B. *Use of an Artificial Neural Network to Predict Head Injury Outcomes*. Annual Meeting of the New England Neurosurgical Society, Chatham, Massachusetts, June 19, 2008.

Dumont TM, **Rughani AI**, Silver J, Tranmer BI. *Diabetes mellitus is an independent risk factor for development of symptomatic cerebral vasospasm following aneurysmal subarachnoid hemorrhage despite adequate glycemic control*. Annual Meeting of the New England Neurosurgical Society, Chatham, MA, June 19, 2008.

Rughani AI, Tranmer BI. *Outcome Prediction in Traumatic Brain Injury: Use of an Artificial Neural Network*. University of Vermont Neuroscience Grand Rounds. Burlington, VT, September 4, 2008.

Rughani AI, Tranmer BI. *Outcome Prediction in Traumatic Brain Injury: Use of an Artificial Neural Network*. American College of Surgeons Annual State Trauma Paper Competition, Burlington, VT, October 23, 2008.

Rughani AI, Tranmer BI. *Outcome Prediction in Traumatic Brain Injury: Use of an Artificial Neural Network*. American College of Surgeons Annual New England Region Trauma Paper Competition, Boston, MA, November 10, 2008.

AWARDS

- ▶ ACS Committee on Trauma 2010 Vermont State Paper Competition – Best Clinical Paper
- ▶ New England Neurosurgical Society 2010 Annual Meeting – Scoville Award in Clinical Research
- ▶ ACS Committee on Trauma 2008 Vermont State Paper Competition – Best Clinical Paper
- ▶ President’s Honour Roll, McGill University 1998/1999/2000/2001.
- ▶ Dean’s Honour List, McGill University 1997/1998/1999.

OTHER ACTIVITIES

- ▶ Council of State Neurosurgical Societies, *Socioeconomic Fellow*, 2010-2011.
- ▶ American Society for Stereotactic and Functional Neurosurgery, *Resident Member*, 2010-present
- ▶ eMedicine, *Contributor*, 2010-present.
- ▶ Neurosurgery, *Peer Reviewer*, 2010-present.
- ▶ Neurocritical Care, *Peer Reviewer*, 2009-present.
- ▶ Advanced Trauma Life Support, *Instructor*, 2007-present.
- ▶ FAHC Resident Representation Committee, 2007-present.
- ▶ American Association of Neurological Surgeons, *Resident Member*, 2006-present.
- ▶ Congress of Neurological Surgeons, *Resident Member*, 2006-present.
- ▶ University of Vermont, *Clinical Instructor in Surgery*, 2006-present.
- ▶ Canadian Medical Association Journal, *Peer Reviewer*, 2005-2008.
- ▶ McGill University Undergraduate Medical Education Committee, 2004-2006.
- ▶ Principal’s Advisory Committee to Select McGill Dean of Medicine, 2004-2005.
- ▶ McGill Journal of Medicine, *Senior Editor*, 2002-2006.