

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

Date Prepared: November, 2008

Name (complete with degrees): Gavin Wayne Britz MBBCh, MPH, FACS

Primary academic appointment (department): Surgery/ Neurosurgery

Medical licenses:

Date of License (Month/Day/Year):

- : South Africa - MP 32593, January 1989 (expired)
- : Saskatchewan - 203103 - November 1990 (expired)
- : Manitoba - 14-038 - December 1991 (expired)
- : General Medical Council, London, England - 4497350 - April 1998 (expired)
- : Washington State Department of Health (MD00037874) (Active)
- : North Carolina License - 141295

Specialty certification(s) and dates (Month/Day/Year): Board Certified, Neurological Surgery, 2007

Education:	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	St Conrads High School Klerksdorp, South Africa	1982	
College / University	University of Witwatersrand	1982 – 1987	MBBCh
Graduate School	University of Washington	2003	MPH

Scholarly societies (Alpha Omega Alpha, Sigma Xi, Phi Beta Kappa, etc.):

American Association of Neurological Surgeons	April 1995–Present
American Epilepsy Society	January 1996–1998
American Medical Association	Sept. 2000–Present
American Society of Neuroradiology	October 2003–Present
Congress of Neurological Surgeons	January 1996–Present
Johns Hopkins Medical and Surgical Association	January 1993–Present
Medical Outcomes Trust	1998–1999
North American Skull Base Society	May 1999–Present
South African Research Society	1989

Professional training and academic career (chronologically commencing with first postdoctoral position):

1. **University of Witwatersrand, South Africa**
 January – December 1988
 January 1989 – May 1990
 Medical / Surgical Intern
 Surgical Registrar
2. **Leratong Hospital, Johannesburg, South Africa**
 June to October 1990
 Locum Tenes
3. **Leader Hospital, Leader, Saskatchewan Canada**
 Novemeber 1990 to April 1991
 Private practice
4. **Parkside, Johannesburg**
 May to November 1991
 Surgical assistend
5. **Whitemouth Medical Center, Whitemouth, Manitoba, Canada**
 December 1991 to June 1992
 Private Practice
6. **Johns Hopkins Hospital, Baltimore**
 July 1992 – June 1993
 Surgical Internship
7. **University of Washington, Seattle**
 July 1993 – June 2002
 Resident
 July 1999 – June 2000
 Chief Resident / Acting Instructor
8. **Atkinson Morley’s Hospital, St. George’s Medical School, The University of London**
 July 1998 – December 1998
 Registrar
 January 1999 – June 1999
 Senior Registrar
9. **University of Washington, Seattle**
 July 2000 – June. 2002
 Cerebrovascular Fellow
 January 2001 – January 2002
 Neuroradiology Fellow
 January 2002 – January 2003
 Interventional Neuroradiology Fellowship
 July 2002 to June 2003
 Acting Assistant Professor, Neurosurgery and Radiology
 February 2003 to date
 Director, Endovascular Neurosurgery
 Harborview Medical Center
 Seattle, WA
 July 2003 to June 2007
 Assistant Professor,
 Neurosurgery and Radiology
 October 2003 to December 3rd 2007
 Imaging Council, Harborview Medical Center, University of Washington
 February 2005 to December 3rd 2007
 Co-Director, Cerebrovascular Surgery
 Harborview Medical Center
 Seattle, WA
 April 2005 to December 3rd 2007
 Co-Director, Neurological Surgery Unit
 Harborview Medical Center, Seattle, WA
 September 2005 – 2007
 Medical School Admissions Committee,
 July 2007 to December 2007
 Associate
 Professor, Neurosurgery and Radiology
10. **Duke University, Durham, NC**
 December 3rd 2007 – present
 Assistant Professor of Surgery
 Director, Cerebrovascular Center

Publications:

1. Refereed journals: (Refereed journals are scientific publications that have active editorial boards and a system of critical review of all submissions for publication.)

1. **Britz GW**, Haynor D, Kuntz C, Goodkin R, Gitter A, Kliot M: Carpal tunnel syndrome: correlation of magnetic resonance imaging, clinical electrodiagnostic, and intraoperative findings. *Neurosurgery* 37(6):1097-103, 1995.
2. **Britz GW**, Haynor D, Kuntz C, Goodkin R, Gitter A, Maravilla K, Kliot M: Ulnar nerve entrapment at the elbow: correlation of magnetic resonance imaging, clinical, electrodiagnostic and intraoperative findings. *Neurosurgery* 38(3):458-65, 1996.
3. **Britz GW**, Kim DK, Loeser JD: Hydrocephalus secondary to diffuse villous hyperplasia of the choroid plexus: Case report and review of the literature. *J Neurosurgery* 85:689-91, 1996
4. Kuntz C, Blake L, Filler A, **Britz GW**, Goodkin R, Tsuruda J, Kliot M: Magnetic resonance imaging of peripheral nerve lesions in the lower extremity. *Neurosurgery* 39:750-57, 1996.
5. Baxter AB, Nevitt AW, **Britz GW**: Cerebral infarct in a victim of vehicular polytrauma. *Am J Roentgenoy* 170(2):506, 1998.
6. **Britz GW**, Avellino AM, Schaller R, Loeser JD: Percutaneous placement of ventriculoatrial shunts in the pediatric population. *Pediatr Neurosurg* 29(3):161-3, 1998.
7. **Britz GW**, Kim DK, Mayberg MR: Traumatic leptomenigeal cyst in an adult: a case report and review of the literature. *Surg Neurol* 50(5):465-9, 1998.
8. Avellino AM, **Britz GW**, McDowell JR, Shaw DW, Ellenbogen RG, Roberts TS: Spontaneous resolution of a cervicothoracic syrinx in a child. Case report and review of the literature. *Pediatr Neurosurg* 30(1): 43-6, 1999.
9. McCall TD, Grant GA, **Britz GW**, Goodkin R, Kliot M: Treatment of recurrent peripheral nerve entrapment problems: Role of scar formation and its possible treatment. *Neurosurg Clin N Am* 12(2):329-39, 2001.
10. Srinivasan J, **Britz GW**, Newell DW: Cerebral revascularization for moyamoya disease in adults. *Neurosurg Clin N Am* 12(3):585-94, 2001.
11. Srinivasan J, Ellenbogen RG, **Britz GW**, Newell DW: Techniques for cerebral bypass: practical laboratory for microvascular anastomosis. *Neurosurg Clin N Am* 12:509-17, 2001.
12. **Britz GW**, Ghatan S, Spence AM, Berger MS: Intracarotid RMP-7 enhanced indocyanine green staining of tumors in a rat glioma model. *J Neurooncol* 56:227-32, 2002.
13. **Britz GW**, Vile M, Futran N, Rostomily R: Cosmetic concerns in posterior fossa skull base surgery. *Neurosurg Clin N Am* 13(4):475-89, 2002.
14. Edwards RJ, **Britz GW**, Critchley GA. Spontaneous resolution of an acute subdural haematoma. *Br J Neurosurg* 16(6):609-10, 2002.
15. Edwards RJ, **Britz GW**, Johnston FG: Fatal instability following "odontoid sparing" transoral decompression of a periodontoid pseudotumour. *J Neurol Neurosurg Psychiatry* 73:756-8, 2002.

16. Grant GA, **Britz GW**, Goodkin R, Jarvik JG, Maravilla K, Kliot M. The utility of magnetic resonance imaging in evaluating peripheral nerve disorders. *Muscle Nerve* 25(3):314-31, 2002.
17. Scroop R, Eskridge J, **Britz GW**. Paradoxical cerebral arterial embolization of cement during intraoperative vertebroplasty: case report. *Am J Neuroradiol* 23(5):868-70, 2002.
18. Winn HR, Jane JA Sr, Taylor J, Kaiser D, **Britz GW**. Prevalence of asymptomatic incidental aneurysms: review of 4568 arteriograms. *J Neurosurg* 96:43-49, 2002.
19. Edwards R, **Britz GW**, Marsh H. Chronic headaches due to occult hydrocephalus. *J R Soc Med* 96(2):77-8, 2003.
20. **Britz GW**, Lazar D, Eskridge J, Winn HR. Accurate intraoperative localization of spinal dural arteriovenous fistulae with embolization coil: technical note. *Neurosurgery* 55(1):252-5, 2004.
21. **Britz GW**, Salem L, Newell DW, Eskridge J, Flum DR. Impact of surgical clipping on survival in unruptured and ruptured cerebral aneurysms: a population-based study. *Stroke* 35(6):1399-1403, 2004.
22. Sviri GE, Lewis DH, Correa R, **Britz GW**, Douville CM, Newell DW. Basilar artery vasospasm and delayed posterior circulation ischemia after aneurysmal subarachnoid hemorrhage. *Stroke* 35(8):1867-72, 2004.
23. **Britz GW**. Clipping or coiling of cerebral aneurysms. *Neurosurg Clin N Am* 16(3):475-85, 2005.
24. Meno JR, Nguyen TS, Jensen EM, West GA, Groysman L, Kung DK, Ngai AC, **Britz GW**, Winn HR. Effect of caffeine on cerebral blood flow response to somatosensory stimulation. *J Cereb Blood Flow Metab* 25(6):775-84, 2005.
25. Nemecek AN, Ellenbogen RG, **Britz GW**. Vertex epidural hematoma. *Pediatr Neurosurg* 41(3):170-2, 2005.
26. Ozawa T, **Britz GW**, Kinder DH, Spence AM, VandenBerg S, Lamborn KR, Deen DF, Berger MS. Bromophenol blue staining of tumors in a rat glioma model. *Neurosurgery* 57(5):1041-7, 2005.
27. Sviri GE, **Britz GW**, Lewis DH, Ghodke B, Mesiwala AH, Haynor DH, Newell DW. Brainstem hypoperfusion in severe symptomatic vasospasm following aneurysmal subarachnoid hemorrhage: role of basilar artery vasospasm. *Acta Neurochir (Wien)* 148(9):929-35, 2006.
28. Sviri GE, **Britz GW**, Lewis DH, Newell DW, Zaaroor M, Cohen W. Dynamic perfusion computed tomography in the diagnosis of cerebral vasospasm. *Neurosurgery* 59(2):319-25; discussion 319-25, 2006.
29. Sviri GE, Ghodke B, **Britz GW**, Douville CM, Haynor DR, Mesiwala AH, Lam AM, Newell DW. Transcranial Doppler grading criteria for basilar artery vasospasm. *Neurosurgery* 59(2):360-6; discussion 360-6, 2006.
30. Sviri GE, Mesiwala AH, Lewis DH, **Britz GW**, Nemecek A, Newell DW, Lam A, Cohen W. Dynamic perfusion computerized tomography in cerebral vasospasm following aneurysmal subarachnoid hemorrhage: a comparison with technetium-99m-labeled ethyl cysteinate dimer-singel-photon emission computerized tomography. *J Neurosurg* 104(3):404-10, 2006.
31. Sviri GE, Newell DW, Lewis DH, Douville C, Ghodke B, Chowdhary M, Lam A, Haynor D, Zaaroor M, **Britz GW**: Impact of basilar artery vasospasm on outcome in patients with severe

- cerebral vasospasm after aneurysmal subarachnoid hemorrhage. *Stroke*. 2006 Nov;37(11):2738-43.
32. Nemeck A, Ghodke B, Sviri GE, Newell DW, Ellenbogen RG, **Britz GW**. Dissecting aneurysm of the thoracic posterior spinal artery. *J Neurosurg Spine*. 2006 Dec;5(6):555.
 33. Ngai AC, Nguyen TS, Meno JR, **Britz GW**. Postischemic Augmentation of Conducted Dilatation in Cerebral Arterioles. *Stroke*. 2007 Jan;38(1):124-30
 34. Temkin NR, Anderson GD, Winn HR, Ellenbogen RG, **Britz GW**, Schuster J, Lucas T, Newell DW, Mansfield PN, Machamer JE, Barber J, and Dikmen SS: Magnesium sulfate for neuroprotection after traumatic brain injury: a randomized trial. *Lancet Neurol*. 2007 Jan;6(1):29-38.
 35. Mohit AA, Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B. High-flow bypass grafts in the management of complex intracranial aneurysms. *Neurosurgery*. 2007 Feb;60(2 Suppl 1):ONS105-22; discussion ONS122-3.
 36. **Britz GW**, Meno JR, Park IS, Abel TJ, Chowdhary A, Nguyen TS, Winn HR, Ngai AC. Time-dependent alterations in functional and pharmacological arteriolar reactivity after subarachnoid hemorrhage. *Stroke*. 2007 Apr;38(4):1329-35.
 37. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B. Microsurgical management of anterior communicating artery aneurysms. *Neurosurgery*. 2007 Nov;61(5 Suppl 2):273-90: discussion 290-2.
 38. Rozet I, Tontisirin N, Muangman S, Vavilala MS, Souter MJ, Lee LA, Kincaid MS, **Britz GW**, Lam AM. Effect of equiosmolar solutions of mannitol versus hypertonic saline on intraoperative brain relaxation and electrolyte balance. *Anesthesiology*. 2007 Nov;107(5):697-704.
 39. Manning TC, Hallam D, **Britz GW**. Survival with good outcome after traversing brainstem injury: case report. *Neurosurgery*. 2008 Mar;62(3):E749; discussion E749
 40. Lipson AC, Foltz G, West GA, Newell D, **Britz GW**. Late de novo basilar aneurysm after carotid artery injury: case illustration. *J Neurosurg*. 2008 Mar;108(3):607.
 41. Mesiwala AH, Sviri G, Fatemi N, **Britz GW**, Newell DW. Long-term outcome of superficial temporal artery-middle cerebral artery bypass for patients with moyamoya disease in the US. *Neurosurg Focus*. 2008;24(2):E15.
 42. Natarajan SK, Sekhar LN, Ghodke B, **Britz GW**, Bhagawati D, Temkin N. Outcomes of ruptured intracranial aneurysms treated by microsurgical clipping and endovascular coiling in a high-volume center. *AJNR Am J Neuroradiol*. 2008 Apr;29(4):753-9.
 43. Manning TC, Hallam D, **Britz GW**. Survival with good outcome after traversing brainstem injury: case report. *Neurosurgery*. 2008 Mar;62(3):E749; discussion E749.
 44. Park IS, Meno JR, Witt CE, Suttle TK, Chowdhary A, Nguyen TS, Ngai AC, **Britz GW**. Subarachnoid hemorrhage model in the rat: modification of the endovascular filament model. *J Neurosci Methods*. 2008 Jul 30;172(2):195-200.
 45. Natarajan SK, Ghodke B, **Britz GW**, Born DE, Sekhar LN. Multimodality treatment of brain arteriovenous malformations with microsurgery after embolization with onyx: single-center experience and technical nuances. *Neurosurgery*. 2008 Jun;62(6):1213-25; discussion 1225-6.

Refereed journals: (In Press)

1. Gabikian P, Kott B, Ghodke R, **Britz GW**. Isolated, superior orbital fissure syndrome from a gunshot wound to the eye. (In press *Radiology*)

Refereed journals: (Submitted)

1. Natarajan SK, Born D, Ghodke B, **Britz GW**, Sekhar LN. Histopathological Changes in Brain AVMs after Embolization with Onyx or NBCA. (*J Neurosurg*).
2. **Britz GW**, Park IS, Meno JR, Witt C, Chowdhary A, Nguyen TS, Winn HR, Ngai AC. Impairment of Intracerebral arteriole dilatation responses after Subarachnoid Hemorrhage. (*Stroke*)

2. Non-refereed publications: (Non-refereed publications are those that frequently solicit articles and do not routinely use a system of critical review prior to publication.)

1. Gabikian P, Chowdhary A, **Britz GW**: Unruptured Cerebral Aneurysm. (*Medlink*)

3. Major invited lectures (since November 1992)

08/08/01 Johannesburg, South Africa	Modern Management of Cerebral Aneurysms, Johannesburg General Hospital
11/08/01 Seattle, WA	Interventional Neuroradiology Demystified. Advanced ICU Workshop, University of Washington, Harborview Research & Training Building
03/16/02 Mercer Island, WA	Introduction to Interventional Neuroradiology, Mensa Society
04/02/02 Seattle, WA	Traumatic Neurovascular Injuries, WWAMI, 13th Annual Trauma Conference
08/28/02 Seattle, WA	Clip versus Coil: What is the Data? Neurological Surgery Grand Rounds, University of Washington
09/26/02 New York, NY	Clip versus Coil: My Current Practice Based on the Data, Neurological Surgery Grand Rounds, Columbia University
01/26/04 Seattle, WA	Review of Endovascular Devices; UWEB Short Course University of Washington
01/26/04 Seattle, WA	Differential response of Intracranial to Extracranial Stenting, UWEB Short Course, University of Washington
01/29/04 Seattle, WA	Restenosis, UWEB Short Course, University of Washington
03/25/04 Seattle, WA	Acute Management of Head Injuries. Physical Medicine and Rehabilitation Review Course, University of Washington
10/27/05	Modern Management of Cerebral Aneurysms; Neurology Grand

Seattle, WA	Rounds, University of Washington
01/09/06 Seattle, WA	Management of Cerebral Aneurysms; Rehabilitation Grand Rounds, University of Washington
05/06/06 Seattle, WA	Importance of Cerebral Arterioles Following SAH; Washington State Association of Neurological Surgeons Annual Meeting.
5/19/06 Seattle, WA	Endovascular Surgery for Aneurysms and Vascular Malformations. Brain and Spine Emergencies, University of Washington.
02/07	Management of Cavernous Malformations, Mayfield Winter Clinics, Snowmass, Colorado, 2007
3/24/07 Seattle, WA	Management of Intracranial Hemorrhages UW, Advances in Stroke and Cerebrovascular Disease Management Course.
3/24/07 Seattle, WA	Clip vs Coil of Cerebral Aneurysms. UW, Advances in Stroke and Cerebrovascular Disease Management Course.
3/24/07 Seattle, WA	Management of Unruptured Cerebral Aneurysms UW, Advances in Stroke and Cerebrovascular Disease Management Course.
4/27/07 Seattle, WA	Management of Head Injuries UW, Rehabilitation Course
02/08	Carotid Endarterectomy vs Carotid Stenting, Mayfield Winter Clinics, Snowmass, Colorado, 2008
06/06/2008	Treatment of Giant Aneurysms SNIS Practicum Meeting, New Orleans, 2008

4. Chapters in books:

1. **Britz GW**, Dailey AT, West GA, Kuntz C, Grant G, Filler AG, Tsuruda, JT, Goodkin R, Haynor DR, Maravilla K, Kliot M: "Magnetic Resonance Imaging in Evaluating and Treating Peripheral Nerve Disorders." In: *Perspectives in Neurological Surgery*, 6 (2). Ed. Mark N. Hadley, 1995.
2. **Britz GW**, Mayberg MR: "Pathology of Cerebral Aneurysms and Subarachnoid Hemorrhage." In: *Primer on Cerebrovascular disease*. Ed. KMA Welch, LR Caplan, DJ Reis, BK Siesjo and B Weir. Academic Press, 1997.
3. **Britz GW**, Kliot M: "Peripheral Nerve Tumors." In: *Principles of Neurosurgery*, 2nd Ed. Editors: Robert G. Grossman, Christopher M. Loftus MD, 1998.

4. **Britz GW**, Johnston F: “Craniofacial Approaches to Anterior Skull Base Tumors.” In: *Operatives Neurosurgical Techniques. Indications, Methods, and Results*. Fourth Edition. Editors. Henry H. Schmidek and William H. Sweet, 2000.
5. **Britz GW**, Kliot M: “Peripheral Nerve Tumors.” In: *Tumors of the Pediatric Central Nervous System. Current Diagnosis, Management and Future Perspectives*. Editors: Robert F. Keating, James T. Goodrich, Roger Packer. Thieme New York, 2001.
6. **Britz GW**: “Natural History of Cerebral Aneurysms”. In: *Cerebrovascular Surgery*. Editors. H. Richard Winn, Peter Le Roux, 2003.
7. **Britz GW**, Eskridge J: “Endovascular Treatment of Spinal Vascular Malformations” In: *Yeomans Neurological Surgery*, Fifth Edition, p. 2363-2373. Editor H. Richard Winn, 2003.
8. **Britz GW**, Newell DW, West GA, Winn HR: “Traumatic Intracranial aneurysms.” In: *Yeomans Neurological Surgery*, Fifth Edition, p. 2131-2135. Editor H. Richard Winn, 2003.
9. **Britz GW**, Winn HR: “Natural History of Cerebral Aneurysms” pg1781-1791. In: *Yeomans Neurological Surgery*, Fifth Edition. Editor H. Richard Winn, 2003.
10. Grant GA, **Britz GW**, Goodkin R, Jarvik J, Maravilla K, Kliot M. “MRI for Peripheral Nerve Disorders.” In: *Yeomans Neurological Surgery*, Fifth Edition, p. 3873-3888. Editor H. Richard Winn, 2003.
11. Le Roux PD, **Britz GW**, Winn HR: “Aneurysms: Surgery.” Pg 178-87. In: *Encyclopedia of Neurological Sciences*. Editors. Michael J. Aminoff, and Robert B. Daroff. Academic Press, 2003.
12. Scroop R, **Britz GW**, West GA, Eskridge J: “Endovascular Therapy for Vasospasm Associated with Subarachnoid Hemorrhage.” In: *Cerebrovascular Surgery*. Editors H. Richard Winn, Peter Le Roux, 2003.
13. **Britz GW**, McCall TD, Kliot M. “Peripheral and Cranial Nerves: Surgical Management of Peripheral Nerve Injury & Entrapment.” In: *International Neurosurgical Practice* (Springer Verlag). U.S. Editor: David W. Newell, U.K. Editor: Anne Moore, 2004.
14. Vilela M, **Britz GW**, Rostomily RC: Cerebellopontine angle tumors, in Rengachary R, Ellenbogen R (eds): *Principles of Neurosurgery*. Philadelphia, Elsevier Mosby, pp 521-531, 2004.
15. **Britz GW**, Alex Mohit MD, Johnston F: “Craniofacial Approaches to Anterior Skull Base Tumors.” In: *Operative Neurosurgical Techniques. Indications, Methods, and Results*. Fifth Edition. Editors. Henry H. Schmidek and David W. Roberts, pp 267-274, 2006.
16. **Britz GW**, Lam A. “Surgical Management of ICH.” In: *Scientific Methods and Approaches in Stroke Research: From Laboratory to Patient Care*. Editor Anish Bhardwaj, 2006.
17. Mesiwala A, Newell DW, **Britz GW**. “The surgical management of moyo-moya disease in adults.” In: *Operative Neurosurgical Techniques. Indications, Methods, and Results*. Fifth Edition. Editors. Henry H. Schmidek and David W. Roberts, pp1075-1083, 2006
18. Sekhar LN, Natarajan SK, **Britz GW** Ghodke B. Bypass and Vascular Reconstruction for Anterior Circulation Aneurysms in Samii’s *Essentials in Neurosurgery*. Heidelberg, Springer-Verlag, Berlin, Inc, 2008, pp 329-352.

19. Sekhar LN, Natarajan SK, **Britz GW** Ghodke B. Bypass and Vascular Reconstruction for Posterior Circulation Aneurysms in Samii's Essentials in Neurosurgery. Heidelberg, Springer-Verlag, Berlin, Inc, 2008, pp 353-374.

Chapters in books: (In press)

1. Ko Andrew, **Britz GW**. Anterior Communicating Artery Aneurysms. In Fundamentals of Operative Technique in Neurosurgery, end Edition. Eds. Connolly, McKhann, Huang, Choudri and Mocco. (In press)
2. **Britz GW**, Chowdary A, Natarajan SK, Lam A,: Cardiac arrest for cerebral aneurysms. Ed. Loch McDonald (In Press)
3. Sekhar LN, Natarajan SK, **Britz GW** Ghodke B: Aneurysms of the Intracavernous ICA: Present Treatment .(Dolenc VV, Cavernous Sinus, in press)
4. Sekhar LN, Natarajan SK, **Britz GW** Ghodke B. Bypasses for Cavernous Sinus Tumors: History, techniques, and present status. .(Dolenc VV, Cavernous Sinus, in press)

7. Other: a. Published scientific reviews (for mass distribution)

b. Selected abstracts

1. **Britz GW**, Goodkin R, Haynor D, Gitter A, Kliot M: Carpal Tunnel Syndrome: Correlation of MRI and Electrodiagnostic Findings. American Association of Neurological Surgeons, San Diego, CA, April 9-14, 1994.
2. **Britz GW**, Haynor DR, Kuntz C, Goodkin R, Gitter A, Maravilla K, Kliot M: Ulnar nerve entrapment at the elbow: Correlation of MRI, clinical, electrodiagnostic and intraoperative findings. Congress of Neurological Surgeons, San Francisco, CA, October 14-19, 1995.
3. Grant GA, **Britz GW**, Slimp J, Goodkin R, Haynor D, Robertson B, Kuntz C, Filler AG, Kliot M: Use of magnetic resonance neurography, with preoperative and Intraoperative electrophysiological monitoring in evaluating peripheral nerve lesions. Congress of Neurological Surgeons, San Francisco, CA, October 14-19, 1995.
4. Haynor DR, **Britz GW**, Kliot M: MR findings in surgical proven ulnar nerve entrapment. Report of 25 cases. Radiological Society of North America, November 1995.
5. **Britz GW**, Ghatan S, Spence AM, Berger MS: Enhancement of the indocyanine green staining of brain tumors, using RMP-7 in a rat glioma model. American Association of Neurological Surgeons, April 27- May 5, 1996.
6. **Britz GW**, Spence AM, Berger MS: Bromophenol blue staining of tumors in a rat glioma model, enhanced with RMP -7. Congress of Neurological Surgeons, Montreal, Canada, 1996.
7. Grant GA, **Britz GW**, Slimp J, Goodkin R, Haynor DR, Robertson B, Kuntz C, Filler AG, Kliot M: Deleterious effects of extraneural scar. Congress of Neurological Surgeons, Montreal, Canada, 1996.
8. **Britz GW**, Haynor DR, Kuntz C, Goodkin R, Gitter A, Maravilla K, Kliot M: Ulnar nerve entrapment at the elbow: Correlation of MRI, clinical, electrodiagnostic and intraoperative findings. Orthopedic Year Book, Mosby, 1997.

9. **Britz GW**, Avellino AM, Schaller R, Loeser JD: The percutaneous placement of ventriculoatrial shunts in the pediatric population. Congress of Neurological Surgeons, Seattle, WA 1998.
10. **Britz GW**, Edwards RJ, Archer DJ, Moore A: Complications and Results of The Le Fort 1 osteotomy in the management of midline skull base tumors at Atkinson Morley's Hospital - A 14-year experience. Congress of Neurological Surgeons, Boston, MA, 1998.
11. Edwards R, **Britz GW**, Marsh H: Endoscopic third ventriculostomy for the management of chronic headaches in patients with ventriculomegaly. Congress of Neurological Surgeons, Boston, MA, 1998.
12. **Britz GW**, Edwards RJ, Archer DJ, Moore A: Indications for a Le Fort 1 osteotomy in the management of midline skull base tumors - A 14-year experience at Atkinson Morley's Hospital. Fourth European Skull Base Society Congress, Nuremberg, Germany, May 19-22, 1999.
13. **Britz GW**, Haynor D, Jarvik J, Kliot M: MRI in the diagnosis of ulnar nerve entrapment at the elbow. UK Radiological Congress, London, UK, May 22, 2001.
14. Nemecek A, **Britz GW**, Winn HR, West GA: Intra-arterial Injection of nicardipine for the treatment of cerebral vasospasm. American Association of Neurological Surgeons, Toronto, Canada, April 2001.
15. **Britz GW**, Foltz G, Elias M, Futran N, Elias P, Flotte T, Mortini P, Rostomily R: The use of cDNA microarray technology to profile gene expression patterns in dedifferentiated chordomas. North American Skull Base Society, San Diego, CA, February 13-15, 2002.
16. **Britz GW**, Eskridge J: Carotid Angioplasty and Stenting for Radiation Induced Stenosis. American Association of Neurological Surgeons, San Diego, CA, April 26-May 1, 2003.
17. **Britz GW**, Eskridge J: Traumatic injuries of the carotid artery treated with endovascular stents. (Joint Meeting AANS / CNS Section on Cerebrovascular Surgery and American Society of Interventional and Therapeutic Neuroradiology, Phoenix, AZ, February 16-19, 2003.
18. **Britz GW**, Eskridge J: Vertebral artery stenting for symptomatic atherosclerotic vertebral artery stenosis. American Association of Neurological Surgeons, San Diego, CA, April 26-May 1st, 2003.
19. **Britz GW**, Foltz G, Lipson A, Eskridge J, Newell DW. Formation of a basilar tip aneurysm following bilateral carotid occlusions. American Association of Neurological Surgeons, San Diego, CA, April 26-May 1, 2003
20. **Britz GW**. Long-term outcome of aneurysms treated in the State of Washington. Washington Association of Neurological Surgeons. May 15th, Seattle, WA, 2004
21. **Britz GW**, Reiner A, Newell DW, Lam A, Eskridge J, Flum D: Long-term population-based survival analysis of ruptured cerebral aneurysms patients treated with surgical clipping in the State of Washington, during the period 1987-2001. AANS Meeting, April 2004. (Plenary session)
22. **Britz GW**, Reiner A, Newell DW, Lam A, Eskridge J, Flum D: Long term population-based survival analysis of unruptured cerebral aneurysms patients treated with surgical clipping in the State of Washington, during the period 1987-2001. AANS/CNS Cerebrovascular Section, and ASITN Meeting, February, 2004. (Plenary session)
23. **Britz GW**; Salem L, Newell DW, Eskridge J, Flum D: The impact of surgical clipping in unruptured and ruptured cerebral aneurysms. CNS, October 2004.

24. Newell DW, Mesiwala AH, Sviri G, **Britz GW**, Lam A. Adenosine-induced Circulatory Arrest for the Surgical Treatment of Vertebrobasilar Aneurysms. Western Neurosurgical Society San Diego, CA, September 11-14, 2004.
25. Lewis DH, Sviri G, Cohen , **Britz GW**, Newell DW. CT Perfusion and SPECT Perfusion in Vasospasm after Subarachnoid Hemorrhage. Society of Nuclear Medicine, Toronto, June 18-22, 2005.
26. Meno JR, Nguyen T-S, Jensen EM, West GA, Groysman L, Kung D, Ngai AC, **Britz GW** and Winn HR: Effects of caffeine and theophylline on cerebral blood flow response to brain activation: in vitro and in vivo studies. XXIInd International Symposium on Cerebral Blood Flow, Metabolism, and Function & VIIth International Conference on Quantification of Brain Function with PET. Brain 05, Amsterdam, June 2005. *J Cere. Blood Flow Metab* 25: S204, 2005.
27. Nemecek AN., **Britz GW**, Solko A, Newell DW, Rostomily RC: Heparin-induced thrombocytopenia in neurosurgical patients. AANS Meeting, New Orleans, LA, April 2005.
28. Ngai AC, Iliff J, **Britz GW**, and Winn HR: Role of gap junctional communication in pial arteriole dilation during somatosensory stimulation. XXII International Symposium on Cerebral Blood Flow, Metabolism, and Function & VII International Conference on Quantification of Brain Function with PET Brain 05, Amsterdam, June 2005. . *J. Cereb. Blood Flow Metab.* 25: S204, 2005.
29. Ngai, A.C., T-S. K. Nguyen, J.R. Meno, and **Britz GW**. Effects of focal cerebral ischemia on intracerebral arteriole reactivity in rats. FASEB J. 19: A1251, San Diego, CA, April 2005.
30. Souter MJ, **Britz GW**, Kincaid MS, Ghodke B, Lam A: The radiographic validity of transcranial doppler cerebral blood flow velocity measurement. American Society of Anesthesiology, New Orleans, LA, October 22-26, 2005.
31. Sviri GE, Ghodke B, Mesiwala AH, **Britz GW**, Douville CM, Haynor DR, Lam A, Newel DW: Transcranial doppler grading criteria for basilar artery vasospasm. AANS Meeting, New Orleans, LA, April 2005.
32. Sviri GE, Mesiwala AH, Lewis DH, **Britz GW**, Lam A, Cohen W, Newell DW: Dynamic perfusion CT in cerebral vasospasm following aneurysmal subarachnoid hemorrhage: a comparative study with 99mTc ECD-SPECT imaging. AANS-CNS Joint Cerebrovascular Section Meeting, New Orleans, LA, February 1-4, 2005.
33. Temkin NR, Anderson GD, Winn HR, **Britz G**, Schuster J, Lucas T, Newell DW, Nelson P, Machamer J, Barber J, Dikmen SS. Magnesium Sulfate for neuroprotection after traumatic brain injury. National Neurotrauma Society, Washington DC, November 10-11, 2005.
34. Celix J, Natarajan SK, Ojemann J, **Britz GW**. Enhanced Surgical Removal of Eloquent Cortex Avms with the Use of Onyx During Preoperative Embolization. Technical Case Report., in AANS Annual Meeting, Washington, DC, 2006.
35. Chowdhary A, Meno JR, Park I, Nguyen TS, Winn HR, Ngai AC, **Britz GW**. Attenuation of cerebral arteriolar response to somatosensory stimulation after subarachnoid hemorrhage. AANS/CNS Cerebrovascular Section & American Society of Interventional & Therapeutic Neuroradiology Meeting, Top 10 Poster Presentation. Orlando, FL , February 17 - 20, 2006.

36. Chowdhary A, Meno JR, Park I, Nguyen TS, Winn HR, Ngai AC, **Britz GW**. Effects of subarachnoid hemorrhage on cerebral arteriolar response to somatosensory stimulation. AANS, April 22-27, 2006, San Francisco, CA.
37. Dayoub H, Gabikian P, Ghodke B, **Britz GW**. Delayed coil migration causing stroke after endovascular coiling of ruptured cerebral aneurysm: Case report. AANS/CNS Section on Cerebrovascular Surgery and American Society of Interventional and Therapeutic Neuroradiology, February 17 - 20, 2006, Orlando, FL.
38. Gabikian P, Chowdhary A, Lam AM, **Britz GW**. Paradoxical cerebral emboli as a result of hepatopulmonary syndrome: Case report. AANS/CNS Cerebrovascular Section & American Society of Interventional & Therapeutic Neuroradiology Meeting. February 17 - 20, 2006, Orlando, FL
39. Gabikian P, Tzortzidis F, Winn HR, **Britz GW**. Delayed thrombosis of ruptured basilar tip aneurysm in the setting of heparin-induced thrombocytopenia. AANS/CNS Section on Cerebrovascular Surgery and American Society of Interventional and Therapeutic Neuroradiology, Orlando, FL, February 17 - 20, 2006.
40. Gabikian P, Linnau KF, Khorasani L, Mesiwala AH, Lee CC, **Britz, GW** Hollingworth W, Blackmore C. Risk of posterior circulation stroke following cervical spine trauma. CNS, October 7-12, 2006. Chicago.
41. Kott BR, Gabikian P, Sekhar LN, Eskridge JM, Chowdhary A, Ghodke B, **Britz GW**. Long-term follow-up of traumatic injuries of the extracranial carotid artery treated with endovascular stents. AANS/CNS Cerebrovascular Section & American Society of Interventional & Therapeutic Neuroradiology Meeting. Orlando, FL, February 17 - 20, 2006.
42. Chowdhary AM, Meno JR, Park I, Nguyen TS, Winn HR, Ngai AC, **Britz GW**. Attenuation of Cerebral Arteriolar Response to Somatosensory Stimulation after Subarachnoid Hemorrhage., in AANS/CNS Cerebrovascular Section and American Society of Interventional and Therapeutic Neuroradiology Meeting Top 10 Poster Presentation. Orlando, FL, February 18, 2006.
43. Chowdhary AM, Meno JR, Park I, Nguyen TS, Winn HR, Ngai AC, **Britz GW**. Effects of Subarachnoid Hemorrhage on Cerebral Arteriolar Response to Somatosensory Stimulation, in AANS Annual Meeting Poster Presentation. San Francisco, CA , April 2006.
44. Meno JR, Park IL, Abel TJ, Chowdhary A, Nguyen TK, Winn HR, Ngai AC, **Britz GW**. Cerebral Arteriolar Response to Neuronal Activation is Attenuated Following SAH. 8TH International Symposium on Adenosine and Adenine Nucleotides, University degli Study di Ferrara, Italy May 24-28, 2006.
45. Ngai AC, Nguyen T-S, Meno JR, **Britz GW**: Effects of middle cerebral artery occlusion on the conduction of vasomotor responses along rat cerebral arterioles. *FASEB J* 20:A276, 2006.
46. Park IL, Chowdhary A, Meno JR, , Abel TJ, , Nguyen TK, Winn HR, Ngai AC, **Britz GW**. The Effect of SAH on Intracerebral Arteriolar Response to Adenosine. CNS, October 7-12, 2006. Chicago.
47. Sviri GE, Newell DW, Douville C, Ghodke B, Lam A, Haynor D, **Britz GW**: Impact of Basilar Artery Vasospasm on Outcome in Patients with Severe Cerebral Vasospasm after Aneurysmal Subarachnoid Hemorrhage. CNS, October 7-12, 2006. Chicago.

48. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B: Delayed Basilar Artery Thrombosis After Successful Endovascular Coiling Of Basilar Tip Aneurysm 2006 Annual Interventional Neuroradiology Conference, Jackson Hole, USA (Oral presentation)
49. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B: Aneurysms Of The Intracavernous ICA: Present Treatment. 2006 2nd International Symposium on the Cavernous Sinus, Ljubljana, Slovenia (Oral presentation)
50. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B: Bypasses for cavernous sinus tumors: History, techniques, and present status 2006 2nd International Symposium on the Cavernous Sinus, Ljubljana, Slovenia (Oral presentation)
51. Natarajan SK, Ghodke B, **Britz GW**, Sekhar LN: Embolization Of Arteriovenous Malformations With Onyx and Surgical Resection. 2006 52nd Annual Meeting of the Western Neurosurgical Society, Blaine, USA (Oral presentation)
52. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B: Management of Complex Intracranial Aneurysms with the use of Bypasses and vascular reconstruction 2006 8th International Conference on Cerebrovascular Surgery, Taipei, Taiwan (Oral presentation)
53. Sekhar LN, Natarajan SK, **Britz GW**, Ghodke B: Complications of Endovascular Management of Intracranial Aneurysms 2006 8th International Conference on Cerebrovascular Surgery, Taipei, Taiwan (Oral presentation)
54. Natarajan SK, Sekhar LN, **Britz GW**, Ghodke B: Treatment of ACOM Aneurysms- Comparison of Microsurgical Clipping and Endovascular Coiling. 2007 American Association of Neurological Surgeons Annual Meeting, Washington D (Oral presentation)
55. Natarajan SK, Ghodke B, **Britz GW**, Sekhar LN: Multimodal Treatment of AVMs By Microsurgery, After Embolization With Onyx, Or NBCA Comparison Of A Consecutive Series 2007 American Association of Neurological Surgeons Annual Meeting, Washington DC (Poster presentation)
56. Celix JM, Natarajan SK, Ojemann J, **Britz GW**: Enhanced Surgical Removal of Eloquent Cortex AVMs with use of Onyx during preoperative embolization. 2007 American Association of Neurological Surgeons Annual Meeting, Washington DC (Poster presentation)
57. Sviri GE, Natarajan SK, Moore A, **Britz GW**, Lam A, Sekhar LN: High Flow Extracranial-Intracranial Bypass: Assessment of graft potency using transcranial Doppler and Duplex ultrasonography. 2007 American Association of Neurological Surgeons Annual Meeting, Washington DC (Poster presentation)
58. Natarajan SK, Sekhar LN, **Britz GW**, Ghodke B: Outcomes after Subarachnoid Hemorrhage- Comparison of Microsurgical Clipping and Endovascular Coiling. 2007 American Society of Neuroradiology Conference, Chicago, IL (Oral presentation)
59. Natarajan SK, Ghodke B, **Britz GW**, Sekhar LN: Multimodal Treatment of AVMs By Microsurgery, After Embolization With Onyx, Or NBCA Comparison Of A Consecutive Series. 2007 American Society of Neuroradiology Conference, Chicago, IL (Oral presentation)
60. Natarajan SK, Karandikar M, Sekhar LN, **Britz GW**, Ghodke B. The University of Washington Experience Using the New Bare Platinum 360 Coil for Aneurysms. (Oral presentation). 2007 European Congress of Neurosurgery, Glasgow, UK.
61. Natarajan SK, Born D, Ghodke B, **Britz GW**, Sekhar LN. Histopathological Changes in Brain AVMs after Embolization with Onyx or NBCA. (Oral presentation). 2008, American Association of Neurological Surgeons Annual Meeting, Chicago, IL.

62. Natarajan SK, Ghodke B, **Britz GW**, Sekhar LN: Multimodal Treatment of AVMs by Microsurgery, after Emboliation with Onyx, or NBCA: Comparison of a Consecutive Series (Oral presentation). 2008, American Association of Neurological Surgeons Annual Meeting, Chicago, IL.
63. Park IK, Meno JR, Witt EC, Suttle TK, Chowdhary A, Nguyen T, Ngai AC, **Britz GW**. Subarachnoid hemorrhage model in the rat: modification of the endovascular filament model. (Poster Presentation). Congress of Neurological Surgeons, Orlando, Florida, 2008.

c. Editorials, position, and background papers

1. **Britz GW**, Newell, DW, West GA, Lam A. The ISAT Trial. *Lancet*. 2003 361(9355): 431-2. (Letter)
2. **Britz GW**. ISAT trial: coiling or clipping for intracranial aneurysms? *Lancet* 366:783-5, 2005. (Editorial)
3. Winn HR, **Britz GW**. Unruptured aneurysms. *J Neurosurg* 104:180-2, 2006. (Editorial)
4. **Britz G**, Winn HR. Assessing the constancy of intracranial aneurysm growth rates. *J Neurosurg*. 2008 Aug;109(2):173-4; discussion 174-5.

d. Patents

1. Intravascular Aneurysm Occlusion Device, January, 2001, (OTL Ref# 2704-3463), Primary Developer Gavin Wayne Britz, Co-Inventors: Michel Kliot, Joseph Eskridge
2. Variable Stiffness Endovascular Balloon Catheter, March, 2001, (OTL Ref# 2728-3488), Primary Developer Gavin Wayne Britz; Co-Inventor, Joseph Eskridge

Consultant appointments: (Include US government, state, private organizations, etc.)

Professional awards and special recognitions:

Chamber of Mines Scholarship – 1984
Gencor Scholarship – 1984-87
Sanford Larson Award – American Association of Neurological Surgeons/
Congress of Neurological Surgeons – March 2000
Dandy Clinical Fellow, Congress of Neurological Surgeons – 2000-2001
AANS, Neurosurgery Research and Education Foundation: Young Clinician Investigator
Award – 2005.
Best Doctors in America, 2007.
America's Top Radiologists, 2008

Organizations and participation: (Offices held, committee assignments, etc.)

National:

Vice Chairman of Marshall's Committee, American Association of Neurological Surgeons
Annual Meeting, Chicago, IL, April 6-11, 2002

Chairman of Marshall's Committee, American Association of Neurological Surgeons
Annual Meeting, April 2003
American Association of Neurological Surgeons, Young Neurosurgeons Committee,
April 1999–2005
Scientific Program Committee, Congress of Neurological Surgeons, 2006

Editorial Responsibilities:

Medscape Neurology and Neurosurgery – Ask the Expert Series, Neurovascular Disorders,
September 2000 to 2003

Journal of Neurosurgery

Ad Hoc Reviewer, 2000 to Present

Neurosurgery

Ad Hoc Reviewer, 2001 to Present

Young Neurosurgeons of America

Associate Editor, Young Neurosurgeons Newsletter, May 2003 to 2005

Lancet

Ad Hoc Reviewer, 2004 to Present

Lancet Neurology

Review Panel – July 2005 to Present

Topic Editor, Neurosurg Focus. 2008;24(2):E1.

Cerebral vascularization., Newell DW, Britz GW, Brisman J.

Teaching responsibilities including continuing education:

National:

Instructor, Congress of Neurological Surgeons Meetings:

Microvascular Reconstruction (course 021), San Antonio, TX, September 2000

Microvascular Reconstruction (course 021), San Diego, CA, September 2001

Microvascular Reconstruction (PC 14), Philadelphia, PA, September 2002

Contemporary Issues in the Management of Stroke, Philadelphia, PA, September 2002

Management of Endovascular Aneurysm Patients for the Non-Endovascular Specialist,
October 12, 2005, Boston, MA

Endovascular Management of Intracranial Aneurysms: Indications, Techniques and Results,
October 11, Chicago, 2006.

Instructor, American Association of Neurological Surgeons Meetings:

Clip vs Coil Breakfast seminar, Chicago, IL, April, 2008.

Instructor, Society for Interventional Radiology Case presentations, Washington DC, April 2008

Instructor, SNIS Practicum Meeting, Management of Giant Intracranial Aneurysms, New Orleans, LA

6/6/2008

Local:

Laboratory Research

1. Taylor Abel: Undergraduate Student – Neurobiology, University of Washington, January 2004-June 2005; Postgraduate, July 2005 to March 2006 (UW)
2. Lindsey Peugh: Undergraduate Student – Neurobiology, University of Washington, April 2004-June 2005 (UW)
3. Rebecca Curry: Undergraduate Student – Neurobiology, University of Washington, April 2004-June 2005 (UW)
4. Ryan Johnson: Undergraduate Student – Neurobiology, University of Washington May 2005-June 2006 (UW)
5. Cyrrene Sharples: Undergraduate Student – Neurobiology, University of Washington December 2005-January 2006 (UW)
6. Ik-Seong Park, MD: Assistant Professor, Department of Neurosurgery, Holy Family Hospital, Catholic University of Korea, April 2005-September 2006 (UW)
7. Annie E. Pugel: Undergraduate (Junior), University of Notre Dame, May 2005-September 2005 (UW)
8. Minku Chowdhary, MD: Resident, Neurosurgery, July 2005-June 2006 (UW)
9. Lakshmi Datla, MD: August 2006- December 2006 (UW)
10. Cordelie Witt: Undergraduate, University of Washington, June 2006-December 2007 (UW)

Clinical Research

1. Adam Lipson MD, Neurosurgical Resident: July 2003-June 2004 (UW)
2. Andrew Nemecek MD, Neurosurgical Resident: April 2004-June 2005 (UW)
3. Patrik Gabikian MD, Neurosurgical Resident: July 2004-Present (UW)
4. Mahesh Karandikar MD, Neurosurgical Resident, Jan 2007 – July 2007 (UW)
5. Andrew KO MD, Neurosurgical Resident, Jan 2007 – July 2007 (UW)
6. Tony Yang MD, Neurosurgical Resident, Jan 2007 – July 2007 (UW)

Clinical Fellows

1. Brian Kott MD, Neuro-interventional Fellowship: July 2005-June 2006 (UW)
2. Dan Hallam MD, Neuro-interventional Fellowship: July 2006 – Jan 2007 (UW)
3. Ali Zomorodi MD, Neuro-interventional Fellowship: December 2007 – June 2008 (Duke Medical Center)

Mentored Awards / Grants:

1. Taylor Abel: Undergraduate Student, Neurobiology, University of Washington. Mary Gates Award – 2005.
2. Cordelie Witt: Undergraduate, Neurobiology, University of Washington - Mary Gates Award – 2007
3. Timothy Suttle: Medical Student, University of Oklahoma, AANS medical Student Research Award, Summer 2007

Areas of research interests (basic and applied) - list:

a). Basic

1. Alterations of function of cerebral arterioles and underlying mechanisms involved following an SAH.
2. Normal regulation of Cerebral blood flow.

3. Re stenosis following intracranial stents, gene expression.

b) Applied

1. Understanding causes of poor outcome following an SAH.
2. Outcomes research.

External support (past and present) - gifts, grants, and contracts:

	<u>PI</u>	<u>%Effort</u>	<u>Purpose</u>	<u>Approximate Amount</u>	<u>Duration</u>
a) Past:					
			Ulnar Nerve Entrapment at the Elbow: Improved Diagnosis and Treatment with MRI. Joint Section Disorders of the Spine and Peripheral Nerves of the AANS / CNS. PI: Gavin Wayne Britz, MD, MPH (30%). Co-Investigator: Michel Kliot, MD 03/01/00 to 02/28/01 \$15,000		
2.			Magnesium Sulfate for Neuroprotection After Brain Trauma. NIH RO1 NS19643-14Co- Investigator: Gavin Wayne Britz, MD (5%); PI: H. Richard Winn, MD / Nancy Temkin PhD 08/01/98-07/31/03 \$2,249,365		
3.			Development of an Intracranial Stent Model. University of Washington Engineered Biomaterials/National Science Foundation. PI: Gavin Wayne Britz MD, MPH (5%) 09/15/03 – 09/14/04 \$20,000		
4.			Balloon Prophylaxis in Aneurysmal Vasospasm NIH RO1 NS38484 Co- Principal Site Investigators: Gavin Wayne Britz MD, MPH (5%) and Basavaraj Ghodke MD. National PI: J. Paul Muizelaar MD, PhD 11/01/2004 to 06/30/2005 \$20,000		
5.			Aesculap Educational Grant PI: Gavin Wayne Britz MD, MPH (1%) 07/18/2005 \$595		
6.			Magnesium Sulfate for Neuroprotection After Brain Trauma NIH RO1 NS19643-14 Co-Investigator: Gavin Wayne Britz, MD (5%), PI: Nancy Temkin PhD; David Newell MD 08/01/02-07/31/05 \$2,249,365		
7.			Cerebral arteriolar reactivity following subarachnoid hemorrhage in a mouse model. Neurosurgery Research and Education Foundation: 2005 Young Clinician Investigator Award		

PI: Gavin Wayne Britz, MD, MPH (15%)

07/01/05 - 06/06

\$40,000

8. Cerebral arteriolar reactivity following subarachnoid hemorrhage in a mouse model
Royalty Research Fund Application
PI: Gavin Wayne Britz, MD, MPH (15%)
07/01/05 - 06/06
\$30,000
9. NIAMS – Multidisciplinary Clinical Research Center in Musculoskeletal Disorders
Sub-Investigator: Gavin Wayne Britz MD, MPH (5%); **PI: Jeffrey G. Jarvik MD, MPH**
01/01/02 to 12/31/06
\$3,978,213
10. Evaluation of safety and Efficacy of 360 Coils
Boston Scientific Corporation
PI: Gavin Wayne Britz, MD, MPH (5%)
Jan to July 2007
\$15,000.00
11. Cerebral arteriolar reactivity following subarachnoid hemorrhage.
UW Funding Program
PI: Gavin Wayne Britz, MD, MPH (5%)
Jan – August, 2007
\$50,000.00

b) Present:

1. Intracerebral Arteriolar Reactivity and Signal Transduction following SAH.
American Heart Association.
PI: Gavin Wayne Britz, MD, MPH (30%)
July 2007 to June 2009
\$12200.00
2. Cordis Neurovascular Education Grant.
PI: Gavin Wayne Britz, MD, MPH (1%)
\$25000.00

