

CURRICULUM VITAE
Rafael J. Tamargo, M.D., F.A.C.S.
(Revised 2/21/2012)

I. DEMOGRAPHIC INFORMATION

A. Current Appointments:

Walter E. Dandy Professor of Neurosurgery
Professor of Neurosurgery
Professor of Otolaryngology-Head and Neck Surgery
Director, Division of Cerebrovascular Neurosurgery
Vice-Chairman, Department of Neurosurgery
Neurosurgery Co-Director, Neurosciences Critical Care Unit
Johns Hopkins University School of Medicine
Baltimore, Maryland

B. Personal Data:

Address: Department of Neurosurgery
The Johns Hopkins Hospital
600 North Wolfe Street
Meyer Building, Suite 8-181
Baltimore, Maryland 21287
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Birthdate: March 22, 1958, Havana, Cuba

Citizenship: U.S.A.

Status: Married with children

C. Education and Training:

1972-1976 ***Valedictorian***
Academia del Perpetuo Socorro High School
Miramar, Puerto Rico

1976-1980 ***Bachelor of Arts, Magna Cum Laude***
Princeton University
Princeton, New Jersey

1980-1984 ***Doctor of Medicine***
Columbia University - College of Physicians and Surgeons
New York, New York

- 1984-1985 ***Internship in General Surgery***
 Columbia-Presbyterian Medical Center
 New York, New York
- 1985-1988 ***Neurosurgical Oncology Fellowship***
 Division of Neurosurgical Oncology
 Department of Neurosurgery
 Johns Hopkins Hospital
 Baltimore, Maryland
- 1985-1992 ***Residency in Neurosurgery***
 Johns Hopkins Hospital
 Baltimore, Maryland
 - June 1985-June 1988, Assistant Resident
 - June 1988-June 1989, Junior Resident
 Adult and Pediatric Neurosurgery Services
 - July 1989-December 1989, Senior Resident
 Neurology Consult and Inpatient Services
 - January 1990-June 1990, Senior Resident
 Francis Scott Key Medical Center
 - July 1990-September 1990, Senior Resident
 Adult and Pediatric Neurosurgery Services
 - October 1990-March 1991, Senior Resident
 Pediatric Neurosurgery Service
 - April 1991-June 1991, Senior Resident
 Adult and Pediatric Neurosurgery Services
 - July 1991-June 1992, Chief Resident / Assistant Chief of Service
 Adult and Pediatric Neurosurgery Services
- 1985
 (July-September) Microsurgery Laboratory
 Johns Hopkins Hospital
 Department of Neurosurgery

D. Professional Experience and Academic Appointments:

- 1991-1992 Instructor / Assistant Chief of Service / Full-time staff
 Department of Neurosurgery
 Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 1992-1998 Assistant Professor of Neurosurgery / Full-time staff
 Department of Neurosurgery
 Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 1992-Present Appointments within the Department of Neurosurgery to the:
 Division of Cerebrovascular Neurosurgery (currently Director)
 Division of Skull Base Surgery

Division of Neurosurgical Oncology
Division of Pediatric Neurosurgery

- 1993-Present Director, Microneurosurgery Laboratory
Department of Neurosurgery
Johns Hopkins University School of Medicine
- 1996-2000 Co-Director, Division of Cerebrovascular Neurosurgery
Department of Neurosurgery
Johns Hopkins University School of Medicine
- 1998-2004 Associate Professor of Neurosurgery / Full-time staff
Department of Neurosurgery
Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 2000-Present Director, Division of Cerebrovascular Neurosurgery
Department of Neurosurgery
Johns Hopkins University School of Medicine
- 2002-2004 Associate Professor of Otolaryngology-Head and Neck Surgery
Department of Otolaryngology-Head and Neck Surgery
Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 2004-Present Professor of Neurosurgery / Full-time staff
Department of Neurosurgery
Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 2004-Present Professor of Otolaryngology-Head and Neck Surgery
Department of Otolaryngology-Head and Neck Surgery
Johns Hopkins University School of Medicine / Johns Hopkins Hospital
- 2009-Present Vice-Chairman, Department of Neurosurgery
Johns Hopkins University School of Medicine
- 2011-Present Neurosurgery Co-Director, Neurosciences Critical Care Unit
Johns Hopkins Hospital

II. RESEARCH ACTIVITIES

A. Hirsch Index (“h index”)

41 based on Google Scholar and **34** based on ISI Web of Knowledge

B. Publications:

1. Peer-Reviewed Scientific Articles:

1. **Tamargo, R. J.**, J. I. Epstein, and H. Brem. Heterotransplantation of malignant human gliomas in neonatal rats. Journal of Neurosurgery. 69: 928-933, 1988.

2. Steen, R. G., **R. J. Tamargo**, K. A. McGovern, S. S. Rajan, H. Brem, J. P. Wehrle, and J. D. Glickson. In vivo ³¹P nuclear magnetic resonance spectroscopy of subcutaneous 9L gliosarcoma: effects of tumor growth and treatment with 1,3-bis(2-chloroethyl) 1-nitrosourea on tumor bioenergetics and histology. Cancer Research. 48: 676-681, 1988.
3. **Tamargo, R. J.**, J. I. Epstein, C. S. Reinhard, M. Chasin, and H. Brem. Brain biocompatibility of a biodegradable controlled release polymer in rats. Journal of Biomedical Materials Research. 23: 253-266, 1989.
4. Brem, H., A. Kader, J. I. Epstein, **R. J. Tamargo**, A. Domb, R. Langer, and K. W. Leong. Biocompatibility of a biodegradable, controlled-release polymer in the rabbit brain. Selective Cancer Therapeutics. 5(2): 55-65, 1989.
5. Yang, M. B., **R. J. Tamargo**, and H. Brem. Controlled delivery of 1,3-bis(2-chloroethyl)-1-nitrosourea from ethylene-vinyl acetate copolymer. Cancer Research. 49: 5103-5107, 1989.
6. Levy, A. P., **R. J. Tamargo**, H. Brem, and D. Nathans. An endothelial cell growth factor from the mouse neuroblastoma cell line NB41. Growth Factors. 2: 9-19, 1989.
7. Steen, R. G., **R. J. Tamargo**, H. Brem, J. D. Glickson, and J. P. Wehrle. In vivo ³¹P nuclear magnetic resonance spectroscopy of rat 9L gliosarcoma treated with BCNU: Dose-response of spectral changes. Magnetic Resonance In Medicine. 11: 258-266, 1989.
8. **Tamargo, R. J.**, K. W. Leong, and H. Brem. Growth inhibition of a gliosarcoma by the local sustained release of heparin and cortisone acetate. Journal of Neuro-Oncology. 9: 131-138, 1990.
9. **Tamargo, R. J.**, R. A. Bok, and H. Brem. Angiogenesis inhibition by minocycline. Cancer Research. 51: 672-675, 1991.
10. **Tamargo, R. J.**, A. K. Sills, Jr., C. S. Reinhard, M. L. Pinn, D. M. Long, and H. Brem. Interstitial dexamethasone delivery in the brain for the reduction of peritumoral edema. Journal of Neurosurgery. 74: 956-961, 1991.
11. Grossman, S. A., C. Reinhard, O. M. Colvin, M. Chasin, R. Brundrett, **R. J. Tamargo**, and H. Brem. The intracerebral distribution of BCNU delivered by surgically implanted biodegradable polymers. Journal of Neurosurgery. 76: 640-647, 1992.
12. **Tamargo, R. J.**, J. S. Myseros, J. I. Epstein, M. B. Yang, M. Chasin, and H. Brem. Interstitial chemotherapy of the 9L gliosarcoma: Controlled release polymers for drug delivery in the brain. Cancer Research. 53: 329-333, 1993.
13. Geisler, F. H., **R. J. Tamargo**, and J. D. Weingart. Modifications to the transverse Caspar cervical retractor blades optimized for a single-level anterior cervical discectomy. Journal of Spinal Disorders. 6(1): 57-59, 1993.

14. Brem, H., **R. J. Tamargo**, A. Olivi, M. Pinn, J. D. Weingart, M. Wharam, and J. I. Epstein. Biodegradable polymers for controlled delivery of chemotherapy with and without radiation therapy in the monkey brain. Journal of Neurosurgery. 80: 283-290, 1994.
15. Miller, N. R., L. H. Monsein, G. M. Debrun, **R. J. Tamargo**, and H. J. W. Nauta. Treatment of carotid-cavernous sinus fistulas using a superior ophthalmic vein approach. Journal of Neurosurgery. 83: 838-842, 1995. (*Cover article*)
16. Sipos, E. P., **R. J. Tamargo**, J. I. Epstein, and R. B. North. Primary intracerebral small-cell osteosarcoma in an adolescent girl: Report of a case. Journal of Neuro-Oncology. 32: 169-174, 1997.
17. Oshiro, E. M., K. A. Walter, S. Piantadosi, T. F. Witham, and **R. J. Tamargo**. A new subarachnoid hemorrhage grading system based on the Glasgow Coma Scale: A comparison with the Hunt and Hess and World Federation of Neurological Surgeons Scales in a clinical series. Neurosurgery. 41: 140-148, 1997.
18. Sills, A. K., Jr., R. E. Clatterbuck, R. C. Thompson, P. L. Cohen, and **R. J. Tamargo**. Endothelial cell expression of intercellular adhesion molecule-1 (ICAM-1) in experimental post-hemorrhagic vasospasm. Neurosurgery. 41: 453-461, 1997. (*Cover article*)
19. Oshiro, E. M., D. A. Rini, and **R. J. Tamargo**. Contralateral approaches to bilateral cerebral aneurysms: A microsurgical anatomical study. Journal of Neurosurgery. 87: 163-169, 1997. (*Cover article*)
20. Javedan, S. P., and **R. J. Tamargo**. The diagnostic yield of brain biopsy in neurodegenerative disorders. Neurosurgery. 41: 823-830, 1997.
21. Oshiro, E. M., P. A. Hoffman, G. N. Dietsch, M. C. Watts, D. M. Pardoll, and **R. J. Tamargo**. Inhibition of experimental vasospasm with anti-intercellular adhesion molecule-1 monoclonal antibody. Stroke. 28:2031-2038, 1997.
22. Qureshi, A. I., J. I. Suarez, P. D. Parekh, G. Sung, R. Geocadin, A. Bhardwaj, **R. J. Tamargo**, and J. A. Ulatowski. Risk factors for multiple intracranial aneurysms. Neurosurgery. 43: 22-27, 1998.
23. Lewis, R. F., B. M. Gaymard, and **R. J. Tamargo**. Efference copy provides the eye position information required for visually-guided reaching. Journal of Neurophysiology. 80: 1605-1608, 1998.
24. Takagi, M., D. S. Zee, and **R. J. Tamargo**. Effects of lesions of the oculomotor vermis on eye movements in primate: saccades. Journal of Neurophysiology. 80: 1911-1931, 1998.
25. Thai, Q.-A., E. M. Oshiro, and **R. J. Tamargo**. Inhibition of experimental vasospasm

in rats with the periadventitial administration of ibuprofen using controlled-release polymers. Stroke. 30: 140-147, 1999.

26. Suarez, J. I., A. I. Qureshi, P. D. Parekh, A. Razumovsky, **R. J. Tamargo**, A. Bhardwaj, and J. A. Ulatowski. Administration of hypertonic (3%) sodium chloride/acetate in hyponatremic patients with symptomatic vasospasm following subarachnoid hemorrhage. Journal of Neurosurgical Anesthesiology. 11: 178-184, 1999.

27. Conway, J. E., G. M. Hutchins, and **R. J. Tamargo**. Marfan syndrome is not associated with intracranial aneurysms. Stroke. 30: 1632-1636, 1999.

28. Miller, N. R., E. F. McCarthy, N. Carter, **R. J. Tamargo**, and W. R. Green. Lytic Paget disease as a cause of orbital cholesterol granuloma. Archives of Ophthalmology. 117: 1084-1086, 1999.

29. Qureshi, A. I., Y. Mohammad, A. M. Yahia, A. R. Luft, M. Sharma, **R. J. Tamargo**, and M. R. Frankel. Ischemic events associated with unruptured intracranial aneurysms: multicenter clinical study and review of the literature. Neurosurgery. 46: 282-290, 2000.

30. Qureshi, A. I., J. I. Suarez, A. Bhardwaj, A. M. Yahia, **R. J. Tamargo**, and J. A. Ulatowski. Early predictors of outcome in patients receiving hypervolemic and hypertensive therapy for symptomatic vasospasm after subarachnoid hemorrhage. Critical Care Medicine. 28: 824-829, 2000.

31. Takagi, M., D. S. Zee, and **R. J. Tamargo**. Effects of lesions of the oculomotor cerebellar vermis on eye movements in primate: smooth pursuit. Journal of Neurophysiology. 83:2047-2062, 2000.

32. Satta, S. R., N. R. Miller, **R. Tamargo**, and R. Wityk. Bilateral optic neuropathy associated with diffuse cerebral angiomas in Sturge-Weber syndrome. Journal of Neuro-Ophthalmology. 20: 28-31, 2000.

33. Haroun, R. I., D. Rigamonti, and **R. J. Tamargo**. Recurrent artery of Heubner: Otto Heubner's description of the artery and his influence on pediatrics in Germany. Journal of Neurosurgery. 93: 1084-1088, 2000.

34. Lewis, R. F., and **R. J. Tamargo**. Cerebellar lesions impair context-dependent adaptation of reaching movements in primates. Experimental Brain Research. 138: 263-267, 2001.

35. Qureshi, A. I., M. F. K. Suri, A. M. Yahia, J. I. Suarez, L. R. Guterman, L. N. Hopkins, and **R. J. Tamargo**. Risk factors for subarachnoid hemorrhage. Neurosurgery. 49: 607-613, 2001.

36. Tierney, T. S., R. C. Clatterbuck, C. Lawson, Q.-A. Thai, L. D. Rhines, and **R. J. Tamargo**. Prevention and reversal of experimental post-hemorrhagic vasospasm by the

peri-adventitial administration of nitric oxide from a controlled-release polymer. Neurosurgery. 49: 945-953, 2001.

37. Conway, J. E., and **R. J. Tamargo**. Cocaine use is an independent risk factor for cerebral vasospasm after aneurysmal subarachnoid hemorrhage. Stroke. 32: 2338-2343, 2001.

38. Carhuapoma, J. R., A. I. Qureshi, **R. J. Tamargo**, J. M. Mathis, and D. F. Hanley. Intra-arterial papaverine-induced seizures: Case report and review of the literature. Surgical Neurology. 56: 159-163, 2001.

39. Conway J. E., G. M. Hutchins, and **R. J. Tamargo**. Lack of evidence for an association between neurofibromatosis type I and intracranial aneurysms: Autopsy study and review of the literature. Stroke. 32: 2481-2485, 2001.

40. Lewis, R. F., D. S. Zee, M. R. Hayman, and **R. J. Tamargo**. Oculomotor function in the rhesus monkey after deafferentation of the extraocular muscles. Experimental Brain Research. 141: 349-358, 2001.

41. **Tamargo, R. J.**, L. A. Rossell, E. H. Kossoff, B. M. Tyler, M. G. Ewend, and J. J. Aryanpur. The intracerebral administration of phenytoin using controlled-release polymers reduces experimental seizures in rats. Epilepsy Research. 48: 145-155, 2002.

42. Chiang, V. L., P. Gailloud, K. J. Murphy, D. Rigamonti, and **R. J. Tamargo**. Routine intraoperative angiography during aneurysm surgery. Journal of Neurosurgery. 96: 988-992, 2002.

43. Borden, W. B., and **R. J. Tamargo**. George J. Heuer, M.D. - Forgotten pioneer neurosurgeon at The Johns Hopkins Hospital. Journal of Neurosurgery. 96: 1139-1146, 2002.

44. Suarez, J. I., A. I. Qureshi, A. B. Yahia, P. D. Parekh, **R. J. Tamargo**, M. A. Williams, J. A. Ulatowski, D. F. Hanley, and A. Y. Razumovsky. Symptomatic vasospasm diagnosis after subarachnoid hemorrhage: Evaluation of transcranial Doppler ultrasound and cerebral angiography as related to compromised vascular distribution. Critical Care Medicine 30: 1348-1355, 2002.

45. Clatterbuck, R. E., E. M. Oshiro, P. A. Hoffman, G. N. Dietsch, D. M. Pardoll, and **R. J. Tamargo**. Inhibition of vasospasm with lymphocyte function-associated antigen-1 monoclonal antibody in the rat femoral artery model. Journal of Neurosurgery. 97: 676-682, 2002.

46. Gabikian, P., R. E. Clatterbuck, C. G. Eberhart, B. M. Tyler, T. S. Tierney, and **R. J. Tamargo**. Prevention of experimental cerebral vasospasm by intracranial delivery of a nitric oxide donor from a controlled-release polymer: Toxicity and efficacy studies in rabbits and rats. Stroke. 33: 2681-2686, 2002.

47. Heck, D. V., P. Gailloud, H. L. Cohen, R. E. Clatterbuck, **R. J. Tamargo**, A. M. Avellino, and K. P. Murphy. Choroid plexus arteriovenous malformation presenting with intraventricular hemorrhage. Journal of Pediatrics. 141: 710-711, 2002.

48. Komotar, R. J., A. Olivi, D. Rigamonti, and **R. J. Tamargo**. Microsurgical fenestration of the lamina terminalis reduces the incidence of shunt-dependent hydrocephalus following aneurysmal subarachnoid hemorrhage. Neurosurgery. 51: 1403-1413, 2002.
49. Antezana, D. F., R. E. Clatterbuck, N. J. Alkayed, S. J. Murphy, L. G. Anderson, J. Frazier, P. D. Hurn, R. J. Traystman, and **R. J. Tamargo**. High-dose ibuprofen for reduction of striatal infarcts during middle cerebral artery occlusion in rats. Journal of Neurosurgery. 98: 860-866, 2003.
50. Takagi, M., **R. J. Tamargo** , and D. S. Zee. Effects of lesions of the cerebellar oculomotor vermis on eye movements in primate: Binocular control. Progress in Brain Research. 142: 19-33, 2003.
51. Chicani, C. F., N. R. Miller, and **R. J. Tamargo**. Giant cavernous malformation of the occipital lobe. Journal of Neuro-ophthalmology. 23:151-153, 2003.
52. Clatterbuck, R. E., P. Gailloud, L. Ogata, A. Gebremariam, G. N. Dietsch, K. P. J. Murphy, and **R. J. Tamargo**. A humanized anti-CD11/CD18 monoclonal antibody prevents cerebral vasospasm following experimental subarachnoid hemorrhage in non-human primates. Journal of Neurosurgery. 99: 376-382, 2003.
53. Tuffiash, E., **R. J. Tamargo**, and A. E. Hillis. Craniotomy for treatment of unruptured aneurysms is not associated with long-term cognitive dysfunction. Stroke 34: 2195-2199, 2003.
54. O Bray, R., R. Clatterbuck, A. Olvi, **R. Tamargo**, K. J. Murphy, and P. Gailloud. De novo aneurysm formation 6 and 22 months after initial presentation in two patients. AJNR American Journal of Neuroradiology. 24:1811-1813, 2003.
55. Kretzer, R. M., P. C. Burger, and **R. J. Tamargo**. Hypertrophic neuropathy of the cauda equina: Case report. Neurosurgery. 54: 515-519, 2004.
56. Kretzer, R. M., R. W. Crosby, D. A. Rini, and **R. J. Tamargo**. Dorcas Hager Padgett: Neuroembryologist and neurosurgical illustrator trained at Johns Hopkins. Journal of Neurosurgery. 100: 719-730, 2004. (*Cover Article*)
57. Goldenberg-Cohen, N., C. Curry, N. R. Miller, **R. J. Tamargo**, and K. P. Murphy. Long term visual and neurological prognosis in patients with treated and untreated cavernous sinus aneurysms. Journal of Neurology, Neurosurgery, and Psychiatry. 75:863-867, 2004.
58. Pradilla, G., P. P. Wang, F. G. Legnani, L. Ogata, G. N. Dietsch, and **R. J. Tamargo**. Vasospasm in rabbits following subarachnoid hemorrhage prevented by anti-CD11/CD18 monoclonal antibody therapy. Journal of Neurosurgery. 101: 88-92, 2004.
59. Frazier, J. L., G. Pradilla, P. P. Wang, and **R. J. Tamargo**. Inhibition of cerebral vasospasm by intracranial delivery of ibuprofen from a controlled-release polymer in a rabbit

model of subarachnoid hemorrhage. Journal of Neurosurgery. 101: 93-98, 2004.

60. Pradilla, G., P. P. Wang, F. G. Legnani, J. L. Frazier, and **R. J. Tamargo**. Pharmacokinetics of controlled-release polymers in the subarachnoid space after subarachnoid hemorrhage in rabbits. Journal of Neurosurgery. 101: 99-103, 2004.

61. Rodrigues, M., B. W. O'Malley, Jr., H. Staecker, and **R. Tamargo**. Extended pericranial flap and bone graft reconstruction in anterior skull base surgery. Otolaryngology - Head and Neck Surgery. 131: 69-76, 2004.

62. Gailloud, P., R. E. Clatterbuck, J. H. Fasel, **R. J. Tamargo**, and K. J. Murphy. Segmental agenesis of the internal carotid artery distal to the posterior communicating artery leading to the definition of a new embryologic segment. AJNR American Journal of Neuroradiology. 25: 1189-1193, 2004.

63. Weaver, K. D., J. Huang, **R. J. Tamargo**, and E. J. Bernard, Jr.. Preoperative localization of the carotid bifurcation for carotid endarterectomy using magnetic resonance angiography without tomography: Technical note. Neurosurgery. 55: E1249-E1252, 2004.

64. Pradilla, G., Q.-A. Thai, F. G. Legnani, W. Hsu, R. M. Kretzer, P. P. Wang, and **R. J. Tamargo**. Delayed intracranial delivery of a nitric oxide donor from a controlled-release polymer prevents experimental vasospasm in rabbits. Neurosurgery. 55: 1393-1400, 2004.

65. Subramanian, P. S., P. H. Gailloud, D. V. Heck, **R. J. Tamargo**, K. J. Murphy, and N. R. Miller. Cook detachable coil embolization of a symptomatic, isolated orbital arteriovenous fistula via a superior ophthalmic vein approach. Neuroradiology. 47: 62-65, 2005.

66. Huang, J., M. J. McGirt, P. Gailloud, and **R. J. Tamargo**. Intracranial aneurysms in the pediatric population: case series and literature review. Surgical Neurology. 63: 424-32, 2005.

67. Pradilla, G., Q.-A. Thai, F. G. Legnani, R. E. Clatterbuck, P. Gailloud, K. P. Murphy, and **R. J. Tamargo**. Local delivery of ibuprofen via controlled-release polymers prevents angiographic vasospasm in a monkey model of subarachnoid hemorrhage. Neurosurgery. 57 (1 Suppl.): 184-190, 2005.

68. Burger, I. M., **R. J. Tamargo**, J. Broussard, and P. Gailloud. Combined surgical and endovascular treatment of a spontaneous diploic arteriovenous fistula. Case report. Journal of Neurosurgery. 103: 179-181, 2005.

69. Gailloud, P., D. P. O'Riordan, I. Burger, O. Levrier, G. Jallo, **R. J. Tamargo**, K. J. Murphy, and C. U. Lehmann. Diagnosis and management of vein of galen aneurysmal malformations. Journal of Perinatology. 25: 542-51, 2005.

70. Thai, Q.-A., S. M. Raza, G. Pradilla, and **R. J. Tamargo**. Aneurysmal rupture without subarachnoid hemorrhage: case series and literature review. Neurosurgery 57: 225-229, 2005.

71. Clatterbuck, R. E., P. Gailloud, T. Tierney, V. M. Clatterbuck, K. J. Murphy, and **R. J. Tamargo**. Controlled release of a nitric oxide donor for the prevention of delayed cerebral vasospasm following experimental subarachnoid hemorrhage in nonhuman primates. Journal of Neurosurgery. 103: 745-751, 2005.
72. McGirt, M. J., B. A. Perler, B. S. Brooke, G. F. Woodworth, A. Coon, S. Jain, D. Buck, G. S. Roseborough, **R. J. Tamargo**, J. Heller, J. A. Freischlag, and G. M. Williams. 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitors reduce the risk of perioperative stroke and mortality after carotid endarterectomy. Journal of Vascular Surgery. 42: 829-836, 2005.
73. Subramanian, P. S., N. R. Miller, V. Renard, and **R. J. Tamargo**. Delayed progressive visual loss following wrapping of bilateral clinoidal aneurysms: recovery of vision and improvement in neuroimaging during corticosteroid treatment. British Journal of Ophthalmology. 89:1666-1668, 2005.
74. McGirt, M. J., G. Pradilla, F. G. Legnani, Q.-A. Thai, P. F. Recinos, **R. J. Tamargo**, and R. E. Clatterbuck. Systemic administration of simvastatin after the onset of experimental subarachnoid hemorrhage attenuates cerebral vasospasm. Neurosurgery. 58:945-951, 2006.
75. Tierney, T. S., G. Pradilla, P. P. Wang, R. E. Clatterbuck, and **R. J. Tamargo**. Intracranial delivery of the nitric oxide donor diethylenetriamine/nitric oxide from a controlled-release polymer: Toxicity in cynomolgus monkeys. Neurosurgery. 58:952-960, 2006.
76. McGirt, M. J., G. F. Woodworth, B. S. Brooke, A. L. Coon, S. Jain, D. Buck, J. Huang, R. E. Clatterbuck, **R. J. Tamargo**, and B. A. Perler. Hyperglycemia independently increases the risk of perioperative stroke, myocardial infarction, and death after carotid endarterectomy. Neurosurgery. 58:1066-1073, 2006.
77. Triantafyllopoulou, A., A. Beaumont, J. Ulatowski, **R. J. Tamargo**, and P. N. Varelas. Acute subdural hematoma caused by an unruptured, thrombosed giant intracavernous aneurysm. Neurocritical Care. 5:39-42, 2006.
78. Thai, Q. A., G. Pradilla, F. G. Legnani, R. M. Kretzer, W. Hsu, and **R. J. Tamargo**. Lysis of intracerebral hematoma with stereotactically implanted tissue plasminogen activator polymers in a rabbit model. Journal of Neurosurgery. 105: 424-429, 2006.
79. Sherman, I. J., R. M. Kretzer, and **R. J. Tamargo**. Personal recollections of Walter E. Dandy and his brain team. Journal of Neurosurgery. 105: 487-493, 2006.
80. Clatterbuck, R. E., R. M. Galler, **R. J. Tamargo**, and D. J. Chalif. Orthogonal interlocking tandem clipping technique for the reconstruction of complex middle cerebral artery aneurysms. Neurosurgery (Operative Neurosurgery Supplement). 59 (ONS 4): 347-352, 2006.
81. Burger, I. M., K. J. Murphy, L. C. Jordan, **R. J. Tamargo**, and P. Gailloud. Safety of

Cerebral Digital Subtraction Angiography in Children. Complication Rate Analysis in 241 Consecutive Diagnostic Angiograms. Stroke. 37: 2535-2539, 2006.

82. Recinos, P. F., G. Pradilla, Q.-A. Thai, M. Perez, A. M. Hdeib, and **R. J. Tamargo**. Controlled release of lipopolysaccharide in the subarachnoid space of rabbits induces chronic vasospasm in the absence of blood. Surgical Neurology. 66: 463-469, 2006.

83. Chaichana, K., L. H. Riley, and **R. J. Tamargo**. Delayed cerebral vasospasm secondary to bacterial meningitis after lumbosacral spinal surgery: Case report. Neurosurgery. 60: E206-E207, 2007.

84. Shan, X., J. Tian, H. S. Ying, C. Quaia, L. M. Optican, M. F. Walker, **R. J. Tamargo**, and D. S. Zee. Acute Superior Oblique Palsy in Monkeys: I. Changes in Static Eye Alignment. Investigative Ophthalmology & Visual Sciences. 48: 2602-2611, 2007.

85. Shan, X., H. S. Ying, J. Tian, C. Quaia, M. F. Walker, L. M. Optican, **R. J. Tamargo**, and D. S. Zee. Acute Superior Oblique Palsy in Monkeys: II. Changes in Dynamic Properties during Vertical Saccades. Investigative Ophthalmology & Visual Sciences. 48: 2612-2620, 2007.

86. Tian, J., X. Shan, D. S. Zee, H. Ying, **R. J. Tamargo**, C. Quaia, L. M. Optican, and M. F. Walker. Acute Superior Oblique Palsy in Monkeys: III. Relationship to Listing's Law. Investigative Ophthalmology & Visual Sciences. 48: 2621-2625, 2007.

87. Baird, C. J., A. Hdeib, I. Suk, H. W. Francis, M. J. Holliday, **R. J. Tamargo**, H. Brem, and D. M. Long. Reduction of cerebrospinal fluid rhinorrhea after vestibular schwannoma surgery by reconstruction of the drilled porus acusticus with hydroxyapatite bone cement. Journal of Neurosurgery. 107: 347-351, 2007. (*Cover Article*)

88. Chaichana, K. L., A. P. Levy, R. Miller-Lotan, S. Shakur, and **R. J. Tamargo**. Haptoglobin 2-2 genotype determines chronic vasospasm after experimental subarachnoid hemorrhage. Stroke. 38: 3266-3271, 2007.

89. McGirt, M. J., G. F. Woodworth, M. Ali, K. D. Than, **R. J. Tamargo**, and R. E. Clatterbuck. Persistent perioperative hyperglycemia as an independent predictor of poor outcome after aneurysmal subarachnoid hemorrhage. Journal of Neurosurgery. 107: 1080-1085, 2007.

90. Woodworth, G. F., M. J. McGirt, K. D. Than, J. Huang, B. A. Perler, and **R. J. Tamargo**. Selective versus routine intraoperative shunting during carotid endarterectomy: a multivariate outcome analysis. Neurosurgery. 61:1170-1176, 2007.

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122. Thai, Q.-A., S. M. Raza, G. Pradilla, and R. J. Tamargo. Aneurysmal ruptures presenting only with intraparenchymal or intraventricular hemorrhages: Case series and literature review. 73rd Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 16-21, 2005.

123. Tamargo, R. J., and C. Baird. Limitations of the Maryland clinical administrative database regarding cases of intracranial aneurysms. 58th (2005) Annual Meeting of the Neurosurgical Society of America, Grand Floridian, Orlando, Florida, June 5-8, 2005.

124. **Tamargo, R. J.** Contralateral pterional microsurgical approach for bilateral supratentorial aneurysms: patient selection and outcomes in a prospective series of 50 patients. American Academy of Neurological Surgery, Half Moon Bay, California, September 21-24, 2005.

125. McGirt, M. J., A. L. Coon, G. Woodworth, S. Jain, D. Buck, B. Perler, and **R. J. Tamargo**. A decade experience with carotid endarterectomy at the Johns Hopkins Hospital: An assessment of current surgical risks. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

126. McGirt, M. J., A. L. Coon, G. Woodworth, S. Jain, D. Buck, B. Perler, and **R. J. Tamargo**. Statins, HMG CoA-reductase inhibitors, reduce the risk of perioperative stroke after carotid endarterectomy: A novel role for a potential neuroprotectant. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

127. McGirt, M. J., A. L. Coon, G. Woodworth, S. Jain, D. Buck, B. Perler, and **R. J. Tamargo**. Selective versus routine intraluminal carotid artery shunting guided by intraoperative electroencephalography (EEG) and somatosensory evoked potential (SSEP) monitoring reduces the risk of perioperative stroke after carotid endarterectomy. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

128. McGirt, M. J., A. L. Coon, G. Woodworth, S. Jain, D. Buck, B. Perler, and **R. J. Tamargo**. Surgeon frequency, not cumulative volume, is associated with perioperative morbidity after carotid endarterectomy. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

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131. Pradilla, G., S. Basu, Q.-A. Thai, A. M. Hdeib, F. G. Legnani, **R. J. Tamargo**, and R. E. Clatterbuck. Simvastatin administration reverses cerebral vasospasm in rabbits by increasing endothelial nitric oxide synthase (eNOS) expression. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

132. Baird, C. J., and **R. J. Tamargo**. Inaccuracy of the international classification of diseases 9th revision coding for cerebral aneurysms in the Maryland administrative database. 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts, October 8-13, 2005.

133. McGirt, M., B. Perler, S. Jain, G. Woodworth, **R. J. Tamargo**, and D. Buck. A 10-year experience with carotid endarterectomy at the Johns Hopkins Hospital: An assessment of current surgical risks. American College of Surgeons 91st Annual Clinical Congress, San Francisco, California, October 16-20, 2005.

134. Coon, A., M. McGirt, G. Woodworth, S. Jain, B. Perler, and **R. J. Tamargo**. Accuracy of carotid ultrasonography in the treatment of carotid stenosis: A comparison to digital subtraction angiography in 631 consecutive cases. Ninth Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, Orlando, Florida, February 17-20, 2006.

135. Recinos, P. F., G. Pradilla, Q.-A. Thai, A. M. Hdeib, M. Perez, F. G. Legnani, R. E. Clatterbuck, and **R. J. Tamargo**. Controlled release of lipopolysaccharide in the subarachnoid space of rabbits induces chronic vasospasm. Ninth Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, Orlando, Florida, February 17-20, 2006.

136. Recinos, P. F., Q.-A. Thai, G. L. Gallia, G. Pradilla, D. Rigamonti, **R. J. Tamargo**, and R. E. Clatterbuck. Outcomes in 100 cases of ruptured aneurysms managed with microsurgery

at an academic center. Ninth Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, Orlando, Florida, February 17-20, 2006.

137. McGirt, M., G. F. Woodworth, A. L. Coon, D. Buck, J. Huang, R. E. Clatterbuck, B. Perler, and **R. J. Tamargo**. Hyperglycemia independently increases the risk of perioperative stroke, myocardial infarction, and death after carotid endarterectomy. 56th Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois, October 7-12, 2006.

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139. Perez, A., V. Urrutia, A. Nohara, R. Llinas, E. Aldrich, A. Hillis, P. Nyquist, K. Murphy, P. Gailloud, J. Black, **R. J. Tamargo**, and R. Wityk. Natural history and management of dissecting pseudoaneurysms of the cervical cerebral arteries. International Stroke Conference 2007, San Francisco, California, February 7-9, 2007. Stroke 38: 484, 2007.

140. **Tamargo, R. J.**, K. L. Chaichana, A. P. Levy, R. Miller-Lotan, and S. Shakur. Haptoglobin 2-2 genotype determines chronic vasospasm after experimental subarachnoid hemorrhage. 60th Annual Meeting of the Neurosurgical Society of America, Kohler, Wisconsin, June 3-6, 2007.

141. Chaichana, K. L., A. P. Levy, R. Miller-Lotan, S. Shakur, and **R. J. Tamargo**. Haptoglobin 2-2 genotype determines chronic vasospasm after experimental subarachnoid hemorrhage. 57th Annual Meeting of the Congress of Neurological Surgeons, San Diego, California, September 15-20, 2007. Neurosurgery 61: 198, 2007.

142. **Tamargo, R. J.**, A. P. Levy, K. L. Chaichana, R. Miller-Lotan, and S. Shakur. Haptoglobin 2-2 genotype predisposes to chronic vasospasm after experimental subarachnoid hemorrhage. 69th Annual Meeting of the American academy of Neurological Surgery, Henderson, Nevada, October 31-November 3, 2007.

143. Chaichana, K. L., A. P. Levy, R. Miller-Lotan, S. Shakur, and **R. J. Tamargo**. The role of the haptoglobin genotype in the development of chronic vasospasm after experimental subarachnoid hemorrhage. 2008 International Stroke Conference, New Orleans, Louisiana, February 20-22, 2008.

144. Germanwala, A. V., P. Raja, J. Huang, P. Gailloud, K. P. J. Murphy, and **R. J. Tamargo**. Microsurgical clipping and endovascular coiling for intracranial aneurysms: A critical review of the literature. 61st Annual Meeting of the Neurosurgical Society of America, Whistler, British Columbia, Canada, June 1-4, 2008.

145. **Tamargo, R. J.**, P. Raja, A. Germanwala, and J. Huang. Microsurgical clipping and endovascular coiling of intracranial aneurysms: A critical review of the literature. 70th Annual

Meeting of the American Academy of Neurological Surgery, Phoenix/Sedona, Arizona, September 10-13, 2008.

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147. Schwab, K., P. Gailloud, G. Wyse, and **R. J. Tamargo**. Inaccuracy of magnetic resonance imaging (MRI) and magnetic resonance angiography (MRA) in the diagnosis of intracranial aneurysms. 58th Annual Meeting of the Congress of Neurological Surgeons, Orlando, Florida, September 20-25, 2008.

148. Froehler, M. T., A. Kooshkabadi, and **R. J. Tamargo**. Inhibition of leukocyte migration by blocking VLA-4 prevents vasospasm after subarachnoid hemorrhage in haptoglobin 2-2 mice. International Stroke Conference 2009, San Diego, California, February 17-20, 2009. (Mordecai Y. T. Globus New Investigator Award in Stroke)

149. McGirt, M. J., G. L. Garces-Ambrossi, J. Huang, and **R. J. Tamargo**. Simvastatin to prevent symptomatic vasospasm following aneurysmal subarachnoid hemorrhage: A single institution prospective study. AANS/CNS Cerebrovascular Section Meeting 2009, San Diego, California, February 16-17, 2009.

150. Momin, Eric N., and **R. J. Tamargo**. Nitric oxide reverses post-hemorrhagic cerebral vasospasm in Hp 2-2 mice. 32nd Young Investigators' Day Award, Paul Ehrlich Research Awards, Vernon B. Mountcastle Auditorium, Preclinical Teaching Building, Johns Hopkins University School of Medicine, April 16, 2009.

151. Coon, A., G. Havlena, G. Colby, G. Wyse, D. San Millan Ruiz, **R. J. Tamargo**, and P. Gailloud. Characterization of proximal A1 segment aneurysms: a possible source of occult subarachnoid hemorrhage. 77th Annual Meeting of the American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.

152. Coon, A., G. Wyse, M. Radvany, D. San Millan Ruiz, K. Murphy, **R. J. Tamargo**, J. Huang, and P. Gailloud. Safety of power-injected 3D DSA in the neurological patient: experience with 283 consecutive angiograms. 77th Annual Meeting of the American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.

153. Coon, A., G. Colby, G. Wyse, M. Radvany, D. San Millan Ruiz, **R. J. Tamargo**, P. Gailloud, and J. Huang. Prevalence of small ruptured cerebral aneurysms measured with 3D digital subtraction angiography (DSA): does size matter? 77th Annual Meeting of the American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.

154. **Tamargo, R. J.**, G. F. Woodworth, C. J. Baird, G. Garces-Ambrossi, and J. Tonascia. Inaccuracy of an administrative database: A comparative analysis between the Maryland and the Johns Hopkins Hospital neurosurgery Databases for the diagnosis and

treatment of intracranial aneurysms. 62nd Annual Meeting of the Neurosurgical Society of America, The Homestead, Hot Springs, Virginia, June 7-10, 2009.

155. Germanwala, A. V., Q.-A. Thai, G. Pradilla, and **R. J. Tamargo**. Simple technique for intraoperative angiographic localization of small vascular lesions. 62nd Annual Meeting of the Neurosurgical Society of America, The Homestead, Hot Springs, Virginia, June 7-10, 2009.

156. Momin, E. N., K. E. Schwab, K. L. Chaichana, R. Miller-Lotan, A. P. Levy, and **R. J. Tamargo**. Nitric oxide attenuates vasospasm and inhibits leukocyte migration in haptoglobin 2-2 mice following experimental subarachnoid hemorrhage. 59th Annual Meeting of the Congress of Neurological Surgeons, New Orleans, Louisiana, October 24-29, 2009.

157. Woodworth, G. F., C. J. Baird, G. L. Garces-Ambrossi, J. Tonascia, and **R. J. Tamargo**. Inaccuracy of the administrative database: Comparative analysis of two databases for the diagnosis and treatment of intracranial aneurysms. (**Selected as a Top Ten Abstract of the Council of State Neurosurgical Societies.**) 59th Annual Meeting of the Congress of Neurological Surgeons, New Orleans, Louisiana, October 24-29, 2009.

158. Momin, E., P. F. Recinos, A. Kooshkabadi, K. Chaichana, D. J. Christensen, and **R. J. Tamargo**. Evaluation of a novel apolipoprotein E-derived compound for the treatment of vasospasm in a rabbit model of subarachnoid hemorrhage. 2010 AANS/CNS Cerebrovascular Section Annual Meeting, San Antonio, Texas, February 22-23, 2010.

159. Huang, J., and **R. J. Tamargo**. Risk of de novo aneurysm formation in patients with a prior history of intracranial aneurysm. 63rd Annual Meeting of the Neurosurgical Society of America, The Inn at Spanish Bay, Pebble Beach, California, April 11-14, 2010.

160. Pradilla, G., Garzon-Muvdi, T., Momin, E.N., Thompson, R.C., and **Tamargo, R.J.** Systemic L-Citrulline administration is safe and decreases symptomatic cerebral vasospasm in haptoglobin transgenic mice after SAH. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

161. Garzon-Muvdi, T., Pradilla, G., Grossman, R., Riggins, G.J., **Tamargo, R.J.** The glutamate receptor inhibitor, S-4-Carboxyphenylglycine (S-4-CPG), crosses the blood brain barrier (BBB) in a murine model of subarachnoid hemorrhage (SAH). 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

162. Pradilla, G., Garzon-Muvdi, T., Khan, H., Momin, E.N., Pardo-Villamizar, C., **Tamargo, R.J.** ICAM-1 and VCAM-1 upregulation in transgenic haptoglobin mice after experimental SAH. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

163. Pradilla, G., Garzon-Muvdi, T., Khan, H., Momin, E.N., Pardo-Villamizar, C., **Tamargo, R.J.** Expression of the Pro-inflammatory Cytokine IL-1a in a Murine Transgenic Haptoglobin model of SAH. 60th Meeting of the Congress of Neurological Surgeons, San

San Francisco, CA, October 16-21, 2010.

164. Garzon-Muvdi, T., Pradilla, G., Khan, H., Momin, E.N., Pardo-Villamizar, C., **Tamargo, R.J.** Differential expression of the regulatory cytokine IL-10 in a mouse model of subarachnoid hemorrhage with different haptoglobin genotypes 1-1 and 2-2. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

165. Garzon-Muvdi, T., Pradilla, G., Khan, H., Momin, E.N., Pardo-Villamizar, C., **Tamargo, R.J.** Expression of the chemokine RANTES and in a mouse model of subarachnoid hemorrhage with different haptoglobin genotypes 1-1 and 2-2. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

166. Garzon-Muvdi, T., Pradilla, G., Legnani, F.G., Vargas, D.L., Thai, Q.A., Pardo-Villamizar, C., **Tamargo, R.J.** Local delivery of ibuprofen via controlled-release polymers decreases expression of cell adhesion molecule VCAM-1 in endothelial cells of intracranial vessels. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

167. Pokmeng See, A., C. Jackson, T. Garzon-Muvdi, G. F. Woodworth, and **R. J. Tamargo.** Facial Nerve Function following Vestibular Schwannoma Resection: Correlation with Final Nerve Stimulation Voltage. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

168. Pokmeng See, A., C. Jackson, T. Garzon-Muvdi, G. F. Woodworth, and **R. J. Tamargo.** Facial Nerve Function following Vestibular Schwannoma Resection: Correlation with Tumor Dimensions. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

169. Huang, J., R. D. Smith, and **R. J. Tamargo.** Screening for de novo aneurysms in patients with a prior history of cerebral aneurysms. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

170. Recinos, P. F., E. N. Momin, A. Kooshkabadi, D. J. Christensen, and **R. J. Tamargo.** Comparison of sequence homology of an apolipoprotein E-mimetic peptide (COG1410) to endogenous apolipoprotein-E in experimental species used in subarachnoid hemorrhage models. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

171. Momin, E. N., E. S. Ahn, and **R. J. Tamargo.** Indirect versus combined procedures for surgical revascularization in patients with Moyamoya Disease: A 10-year institutional experience. 60th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010.

172. Colby, G. P., A. Paul, M. Radvany, D. Gandhi, P. Gailloud, J. Huang, R. J. Tamargo, and A. L. Coon. A single center comparison of coiling versus stent-assisted coiling in

90 consecutive paraophthalmic region aneurysms. 2011 AANS/CNS Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 7-8, 2011.

173. Coon, A., A. Paul, M.-L. Lin, G. Colby, J. Huang, and **R. J. Tamargo**. Comparison of tertiary center aneurysm location frequencies in 200 consecutive cases: Where did all the P-Com aneurysms go? 64th Annual Meeting of the Neurosurgical Society of America, Mauna Lani Resort, Kohala Coast, Island of Hawaii, March 27-30, 2011.

174. Pradilla, G., T. Garzon-Muvdi, M. Bender, J. Ruzevick, L. Edwards, R. C. Thompson, and **R. J. Tamargo**. L-Citrulline treatment prevents morphometric basilar artery vasospasm and increases iNOS, eNOS, COX-1, and COX-2 expression in a transgenic murine model of SAH. 79th Annual Meeting of the American Association of Neurological Surgeons, Denver, Colorado, April 9-13, 2011.

175. Pradilla, G., T. Garzon-Muvdi, D. L. Vargas, F. G. Legnani, Q.-A. Thai, C. A. Pardo, and **R. J. Tamargo**. Intrathecally administered ibuprofen effectively decreases ICAM-1 expression and angiographic vasospasm in a primate model of SAH. 79th Annual Meeting of the American Association of Neurological Surgeons, Denver, Colorado, April 9-13, 2011.

176. Garzon-Muvdi, T., G. Pradilla, J. Ruzevick, M. Bender, L. Edwards, and **R. J. Tamargo**. Inhibition of vasospasm in haptoglobin 2-2 mice using S-4-CPG (S-4-carboxyphenylglycine), a metabotropic glutamate receptor antagonist. 79th Annual Meeting of the American Association of Neurological Surgeons, Denver, Colorado, April 9-13, 2011.

177. Garzon-Muvdi, T., G. Pradilla, E. Momin, J. Ruzevick, M. Bender, L. Edwards, and **R. J. Tamargo**. Time course of the upregulation of ICAM-1 and VCAM-1 after subarachnoid hemorrhage in Hp 2-2 mice. 79th Annual Meeting of the American Association of Neurological Surgeons, Denver, Colorado, April 9-13, 2011.

178. Pradilla, G., T. Garzon-Muvdi, J. J. Ruzevick, M. Bender, L. Edwards, E. Momin, R. C. Thompson, and **R. J. Tamargo**. L-Citrulline therapy prevents basilar artery vasospasm in haptoglobin 2-2 transgenic mice after induced subarachnoid hemorrhage. Vasospasm 2011. 11th International Conference on Neurovascular Events after SAH, Cincinnati, Ohio, July 21-23, 2011.

179. Garzon-Muvdi, T., G. Pradilla, J. Ruzevick, M. Bender, L. Edwards, and **R. J. Tamargo**. Administration of S-4-CPG (S-4-carboxyphenylglycine) decreases vasospasm in haptoglobin 2-2 mice by inhibition of metabotropic glutamate receptors. Vasospasm 2011. 11th International Conference on Neurovascular Events after SAH, Cincinnati, Ohio, July 21-23, 2011.

180. Ruzevick, J., G. Pradilla, J. Huang, and **R. J. Tamargo**. A contralateral approach to multiple cerebral aneurysms. Results from 71 cases and recommended indications. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

181. Pradilla, G., R. T. Wicks, U. Hadelsburg, and **R. J. Tamargo**. Accuracy of computed tomographic angiography in the diagnosis of intracranial aneurysms. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

182. Garzon-Muvdi, T., G. Pradilla, R. T. Wicks, J. Ruzevick, L. Edwards, M. Bender, J. A. Mejia, and **R. J. Tamargo**. Calcitonin gene-related (CGRP) expression in Hp 2-2 mice after subarachnoid hemorrhage (SAH) in intracranial structures. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

183. Wicks, R. T., G. Pradilla, S. M. Raza, J. Huang, and **R. J. Tamargo**. Effect of temporary clipping on intraoperative somatosensory evoked potentials and stroke rates after clipping of intracranial aneurysms. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

184. Pradilla, G., T. Garzon-Muvdi, M. Bender, R. T. Wicks, J. Ruzevick, C. Pardo-Villamizar, and **R. J. Tamargo**. Expression of the pro-inflammatory cytokine IL-1b in a murine transgenic haptoglobin model of SAH. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

185. Garzon-Muvdi, T., G. Pradilla, R. T. Wicks, L. Edwards, J. Ruzevick, M. Bender, and **R. J. Tamargo**. ICAM-1 and VCAM-1 expression in haptoglobin 2-2 mice after subarachnoid hemorrhage (SAH). 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

186. Wicks, R. T., G. Pradilla, S. M. Raza, U. Hadelsburg, J. Huang, and **R. J. Tamargo**. Impact of changes in intraoperative somatosensory evoked potentials (SSEPs) on stroke rates after clipping of intracranial aneurysms. 61st Meeting of the Congress of Neurological Surgeons, Washington, D.C., October 1-6, 2011.

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188. **Tamargo, R. J.**, R. T. Wicks, G. Pradilla, S. M. Raza, U. Hadelsburg, A. L. Coon, and J. Huang. Correlation of changes in intraoperative somatosensory evoked potentials (SSEPs) during aneurysm surgery with postoperative stroke rates. 73rd Annual Meeting of The American Academy of Neurological Surgery, Scottsdale, Arizona, October 19-22, 2011.

3. Reviews, Editorials, Letters, and Commentaries:

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2. **Tamargo, R. J.**, R. Langer, and H. Brem. Interstitial drug delivery to the central nervous system using controlled release polymers: chemotherapy for brain tumors. Methods in

Neurosciences. 21: 135-149, 1994.

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5. **Tamargo, R. J.**, K. A. Walter, and E. M. Oshiro. Aneurysmal subarachnoid hemorrhage: Prognostic features and outcomes. New Horizons. 5: 364-375, 1997.

6. **Tamargo, R. J.**, J. E. Conway, and G. M. Hutchins. Marfan syndrome and intracranial aneurysms. Stroke. 30: 2767-2768, 1999.

7. Samdani, A. F., **R. J. Tamargo**, and D. M. Long. Brain edema: A review of current ideas. Neurosurgery Quarterly. 9: 120-137, 1999.

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9. **Tamargo, R. J.**, D. Rigamonti, K. Murphy, P. Gailloud, J. E. Conway, and R. E. Clatterbuck. Treatment of intracranial aneurysms: surgical clipping or endovascular coiling? Annals of Neurology. 49: 682, 2001.

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11. **Tamargo, R. J.** Commentary on the World Federation of Neurological Surgeons scale for subarachnoid hemorrhage. Surgical Neurology. 59: 237-238, 2003.

12. **Tamargo, R. J.**, E. S. Connolly, Jr., G. M. McKhann, A. Khandji, Y. Chang, J. Libien, and D. Adams. Clinicopathological review: Primary angiitis of the central nervous system in association with cerebral amyloid angiopathy. Neurosurgery. 53: 136-143, 2003.

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14. Clatterbuck, R. E., and **R. J. Tamargo**. Contralateral approaches to multiple cerebral aneurysms. Neurosurgery. 57 (1 Suppl.): 160-163, 2005.

15. **Tamargo, R. J.** Commentary on “Monoclonal antibody against E-selectin attenuates subarachnoid hemorrhage–induced cerebral vasospasm” by C.-L. Lin et al., Surgical Neurology. 64: 205-206, 2005.

16. **Tamargo, R. J.** Commentary on “A saccular-like dissecting aneurysm of the anterior cerebral artery that developed 2 years after an ischemic event” by T. Iwashita et al., Surgical Neurology. 64: 541, 2005.

17. **Tamargo, R. J.**, and J. Conway. Should patients surviving subarachnoid hemorrhage from a ruptured aneurysm be given follow-up screening? Nature Clinical Practice Neurology. 2: 184-185, 2006.

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28. **Tamargo, R. J.** Commentary on “Surgical management of a paraclinoid aneurysm containing a displaced neuroform microstent: technical case report” by J. A. Thomas et al., Neurosurgery 63: E817, 2008.

29. **Tamargo, R. J.** Commentary on “Treatment of cerebral vasospasm with biocompatible controlled-release systems for intracranial drug delivery” by I. Omeis et al., Neurosurgery 63: 1011-1021, 2008.

30. **Tamargo, R. J.** Commentary on “Radiosurgery facilitates resection of brain arteriovenous malformations and reduces surgical morbidity” by R. O. Sanchez-Mejia et al., Neurosurgery 64:231-240, 2009.

31. **Tamargo, R. J.** Commentary on “Transcranial Doppler for predicting delayed cerebral ischemia after subarachnoid hemorrhage” by E. Carrera et al., Neurosurgery 65: 316-324, 2009.

32. **Tamargo, R. J.** Commentary on “Effects of raloxifene on cerebral vasospasm after experimental subarachnoid hemorrhage in rabbits” by L. Gurses et al., Surgical Neurology 72: 490-495, 2009.

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37. **Tamargo, R. J.** Commentary on “Intraventricular hemorrhage volume predicts poor outcomes but not delayed ischemic neurological deficits among patients with ruptured cerebral aneurysms” by A. H. Kramer et al., Neurosurgery 67: 1044-1053, 2010.

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39. **Tamargo, R. J.** Commentary on “The temporal profile of cerebral blood flow and tissue metabolites indicates sustained metabolic depression after experimental subarachnoid hemorrhage in rats” by T. Westermaier et al., Neurosurgery 68: 223-230, 2011.

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41. **Tamargo, R. J.** Commentary on “Anterior communicating artery aneurysm clipped via an endoscopic endonasal approach: Technical note” by S. Froelich et al., Neurosurgery 68(ONS Suppl. 2): ONS310-ONS316, June 2011.

42. **Tamargo, R. J.** Commentary on “The novel function of nesfatin-1 as an anti-inflammatory and antiapoptotic peptide in subarachnoid hemorrhage–induced oxidative brain damage in rats” by D. Özsavcı et al., Neurosurgery 68:1699-1708, June 2011.

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44. **Tamargo, R. J.** Commentary on “Cavernous malformation of the oculomotor nerve mimicking a partially thrombosed posterior communicating artery aneurysm: Report of two cases” by S. Quintero et al., Neurosurgery 69: 463, August 2011.

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4. Book Chapters, Monographs:

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18. Pradilla, G., Q.-A. Thai, and **R. J. Tamargo**. Animal models of subarachnoid hemorrhage. In Acute Stroke: Bench to Bedside. Eds. A. Bhardwaj, N. J. Alkayed, J. R. Kirsch, and R. J. Traystman. New York, New York: Informa Healthcare USA, Inc., chapter 1: 1-14, 2006.

19. Thai, Q.-A., P. Gailloud, and **R. J. Tamargo**. Aneurysms and subarachnoid hemorrhage. In Stroke. Eds. R. J. Wityk and R. H. Llinas. Philadelphia, Pennsylvania: American College of Physicians, Versa Press, chapter 17: 337-363, 2006.

20. Walker, M. F., J. Tian, X. Shan, **R. J. Tamargo**, H. Jing, and D. S. Zee. Effects of lesions in monkeys on gaze stability. In Advances in Understanding Mechanisms and Treatment of Infantile Forms of Nystagmus. Eds. R. J. Leigh and M. W. Devereaux. New York, New York: Oxford University Press, chapter 7: 55-60, 2008.

21. Huang, J., and **R. J. Tamargo**. Pterional Craniotomy for Exposure of Contralateral Aneurysms. In Neurosurgical Operative Atlas: Vascular Neurosurgery, second edition. Ed. R. Loch Macdonald. New York, New York: Thieme Medical Publishers, Inc., chapter 20: 129-136, 2008.

22. Pradilla, G., Q.-A. Thai, P. Gailloud, and **R. J. Tamargo**. Central nervous system vascular malformations. In Current Management in Child Neurology - Fourth Edition. Ed. B. L. Maria. Shelton, Connecticut: B.C. Decker, Inc. / People's Medical Publishing House, chapter 103: 715-725, 2009.

23. Chaichana, K. L., G. Pradilla, and **R. J. Tamargo**. Pediatric intracranial aneurysms. In Current Management in Child Neurology - Fourth Edition. Ed. B. L. Maria. Shelton, Connecticut: B.C. Decker, Inc. / People's Medical Publishing House, chapter 104: 726-732, 2009.

24. Colby, G. P., A. L. Coon, and **R. J. Tamargo**. Surgical management of aneurysmal

subarachnoid hemorrhage. Neurosurgery Clinics of North America 21(2): 247-261, April 2010.

25. Germanwala, A. V., J. Huang, and **R. J. Tamargo**. Hydrocephalus after aneurysmal subarachnoid hemorrhage. Neurosurgery Clinics of North America 21(2): 263-270, April 2010.

26. Pradilla, G., K. L. Chaichana, S. Hoang, J. Huang, and **R. J. Tamargo**. Inflammation and cerebral vasospasm after subarachnoid hemorrhage. Neurosurgery Clinics of North America 21(2): 365-379, April 2010.

27. Morgenstern, L. B., J. C. Hemphill, C. Anderson, K. Becker, J. P. Broderick, E. S. Connolly Jr., S. M. Greenberg, J. N. Huang, R. L. MacDonald, S. R. Messé, P. H. Mitchell, M. Selim, and **R. J. Tamargo**. Guidelines for the management of spontaneous intracerebral hemorrhage: A guideline for healthcare professionals from the American Heart Association/American Stroke association. Stroke 41: 2108-2129, 2010.

28. Colby, G. P., M. Bydon, and **R. J. Tamargo**. Pterional (Frontosphenotemporal) Craniotomy. In Core Techniques in Operative Neurosurgery. Ed. R. Jandial, P. C. McCormick, and P. M. Black. Philadelphia, Pennsylvania: Elsevier Saunders, chapter 1: 4-12, April 2011.

29. Huang, J., A. V. Germanwala, and **R. J. Tamargo**. Anterior Communicating Artery Aneurysms. In Youmans Neurological Surgery - Sixth Edition. Ed. H. R. Winn. Philadelphia: W. B. Saunders Company, volume 4, chapter 368: 3841-3852, July 2011.

30. **Tamargo, R. J.**, and J. Huang. Preface: Cranial Arteriovenous Malformations (AVMs) and Cranial Dural Arteriovenous Fistulas (DAVFs). Neurosurgery Clinics of North America, Vol. 23, No. 1: xiii-xiv, January 2012.

31. Chaichana, K. L., A. L. Coon, **R. J. Tamargo**, and J. Huang. Dural Arteriovenous Fistulas: Epidemiology and Clinical Presentation. Neurosurgery Clinics of North America, Vol. 23, No. 1: 7-13, January 2012.

32. Colby, G. P., A. L. Coon, J. Huang, and **R. J. Tamargo**. Historical Perspective of Treatments of Arteriovenous Malformations and Dural Arteriovenous Fistulas. Neurosurgery Clinics of North America, Vol. 23, No. 1: 15-25, January 2012.

33. Paul, A. R., G. P. Colby, J. Huang, **R. J. Tamargo**, and A. L. Coon. Selection of treatment modalities or observation of dural arteriovenous fistulas. Neurosurgery Clinics of North America. Vol. 23, No. 1: 77-85, January 2012.

34. Pradilla, G., A. L. Coon, J. Huang, and **R. J. Tamargo**. Surgical Treatment of Cranial Arteriovenous Malformations and Dural Arteriovenous Fistulas: Epidemiology and Clinical Presentation. Neurosurgery Clinics of North America, Vol. 23, No. 1: 105-122, January 2012.

35. See, A. P., S. Raza, **R. J. Tamargo**, and M. Lim. Stereotactic Radiosurgery of Cranial Arteriovenous Malformations and Dural Arteriovenous Fistulas. Neurosurgery Clinics of North America, Vol. 23, No. 1: 133-146, January 2012.

5. Books:

1. "Aneurysmal Subarachnoid Hemorrhage." Co-editors P. Nyquist, N. Naval, and **R. J. Tamargo**. Neurosurgery Clinics of North America, Vol. 21, No. 2, Elsevier / W. B. Saunders Company, Philadelphia, April 2010.

2. "Cranial Arteriovenous Malformations (AVMs) and Cranial Dural Arteriovenous Fistulas (DAVFs)." Co-editors **R. J. Tamargo** and J. Huang. Neurosurgery Clinics of North America, Vol. 23, No. 1, Elsevier / W. B. Saunders Company, Philadelphia, January 2012.

6. Miscellaneous Publications:

1. **Tamargo, R. J.** Derivation of hybridomas producing antibodies against the flagellar membrane of *Chlamydomonas reinhardtii*. Senior Thesis, Department of Biology, Princeton University, April, 1980.

2. **Tamargo, R. J.**, and R. Grzanna. Temporal bone, central auditory pathways, and vestibular system. In The Johns Hopkins University School of Medicine Neuroscience 1987 Laboratory Manual, Neuroscience 1987.

3. **Tamargo, R. J.** Foreword. In Crazy Visitation: A Chronicle of Illness and Recovery by Sandra Murray Nettles, Ph.D.. University of Georgia Press, Athens, Georgia, pp. xi-xviii, August 2001. (ISBN 0-8203-2299-7)

4. **Tamargo, R. J.**, and H. Brem. Editorial Comment. In Walter Dandy. The Personal Side of a Premier Neurosurgeon by Mary Ellen Dandy Marmaduke. Editors Issam A. Awad and Edward R. Laws, Jr.. Lippincott Williams & Wilkins, Baltimore, Maryland, September 2002, pp. 101-104. (ISBN 0-7817-4237-4)

C. Inventions, Patents, Copyrights:

1. "Antibiotic Composition for Inhibition of Angiogenesis." H. Brem, R. J. Tamargo, and R. Bok. Filed April 13, 1994; Application No. 08/227,100; Patent No. US 6,482,810 B1; Date of Patent November 19, 2003.

2. "Method and Composition for Inhibition of Vasospasm." R.J. Tamargo (Inventor). International Application Number PCT/US00/18323, Priority date 7/6/99, International Filing Date 6/30/00 (Pending)

D. Extramural Sponsorship:

Past:

- 1985-1988 "Experimental foundation for interstitial drug delivery in malignant gliomas: Therapy with BCNU and antiangiogenesis agents." The Association for Brain Tumor Research Fellowship Award. (Principal investigator)

- 1992-1995 "Vascular biology of brain tumors." National Cancer Institute/National Institute of Neurological Disease and Stroke Grant 1-P20-NS31081-01. (Co-investigator)

- 1993-1994 "Brain tumor therapy by the interstitial, intracerebral delivery of minocycline and BCNU." American Cancer Society Institutional Grant #IRG 11-33. (Principal investigator)

- 1994-1998 "New approaches to brain tumor therapy CNS consortium." National Cancer Institute Grant 1-UO1-CA62474-01. (Co-investigator)

- May 1996 "The use of Na/H exchange system inhibitors in the treatment of cerebral ischemia in rats." Upjohn Resident Award in Cerebrovascular Disease. (Co-sponsor for Dr. John Davis)

- February 1997 "Ibuprofen inhibition of post-hemorrhagic vasospasm." Stroke Council of the American Heart Association Student Scholarship in Cerebrovascular Disease. (Sponsor for Quoc-Anh Thai)

- March 2001 "Prevention of experimental vasospasm by local intracranial delivery of the nitric oxide donor DETA/NO from biodegradable polymers." Harold Lampport Student Research Award. (Sponsor for Patrik Gabikian)

- May 2001 "Prevention of experimental vasospasm in rabbits by local intracranial delivery of the nitric oxide donor DETA/NO from biodegradable polymers." Stroke Council of the American Heart Association Student Scholarship in Cardiovascular Disease and Stroke. (Sponsor for Patrik Gabikian)

- Jan. 2002-
Dec. 2005 "The inflammatory hypothesis of cerebral vasospasm: Leukocytes as mediators and therapeutic targets." American Heart Association-Bugher Foundation Award for the Investigation of Stroke Grant 0270175N. (Principal investigator)
Total Costs: \$400,000
Annual Total Costs: \$100,000
Annual Direct Costs: \$90,901

- 2003-2005 Endovascular Surgical Neuroradiology Fellowship Program. American Society of Interventional Neuroradiology (ASITN) and American Association on Neurosurgeons

(AANS/CNS) (Section of Cerebrovascular Disease Endovascular Surgical)
Total Costs: \$100,000.
Annual Total Costs: \$50,000

E. Intramural Sponsorship:

1995-1997 "Inflammatory basis for post-hemorrhagic cerebral vasospasm and its treatment with local therapy." Richard S. Ross Clinician Scientist Award.
(Principal investigator)

III. EDUCATIONAL ACTIVITIES

A. Teaching:

1. Classroom, Clinical, and CME Instruction:

(Teaching role is that of "lecturer" unless otherwise specified)

1. 1986-1988 (January-March) "Introductory Neurosciences" Course for first-year medical students, Johns Hopkins University School of Medicine
Teaching Assistant
2. Feb. 25, 1987 "Introduction to the Anatomy of the Temporal Bone." Introductory Neurosciences Course for first-year medical students, Johns Hopkins University School of Medicine
3. Feb. 24, 1988 "Introduction to the Anatomy of the Temporal Bone." Introductory Neuroscience Course for first-year medical students, Johns Hopkins University School of Medicine
4. 1992-Present "Introduction to Microsurgical Neuroanatomy." Course for Neurosurgery residents and visiting neurosurgeons.
Department of Neurosurgery
Johns Hopkins University School of Medicine
Course Director and Lecturer
5. Jan. 5, 1994 "Pediatric Brain Tumors." The Osler Institute, Omni Inner Harbor Hotel, Baltimore, Maryland.
6. Jan. 11, 1995 "Cerebral Aneurysms." Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
7. Feb. 1, 1995 "Cerebral Arteriovenous Malformations." Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
8. Mar. 10, 1995 "Management and Physiology of Head Trauma." Neurosciences Course for second-year medical students, Johns Hopkins University School of Medicine

9. Mar. 30, 1995 “Pediatric Cerebral Arteriovenous Malformations.” Pediatric Resident Conference, Department of Pediatrics, Johns Hopkins Hospital
10. July 5, 1995 “Cerebral Aneurysms.” Neurosciences Nursing Seminar, Meyer 7, Johns Hopkins Hospital
11. Mar. 8, 1996 “Cerebral Aneurysms: A Clinical Correlation.” Neurosciences Course for first-year medical students, Johns Hopkins University School of Medicine
12. Mar. 12, 1996 “Management and Physiology of Head Trauma.” Neuroscience Course for second-year medical students, Johns Hopkins University School of Medicine
13. June 12, 1996 “Chiari Malformation.” Neurosciences Nursing Seminar, Meyer 9, Johns Hopkins Hospital
14. July 24, 1996 “Cerebral Aneurysms and Arteriovenous Malformations.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
15. Oct. 1, 1996 “Carotid Endarterectomy.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
16. Nov. 14, 1996 “Brain Edema.” Neurosurgery Resident Conference, Department of Neurosurgery, Johns Hopkins Hospital
17. Feb. 20, 1997 “Subarachnoid Hemorrhage.” Neurosurgery Resident Conference, Department of Neurosurgery, Johns Hopkins Hospital
18. Feb. 28, 1997 “Management and Physiology of Head Trauma.” Neurosciences Course for second-year medical students, Johns Hopkins University School of Medicine
19. Mar. 7, 1997 “Cerebral Aneurysms: A Clinical Correlation.” Neuroscience Course for first-year medical students, Johns Hopkins University School of Medicine
20. Apr. 28, 1997 “Cerebral Aneurysms and Subarachnoid Hemorrhage.” Neurosciences Nursing Seminar, Meyer 8, Johns Hopkins Hospital
21. May 1, 1997 “Cerebral Arteriovenous Malformations” Neurosurgery Resident Conference, Department of Neurosurgery, Johns Hopkins Hospital
22. May 24, 1997 “Brain Arteriovenous Malformations and Aneurysms.” AVM and Aneurysm Support Group of Maryland Meeting, Maryland Rehabilitation Center, Baltimore, Maryland

23. July 8, 1997 “Aneurysmal Subarachnoid Hemorrhage.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
24. Feb. 27, 1998 “Management and Physiology of Head Trauma.” Neurosciences Course for second-year medical students, Johns Hopkins University School of Medicine
25. Mar. 27, 1998 “Cerebral Aneurysms: A Clinical Correlation.” Neuroscience Course for first-year medical students, Johns Hopkins University School of Medicine
26. July 28, 1998 “Aneurysmal Subarachnoid Hemorrhage.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
27. Aug. 12, 1998 “Clinical Management of Cerebral Arteriovenous Malformations.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
28. Sept. 17, 1998 “Brain AVMs and Aneurysms.” Stroke Group, Johns Hopkins Bayview Medical Center, Baltimore, Maryland
29. Nov. 4, 1998 “Management and Physiology of Head Trauma.” Neurosciences Course for second-year medical students, Johns Hopkins University School of Medicine
30. Dec. 15, 1998 “Diagnosis and Management of Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
31. May 5, 1999 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
32. July 21, 1999 “Clinical Features and Outcomes in Aneurysmal Subarachnoid Hemorrhage.” Neurology Resident Conference, Department of Neurology, Johns Hopkins Hospital
33. Sept. 15, 1999 “Intracranial Aneurysms and Subarachnoid Hemorrhage.” Mind-Brain Institute, Johns Hopkins University, Baltimore, Maryland
34. Nov. 19, 1999 “Management and Physiology of Head Trauma.” Neurosciences Course for second-year medical students, Johns Hopkins University School of Medicine
35. Nov. 23, 1999 “Clinical Presentation of Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
36. Mar. 31, 2000 “Carotid Stenosis and Cerebral Aneurysms: A Clinical Correlation.”

Neuroscience Course for first-year medical students, Johns Hopkins University School of Medicine

37. Apr. 18, 2000 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
38. July 1, 2000 “Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
39. July 1, 2000 “Intraparenchymal Hemorrhages.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
40. July 1, 2000 “Extracranial Occlusive Disease: Carotid Stenosis.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
41. July 1, 2000 “Brain Biopsy in Neurodegenerative Disorders.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
42. Sept. 23, 2000 “What the Internist Should Know About Cerebral Aneurysms.” Saturday Medicine Lecture, Department of Medicine, Johns Hopkins Hospital
43. Sept. 26, 2000 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
44. Dec. 19, 2000 “Aneurysmal Subarachnoid Hemorrhage: Clinical Presentation, Evaluation, and Outcomes.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
45. Feb. 15, 2001 “Head Injury and Intracranial Pressure Physiology.” Neuroscience Course for second-year medical students, Johns Hopkins University School of Medicine
46. Mar. 8, 2001 “Chronic Post-hemorrhagic Vasospasm.” Neurosciences Operating Room Nursing Conference, Johns Hopkins Hospital
47. Mar. 26, 2001 “Aneurysmal Subarachnoid Hemorrhage.” Meyer Clinical Neurosciences Nursing Seminar, Johns Hopkins Hospital
48. Mar. 30, 2001 “Carotid Stenosis and Cerebral Aneurysms: A Clinical Correlation.” Neuroscience Course for first-year medical students, Johns Hopkins University School of Medicine

49. Apr. 17, 2001 “Aneurysmal Subarachnoid Hemorrhage: Clinical Presentation, Evaluation, and Outcomes.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
50. July 1, 2001 “Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
51. July 1, 2001 “Evaluation and Treatment of Carotid Stenosis.” Neurosurgery Residents’ Symposium on Neurosurgical Emergencies, Department of Neurosurgery, Johns Hopkins Hospital
52. Sept. 21, 2001 “Aneurysmal Subarachnoid Hemorrhage: Clinical Presentation, Evaluation, and Outcomes.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
53. Oct. 18, 2001 “Brain AVMs and Aneurysms.” Stroke Group, Johns Hopkins Bayview Medical Center, Baltimore, Maryland
54. Nov. 1, 2001 “An Update on Aneurysmal Subarachnoid Hemorrhage.” Neurology Resident’s Clinical (Noon) Conference, Johns Hopkins Hospital
55. Dec. 6, 2001 “The Diagnostic Challenge of Aneurysmal Subarachnoid Hemorrhage.” Cader Internal Medicine Conference for Housestaff, Johns Hopkins Hospital
56. Feb. 12, 2002 “Diagnostic Challenge of Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
57. June 28, 2002 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
58. Sept. 5, 2002 “Controversies in the Diagnosis of Aneurysmal Subarachnoid Hemorrhage.” Cader Internal Medicine Conference for Housestaff, Johns Hopkins Hospital
59. Oct. 22, 2002 “Intracranial Aneurysms and Subarachnoid Hemorrhage.” Neurosciences Nursing Talks, Meyer 9 Conference Room, Johns Hopkins Hospital
60. Jan. 31, 2003 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
61. Apr. 30, 2003 “Aneurysmal Subarachnoid Hemorrhage: Evaluation, Treatment, and Outcomes.” Neurosciences Nursing Conference, Johns Hopkins Hospital
62. Apr. 30, 2003 “Arteriovenous Malformations: Evaluation, Treatment, and Outcomes.”

Neurosciences Nursing Conference, Johns Hopkins Hospital

63. June 20, 2003 “Aneurysmal Subarachnoid Hemorrhage.” Neurosciences Medical Student Lecture Series, Johns Hopkins Hospital
64. July 2003-Present “Cerebrovascular Neurosurgery Conference.” Didactic weekly conference for Neurosurgery residents, medical students, and visiting neurosurgeons, Department of Neurosurgery, Johns Hopkins Hospital.
Organizer, moderator, and lecturer
65. July 23, 2003 “Misdiagnosis in Aneurysmal Subarachnoid Hemorrhage.” Cader Internal Medicine Conference for Housestaff, Johns Hopkins Hospital
66. Mar. 24, 2004 “Aneurysmal Subarachnoid Hemorrhage.” Neurology Resident Conference, Johns Hopkins Hospital
67. Aug. 24, 2004 “Epidemiology, Diagnosis, and Treatment of Aneurysmal Subarachnoid Hemorrhage.” Cader Internal Medicine Conference for Housestaff, Johns Hopkins Hospital
68. Jan. 27, 2005 “An Update on Federal Medical Liability Reform.” Neurosurgery Grand Rounds, Johns Hopkins Hospital
69. Sept. 28, 2005 “An Update on Vasospasm after Aneurysmal Subarachnoid Hemorrhage” Neurosciences Critical Care Unit (NCCU) Nursing Grand Rounds, Johns Hopkins Hospital
70. Jan. 10, 2006 “Clinical and Research Update on Vasospasm after Aneurysmal Subarachnoid Hemorrhage” Neurosciences Critical Care Unit (NCCU) Nursing Rounds, Johns Hopkins Hospital
71. Aug. 2, 2006 “Vasospasm after Aneurysmal Subarachnoid Hemorrhage: Case Study and Research Update.” Herlong Rounds for the Johns Hopkins University School of Medicine M.D.-Ph.D. Program, Johns Hopkins Hospital, 1830 Building

B. Mentoring:

1. Advisees Mentored in Both Post-Doctoral and Pre-Doctoral Stages:

1. Allen K. Sills, Jr., M.D., 1994-1996 and 1989

Assistant Professor in Neurosurgery
University of Tennessee / Semmes-Murphey Clinic
6325 Humphreys Blvd.
Memphis, Tennessee 38120

2. Richard E. Clatterbuck, M.D., Ph.D., 1999-2001 and 1995

Assistant Professor in Neurosurgery
Division of Cerebrovascular Neurosurgery
Johns Hopkins University School of Medicine
600 North Wolfe Street, Meyer Suite 8-181
Baltimore, Maryland 21287

Award: Galbraith Award for Best Abstract Submission by a Resident on Cerebrovascular Disease, 52nd Annual Meeting of the Congress of Neurological Surgeons, Philadelphia, Pennsylvania.

3. Quoc-Anh Thai, M.D., 2003-(2005) and 1997
Resident in Neurosurgery and Cerebrovascular Research Fellow
Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287

Award: Stroke Council of the American Heart Association Student Scholarship in Cerebrovascular Disease.

2. Post-doctoral Advisees:

1. Reid C. Thompson, M.D., 1993-1995
Assistant Professor, Department of Neurosurgery
Vanderbilt University Medical Center
T4224 MCN
Nashville, Tennessee 37232
2. Neal J. Naff, M.D., 1997
Assistant Professor (Part-time Staff), Department of Neurosurgery
Johns Hopkins University School of Medicine / Sinai Hospital
Baltimore, Maryland 21287
3. Eric M. Oshiro, M.D., 1996-1997
Private practice
Honolulu, Hawaii
4. John D. Davis, M.D., 1996-1997
Private practice
105 Summit Grove
Jackson, Mississippi 39047

Upjohn Resident Award in Cerebrovascular Disease.

5. David F. Antezana, M.D., 1998-2000
Private practice
Ste. 440, 9155 S.W. Barnes Road

Portland, Oregon 97225

6. Veronica L. Chiang, M.D., 2000-2001
Assistant Professor, Department of Neurosurgery
Yale University School of Medicine
New Haven, Connecticut
7. Paul P. Wang, M.D., 2001-2003
Resident in Neurosurgery, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
8. Gustavo Pradilla, M.D., 2002-2005
(From Bogota, Colombia)
Cerebrovascular Research Fellow, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
9. Federico Legnani, M.D., 2002-2003
(From Italy)
Research Fellow, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
10. Quoc-Anh Thai, M.D. 2003-2005
Resident in Neurosurgery, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
11. Michael T. Froehler, M.D., Ph.D. 2007-2008
Resident in Neurology, Department of Neurology
Johns Hopkins School of Medicine
Baltimore, Maryland 21287

Award: Mordecai Y. T. Globus New Investigator Award in Stroke

12. Tomas Garzon-Muvdi, M.D. 2009-2010
Research Fellow, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, MD 21287

3. Pre-Doctoral Advisees:

1. Michael B. Yang, M.D., 1988-1989
Assistant Professor in Pediatric Ophthalmology
Cincinnati Children's Hospital Medical Center

Department of Pediatric Ophthalmology
3333 Burnet Avenue, Location E 4510 ML 4008
Cincinnati, Ohio 45229

2. John S. Myseros, M.D., 1987
Assistant Professor in Neurosurgery and Pediatrics
Cincinnati Children's Hospital Medical Center
Department of Pediatric Neurosurgery
3333 Burnet Avenue, Location E 4510 ML 4008
Cincinnati, Ohio 45229
 3. Sam P. Javedan, M.D., 1997
Resident in Neurosurgery, Department of Neurosurgery
Barrow Neurological Institute
Phoenix, Arizona
 4. James E. Conway, M.D., 1998-2000
Resident in Neurosurgery, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
 5. Patrik Gabikian, M.D., 2001
Resident in Neurosurgery, Department of Neurosurgery
University of Washington
Seattle, Washington
- Award:* Harold Lamport Student Research Award.
- Award:* Stroke Council of the American Heart Association Student
Scholarship in Cerebrovascular Disease.
6. Travis S. Tierney, M.D., Ph.D., 2002
Resident in Neurosurgery, Department of Neurosurgery
Massachusetts General Hospital
Boston, Massachusetts
 7. James L. Frazier, M.D., 2002
Resident in Neurosurgery, Department of Neurosurgery
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
 8. Ricardo J. Komotar, M.D., 2002
Resident in Neurosurgery, Department of Neurosurgery
Columbia-Presbyterian Medical Center
New York, New York

9. Ryan M. Kretzer, 2003
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
10. Wesley Hsu, 2003
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
11. Pablo Recinos, 2004-2006
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
12. Kaisorn Chaichana, 2006-2008
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
13. Eric Momin, 2007-2010
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
14. Kristin Schwab, 2007-2008
College student
Princeton University
Princeton, New Jersey 08540
15. Sophia Shakur, 2007-2009
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
16. Ali Kooshkabadi, 2008-2009
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287
17. Pushpa V. Raja, 2007-2008
Medical student
Johns Hopkins University School of Medicine
Baltimore, Maryland 21287

18. Joshua Kenny, 2008
College student
Virginia Military Institute
Lexington, Virginia

3. Training Grant Participation:

National Institutes of Health Training Grant for Neurointerventional Radiology
(Co-director with Dr. Kieran Murphy of Neuroradiology) - July 2003-June 2004

C. Editorial Activities:

| | |
|--------------|---|
| 2001-2004 | Reviewer for <u>Annals of Neurology</u> |
| 2001-2009 | Reviewer for <u>Surgical Neurology</u> |
| 2003-2009 | Editorial Board member of <u>Surgical Neurology</u> |
| 2004-Present | Reviewer for <u>Stroke</u> |
| 2004-Present | Reviewer for <u>Journal of Cerebral Blood Flow and Metabolism</u> |
| 2005-2006 | Reviewer for <u>Brain Research Bulletin</u> |
| 2005-Present | Reviewer for <u>Neurosurgery</u> |
| 2006 | Reviewer for <u>Archives of General Psychiatry</u> |
| 2006, 2011 | Reviewer for <u>Brain Research</u> |
| 2006-Present | Reviewer for <u>New England Journal of Medicine</u> |
| 2007 | Reviewer for <u>Urology</u> |
| 2008 | Reviewer for <u>Journal of Neuroscience Research</u> |
| 2008 | Reviewer for <u>Journal of Neuroimmunology</u> |
| 2009 | Reviewer for <u>Clinical Anatomy</u> |
| 2010-Present | Reviewer for <u>World Neurosurgery</u> |
| 2011 | Reviewer for <u>Archives of Surgery</u> |
| 2011-Present | Reviewer for <u>Surgical Neurology International</u> |
| 2011 | Reviewer for <u>Journal of Neuroinflammation</u> |

IV. CLINICAL ACTIVITIES

A. Certification:

1. Licensure:

State of Maryland (D41887) - June 1991
D.E.A. Certification (BT 3836042) - November 1993

2. Board Certification:

National Board of Medical Examiners - July 1985

American Board of Neurological Surgery
Primary (Written) Examination - March 1988

Diplomate of the American Board of Neurological Surgery
Oral Examination - November 1995

B. Service Responsibilities:

1992-Present Attending neurosurgeon, Johns Hopkins Hospital

1994-Present Attending neurosurgeon, Johns Hopkins Bayview Medical Center

V. ORGANIZATIONAL ACTIVITIES

A. Institutional Administrative Appointments:

1992-1996 Neurosurgery Representative
Tissue Committee
Johns Hopkins Hospital

1993-Present Director, Microneurosurgery Laboratory
Department of Neurosurgery
Johns Hopkins University School of Medicine

1993-2009 Quality Improvement Physician Advisor
Neurosciences Quality Improvement Committee
Johns Hopkins Hospital

1993-1995 Elected Representative
Medical School Council
Johns Hopkins University School of Medicine

1995-1997 Re-elected Representative
Medical School Council
Johns Hopkins University School of Medicine

1996-2000 Co-Director
Division of Cerebrovascular Neurosurgery
Department of Neurosurgery
Johns Hopkins University School of Medicine

2000-Present Director
Division of Cerebrovascular Neurosurgery
Department of Neurosurgery
Johns Hopkins University School of Medicine

2000-2008 Member
Associate Professor Promotions Committee
Johns Hopkins University School of Medicine

2002 Member
Clinical Practice Association
Budget, Finance, and Planning Committee
Johns Hopkins University School of Medicine

- 2002-2003 Member
Search Committee for Chairman of Department of Otolaryngology
Johns Hopkins University School of Medicine
- 2008-2009 Member
Institutional Claims Committee
Johns Hopkins Health System
- 2009-Present Vice-Chairman (Quality and Safety)
Department of Neurosurgery
Johns Hopkins University School of Medicine

B. Professional Societies:

- 1989-Present Active Member
Joint Section on Tumors (AANS/CNS)
- 1992-Present Active Member
Alpha Omega Alpha Honor Medical Society
- 1994-Present Active Member
Joint Section on Cerebrovascular Surgery (AANS/CNS)
- 1994-Present Active Member
American Association of Neurological Surgeons
- 1997-Present Active Member
Congress of Neurological Surgeons
- 1997-Present Fellow
American College of Surgeons
- 1997 Guest Fellow
Association of Medical Illustrators
- 1998-2006 Active Member
Medical and Chirurgical Faculty of Maryland
- 1998-2006 Active Member
Baltimore City Medical Society
- 1999-Present Active Member
Neurosurgical Society of America
- 2009-Present Active Member

American Academy of Neurological Surgery

C. Session Moderator, Chair, Discussant:

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| July 2003 | Member of International Scientific Committee for the 8th International Conference on Cerebral Vasospasm, Chicago, Illinois, Co-Moderator of Session 7, “Clinical and Medical Aspects,” July 11, 2003. |
| June 2007 | Session co-moderator and discussant, “Special Topics in Skull Base Surgery,” 2 nd International Meeting, Updates in Neuro-Oncology, Brain Tumor satellite Symposium of the 56 th Congresso Nazionale SINch/Congress of Neurological Surgeons, Cortona, Italy, June 28-30, 2007. |
| Sept. 2007 | Course co-director, “Surgical Indications, Techniques, and Alternatives for Cranial Vascular Malformations,” Annual 2007 Meeting of the Congress of Neurological Surgeons, San Diego, California, September 15-20, 2007. |
| Sept. 2008 | Course co-director, “Surgical Indications, Techniques, and Alternatives for Cranial Vascular Malformations,” Annual 2008 Meeting of the Congress of Neurological Surgeons, Orlando, Florida, September 21, 2008. |
| Oct. 2009 | Course co-director, “Surgical Indications, Techniques, and Alternatives for Cranial Vascular Malformations,” 59th Annual Meeting of the Congress of Neurological Surgeons, New Orleans, Louisiana, October 24-29, 2009. |
| Oct. 2010 | Course co-director, “Cranial Vascular Malformations: Surgical and Endovascular Techniques,” 60 th Meeting of the Congress of Neurological Surgeons, San Francisco, CA, October 16-21, 2010. |
| July 2011 | Member of International Scientific Committee, Vasospasm 2011: 11th International Conference on Neurovascular Events after SAH, Cincinnati, Ohio, July 21-23, 2011. |

VI. RECOGNITION

A. Honors and Awards:

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| 1980 | Princeton University Bachelor of Arts Magna Cum Laude |
| 1985-1988 | Clinical and Research Fellowship Brain Tumor Laboratory Department of Neurosurgery Johns Hopkins University School of Medicine |
| 1985-1987 | Brain Tumor Research Fellowship Award The Association for Brain Tumor Research |

Chicago, Illinois

- 1987-1988 Competitive extension, Brain Tumor Fellowship Award
The Association for Brain Tumor Research
Chicago, Illinois
- May 1988 Maryland Neurological Society
Ciba-Geigy Award
Best Paper in Basic Science Research in Neurosurgery
Maryland Neurological Society
Annual Resident's Research Symposium
- 1992 Alpha Omega Alpha Honor Medical Society
- June 1995 Neurosurgery Faculty Teaching Award
Department of Neurosurgery
Johns Hopkins University School of Medicine
- June 1995 Richard S. Ross Clinician Scientist Award
Johns Hopkins University School of Medicine
- June 1996 Competitive renewal, Richard S. Ross Clinician Scientist Award
Johns Hopkins University School of Medicine
- Sept. 2002 Galbraith Award for Best Abstract Submission by a Resident on
Cerebrovascular Disease (senior author and sponsor of Dr. Richard E.
Clatterbuck), 52nd Annual Meeting of the Congress of Neurological
Surgeons, Philadelphia, Pennsylvania.
- Nov. 2004 Walter E. Dandy, M.D., Professorship/Chair
Johns Hopkins University School of Medicine
- Nov. 2004 Walter E Dandy, M.D., Guest Lecturer
Department of Neurosurgery
Johns Hopkins University School of Medicine
- Oct. 2006 Professional Achievement Recognition
"Transforming Influences"
The Johns Hopkins Campaign: Knowledge for the World
Gala Dinner, Ralph S. O'Connor Recreation Center
Johns Hopkins University Homewood Campus
- Feb. 2009 Mordecai Y. T. Globus New Investigator Award for Stroke Abstract
(senior author and sponsor of Dr. Michael T. Froehler), International
Stroke Conference 2009, San Diego, California.

- April 2009 Paul Ehrlich Research Award (senior author and sponsor of Eric N. Momin), 32nd Young Investigators' Day Award, Vernon B. Mountcastle Auditorium, Preclinical Teaching Building, Johns Hopkins University School of Medicine.
- May 2011 Guest examiner for the American Board of Neurological Surgery (ABNS), 161st Meeting, Marriott Medical Center Hotel, Houston, Texas. Invited by Dr. Daniel Barrow, Secretary of the ABNS.
- Jan. 2012 Harold Lamport Research Scholar Award for "Involvement of the Haptoglobin Gene locus in the formation of extracranial aneurysms" (senior author and sponsor of Jacob Ruzevick), Johns Hopkins University School of Medicine.

B. Invited Talks, Panels:

1. April 29, 1987 "Inhibition of Brain Tumor Angiogenesis." Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
2. Jan. 26, 1988 "Interstitial Chemotherapy for Malignant Gliomas." Neurological Surgery Research Conference, The National Institutes of Health, Bethesda, Maryland
3. March 16, 1988 "Experimental Background of Interstitial Chemotherapy for Malignant Gliomas." Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
4. May 10, 1988 "Experimental Foundation for Interstitial Drug Delivery in Malignant Gliomas: Therapy with BCNU and Antiangiogenesis Agents." The Association for Brain Tumor Research, Chicago, Illinois, at the Sheraton International at O'Hare Hotel, Rosemont, Illinois
5. Sept. 18, 1989 "Intracranial Interstitial Chemotherapy." Combined Neurology-Neurosurgery Conference, Department of Neurology, The Francis Scott Key Medical Center, Baltimore, Maryland
6. Oct. 31, 1992 "Cerebral Edema." General Surgery Grand Rounds, Johns Hopkins Hospital
7. June 11, 1993 "Advances in Cerebrovascular Surgery." Johns Hopkins School of Medicine Biennial Meeting
8. March 6, 1996 "The Pterional Craniotomy: A Historical and Anatomical Perspective." Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
9. Jan. 18, 1997 "Interstitial Chemotherapy for Brain Tumors: Research and Development

of Gliadel.” Annual Scientific Meeting, San Juan Community Clinical Oncology Program (CCOP), El San Juan Hotel, San Juan, Puerto Rico

10. April 24, 1997 “Deep Hypothermic Cardiopulmonary Bypass for Intracranial Aneurysm Surgery.” Cardiac Surgery Grand Rounds, Division of Cardiac Surgery, Johns Hopkins Hospital
11. May 27, 1997 “Immunobiology of Post-Hemorrhagic Vasospasm.” Clinical Neurosciences Research Seminar, Johns Hopkins Hospital
12. June 5, 1997 “Immunobiology of Experimental Vasospasm.” Neurosurgery Research Conference, Department of Neurosurgery, The University of Chicago Medical Center, Chicago, Illinois. Invited by Dr. Bryce K. A. Weir and Dr. R. Loch Macdonald.
13. June 6, 1997 “Immunobiology of Post-Hemorrhagic Vasospasm.” Johns Hopkins School of Medicine Biennial Meeting
14. June 16, 1997 “Immunobiology of Experimental Vasospasm.” Neuroradiology Conference, Johns Hopkins Hospital
15. July 27, 1997 “Neurovascular Anatomy of Intracranial Aneurysm Surgery: The Frontotemporal Approach.” 52nd Annual Meeting of the Association of Medical Illustrators, Omni Inner Harbor Hotel, Baltimore, Maryland
16. Oct. 6, 1997 “Immunobiology of Experimental Post-Hemorrhagic Vasospasm.” Invited Scientific Seminar, ICOS Corporation, Bothell, Washington
17. Oct. 8, 1997 “Immunology of Experimental Post-Hemorrhagic Vasospasm.” Visiting Professor lecture at Neurosurgery Grand Rounds, Department of Neurosurgery, University of Washington, Seattle, Washington. Invited by Dr. H. Richard Winn and Dr. Michel Kliot.
18. Oct. 22, 1997 “Immunobiology of Experimental Post-Hemorrhagic Vasospasm.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
19. Nov. 1, 1997 “Immunobiology of Post-Hemorrhagic Vasospasm.” General Surgery Grand Rounds, Johns Hopkins Hospital
20. Nov. 5, 1997 “Surgical Management of Cerebral Hemorrhages.” *Trends in Patient Management* Conference of the Maryland Academy of Physicians Assistants, Sheraton Baltimore North, Towson, Maryland
21. April 23, 1998 “Contralateral Approaches to Bilateral Supratentorial Aneurysms: Microsurgical Cadaver Studies and Operative Series.” Brazilian Neurosurgical Conference at Johns Hopkins, Johns Hopkins Hospital

22. April 28, 1998 “Diagnostic Workup for Common Vascular Disorders: Noninvasive, Invasive. Cerebrovascular Disease.” American College of Surgeons 26th Annual Spring Meeting, Baltimore Convention Center, Baltimore, Maryland
23. Sept. 30, 1998 “Medical and Surgical Therapy of Deep Spontaneous Intraparenchymal Hemorrhages.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
24. Oct. 1, 1998 “Immunobiology of Chronic Post-Hemorrhagic Vasospasm.” Research Conference, Department of Anesthesiology, Johns Hopkins Hospital
25. Oct. 7, 1998 “Spontaneous Intraparenchymal Hemorrhage: Medical Vs. Surgical Therapy.” Seminar Presentation, Congress of Neurological Surgeons, Seattle, Washington
26. Nov. 12, 1998 “Immunobiology of Experimental Chronic Post-Hemorrhagic Vasospasm.” Visiting Professor lecture in Neurosurgery Grand Rounds, Department of Neurosurgery, Neurological Institute, Columbia University, New York City, New York. Invited by Dr. Robert A. Solomon and Dr. E. Sander Connolly, Jr.
27. Nov. 24, 1998 “Immunobiology of Experimental Chronic Post-Hemorrhagic Vasospasm.” Neuroscience Critical Care Research Conference, Johns Hopkins Hospital
28. March 5, 1999 “Is Vasospasm after Aneurysmal Subarachnoid Hemorrhage an Inflammatory Arteriopathy? Experimental and Clinical Evidence.” Visiting Professor lecture at Neurosurgery Grand Rounds, Stanford University Medical Center, Stanford, California. Invited by Dr. Gary K. Steinberg and Dr. Steven Cheng.
29. June 25, 1999 “Aneurysmal Subarachnoid Hemorrhage: Prognostic Features and Outcomes.” Neurological and Neurosurgical Emergencies Course, Johns Hopkins Medicine/Fondazione Agarini, Hyatt Regency, Baltimore, Maryland
30. Sept. 9, 1999 “Aneurysmal Subarachnoid Hemorrhage.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
31. Sept. 15, 1999 “Intracranial Aneurysms and Subarachnoid Hemorrhage.” Mind-Brain Institute, Johns Hopkins University, Baltimore, Maryland
32. Oct.25, 1999 “Special Topics in Intracranial Aneurysms: Neuroradiology, Post-Hemorrhagic Vasospasm, and Deep Hypothermic Cardiopulmonary

Bypass.” Brazilian Neurosurgical Conference at Johns Hopkins, Johns Hopkins Hospital

33. Dec. 7, 1999 “Is Vasospasm after Aneurysmal Subarachnoid Hemorrhage an Inflammatory Arteriopathy? Experimental and Clinical Evidence.” Clinical Neurosciences Research Conference, Johns Hopkins Hospital
34. Jan. 27, 2000 “Anti-inflammatory Therapy in Chronic Vasospasm and Possibly Ischemia after Aneurysmal Subarachnoid Hemorrhage.” Grand Rounds, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital
35. Feb. 9, 2000 “Experimental Evidence Supports an Inflammatory Role in Chronic Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” Neuroradiology Research Conference, Phipps Building, Johns Hopkins Hospital
36. April 8-13, 2000 “Intraoperative Angiography in Aneurysm, AVM, and AVF Surgery.” (Presented by Dr. Daniele Rigamonti.) American Association of Neurological Surgeons Annual Meeting, San Francisco, California
37. May 5, 2000 “Update on Cerebral Aneurysms.” 45th Annual Philip A. Tumulty Topics in Clinical Medicine 2000, Johns Hopkins Hospital
38. Sept. 10, 2000 “Carotid Endarterectomy: Radiographic Evaluation and Surgical Outcomes.” The Johns Hopkins Hands-On Stenting Conference, Château Mont Tremblant, Mont-Tremblant, Quebec, Canada
39. Sept. 22, 2000 “Special Topics in Intracranial Aneurysms: Contralateral Approaches, Endovascular Coiling, and Unruptured Aneurysms.” Brazilian Neurosurgical Conference at Johns Hopkins, Johns Hopkins Hospital
40. Oct. 12, 2000 “Carotid Endarterectomy: Evaluation and Outcomes.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
41. Dec. 11, 2000 “Chronic Vasospasm after Aneurysmal Subarachnoid Hemorrhage: Experimental Therapeutic Approaches.” Clinical Neurosciences Research Conference, Johns Hopkins Hospital
42. March 30, 2001 “What Is the Risk of an Unruptured Cerebral Aneurysm?” Cerebrovascular Topics at Johns Hopkins, Focus on Acute Stroke Therapies, Thomas B. Turner Building, Johns Hopkins University School of Medicine
43. April 26, 2001 “Contralateral Frontosphenotemporal Approaches to Bilateral Aneurysms.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
44. May 2, 2001 “Contralateral Approaches to Bilateral Supratentorial Aneurysms.”

Teleconference to OSDE Neurosurgical Seminar, Buenos Aires, Argentina, from Johns Hopkins Hospital. Invited by Dr. Mario Colonna.

45. May 26, 2001 “Contralateral Approaches to Bilateral Supratentorial Aneurysms: Anatomical Studies and Surgical Results.” Invited lecture, XIII Reunião da Sociedade Portuguesa de Neurocirurgia (13th Conference of the Portuguese Neurosurgery Society), Oporto, Portugal. Invited by Dr. Ernesto Carvalho and Dr. Joaquim L. Reis.
46. July 29, 2001 “Walter Dandy and the Birth of Modern Vascular Neurosurgery.” Donlin M. Long Scientific Symposium, Johns Hopkins Hospital
47. Sept. 29-
Oct. 4, 2001 “Posterior Circulation Aneurysms: Microsurgical Clipping Vs. Endovascular Coiling.” (Presented by Dr. Daniele Rigamonti.) Congress of Neurological Surgeons, 51st Annual Meeting, San Diego California
48. Oct. 22, 2001 “Leukocyte-Mediated Chronic Post-Hemorrhagic Vasospasm After Aneurysmal Subarachnoid Hemorrhage.” Clinical Neurosciences Research Conference, Johns Hopkins Hospital
49. Nov. 20, 2001 “Leukocyte-Mediated Chronic Post-Hemorrhagic Vasospasm After Aneurysmal Subarachnoid Hemorrhage.” Neuroscience Critical Care Research Conference, Johns Hopkins Hospital
50. April 11, 2002 “Walter Dandy, George Heuer, Harvey Cushing and the Birth of Cerebrovascular Neurosurgery.” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
51. April 26, 2002 “Carotid Endarterectomy.” Grand Rounds, Department of Medicine, Johns Hopkins Hospital
52. June 27, 2002 “Routine Intraoperative Angiography During Aneurysm Surgery: A New Standard of Care?” Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital
53. Sept. 18, 2002 “Aneurysm Clipping Vs. Coiling.” Johns Hopkins Medicine Cerebrovascular Emergencies Seminar, Thomas B. Turner Building, Johns Hopkins Hospital
54. Sept. 23, 2002 “Contralateral Pterional Approaches to Bilateral Anterior Circulation Aneurysms.” 52nd Annual Meeting of the Congress of Neurological Surgeons, Philadelphia, Pennsylvania
55. March 25, 2003 “The Contralateral Microsurgical Approach for Bilateral Intracranial Aneurysms.” Neurosurgery Clinical Seminar, National Institutes of

Health/National Institute of Neurological Disorders and Stroke, Natcher Conference Center (Building 45), Bethesda, Maryland. Invited by Dr. Ryszard M. Pluta and Dr. Edward Oldfield.

56. March 25, 2003 “Leukocyte-Endothelial Cell Interactions as an Etiology for Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Clinical Seminar, National Institutes of Health/National Institute of Neurological Disorders and Stroke, Natcher Conference Center (Building 45), Bethesda, Maryland. Invited by Dr. Ryszard M. Pluta and Dr. Edward Oldfield.
57. April 2, 2003 “Cell Adhesion Molecules and Leukocyte-Endothelial Cell Interactions in Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” M.D.-Ph.D. Clinical Research Conference, Johns Hopkins University School of Medicine, 1830 Building
58. April 24, 2003 “Leukocyte-Endothelial Cell Interactions as the Primary Etiology for Chronic Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital
59. July 24, 2003 “Neurosurgical Evaluation and Management of Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital
60. Aug. 7, 2003 “The Contralateral Microsurgical Approach for Bilateral Intracranial Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital
61. Oct. 21, 2003 “Career Transitions: Options, Challenges, and Decisions in Academic Neurosurgery.” 53rd Annual Meeting of the Congress of Neurological Surgeons, Denver, Colorado.
62. Oct. 20, 2003 “Neurosurgical Techniques Performed by Master Neurosurgeons: Contralateral Approach to Aneurysms.” 53rd Annual Meeting of the Congress of Neurological Surgeons, Denver, Colorado.
63. Nov. 20, 2003 “Periclinoidal Internal Carotid Artery Aneurysms.” Neuroradiology Cerebrovascular Conference, Johns Hopkins Hospital
64. Jan. 15, 2004 “Clinical Presentation and Anatomy of Periclinoidal Internal Carotid Artery Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
65. Feb. 3, 2004 “Hypervascular Spinal Tumors: Surgical Management.” Seventh Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, San Diego, California.

66. Feb. 19, 2004 “Dorcas Hager Padget: Neuroembryologist and Neurosurgical Illustrator of Johns Hopkins.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
67. Feb. 26, 2004 “Craniofacial Approaches for Anterior Skull Base Malignant Tumors.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
68. Apr. 6, 2004 “Leukocyte-Endothelial Cell Interactions as the Root Cause of Post-Hemorrhagic Vasospasm.” Invited by ESP Pharma, Charleston Restaurant, Baltimore, Maryland.
69. Oct. 7, 2004 “Microsurgical Clipping and Endovascular Coiling/Stenting of Intracranial Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
70. Oct. 16, 2004 “Neurosurgical Techniques Performed by Master Neurosurgeons: Exposure and Clipping of Clinoidal/Ophthalmic Aneurysms.” 54th Annual Meeting of the Congress of Neurological Surgeons, San Francisco, California.
71. Nov. 4, 2004 “Cerebrovascular Neurosurgery at Johns Hopkins (1937-2004): From Aneurysm Clipping to Molecular Vasospasm.” Walter E. Dandy Lecture, Hurd Hall, Johns Hopkins Hospital.
72. Feb. 8, 2005 “Life as a Neurosurgeon.” Voyage and Discovery Lecture Series, Mergenthaler Hall, Johns Hopkins University.
73. Apr. 12, 2005 “Polymeric Controlled Release of Nitric Oxide in the Brain for Stroke after Subarachnoid Hemorrhage.” Johns Hopkins Medicine Alliance for Science and Technology Development, Johns Hopkins University School of Medicine.
74. Apr. 21, 2005 “Leukocyte-Endothelial Cell Interactions and Chronic Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
75. June 23, 2005 “Microsurgical Clipping and Endovascular Coiling of Intracranial Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
76. Oct. 5, 2005 “Cell adhesion molecules, leukocyte-endothelial cell interactions, and nitric oxide in chronic vasospasm after subarachnoid hemorrhage.” Visiting Professor Lecture in Neurosurgery Grand Rounds, Ether Dome at the Massachusetts General Hospital, Department of Neurosurgery, Harvard Medical School, Boston, Massachusetts. Invited by Dr. Christopher S. Ogilvy.
77. Oct. 11, 2005 “Combined Surgical/Endovascular Treatment of Carotid-Cavernous Sinus

- Fistulas (CCFs): The Superior Ophthalmic Vein (SOV) Approach.” Luncheon Seminar, 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts.
78. Oct. 11, 2005 “Contralateral Pterional Approach to Multiple Bilateral Aneurysms.” Digital Masters Video Symposium, 55th Annual Meeting of the Congress of Neurological Surgeons, Boston, Massachusetts.
79. Oct. 18, 2005 “How to Optimize the Results of Carotid Endarterectomy: A Neurosurgeon’s Perspective on Cerebral Protection and Operative Technique. Is Selective Shunting a Better Strategy?” Controversies in the Management of Carotid Disease, American Congress of Surgeons 91st Annual Clinical Congress, San Francisco, California.
80. Feb. 19, 2006 “Future Treatment Options in the Management of Vasospasm.” Ninth Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, Orlando, Florida.
81. Feb. 19, 2006 “Surgical and Endovascular Management of Hypervascular Spinal Tumors.” Ninth Joint Annual Meeting of the AANS/CNS Cerebrovascular Section and the American Society of Interventional & Therapeutic Neuroradiology, Orlando, Florida.
82. June 22, 2006 “Contralateral Pterional Microsurgical Approach for Bilateral Supratentorial Aneurysms: Patient Selection and Outcomes in a Prospective Series of 50 Patients.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
83. Aug. 24, 2006 “Craniofacial Approaches to Anterior Skull Base Tumors.” Fifth Annual International Neuro-Oncology Update, Methodist University Hospital, Neuroscience Institute, Memphis, Tennessee.
84. Oct. 9, 2006 “Combined Craniofacial Approaches to Anterior Skull Base Lesions.” Luncheon Seminar (“Anterior Skull Base Approaches: What, When, and How?”), 56th Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois.
85. Feb. 2, 2007 “Leukocyte-Endothelial Cell Interactions (“Inflammation”) in Chronic Vasospasm after Subarachnoid Hemorrhage.” Visiting Professor lecture in Neurosurgery Grand Rounds, Clark Center at the Stanford University Medical Center, Stanford, California. Invited by Dr. Gary K. Steinberg.
86. Apr. 12, 2007 “Craniofacial Approaches to Anterior Skull Base lesions.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.

87. Apr. 16, 2007 Commentary Presentation on “The impact of microsurgical fenestration of the lamina terminalis on shunt-dependent hydrocephalus and vasospasm following aneurysmal subarachnoid hemorrhage” as submitted by R. J. Komotar, D. H. Hahn, G. Kim, J. D. Mocco, J. Khandji, R. M. Starke, N. Kumar, C. P. Kellner, M. Schmidt, S. A. Mayer, and E. S. Connolly, Jr., 2007 AANS Annual Meeting, Washington, D.C..
88. Apr. 17, 2007 “The Inflammatory Hypothesis of Vasospasm after Subarachnoid Hemorrhage: Clinical and Research Implications.” Breakfast Seminar (“Modern Perspectives of Treatment Paradigms for Vasospasm”), 2007 AANS Annual Meeting, Washington, D.C..
89. Apr. 26, 2007 “The Inflammatory Hypothesis of Vasospasm after Subarachnoid Hemorrhage: An Update.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
90. May 29, 2007 “The Role of Leukocyte-Endothelial Cell Interactions (Inflammation) in Vasospasm after Subarachnoid Hemorrhage: A Ten-Year Overview of Basic and Clinical Research.” Invited Research Lecture to the Laboratory of Gregory Riggins, M.D., Ph.D., Cancer Research Building II, Johns Hopkins School of Medicine.
91. July 12, 2007 “Craniofacial Approaches to Anterior Skull Base Lesions.” XIX Congreso Mexicano de Cirugía Neurológica, Hospital Español de México, Auditorio Angel Urraza, Mexico City, Mexico.
92. Aug. 16, 2007 “Current Status of Microsurgical Clipping and Endovascular Coiling of Intracranial Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
93. Sept. 13, 2007 “Microsurgical Revascularization for Moyamoya Disease.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
94. Sept. 16, 2007 “Epidemiology and Management of Brain Arteriovenous Malformations (AVMs),” in Morning Practical Course “Surgical Indications, Techniques, and Alternatives for Cranial vascular Malformations,” Annual 2007 Meeting of the Congress of Neurological Surgeons, San Diego, California.
95. Sept. 17, 2007 “Combined Craniofacial Approaches for Anterior Skull Base Lesions,” in Luncheon Seminar “Anterior Skull Base Approaches: What, When, and How,” Annual 2007 Meeting of the Congress of Neurological Surgeons, San Diego, California.
96. Sept. 27, 2007 “Perioperative Management of Patients with Intracranial Aneurysms.”

Operating Room Nursing Grand Rounds, Harvey Auditorium, Johns Hopkins Hospital.

97. Oct. 4, 2007 “Inflammatory Etiology of Vasospasm after Subarachnoid Hemorrhage.” Visiting Professor Lecture in Neurology Grand Rounds, Johns Hopkins Hospital. Invited by Dr. Justin McArthur and Dr. Michael Froehler.
98. Jan. 31, 2008 “Surgical Management of Moyamoya Disease.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
99. Apr. 30, 2008 “Chronic Vasospasm after Subarachnoid Hemorrhage: Current Standard Therapies and Future Directions.” Breakfast Seminar (“Management of Vasospasm”), 2008 AANS Annual Meeting, Chicago, Illinois.
100. June 12, 2008 “Current Standard Therapies and Future Directions in Vasospasm after Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
101. July 31, 2008 “Update on the Role of Inflammation in Vasospasm after Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
102. Aug. 14, 2008 “Craniofacial Approaches to Anterior Skull Base Tumors.” XV Congreso Internacional Sociedad de Cirugía Neurológica de Occidente, A. C., Puerto Vallarta, Jalisco, México.
103. Aug. 15, 2008 “Complex Aneurysms of the Middle Cerebral Artery.” XV Congreso Internacional Sociedad de Cirugía Neurológica de Occidente, A. C., Puerto Vallarta, Jalisco, México.
104. Aug. 15, 2008 “Contralateral Approaches for Bilateral Supratentorial Aneurysms.” XV Congreso Internacional Sociedad de Cirugía Neurológica de Occidente, A. C., Puerto Vallarta, Jalisco, México.
105. Sept. 18, 2008 “Craniofacial Approaches to Anterior Skull Base Tumors.” Seventh Annual International Neuro-Oncology Updates Conference, Baltimore, Maryland.
106. Sept. 21, 2008 “Brain Arteriovenous Malformations (AVMs): Epidemiology, Management, and Outcomes,” in Practical Course PC04 “Surgical Indications, Techniques, and Alternatives for Cranial vascular Malformations,” Annual 2008 Meeting of the Congress of Neurological Surgeons, Orlando, Florida.
107. Oct. 23, 2008 “Complex Aneurysms of the Middle Cerebral Artery.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.

108. Oct. 23, 2008 “Epidemiology and Management of Cranial Arteriovenous Malformations (AVMs).” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
109. Oct. 30, 2008 “Aneurysmal Subarachnoid Hemorrhage: Evaluation and Management.” Baptist Hospital, Miami, Florida. Invited by Dr. Sergio Gonzalez Arias.
110. Jan. 15, 2009 “Surgical Management of Aneurysmal Subarachnoid Hemorrhage.” Seminar on Neurocritical Care for the Medical and Surgical Intensivist, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine, at the Ritz-Carlton Hotel, Tysons Corner, McLean, Virginia..
111. Mar. 12, 2009 “The History of the Circle of Willis (... or is it the ‘Circulus of Casserius?’).” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
112. April 2, 2009 “Surgical Approaches to Carotid Cavernous Fistulas.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
113. July 2, 2009 “Implications for Neurosurgical Practice of Erroneous or Incomplete Data in Statewide/National Administrative Databases.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
114. July 30, 2009 “Initial Evaluation of Aneurysmal Subarachnoid Hemorrhage.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
115. Sept. 16, 2009 “The History of the Circle of Willis (... or is it the ‘Circulus of Casserius?’).” Neurology Grand Rounds, University of Maryland Hospital, Baltimore, Maryland. Invited by Dr. Stephen Reich.
116. Oct. 15, 2009 “The History of Surgery of the Vestibular Schwannoma (Acoustic Neuroma).” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
117. Oct. 24, 2009 “Brain Arteriovenous Malformations (AVMs): Epidemiology, Management, and Outcomes,” in Practical Course PC04 “Surgical Indications, Techniques, and Alternatives for Cranial Vascular Malformations,” 59th Annual Meeting of the Congress of Neurological Surgeons, New Orleans, Louisiana, October 24-29, 2009.
118. Nov. 12, 2009 “Evaluation and Management of Aneurysmal Subarachnoid Hemorrhage: Part I” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
119. Nov. 19, 2009 “The History of Surgery of the Vestibular Schwannoma (Acoustic Neuroma).” Otolaryngology - Head and Neck Surgery Grand Rounds,

Johns Hopkins Hospital.

120. Feb. 25, 2010 “Evaluation and Management of Aneurysmal Subarachnoid Hemorrhage: Part II” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
121. Mar. 4, 2010 “The Contralateral Approach for Bilateral Supratentorial Intracranial Aneurysms.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
122. Mar. 20, 2010 “The Surgical Management of Aneurysmal Subarachnoid Hemorrhage.” Second Annual Neurocritical Care for the Medical and Surgical Intensivist: The Comprehensive Cerebrovascular Center, Department of Anesthesiology and Critical Care Medicine and Department of Neurology, Johns Hopkins University School of Medicine, at the Ritz-Carlton Hotel, Tysons Corner, McLean, Virginia.
123. Apr. 22, 2010 “Historical Perspective on Surgery of Vestibular Schwannomas.” Neurosurgery Grand Rounds, Hartford Hospital, Hartford, Connecticut. Invited by Dr. Inam Kureshi and Dr. Mark Eisen.
124. May 20, 2010 “Concealed Neuroanatomy in Michelangelo’s Sistine Chapel Frescoes.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
125. Aug. 21-8, 2010 “Vasospasm after Subarachnoid Hemorrhage: Current Standard Therapies and Future Directions.” Internet Sixth Annual International Neurological Surgery Conference.” Invited by Dr. Ganeslingam Narenthiran.
(<http://www.surgicalneurology.org/conf6/sirwyliehall.html>)
126. Sept. 2, 2010 “Epidemiology and Management of Cranial Arteriovenous Malformations (AVMs).” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
127. Sept. 22, 2010 “The History of Surgical Treatment of Intracranial Aneurysms.” Fourth Annual Brain Aneurysm Foundation Research Grants Awards Symposium, at the Ritz-Carlton Hotel, Orlando, Florida.
128. Oct. 16, 2010 “Brain Arteriovenous Malformations (AVMs): Epidemiology, Management, and Outcomes,” in Practical Course PC04 “Cranial Vascular Malformations: Surgical and Endovascular Techniques,” 60th Annual Meeting of the Congress of Neurological Surgeons, San Francisco, California, October 16-21, 2010
129. Dec. 4, 2010 “The Bifrontal Craniotomy,” Johns Hopkins 4th Annual Skull Base Course, Craniofacial Approaches to the Skull Base: From Open to Endoscopic, VISTA Laboratory, Baltimore, Maryland.
130. Jan. 21, 2011 “Microsurgical Anatomy of Periclinoidal Internal Carotid Artery

- Aneurysms.” Interventional Neuroradiology Weekly Conference, Johns Hopkins Hospital.
131. Jan. 21, 2011 “Michaelangelo’s Concealed Neuroanatomy in the Sistine Ceiling.” Neurology Residents’ Weekly Conference, Johns Hopkins Hospital.
132. Feb. 24, 2011 “Michaelangelo’s Concealed Neuroanatomy in the Sistine Ceiling Frescoes.” Anesthesiology Grand Rounds, Johns Hopkins Hospital.
133. Mar. 2, 2011 “Inflammation and Vasospasm after Aneurysmal Subarachnoid Hemorrhage.” Research Seminar, Lerner Research Institute, Department of neurosciences, Cleveland Clinic, Cleveland, Ohio. Invited by Dr. Javier Provencio.
134. Mar. 19, 2011 “Surgical Management of Aneurysmal Subarachnoid Hemorrhage.” Third Annual Neurocritical Care for the Medical and Surgical Intensivist: The Comprehensive Cerebrovascular Center, Department of Anesthesiology and Critical Care Medicine and Department of Neurology, Johns Hopkins University School of Medicine, at the Ritz-Carlton Hotel, Tysons Corner, McLean, Virginia.
135. Apr. 28, 2011 “Improving Outcomes in Aneurysm Surgery over the Past 100 Years.” Neurosurgery Grand Rounds, Johns Hopkins Hospital.
136. June 7, 2011 “Intracranial Aneurysms: Clinical Correlation with Patient Presentation.” Neurosciences Course, Johns Hopkins University School of Medicine.
137. July 23, 2011 “Haptoglobin Genotype and Risk of Vasospasm.” Vasospasm 2011: 11th International Conference on Neurovascular Events after SAH, Cincinnati, Ohio.
138. Sept. 23, 2011 “Evaluation and management of Aneurysmal Subarachnoid Hemorrhage.” Neurology Residents’ Weekly Conference, Johns Hopkins Hospital.
139. Oct. 7, 2011 “Walter E. Dandy: The Personal Side of a Pioneer Neurosurgeon.” Neurosurgery Grand Rounds, Johns Hopkins Hospital, with Mary Ellen Dandy Marmaduke.
140. Dec. 10, 2011 “The Bifrontal Craniotomy,” Johns Hopkins 5th Annual Skull Base Course, Craniofacial Approaches to the Skull Base: From Open to Endoscopic, VISTA Laboratory, Baltimore, Maryland.

