



CURRICULUM VITAE
GEORGE ISSA JALLO, M.D.
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DEMOGRAPHICS

Associate Professor of Neurosurgery, Pediatrics and Oncology
Director, Clinical Pediatric Neurosurgery
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Education and Training

George Washington University, Washington, DC
Bachelor of Science, Major: Chemistry, 1987
Minors: French and Zoology

Institute for American Universities, Aix-en-Provence, France (1986)

University of Virginia Medical School
Doctor of Medicine, May 1991

Postgraduate Training

New York University Medical Center, New York

Internship: General Surgery, July 1991 to June 1992

Residency: Neurosurgery, July 1992 to June 1998

Research: Angiogenesis, extracellular matrix and CNS neoplasia.

*Kaplan Comprehensive Institute, July 1995 to July 1996. Advisors:
Martin Grumet PhD and David Zagzag MD, PhD.*

University of Cincinnati Medical College, Cincinnati, Ohio
Goodyear Laboratory: April 1995 to July 1995

Beth Israel Medical Center, Institute for Neurology and Neurosurgery, New York

Fellowship: Pediatric Neurosurgery, July 1998 to June 1999

Professional Experience

Assistant Professor of Neurosurgery and Pediatrics, *Albert Einstein College of Medicine*, July 1999 to June 2003

Attending Neurosurgeon, *Beth Israel Medical Center*, July 1999 to June 2003

Attending Neurosurgeon, *St. Lukes-Roosevelt Hospital Center*, February 2002 to June 2003

Assistant Professor of Neurosurgery, Pediatrics and Oncology, *Johns Hopkins University School of Medicine*, July 2003 to February 2006

Associate Professor of Neurosurgery, Pediatrics and Oncology, *Johns Hopkins University School of Medicine*, February 2006 to present

Administrative Appointments

Director, Clinical Pediatric Neurosurgery, *Johns Hopkins University*, February 2004 -
Program Director, Neurosurgery, *Johns Hopkins University*, January 2007 -

RESEARCH ACTIVITIES

Publications

Peer-reviewed scientific articles

1. Helm GA, Robertson MW, **Jallo G**, Simmons N, Bennett JP. *Development of D1 and D2 Dopamine Receptors and Associated Second Messenger Systems in Fetal Striatal Transplants*. **Experimental Neurology** 111:181-189, 1991.
2. **Jallo GI**, Dogali M. *Ventral Intermediate Thalamotomy for Hemiballismus*. **Stereotact Funct Neurosurg** 65:23-25, 1995.
3. **Jallo GI**, Zagzag D, Epstein F. *Intramedullary Subependymomas of the Spinal Cord*. **Neurosurgery** 38:251-257, 1996.
4. **Jallo GI**, Morota N, Abbott R. *Introduction of a Second Working Portal for Neuroendoscopy: A Technical Note*. **Pediatr Neurosurg** 24:56-60, 1996.
5. **Jallo GI**, Woo HH, Meshki C, Epstein FJ, Wisoff JH. *Arachnoid Cysts of the Cerebellopontine Angle: Diagnosis and Surgery*. **Neurosurgery** 40:31-38, 1997.
6. **Jallo GI**. *Neurosurgical Management of Penetrating Spinal Injury*. **Surg Neurol** 47:328-330, 1997.
7. **Jallo GI**, Zagzag D, Lee M, Epstein F. *Intraspinal Sarcoidosis. Diagnosis and Management*. **Surg Neurol** 48:514-521, 1997.
8. **Jallo GI**, Friedlander DR, Kelly PJ, Wisoff JH, Zagzag D, Grumet M. *Tenascin-C Expression in the Cyst Fluid of Human Brain Tumors Correlates with Angiogenesis*. **Neurosurgery** 41:1052-1059, 1997.
9. Benardete E, **Jallo GI**. *Closed Head Injury: Pathophysiology, Management*. **Trauma Quarterly** 13:397-430, 1998.

10. Mogilner A, **Jallo GI**, Golfinos JG, Kelly P. *Nocardia Abscess of the Choroid Plexus: Clinical and Pathological Case Report*. **Neurosurgery** 43:649-652, 1998.
11. Tauber M, van Loveren HR, **Jallo G**, Romano A, Keller JT. *The Enigmatic Foramen Lacerum*. **Neurosurgery** 44:386-393, 1999.
12. **Jallo GI**, Koslow M, Hanna B, Carson, L. *Propionibacterium as a Cause of Postneurosurgical Infection in Patients with Dural Graft: Report of Three Cases*. **Neurosurgery** 44:1138-1141, 1999.
13. Lippman CR, **Jallo GI**, Fegali JG, Jimenez E, Epstein F. *Aneurysmal Bone Cyst of the Temporal Bone*. **Pediatr Neurosurg** 31:219-223, 2000.
14. Deutsch H, **Jallo GI**, Faktovorich A, Epstein F. *Spinal Intramedullary Cavernoma: Clinical Presentation and Surgical Outcome*. **J Neurosurg (Spine)** 92:65-70, 2000.
15. **Jallo GI**, Kothbauer KF, Epstein FJ. *Surgical Management of Cervicomedullary and Dorsally Exophytic Brain Stem Tumors*. **Operative Techniques in Neurosurgery** 3:131-136, 2000.
16. Huang PP, Choudhri HF, **Jallo G**, Zagzag D, Koslow, M. *Inflammatory Aneurysm and Neurocysticercosis: Further Evidence for a Causal Relationship? Case Report*. **Neurosurgery** 47:466-468, 2000.
17. **Jallo GI**, Silvera VM, Abbott IR. *Meningioangiomas*. **Pediatr Neurosurg** 32:220-221, 2000.
18. Sala F, Krzan MJ, **Jallo GI**, Epstein F, Deletis V. *Prognostic Value of Motor Evoked Potentials Elicited by Multipulse Magnetic Stimulation in a Surgically Induced Transitory Lesion of the Supplementary Motor Area: A Case Report*. **J Neurol Neurosurg Psychiatry** 69:828-831, 2000.
19. **Jallo GI**, Kothbauer KF, Silvera VM, Epstein FJ. *Intraspinal Clear Cell Meningiomas: Diagnosis and Management*. **Neurosurgery** 48:218-222, 2001.
20. **Jallo GI**. *CUSA EXcel Ultrasonic Aspiration System*. **Neurosurgery** 48: 695-697, 2001.
21. **Jallo GI**, Kim B-S, Epstein FJ. *The Current Management of Intramedullary Neoplasms in Children and Young Adults*. **Annals of Neurosurgery** 1:1-13, 2001.
22. Deutsch H, Kothbauer K, Persky M, Epstein F, **Jallo GI**. *Infrasellar Craniopharyngioma: Case Report*. **Skull Base: An Interdisciplinary Approach** 11:121-128, 2001.
23. Alzate JC, Kothbauer KF, **Jallo GI**, Epstein FJ. *Treatment of Chiari Malformation Type 1 with and without Syringomyelia: A Consecutive Series of 66 Patients*. **Neurosurg Focus** 11 (1):E3, 2001.
24. Di Rocco C, **Jallo GI**, Silvera VM, Jimenez E, Abbott IR. *A 4-year Boy with Partial Complex Seizures*. **Pediatr Neurosurg** 34:319-324, 2001.
25. Roonprapunt C, Silvera VM, Setton A, Freed D, Epstein F, **Jallo GI**. *Surgical Management of Isolated Hemangioblastomas of the Spinal Cord*. **Neurosurgery** 49:321-328, 2001.
26. Kothbauer KF, **Jallo GI**, Allen J, Siffert J, Jimenez E, Epstein F. *Foreign Body Reaction to Hemostatic Materials Mimicking Recurrent Brain Tumors*. **J Neurosurg** 95:503-506, 2001.
27. **Jallo GI**, Kothbauer K, Silvera VM. *Colloid Cyst and Epidermoid Cyst*. **Pediatr Neurosurg** 45:48-49, 2001.

28. Deutsch H, Shrivistava R, Epstein F, **Jallo GI**. *Pediatric Intramedullary Spinal Cavernous Malformations*. **Spine** 26:E427-E431, 2001.
29. **Jallo GI**, Danish S, Velasquez L, Epstein F. *Intramedullary Low-Grade Astrocytomas: Long-term Outcome Following Radical Surgery*. **J Neuro-Oncol** 53:61-66, 2001.
30. **Jallo GI**, Kothbauer KF, Epstein FJ. *Intrinsic Spinal Cord Tumor Resection*. **Neurosurgery** 49:1124-1128, 2001.
31. LaMarca V, Silvera VM, Jimenez E, **Jallo GI**. *A 5-year Boy with Headaches and Vomiting*. **Pediatr Neurosurg** 35:270-273, 2001.
32. Zagzag D, Schiff B, **Jallo GI**, Greco MA, Blanco C, Cohen H, Hukin J, Allen JC, Friedlander DR. *Tenascin-C Promotes Microvascular Cell Migration and Phosphorylation of Focal Adhesion Kinase*. **Cancer Research** 62:2660-2668, 2002.
33. Kim B-S, Roonprapunt C, LaMarca V, Kothbauer KF, **Jallo GI**. *Current Management of Intracranial Ependymomas in Children*. **Annals of Neurosurgery** 2:1-10, 2002.
34. **Jallo GI**, Kothbauer KF, Epstein FJ. *Contact Laser Microsurgery*. **Childs Nerv Syst** 18:333-336, 2002.
35. Kim B-S, LaMarca V, **Jallo GI**. *Tuberous Sclerosis*. **Pediatr Neurosurg** 37:276-277, 2002.
36. **Jallo GI**, Benjamin V. *Tuberculum Sellae Meningiomas: Microsurgical Anatomy and Surgical Technique*. **Neurosurgery** 51:1432-1440, 2002.
37. **Jallo GI**, Freed D, Roonprapunt C, Epstein FJ. *Current Management of Brainstem Tumors*. **Annals of Neurosurgery** 3:1-17, 2003.
38. **Jallo GI**, Freed D, Epstein FJ. *Intramedullary Spinal Cord Tumors in Children*. **Childs Nerv Syst** 19:641-649, 2003.
39. Abbott M, Lefton D, Abbott R, **Jallo GI**. *Osteoblastoma*. **Pediatr Neurosurg** 39:279-281, 2003.
40. **Jallo GI**, Biser-Rohrbaugh A, Freed D. *Brainstem Gliomas*. **Childs Nerv Syst** 20:143-153, 2004.
41. **Jallo GI**, Freed D, Epstein FJ. *Spinal Cord Gangliogliomas: Review of 56 Patients*. **J Neuro-Oncol** 68: 71-77, 2004
42. Kim B-S, **Jallo GI**, Kothbauer K, Abbott IR. *Chronic Subdural Hematoma as a Complication of Endoscopic Third Ventriculostomy*. **Surg Neurol** 62:64-68, 2004.
43. Samdani AF, Garonzik IM, **Jallo G**, Eberhart CG, Zahos P. *Spinal Angiolipoma: Case Report and Review of the Literature*. **Acta Neurochir** 146:299-302, 2004.
44. Strege RJ, Liu YJ, Kiely A, Johnson R, Gillis E, Storm P, Carson BS, **Jallo GI**, Guarnieri M. *Toxicity and Cerebrospinal Fluid Levels of Carboplatin Chronically Infused into the Brainstem of a Primate*. **J Neuro-Oncol** 67:327-334, 2004.
45. Kim B-S, Kothbauer K, **Jallo G**. *Brainstem Astroblastoma*. **Pediatr Neurosurg** 40:145-146, 2004.
46. May BJ, Guarnieri M, Carson BS, Bachani A, **Jallo GI**. *Long-term Effects of Carboplatin Brainstem Infusions on Hearing Thresholds in Monkeys*. **Arch Otolaryngol Head Neck Surg** 130:1411-1415, 2004.

47. **Jallo GI**, Shiminski-Maher T, Velasquez L, Abbott R, Wisoff J, Epstein FJ. *Recovery of Lower Cranial Nerve Function Following Surgery for Medullary Brainstem Tumors.* **Neurosurgery** 56:74-78, 2005.
48. Khan A, **Jallo GI**, Liu YJ, Carson BS, Guarnieri M. *Infusion Rates and Drug Distribution in Brain Tumor Models in Rats.* **J Neurosurg:Pediatrics** 102:53-58, 2005.
49. Shrivastava RK, Epstein FJ, Perin NI, Post KD, **Jallo GI**. *Intramedullary Spinal Cord Tumors in Patients Older than 50 Years Old: Management and Outcome.* **J Neurosurg:Spine** 2:249-255, 2005.
50. Gallia GL, Jordan L, Gailloud P, Moore C, **Jallo GI**. *Neonatal Internal Carotid Artery Aneurysm: Case Report.* **J Neurosurg:Pediatrics** 102:332-337, 2005.
51. **Jallo GI**, Penno M, Sukay L, Liu J-Y, Tyler B, Lee J, Carson BS, Guarnieri M. *Experimental Models of Brainstem Tumors: Development of a Neonatal Rat Model.* **Childs Nerv Syst** 21:399-403, 2005.
52. Guarnieri M, Carson BS, Khan A, Penno M, **Jallo GI**. *Flexible v Rigid Catheters for Chronic Administration of Exogenous Agents into Central Nervous System Tissue.* **J Neuroscience Methods** 144:147-152, 2005.
53. **Jallo GI**, Suk I, Bogнар L. *Supraciliary Approach for Anterior Cranial Fossa Lesions in Children.* **J Neurosurg:Pediatrics** 103:88-93, 2005.
54. Li K, Lawson HC, Roonprapunt C, Abbott IR, Wisoff J, Epstein F, **Jallo GI**. *Endoscopic 3rd Ventriculostomy for Hydrocephalus Associated with Tectal Gliomas.* **Neurosurg Focus** 18 (6): E2, 2005.
55. Lee J, **Jallo GI**, Gaurnieri M, Carson BS, Penno M. *A Novel Brainstem Tumor Model: Guide Screw Technology with Functional, Radiological and Histopathological Characterization.* **Neurosurg Focus** 18 (6): E11, 2005.
56. **Jallo GI**, Roonprapunt C, Kothbauer KF, Freed D, Allen J, Epstein FJ. *Spinal Solitary Fibromas: A Series of Four Patients.* **Neurosurgery** 57:E195, 2005.
57. Sciubba DM, Stuart RM, McGirt MJ, Woodward GF, Samdani A, Carson B, **Jallo GI**. *Effect of Antibiotic-Impregnated Shunt Catheters in Decreasing the Incidence of Shunt Infection in the Treatment of Hydrocephalus.* **J Neurosurg: Pediatrics** 103:131-136, 2005.
58. Mavinkurve G, Pradilla G, Legnani FG, Tyler BM, Bagley CA, Brem H, **Jallo GI**. *A Novel Intramedullary Spinal Cord Tumor Model: Radiographic and Histological Characterization.* **J Neurosurg: Spine** 3:142-148, 2005.
59. Gailloud P, O'Riordan DP, Burger I, Levrier O, **Jallo G**, Tamargo RJ, Murphy K, Lehmann CU. *Diagnosis and Management of Vein of Galen Aneurysmal Malformations.* **J Perinatol** 25:531-536, 2005.
60. **Jallo GI**, Kothbauer K, Mehta V, Abbott IR, Epstein FJ. *Meningioangiomatosis without Neurofibromatosis: A Clinical Analysis.* **J Neurosurg: Pediatrics** 103:319-324, 2005.

61. Mavinkurve GG, Sciubba D, Amundson E, **Jallo GI**. *Familial Syringomyelia with Chiari Type I Malformation in Two Siblings: Case Report and Review of the Literature*. **Childs Nerv Syst** 21:955-959, 2005.
62. Carey J, Cooper T, **Jallo G**, Carson BS, Guarnieri M. *Ototoxicity of Carboplatin Delivered Locally in a Monkey Brainstem*. **Int J Toxicol** 24:443-449, 2005.
63. Li KW, Nelson C, Suk I, **Jallo GI**. *Neuroendoscopy: Past, Present and Future* **Neurosurg Focus** 19 (6):E1, 2005.
64. Ray P, **Jallo GI**, Kim RYH, Kim BS, Wilson S, Kothbauer K, Abbott IR. *Endoscopic Third Ventriculostomy for Tumor-Related Hydrocephalus in Pediatric Population*. **Neurosurg Focus** 19 (6):E6, 2005.
65. **Jallo GI**, Kothbauer KF, Abbott IR. *Endoscopic Third Ventriculostomy*. **Neurosurg Focus** 19 (6):E11, 2005.
66. **Jallo G**. *Brainstem Gliomas*. **Childs Nerv Syst** 22:1-2, 2006.
67. Recinos PF, Roonrapunt C, **Jallo GI**. *Intrinsic Brainstem Epidermoid*. **J Neurosurg: Pediatrics** 104:285-289, 2006.
68. **Jallo GI**, Bogner L. *Eyebrow Surgery: The Supraciliary Craniotomy*. **Neurosurgery** 59 [ONS Suppl 1]:ONS157-158, 2006.
69. Caplan J, Pradilla G, Hdeib A, Legnani FF, Bagley CA, Tyler BM, Brem H, **Jallo GI**. *A Novel Model for Intramedullary Spinal Cord Tumors in Rats: Functional Progression and Histopathological Characterization*. **Neurosurgery** 59:193-200, 2006.
70. Ray P, **Jallo GI**, Kim RKH, Kim B-S, Wilson S, Kothbauer K, Abbott R. *Endoscopic Third Ventriculostomy for the Treatment of Hydrocephalus: An Alternative to Shunting*. **J Pediatr Neurol** 4:221-232, 2006.
71. **Jallo GI**, Freed D, Zareck M, Epstein F, Kothbauer KF. *Clinical Presentation and Optimal Management for Intramedullary Cavernous Malformations*. **Neurosurg Focus** 21 (1):E10, 2006.
72. Lee J, **Jallo GI**, Penno MB, Gabrielson KL, Young GD, Gillis EM, Gillis EM, Rampersaud C, Carson BS, Guarnieri M. *Intracranial Drug Delivery Scaffolds: Biocompatibility Evaluation of Sucrose Acetate Isobutyrate Gels*. **Toxicol Appl Pharmacol** 215:64-70, 2006.
73. **Jallo GI**, Becker M, Liu YJ, Carson BS, Guarnieri M. *Local Infusion Therapy in the Monkey Brainstem: Technical Considerations*. **Surg Technol Int** 15: 311-316, 2006.
74. **Jallo GI**, Volkov A, Wong, C, Carson BS, Penno M. *A Novel Brainstem Tumor Model: Functional and Pathological Characterization*. **Childs Nerv Syst** 22:1519-1525, 2006.
75. Ahn E, Bookland M, Carson B, Weingart J, **Jallo GI**. *The Strata Programmable Valve for Shunt-Dependent Hydrocephalus: The Pediatric Experience at a Single Institution*. **Childs Nerv Syst** 23:297-303, 2007.

76. Pak S, **Jallo GI**, Biser A, Ziessman HA. *Indium-111 Diethylene-Triamine-Pentaacetic Acid Scintigraphy in the Evaluation of Function and Patency of Baclofen Intrathecal Infusion Systems*. **Neurosurg Focus** 23 (1):E17, 2007.
77. McGirt MJ, Buck DW, Sciubba D, Woodworth GF, Carson B, Weingart J, **Jallo GI**. *Adjustable versus Set-Pressure Valves Decrease the Risk of Proximal Shunt Obstruction in the Treatment of Pediatric Hydrocephalus*. **Childs Nerv Syst** 23:289-295, 2007.
78. Pradilla G, **Jallo GI**. *Arachnoid Cysts: Case Series and Review of the Literature*. **Neurosurg Focus** 22 (2):E7, 2007.
79. Recinas P, Sciubba D, **Jallo GI**. *Brainstem Tumors: Where are We Today?* **Pediatr Neurosurg** 43:192-201, 2007.
80. Bagley CA, Kothbauer KF, Wilson S, Bookland MJ, Epstein FJ, **Jallo GI**. *Surgical Resection of Myxopapillary Ependymomas in Children*. **J Neurosurg:Pediatrics** 106:261-267 2007.
81. Sciubba DM, Lin Li-Mei, Woodworth G, McGirt M, Carson BS, **Jallo GI**. *Factors Contributing to Medically Incurred Costs for CSF Shunt Infection Treatment are Greater in Pediatric Patients with Standard Shunt Components versus Those with Antibiotic-Impregnated Components*. **Neurosurg Focus** 22 (4):E9, 2007.
82. Samdani A, **Jallo GI**. *Intraoperative MRI: Technology, Systems and Application to Pediatric Brain Tumors*. **Surg Technol Int** 16:236-243, 2007.
83. Sciubba DM, Noggle JC, Marupudi NI, Bagley CA, Bookland MJ, Carson BS, Ain MC, **Jallo GI**. *Spinal Stenosis Surgery in Pediatric Patients with Achondroplasia*. **J Neurosurg: Pediatrics** 106:372-378, 2007.
84. Woodworth GF, Chaichana KL, McGirt MJ, Sciubba DM, **Jallo GI**, Gokaslan Z, Wolinsky J-P, Witham T. *Predictors of Ambulatory Function After Surgical Resection of Intramedullary Spinal Cord Tumors*. **Neurosurgery** 61:99-106, 2007.
85. Bookland M, Anderson WS, Biser-Rohrbaugh A, **Jallo GI**. *Primary Melanocytic Malignant Melanoma*. **Pediatr Neurosurg** 43:303-308, 2007.
86. Wong C, Conway J, Zareck M, **Jallo GI**. *Complications after Treatment for Intramedullary Spinal Cord Tumors*. **Neurosurg Q** 17:113-119, 2007.
87. Anderson WS, **Jallo GI**. *Intrathecal Baclofen Therapy and the Treatment of Spasticity*. **Neurosurg Q** 17:185-192, 2007.
88. Sciubba DM, McGirt MJ, Woodworth GF, Carson BS, **Jallo GI**. *Prolonged Exposure to Antibiotic-Impregnated Shunt Catheters does not Increase the Incidence of Late Shunt Infections*. **Childs Nerv Syst** 23:867-871, 2007.
89. Yao KC, McGirt MJ, Chaichana KL, Constantini S, **Jallo GI**. *Risk Factors for Progressive Spinal Deformity Following Resection of Intramedullary Spinal Cord Tumors in Children: An Analysis of 161 Consecutive Cases*. **J Neurosurg: Pediatrics** 107:463-468, 2007.
90. McGirt MJ, Chaichana KL, Atiba A, Bydon A, Witham TF, Yao KC, **Jallo GI**. *Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in*

- Children who underwent Laminectomy compared with Laminoplasty. J Neurosurg: Pediatrics* 1:57-62, 2008.
91. McGirt MJ, Chaichana KL, Atiba A, Attenello F, Yao KC, **Jallo GI**. *Resection of Intramedullary Spinal Cord Tumors in Children: Assessment of Long-Term Motor and Sensory Deficits. J Neurosurg: Pediatrics* 1:63-67, 2008.
 92. Sciubba DM, Hsieh P, McLoughlin GS, **Jallo GI**. *Pediatric Tumors Involving the Spinal Column. Neurosurg Clin N Am* 19:81-92, 2008.
 93. McGirt MJ, Chaichana KL, Atiba A, Attenello F, Woodworth GF, **Jallo GI**. *Neurological Outcome after Resection of Intramedullary Spinal Cord Tumors in Children. Childs Nerv Syst* 24:93-97, 2008.
 94. Tobias ME, McGirt MJ, Chaichana KL, Goldstein IM, Kothbauer KF, Epstein F, **Jallo GI**. *Surgical Management of Long Intramedullary Spinal Cord Tumors. Childs Nerv Syst* 24:219-223, 2008.
 95. Sciubba DM, Noggle J, Carson BS, **Jallo GI**. *Antibiotic-Impregnated Shunt Catheters for the Treatment of Infantile Hydrocephalus. Pediatr Neurosurg* 44:91-96, 2008.
 96. Jordan LC, **Jallo GI**, Gailloud P. *Recurrent Intracerebral Hemorrhage from a Cerebral Arteriovenous Malformation Undetected by Repeated Noninvasive Neuroimaging in a 4-year-old Boy. J Neurosurg: Pediatrics* 1:316-319, 2008.
 97. Gaurneri M, Carson BS, **Jallo GI**. *Catheters for Chronic Administration of Drugs into Brain Tissue. Methods Mol Biol* 437:109-117, 2008.
 98. Kazanzides P, Xia T, Baird C, **Jallo G**, Hayes K, Nakajima N, Hata N. A *Cooperatively-Controlled Image Guided Robot System for Skull Base Surgery. Stud Health Technol Inform* 132:198-203, 2008.
 99. Attenello FJ, McGirt MJ, Atiba A, Gathinji M, Dato G, Weingart J, Carson B, **Jallo GI**. *Suboccipital Decompression for Chiari Malformation Associated Scoliosis: Risk Factors and Time Course of Deformity Progression. J Neurosurg: Pediatrics* 1:456-460, 2008.
 100. Frazier JL, Ahn ES, **Jallo GI**. *Management of Pediatric Brain Abscess. Neurosurg Focus* 24(6): E8, 2008.
 101. Noggle JC, Sciubba DM, Nelson C, Garces-Ambrossi GL, Ahn E, **Jallo GI**. *Superciliary Keyhole Craniotomy for Brain Abscess Debridement. Neurosurg Focus* 24(6):E11, 2008.
 102. Sciubba DM, Chaichana KL, Woodworth GF, McGirt MJ, Gokaslan ZL, **Jallo GI**. *Factors Associated with Cervical Instability Requiring Fusion after Cervical Laminectomy for Intradural Tumor Resection. J Neurosurg: Spine* 8:413-419, 2008.
 103. McGirt MJ, Chaichana KL, Attenello F, Witham T, Bydon A, Yao KC, **Jallo GI**. *Spinal Deformity after Resection of Cervical Intramedullary Spinal Cord Tumors in Children. Childs Nerv Syst* 24:735-739, 2008.
 104. McGirt MJ, Attenello F, Dato G, Gathinji M, Atiba A, Weingart JD, Carson BS, **Jallo GI**. *Intraoperative Ultrasonography as a Guide to Patient Selection for Duraplasty*

- After Suboccipital Decompression in Children with Chiari Malformation Type I.* **J Neurosurg: Pediatrics** 2:52-57, 2008.
105. McGirt MJ, Atiba A, Attenello FJ, Wasserman BA, Dato G, Gathinji M, Carson B, Weingart JD, **Jallo GI.** *Correlation of Hindbrain CSF Flow and Outcome after Suboccipital Decompression for Chiari I Malformation.* **Childs Nerv Syst** 24:833-840, 2008.
106. Jain F, Chaichana KL, McGirt MJ, **Jallo GI.** *Neonatal Anterior Cervical Arachnoid Cyst: Case Report and Review of the Literature.* **Childs Nerv Syst** 24:965-970. 2008.
107. Pennant WA, Sciubba DM, Noggle JC, Tyler BM, Tamargo RJ, **Jallo GI.** *Microsurgical Removal of Intramedullary Spinal Cord Glioma in a Rat Decreases Onset to Paresis: An Animal Model for Intramedullary Tumor Treatment.* **Childs Nerv Syst** 24:901-907, 2008.
108. Attenello F, McGirt MJ, Chaichana K, Atiba A, Carson B, Weingart J, **Jallo GI.** *Outcome of Chiari-Associated Syringomyelia after Hindbrain Decompression in Children: Analysis of 49 Consecutive Cases.* **Neurosurgery** 62:1307-1313, 2008.
109. Abel TJ, Chowdhary A, **Jallo G,** Wang PP, Burger P, Avellino AM. *Thoracic Spinal Cord Compression by Intramedullary Hamartomatous Tissue in a Young Boy: Case Report.* **Neurosurgery** 62:1380-1381, 2008.
110. McGirt MJ, Goldstein IR, Chaichana KL, Tobias ME, Kothbauer KF, **Jallo GI.** *Extent of Surgical Resection of Malignant Astrocytomas of the Spinal Cord: Analysis of Thirty-Five Patients.* **Neurosurgery** 63:55-61, 2008.
111. Hdeib A, Pradilla G, Caplan J, Tyler BM, Legnani FG, Bagley CA, Brem H, **Jallo GI.** *Intratumoral Administration of the Paclitaxel Delivery System OncoGel Delays the Onset of Paresis in Rats with Intramedullary Spinal Cord Tumors.* In press **J Neurosurg: Spine.**
112. Anderson WS, Kossoff EH, Bergey GK, **Jallo GI.** *Implantation of a Responsive Neurostimulator Device in Patients with Refractory Epilepsy.* **Neurosurg Focus** 25:E12, 2008.
113. McGirt MJ, Constantini S, **Jallo GI.** *Correlation of a Preoperative Grading Scale with Progressive Spinal Deformity Following Surgery for Intramedullary Spinal Cord Tumors in Children.* **J Neurosurg: Pediatrics** 2:277-281, 2008.
114. Frazier JL, Chaichana K, **Jallo GI,** Quinones-Hinojosa A. *Combined Endoscopic and Microscopic Management of Pediatric Pituitary Region Tumors Through One Nostril: Technical Note with Case Illustrations.* **Childs Nerv Syst** 24:1469-1478, 2008.
115. Xia T, Baird C, **Jallo G,** Hayes K, Nakajima N, Hata N, Kazanzides P. *An Integrated System for Planning, Navigation, and Robotic Assistance for Skull Base Surgery.* **Int J Med Robot** 4:320-331, 2008.
116. McGirt MJ, Attenello FJ, Atiba A, Garces-Ambrossi G, Dato G, Weingart JD, Carson B, **Jallo GI.** *Symptom Recurrence after Suboccipital Decompression for Pediatric*

- Chiari I Malformation: Analysis of 256 Consecutive Cases. Childs Nerv Syst* 24:1333-1339, 2008.
117. Thomale UW, Tyler B, Renard VM, Gaurneri M, Haberl HE, **Jallo GI**. *Local Chemotherapy in the Rat Brainstem with Multiple Catheters: A Feasibility Study. Childs Nerv Syst* 25:21-28, 2009.
118. Parker SL, Attenello FJ, Sciubba DM, Garces-Ambrossi GL, Ahn E, Weingart J, Carson B, **Jallo GI**. *Comparison of Shunt Infection Incidence in High-Risk Subgroups Receiving Antibiotic-Impregnated versus Standard Shunts. Childs Nerv Syst* 25:77-83, 2009.
119. Attenello FJ, McGirt MJ, Garces-Ambrossi GL, Chaichana KL, Carson BS, **Jallo GI**. *Suboccipital Decompression for Chiari I Malformation: Outcome Comparison of Duraplasty with Expanded Polytetrafluoroethylene Dural Substitute versus Pericranial Autograft. Childs Nerv Syst* 25:183-190, 2009.
120. Shakur SF, McGirt MJ, Johnson MW, Burger PC, Ahn E, Carson BS, **Jallo GI**. *Angiocentric Glioma: A Case Series. J Neurosurg: Pediatrics* 3:197-202, 2009.
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43. Shrivastava RK, Epstein FJ, Post KD, **Jallo GI**. *Intramedullary Spinal Cord Tumors in Patients Over 50 years*. American Association of Neurological Surgeons, April 2001.
44. **Jallo GI**, Velasquez L, Allen J, Siffert J. *Diagnosis and Multiagent Neoadjuvant Chemotherapy Followed by Reduced Dose Radiotherapy for Newly Diagnosed Germinoma in Children*. International Society of Pediatric Neurosurgery, June 2001.
45. Kothbauer KF, Alzate JC, **Jallo GI**, Epstein FJ. *Treatment of Chiari I Malformations*. World Federation of Neurological Surgeons, September 2001.
46. Alzate JC, Kothbauer KF, **Jallo GI**, Epstein FJ. *Treatment of Chiari I Malformation with and without Syringomyelia*. Congress of Neurological Surgeons, September 2001.
47. Kim B-S, **Jallo GI**, Kothbauer KF, Epstein FJ. *Osteomas of the Spine: Diagnosis and Management*. Congress of Neurological Surgeons, September 2001.
48. **Jallo GI**, LaMarca V, Allen J, Siffert J. *Reduced Dose Radiotherapy and Multiagent Neoadjuvant Chemotherapy for Germinoma*. Congress of Neurological Surgeons, September 2001.

49. Allen J, Siffert J, Kothbauer K, **Jallo G**. *Radiation Induced Meningiomas*. Society for Child Neurology, October 2001.
50. **Jallo GI**, Yao K, Bitan F, Kothbauer K, Epstein FJ. *Spinal Deformity Following Intramedullary Tumor Surgery*. First Quadrennial Meeting of the World Federation of Neuro-Oncology, November 2001.
51. **Jallo GI**, Kothbauer K, Abbott IR, Epstein FJ. *Management of Thalamic Tumors in Children*. First Quadrennial Meeting of the World Federation of Neuro-Oncology, November 2001.
52. **Jallo GI**, LaMarca V, Velasquez L, Kothbauer KF, Allen J, Siffert J. *Multiagent Neoadjuvant Chemotherapy for Germinoma*. Joint Section on Pediatric Neurological Surgery, November 2001.
53. Kothbauer KF, Factorovich A, **Jallo GI**, Velasquez L, Epstein FJ. *Tethered Cord Release in Infants: Surgical Morbidity*. Joint Section on Pediatric Neurological Surgery, November 2001.
54. Kothbauer KF, Buis D, **Jallo GI**, Epstein FJ. *Ventriculoperitoneal Shunts in Patients with Disseminated Brain Tumors*. Joint Section on Pediatric Neurological Surgery, November 2001
55. Bescke T, Romano J, **Jallo GI**. *Spinal Dural AV Fistula*. American Society for Neuroimaging, March 2002.
56. Kim B-S, **Jallo G**, Kothbauer K, Abbott R, Epstein F. *Intraoperative Magnetic Resonance Imaging: Pitfalls and Solutions*. American Association of Neurological Surgeons, April 2002.
57. Wilson S, Kothbauer KF, LaMarca V, Epstein F, **Jallo GI**. *Myxopapillary Ependymomas: Results of Surgery and Long-Term Outcome*. American Association of Neurological Surgeons, April 2002.
58. Kothbauer KF, Buis D, **Jallo GI**, Allen JC, Epstein F. *Ventriculoperitoneal Shunting in Patients with Disseminated Brain Tumors*. American Association of Neurological Surgeons, April 2002.
59. **Jallo GI**, LaMarca V, Velasquez L, Allen J. *Multi-agent Neoadjuvant Chemotherapy Followed by Response-dependent Reduced Dose Radiotherapy for Newly Diagnosed Germinoma in Children*. European Society for Pediatric Neurosurgery, June 2002.
60. Kim B-S, Wilson S, Wilson A, Kothbauer K, Abbott IR, **Jallo GI**. *Endoscopic Third Ventriculostomy: An Outcome Analysis*. Congress of Neurological Surgeons, September 2002.
61. Kim B-S, Wilson S, Faktorovich A, Kothbauer K, Abbott IR, **Jallo GI**. *Management of Hydrocephalus by Endoscopic Third Ventriculostomy in Patients with Brain Tumors*. Congress of Neurological Surgeons, September 2002.
62. Kim B-S, Kothbauer K, Abbott IR, **Jallo GI**. *The Role of Intraoperative Magnetic Resonance Imaging for Resection Monitor in Brain Tumor Surgery*. Congress of Neurological Surgeons, September 2002.

63. Roonprapunt C, Kothbauer K, Abbott IR, Epstein FJ, **Jallo GI**. *Management of Tectal Gliomas*. Congress of Neurological Surgeons, September 2002.
64. Goldstein I, Tobias M, Epstein FJ, **Jallo GI**. *Management of High Grade Intramedullary Astrocytomas*. Congress of Neurological Surgeons, September 2002.
65. Kim B-S, Wilson S, Buis D, Kothbauer K, **Jallo GI**, Abbott IR. *Endoscopic Third Ventriculostomy: An Outcome Analysis*. International Society of Pediatric Neurosurgery, October 2002.
66. **Jallo GI**, Kothbauer KF, Buis D, Allen J, Epstein FJ. *Ventriculoperitoneal Shunts in Patients with Disseminated and/or Malignant Brain Tumors*. Society for Neuro-Oncology Seventh Annual Meeting, November 2002.
67. **Jallo GI**, Roonprapunt C, Kothbauer KF, Abbott IR, Allen J, Epstein FJ. *Management of Tectal Gliomas: Surgery or Observation*. Society for Neuro-Oncology Seventh Annual Meeting, November 2002.
68. **Jallo GI**, Wilson S, Kothbauer KF, Epstein FJ. *Myxopapillary Ependymomas in Children: Results of Surgery*. Joint Section on Pediatric Neurological Surgery, December 2002.
69. Kothbauer KF, **Jallo GI**, Epstein FJ. *Closure Technique for Intradural Spinal Surgery to Prevent Re-Tethering*. Joint Section on Pediatric Neurological Surgery, December 2002.
70. Kothbauer KF, Kim B-S, Abbott IR, **Jallo GI**. *Management of Brain Tumor Related Obstructive Hydrocephalus with Endoscopic Third Ventriculostomy*. Joint Section on Pediatric Neurological Surgery, December 2002.
71. Mehta V, Epstein FJ, Abbott IR, **Jallo GI**. *Meningoangiomas in Children*. American Association of Neurological Surgeons, April 2003.
72. Kothbauer K, **Jallo G**, Velasquez L, Epstein F. *Management of Intramedullary Spinal Cord Tumors – Surgery First*. European Congress of Neurosurgery, September 2003.
73. Tobias M, Gold I, Epstein FJ, **Jallo GI**. *Holocord Tumors of the Spine – Surgical Management and Review of the Literature*. Congress of Neurological Surgeons, October 2003.
74. Gordon D, Roonprapunt C, **Jallo GI**. *Intraventricular Tumors: Analysis of 25 Consecutive Patients*. Congress of Neurological Surgeons, October 2003.
75. Roonprapunt C, Freed D, Kothbauer K, Epstein FJ, **Jallo GI**. *Intramedullary Solitary Fibromas: Diagnosis and Management*. Congress of Neurological Surgeons, October 2003.
76. **Jallo GI**, Shiminski-Maher T, Velasquez L, Abbott R, Epstein, F. *Recovery of Cranial Nerve Function Following Surgery for Focal Brainstem Tumors*. Section on Pediatric Neurological Surgery, December 2003.

77. Roonprapunt C, Abbott R, Epstein F, Kothbauer K, **Jallo GI**. *Tectal Gliomas: Retrospective Series of 37 Patients*. Section on Pediatric Neurological Surgery, December 2003.
78. **Jallo GI**, Yao K, Epstein FJ. *Spinal Deformity following Intramedullary Tumor Surgery*, American Society of Pediatric Neurosurgeons, February 2004.
79. Khan K, Guarnieri M, Liu YJ, Carson BS, **Jallo G**. *Safety and Distribution of Local Delivery of Doxorubicin in a Rodent Glioma Model*. American Association of Neurological Surgeons, May 2004.
80. **Jallo GI**, Maher T, Velasquez L, Abbott R. *Cranial Nerve Recovery Following Brainstem Tumor Surgery*. 32nd International Society of Pediatric Neurosurgery, August 2004.
81. **Jallo GI**, Allen J, Velasquez L. *Diagnosis and Multiagent Neoadjuvant Chemotherapy Followed by Reduced Dose Radiotherapy for Newly Diagnosed Germinoma in Children*. 32nd International Society of Pediatric Neurosurgery, August 2004.
82. **Jallo GI**, Wilson S, Kothbauer K. *Myxopapillary Ependymomas: What is the Optimal Treatment*. Congress of Neurological Surgeons, September 2004.
83. **Jallo GI**, Shrivistava R, Perrin N, Post K, Epstein FJ. *Spinal Cord Tumors in Patients Older than 50 Years of Age*. Congress of Neurological Surgeons, September 2004.
84. Pradilla G, Mauvinkurve G, Brem H, **Jallo GI**. *Intramedullary Spinal Cord Tumors: An Animal Model*. Congress of Neurological Surgeons, September 2004.
85. Sekuty J, **Jallo GI**, Wiengart J, Gokaslan Z, Rigamonti D, Minahan R, Gutierrez S. *Dorsal Column Mapping: A New Clinical Tool for Spinal Cord Monitoring*. IV International Neurophysiological Monitoring in Neurosurgery, November 2004.
86. Sciubba DM, Stuart RM, McGirt MJ, Woodward GF, Samdani A, Carson B, **Jallo GI**. *Antibiotic-Impregnated Shunt Catheters Decrease the Incidence of Shunt Infection in the Treatment of Hydrocephalus*. Section on Pediatric Neurological Surgery, December 2004.
87. **Jallo GI**, Wilson S, Kothbauer K, Epstein F. *Myxopapillary Ependymomas in Children: Results of Surgery*. Section on Pediatric Neurological Surgery, December 2004.
88. Pradilla G, Mavinkurve G, Legnani FG, Tyler BM, Gosalia N, Pindrik J, Hdeib A, Bagley C, Brem H, **Jallo GI**. *Toxicity and Efficacy Study of Locally-Delivered Chemotherapy in a Novel Rat Model of Intramedullary Spinal Cord Tumors*. Section on Pediatric Neurological Surgery, December 2004.
89. Pradilla G, Mavinkurve G, Legnani FG, Tyler BM, Gosalia N, Pindrik J, Hdeib A, Bagley C, Brem H, **Jallo GI**. *A Novel Model of Primary Spinal Cord Tumors in Rabbits: Functional, Radiological and Histopathological Characterization*. Section on Pediatric Neurological Surgery, December 2004.

90. Mavinkurve G, Pradilla G, Legnani FG, Tyler BM, Gosalia N, Pindrik J, Hdeib A, Bagley C, Brem H, **Jallo GI**. *A Novel Rat Model for Intramedullary Spinal Cord Glioma*. Section on Pediatric Neurological Surgery, December 2004.
91. **Jallo GI**, Bognar L. *Supraciliary Approach for Anterior Cranial Fossa Lesions in Children*. Section on Pediatric Neurological Surgery, December 2004.
92. Sciubba D, **Jallo GI**. *Antibiotic Impregnated Catheters for the Management of Hydrocephalus*. 1st Annual Neurological Surgery Conference on Internet, January 2005.
93. Pradilla G, Mavinkurve G, Legnani FG, **Jallo GI**. *Locally-Delivered Chemotherapy in a Rat Intramedullary Spinal Cord Tumor Model*. 1st Annual Neurological Surgery Conference on Internet, January 2005.
94. **Jallo GI**, Sciubba DM, Stuart RM, McGirt MJ, Woodward GF, Samdani A, Carson B. *Antibiotic-Impregnated Shunt Catheters in the Treatment of Pediatric Hydrocephalus*. 28th Annual Meeting of the American Society of Pediatric Neurosurgeons, February 2005.
95. Fowers K, Brem H, Brugge W, Hdeib A, **Jallo G**, Pradilla G, Tyler B, Callahan K. *Preclinical and Clinical Development of a Physically Targeted Controlled Paclitaxel Release Product, OncoGel[®], for Local Solid Tumor Management*. 12th International Symposium on Recent Advances in Drug Delivery Systems, February 2005.
96. Bagley CA, Wilson S, Kothbauer KF, **Jallo GI**. *Long Term Outcomes Following Surgical Resection of Myxopapillary Ependymomas in 43 Patients*. Section on Disorders of the Spine and Peripheral Nerves, March 2005. (1st Place Award)
97. Sciubba D, Stuart RM, McGirt MJ, Woodworth GF, Samdani AF, Carson BS, **Jallo GI**. *Antibiotic-Impregnated Shunt Catheters Decrease the Incidence of Shunt Infection*. American Association of Neurological Surgeons, April 2005.
98. Lee J, Penno MB, Guarnieri M, Johns D, Carson BS, **Jallo GI**. *A Novel Rodent Brainstem Tumor Model: Survival Study*. American Association of Neurological Surgeons, April 2005.
99. Lee J, **Jallo GI**, Penno MB, Guarnieri M, Carson BS. *Local and Chronic Drug Delivery for Surgically Eloquent Tissue in the Neonatal Rat*. American Association of Neurological Surgeons, April 2005.
100. Hdeib A, Pradilla G, Mavinkurve GG, Legnani FG, Caplan J, Williams T, Bagley C, Lee J, Brem H, **Jallo G**. *Safety of Locally Delivered Chemotherapy for Experimental Intramedullary Spinal Cord Tumors in Rabbits*. American Association of Neurological Surgeons, April 2005.
101. Caplan JM, Pradilla G, Legnani, FG, Hdeib A, Williams T, Mavinkurve G, Bagley CA, Brem H, **Jallo G**. *Experimental Intramedullary Gliomas in Rats: Functional Progression and Histopathological Characterization*. American Association of Neurological Surgeons, April 2005.
102. Pradilla G, Hdeib A, Legnani FG, Williams T, Caplan JM, Bagley CA, Brem H, **Jallo G**. *Locally delivered Oncogel (1.5 mg/ml Paclitaxel) is Safe for Intramedullary Injections and Significantly Prolongs Onset of Paraparesis in a Rat Model of Intramedullary Spinal Cord Tumors*. American Association of Neurological Surgeons, April 2005.

103. **Jallo GI**, Bognar L. *The Frontolateral Keyhole Craniotomy*. 13th World Congress of Neurological Surgery, June 2005.
104. **Jallo GI**, Sciubba D, Stuart RM, McGirt MJ, Woodworth G, Samdani A, Carson BS. *Antibiotic-Impregnated Catheters in the Treatment of Pediatric Hydrocephalus*. 13th World Congress of Neurological Surgery, June 2005.
105. **Jallo GI**, Li K, Roonprapunt C, Wisoff J, Abbott IR, Epstein FJ. *Endoscopic Third Ventriculostomy or Shunting for Hydrocephalus associated with Tectal Gliomas*. International Society of Pediatric Neurosurgery, September 2005.
106. Ahn ES, Bookland M, Carson BS, **Jallo GI**. *Experience with the Strata Programmable Valve in Shunt Dependent Children*. Congress of Neurological Surgeons, October 2005.
107. Kothbauer K, **Jallo GI**. *Intramedullary Spinal Cord Metastases*. Congress of Neurological Surgeons, October 2005.
108. Lee J, Penno M, Carson BS, **Jallo GI**. *A Novel Brainstem Tumor Model: Guide Screw-Based Technology System with Functional, Radiological and Histological Characterization*. Congress of Neurological Surgeons, October 2005.
109. McGirt MJ, Woodworth GF, Stewart RM, Sciubba DM, Carson BS, **Jallo GI**. *Adjustable versus Set-Pressure Valves Decrease the Risk of Proximal Shunt Obstruction despite Similar Revision Rates for the Treatment of Pediatric Hydrocephalus*. Congress of Neurological Surgeons, October 2005.
110. Anderson SW, Bergey G, Kosoff E, Ritzl E, **Jallo GI**. *Implantation of Responsive Neurostimulators in Patients with Refractory Epilepsy*. Congress of Neurological Surgeons, October 2005.
111. Coon AL, McGirt M, Woodworth GF, Vogel T, Colby GP, **Jallo GI**. *Outcomes Following Acute Subdural Hematoma Evacuation in Children: A Pediatric Trauma Center Experience*. Congress of Neurological Surgeons, October 2005.
112. Hdeib A, Caplan JM, Pradilla G, Tyler B, Legnani F, Brem H, **Jallo GI**. *Local Delivery of Paclitaxel with the OncoGel™ Delivery System for the Treatment of Intramedullary Spinal Cord Tumors in and Experiment Rodent Model*. Congress of Neurological Surgeons, October 2005.
113. Hdeib A, Caplan JM, Pradilla G, Tyler B, Legnani F, Brem H, **Jallo GI**. *Locally Delivered OncoGel™ Against an Established 9L Intramedullary Spinal Cord Gliosarcoma Delays the Onset of Paresis in an Experimental Rodent Model*. Congress of Neurological Surgeons, October 2005.
114. Caplan JM, Hdeib A, Pradilla G, Tyler B, Legnani F, Brem H, **Jallo GI**. *Local Delivery of Paclitaxel from the Paclimer/E Delivery System for the Treatment of Intramedullary Spinal Cord Tumors in and Experiment Rat Model*. Congress of Neurological Surgeons, October 2005.
115. Caplan JM, Hdeib A, Pradilla G, Tyler B, Legnani F, Brem H, **Jallo GI**. *A Novel Model of Intramedullary Spinal Cord Tumors in Rats: Functional Progression and Histopathological Characterization*. Congress of Neurological Surgeons, October 2005.
116. Volkov A, Penno M, Wong C, Huang RC, **Jallo GI**. *Local Delivery of M4N in a Brainstem Tumor Model Using a Cannulated Guide Screw*. Section on Pediatric Neurological Surgery, November 2005.

117. Wong C, Penno M, Volkov A, Ko Y, **Jallo GI**. *Efficacy of Local Delivery 3-Bromopyruvate in the Treatment of Brainstem Tumors*. Section on Pediatric Neurological Surgery, November 2005.
118. Caplan JM, Hdeib A, Pradilla G, Tyler B, Legnani F, Pennant W, Volkov A, Brem H, **Jallo G**. *Microsurgical Resection Improves Hind-Limb Function until Onset of Paresis in an Experimental Intramedullary Spinal Cord Tumor*. Section on Pediatric Neurological Surgery, November 2005.
119. Caplan JM, Hdeib A, Pradilla G, Tyler B, Legnani F, Pennant W, Volkov A, Brem H, **Jallo G**. *20 Gy Single and Fractionated Radiotherapy Dose Schedules Prolong Paresis-Free Survival in an Experimental Rat Intramedullary Spinal Cord Tumor Model*. Section on Pediatric Neurological Surgery, November 2005.
120. Ahn ES, Bookland M, Carson BS, Weingart JD, **Jallo GI**. *The Strata Programmable Valve for Shunt-Dependent Hydrocephalus: The Pediatric Experience at a Single Institution*. Section on Pediatric Neurological Surgery, November 2005.
121. Sepkuty JP, **Jallo G**, Wiengart J, Gokaslan Z, Gutierrez S. *Dorsal Column Mapping: A New Clinical Tool for Spinal Cord Monitoring: Accumulating Experience in Johns Hopkins Hospital*. Annual Meeting of the American Epilepsy Society, December 2005.
122. **Jallo GI**, Wong C, Volkov A, Ko Y, Penno M. *Directly-Guided Treatment for Brainstem Tumors: 3-Bromopyruvate in a Rat Brainstem Model*. American Association of Neurological Surgeons, April 2006.
123. Caplan JM, Hdeib A, Pradilla G, Tyler BM, Brem H, **Jallo G**. *A Novel Model of Intramedullary Spinal Cord Tumors and Novel Approaches to their Treatment*. Fifth Annual International Neuro-Oncology Update, August 2006.
124. Pennant WA, Caplan JM, Reidler J, Hdeib A, Pradilla G, Tyler B, Brem H, **Jallo GI**. *20 Gy Radiotherapy Prolongs Paresis-Free Survival Alone and in Combination with Locally Delivered Paclitaxel (OncoGel) in a Rat Intramedullary Spinal Cord Tumor Model*. Fifth Annual International Neuro-Oncology Update, August 2006.
125. Pennant W, Hdeib A, Tyler B, Brem H, **Jallo GI**. *20 Gy Radiotherapy Alone and in Combination with Locally Delivered Paclitaxel (OncoGel) Prolongs Paresis-Free Survival in an Experimental Rat Intramedullary Spinal Cord Tumor Model*. Congress of Neurological Surgeons, October 2006.
126. Sciubba D, McGirt M, Woodworth G, Carson BS, **Jallo GI**. *Prolonged Exposure to Antibiotic-Impregnated Shunt Catheters Does Not Increase the Incidence of Late Shunt Infections*. Congress of Neurological Surgeons, October 2006.
127. Sciubba D, McGirt M, Woodworth G, Carson BS, **Jallo GI**. *Antibiotic-Impregnated Catheters are Cost Effective in the Treatment of Hydrocephalus*. Congress of Neurological Surgeons, October 2006.
128. Goodman RR, McKhann M, Spencer D, Vives KP, Gwinn R, Marsh WR, Wharen RE, Zimmerman RS, Schwartz TH, Smith JR, **Jallo GI**. *Safety and Preliminary Efficacy of a Responsive Neurostimulator (RNS) for the Treatment of Intractable Epilepsy in Adults*. Congress of Neurological Surgeons, October 2006.
129. Goldstein I, Tobias M, Kothbauer K, Epstein FJ, **Jallo GI**. *Surgical Management of Malignant Spinal Cord Astrocytomas*. Congress of Neurological Surgeons, October 2006.
130. Anderson SW, Bergey G, Kosoff E, Ritzl E, **Jallo GI**. *Two-Year Followup on a Series of 7 Patients with Responsive Neurostimulation Implants for Seizure Control*. Congress of Neurological Surgeons, October 2006.

131. Sciubba DM, Marupudi NI, Bookland MJ, Bagley CA, Noggle JC, Ain MC, Carson B, **Jallo GI**. *Spinal Stenosis in Pediatric Achondroplasia*. Section of Pediatric Neurological Surgery, November 2006.
132. Sciubba DM, Noggle JC, Marupudi NI, **Jallo GI**. *Antibiotic Impregnated Shunt (AIS) Components are Safe and Efficacious in the Treatment of Infantile Hydrocephalus*. Section of Pediatric Neurological Surgery, November 2006.
133. Noggle JC, Sciubba DM, **Jallo GI**. *Antibiotic Impregnated Catheters for the Treatment of Neonatal Hydrocephalus*. 2nd Annual Neurological Surgery Conference on Internet, November 2006.
134. Sciubba DM, Marupudi NI, Bookland MJ, Bagley CA, Noggle JC, Ain MC, Carson B, **Jallo GI**. *Spinal Stenosis in Pediatric Achondroplasia*. Section on Disorders of the Spine and Peripheral Nerves, March 2007.
135. McGirt MJ, Woodworth GF, Sciubba DM, Wolinsky JP, **Jallo GI**, Gokaslan ZL. *Predictors of cervical instability requiring fusion after cervical laminectomy for intradural tumor resection*. Section on Disorders of the Spine and Peripheral Nerves, March 2007
136. McGirt MJ, Woodworth GW, Sciubba D, Weingart J, **Jallo GI**. *Use of Adjustable versus Set-Pressure Valves is Associated with a Decreased Risk of Shunt Failure in the Treatment of Pediatric Hydrocephalus*. Southern Neurosurgical Society Annual Meeting, March 2007.
137. McGirt MJ, Woodworth G, Kaisorn C, Gokaslan Z, **Jallo GI**. *Predictors of Neurological Outcome and Progressive Spinal Deformity After Resection of Intramedullary Spinal Cord Tumors in 80 Consecutive Patients*. Southern Neurosurgical Society Annual Meeting, March 2007.
138. Pennant W, Sciubba DM, Tamargo R, Tyler BM, **Jallo GI**. *Microsurgical Removal of Intramedullary Spinal Cord Gliomas in a Rat Spinal Cord Decreases Onset to Paresis, an Animal Model for Intramedullary Tumor Treatment*. Southern Neurosurgical Society Annual Meeting, March 2007.
139. Sciubba DM, McGirt MJ, Woodworth G, Carson BS, **Jallo GI**. *Prolonged Exposure to Antibiotic-Impregnated Shunt Components Does Not Increase Incidence of Late Shunt Infections*. Southern Neurosurgical Society Annual Meeting, March 2007.
140. Sciubba DM, Pennant W, Tyler BM, DeWeese TL, **Jallo GI**. *Short Inhibitory RNA (siRNA) to DNA-PK Leads to Decreased Protein Levels in 9L Gliosarcoma Cells, a Potential Technique for Radiation-Sensitization of Glial Tumors*. Southern Neurosurgical Society Annual Meeting, March 2007.
141. Marupudi N, Renard VM, Tyler BM, Li KW, Huang RC, Brem H, **Jallo G**. *Maltose-tri-O-methyl Nordihydroguaric Acid (maltose-M3N) is a Potential Chemotherapeutic Agent in the Treatment of Gliomas*. AANS/CNS Section on Tumors 7th Biennial Satellite Symposium, April 2007.

142. Marupudi N, Renard V, Tyler BM, Li KW, Brem H, **Jallo G**. *17-DMAG Inhibits Glioma Tumor Cells and Improves Survival in a Rat Brainstem Glioma Model*. AANS/CNS Section on Tumors 7th Biennial Satellite Symposium, April 2007.
143. McGirt M, Yao K, Witham TF, Bydon A, Chaichana KL, Epstein FJ, **Jallo GI**. *Risk Factors for Progressive Spinal Deformity following Surgical Resection of Intramedullary Spinal Cord Tumors in Children: Analysis of 164 Consecutive Cases*. Congress of Neurological Surgeons, September 2007.
144. McGirt M, Woodworth GF, Chaichana KL, Attenello, Carson BS, **Jallo GI**. *Ventricular Dilation Is Not a Reliable Measure of Acute Shunt Failure in Children Having Undergone Multiple Shunt Revisions*. Congress of Neurological Surgeons, September 2007.
145. McGirt M, Attenello F, Chaichana KL, Weingart JD, Carson BS, **Jallo GI**. *Duraplasty versus Cranial Decompression Alone Reduces Treatment Failure for Pediatric Chiari I Patients with Tonsil Herniation Caudal to C1 but Does Not Effect Outcome in Patients with Tonsil Herniation Rostral to C1*. Congress of Neurological Surgeons, September 2007.
146. McGirt M, Attenello F, Chaichana KL, Weingart JD, Carson BS, **Jallo GI**. *Clinical and Radiological Predictors of Treatment Failure after Suboccipital Decompression for Pediatric Chiari I Malformation: Analysis of 279 Consecutive Cases*. Congress of Neurological Surgeons, September 2007.
147. McGirt M, Yao K, Witham TF, Bydon A, Chaichana KL, Bitan F, Epstein FJ, **Jallo GI**. *A Proposed Grading System for Intramedullary Spinal Cord Tumors in Children: Predictive Value for Subsequent Progressive Spinal Deformity*. Congress of Neurological Surgeons, September 2007.
148. McGirt M, Yao K, Witham TF, Bydon A, Chaichana KL, Bitan F, Epstein FJ, **Jallo GI**. *Laminoplasty versus Laminectomy Is Associated with a Decreased Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in Children*. Congress of Neurological Surgeons, September 2007.
149. Than K, Woodworth GF, McGirt M, **Jallo GI**. *Adolescent Age is an Independent Predictor of Improved Outcome following Endoscopic Third Ventriculostomy for the Treatment of Hydrocephalus*. Congress of Neurological Surgeons, September 2007.
150. Sciubba DM, Noggle J, Carson BS, **Jallo GI**. *Spinal Stenosis Surgery Outcomes in Pediatric Patients with Achondroplasia*. 35th International Society of Pediatric Neurosurgery, September 2007.
151. Sciubba DM, Noggle J, Carson BS, **Jallo GI**. *Prolonged Exposure to Antibiotic- Impregnated Shunt Catheters does not Increase Incidence of Late Shunt Infections*. 35th International Society of Pediatric Neurosurgery, September 2007.
152. McGirt M, Carson BS, **Jallo GI**. *Predictors of Treatment Failure after Suboccipital Decompression for Pediatric Chiari I Malformation: Analysis of 279 Consecutive Cases*. 35th International Society of Pediatric Neurosurgery, September 2007.

153. McGirt M, Yao K, Constantini S, Epstein FJ, **Jallo GI**. *Risk Factors for Progressive Spinal Deformity Following Surgical Resection of Intramedullary Spinal Cord Tumors in Children: Analysis of 164 Consecutive Cases*. 35th International Society of Pediatric Neurosurgery, September 2007.
154. McGirt M, Yao K, Witham TF, Bydon A, Chaichana KL, Bitan F, Epstein FJ, **Jallo GI**. *A Proposed Grading System for Intramedullary Spinal Cord Tumors in Children: Predictive Value for Subsequent Progressive Spinal Deformity*. Section of Pediatric Neurological Surgery, November 2007.
155. McGirt M, Yao K, Witham TF, Bydon A, Chaichana KL, **Jallo GI**. *Laminoplasty versus Laminectomy Is Associated with a Decreased Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in Children*. Section of Pediatric Neurological Surgery, November 2007.
156. McGirt M, Attenello F, Carson B, **Jallo GI**. *Suboccipital Decompression for Chiari-Associated Scoliosis: Risk Factors and Time Course of Deformity Progression*. Section of Pediatric Neurological Surgery, November 2007.
157. Sciubba D, Noggle J, Vellimina A, Woodworth G, **Jallo GI**. *Incidence and Natural History of Aneurysms Associated with Arteriovenous Malformations in Children*. Section of Pediatric Neurological Surgery, November 2007.
158. Sciubba DM, Chaichana K, Woodworth GF, McGirt MJ, Gokaslan ZL, **Jallo GI**. *Predictors of Cervical Instability Requiring Fusion after Cervical Laminectomy for Intradural Tumor Resection*. Cervical Spine Research Society, November 2007.
159. McGirt M, Chaichana KL, Attenello F, Bydon A, Witham TF, **Jallo GI**. *Predictors of Motor and Sensory Dysfunction After Resection of Intramedullary Spinal Cord Tumors in Children*. AANS/CNS Spine Section Meeting, February 2008.
160. McGirt M, Chaichana KL, Attenello F, Bydon A, Witham TF, Yao KC, **Jallo GI**. *A Novel Grading System for Intramedullary Spinal Cord Tumors in Children: Predictive Value for Subsequent Progressive Spinal Deformity*. AANS/CNS Spine Section Meeting, February 2008.
161. McGirt M, Chaichana KL, Attenello F, Yao KC, Bydon A, Witham TF, **Jallo GI**. *Laminoplasty versus Laminectomy is Associated with a Decreased Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in Children*. AANS/CNS Spine Section Meeting, February 2008.
162. McGirt M, Attenello F, Bydon A, Witham TF, Carson BS, **Jallo GI**. *Suboccipital Decompression for Chiari-Associated Scoliosis: Risk Factors and Time Course of Deformity Progression*. AANS/CNS Spine Section Meeting, February 2008.
163. McGirt M, Attenello F, Gathini M, Dato G, Carson BS, **Jallo GI**. *Outcome of Chiari-Associated Syringomyelia after Hindbrain Decompression in Children: Analysis of 49 Consecutive Cases*. AANS/CNS Spine Section Meeting, February 2008.
164. McGirt M, Goldstein IM, Chaichana KL, Tobias ME, Kothbauer KF, **Jallo GI**. *Association of Degree of Resection and Survival after Resection of Malignant*

- Intramedullary Astrocytomas of the Spinal Cord.* AANS/CNS Spine Section Meeting, February 2008.
165. Thomale UW, Renard VM, Tyler B, Dorfman B, Vadappuram CP, Carson BS, Haberl HE, **Jallo GI.** *Neurological Scoring in the Rat Brainstem Glioma Model Compared with MR imaging and Histological Evaluation.* American Association of Neurological Surgeons, April 2008.
166. Thomale UW, Renard VM, Tyler B, Dorfman B, Gaurneri M, Haberl HE, **Jallo GI.** *Multiple Cannula Placements in the Rat Brainstem for Local Drug Delivery.* American Association of Neurological Surgeons, April 2008.
167. Xia T, Hayes K, Baird C, **Jallo G.** 2008 IEEE International Conference on Robotics and Automation, May 2008.
168. Thomale UW, Renard V, Tyler B, Dorfman B, Chacko VP, Carson BS, Haberl HE, **Jallo GI.** *Rat Brainstem Glioma Model: Neurological Scoring, Histological Evaluation and MR Imaging.* 59th Annual Meeting German Society of Neurosurgery (GDNC), June 2008.
169. Chaichana KL, McGirt M, Atenello F, Weingart J, Carson BS, **Jallo GI,** Quinones-Hinosa A. *Outcome Analysis of Malignant Supratentorial Malignant Brain Tumors in Children.* Congress of Neurological Surgeons, September 2008.
170. Shakur S, Atiba A, McGirt M, **Jallo GI.** *Angiocentric Glioma: Case Series and Review of the Literature.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
171. Noggle JC, Sciubba DM, **Jallo GI.** *Supraciliary Keyhole Craniotomy for Brain Abscess Debridement.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
172. Sciubba DM, Noggle JC, **Jallo GI.** *Pediatric Patients with Occipitocervical Instability Treated with Fusion: A Ten-Year Institution Experience.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
173. McGirt M, Chaichana KL, Attenello F, Carson BS, Weingart JD, **Jallo GI.** *Factors Associated with Recurrence and Survival for Pediatric Supratentorial Malignant Gliomas.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
174. Attenello FJ, McGirt M, Carson B, Weingart JD, **Jallo GI.** *Outcome of Chiari-Associated Syringomyelia after Hindbrain Decompression in Children: Analysis of 49 Consecutive Cases.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
175. Attenello FJ, Chaichana KL, **Jallo GI.** *Suboccipital Decompression For Chiari I Malformation: Outcome Comparison Of Duraplasty With Expanded Polytetrafluoroethylene Dural Substitute Versus Pericranial Autograft.* 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.

176. Sciubba DM, Noggle JC, **Jallo GI**. *Incidence and Natural History of Aneurysms Associated with Arteriovenous Malformations in Children*. 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
177. Frazier J, Chaichana K, Quinones-Hinosa A, **Jallo GI**. *Combined Endoscopic and Microscopic Management of Pediatric Pituitary Region Tumors Through One Nostril*. 36th Annual International Society of Pediatric Neurosurgery Meeting, October 2008.
178. McGirt MJ, Garces Ambrossi GL, Attenello FJ, Weingart J, Sciubba DM, **Jallo G**. *Outcome of Chiari-Associated Syringomyelia after Hindbrain Decompression in Children: Analysis of 49 Consecutive Cases*. Cervical Spine Research Society Meeting, December 2008.
179. McGirt MJ, Garces Ambrossi GL, Chaichana KL, Attenello FJ, , Sciubba DM, Gokaslan Z, **Jallo G**. *Spinal Deformity after Resection of Cervical Intramedullary Spinal Cord Tumor in Children*. Cervical Spine Research Society Meeting, December 2008.
180. Garces Ambrossi GL, McGirt MJ, Sciubba DM, Witham TF, Bydon A, Wolinsky JP, **Jallo G**, Gokaslan Z. *Factors Associated with Progression-Free Survival and Long-Term Neurological Outcome after Resection of Intramedullary Spinal Cord Tumors. Analysis of 101 Consecutive Cases*. Cervical Spine Research Society Meeting, December 2008.
181. Garces Ambrossi GL, McGirt MJ, Sciubba DM, Bydon A, Wolinsky JP, Witham T, Gokaslan Z, **Jallo GI**. *Spinal Deformity Following Laminoplasty versus Laminectomy for Resection of Intradural Spinal Tumors: Analysis of 238 Patients* Cervical Spine Research Society Meeting, December 2008.
182. Attenello FJ, Garces-Ambrossi GL, Chaichana KL, Ahn E, Carson BS, **Jallo GI**. *Suboccipital Decompression for Chiari I Malformation: Outcome Comparison Of Duraplasty With Expanded Polytetrafluoroethylene Dural Substitute Versus Pericranial Autograft*. Section of Pediatric Neurological Surgery, December 2008.
183. Attenello FJ, Garces-Ambrossi GL, Sciubba DM, Ahn E, Carson BS, Weingart JD, **Jallo GI**. *Medical Costs Associated With Shunt Infections in Patients Receiving Antibiotic-impregnated Shunts Versus Standard Shunt Catheters*. Section of Pediatric Neurological Surgery, December 2008.
184. Attenello FJ, Parker SL, Garces-Ambrossi GL, Sciubba DM, Ahn E, Weingart JD, Carson BS, **Jallo GI**. *Antibiotic-impregnated Versus Standard Shunt Systems Are Associated With Decreased Shunt Infection in High-risk Patient Subgroups*. Section of Pediatric Neurological Surgery, December 2008.
185. Garces-Ambrossi GL, Attenello FJ, Samuels R, Sutter EG, Bydon A, Gokaslan Z, Carson BS, **Jallo GI**. *Surgical Management of Pediatric Tethered Cord Syndrome With and Without Duraplasty: Neurological Outcome and Incidence of Retethering*

- After 115 Consecutive Cases.* Section of Pediatric Neurological Surgery, December 2008.
186. Bettegowda C, Ahn E, Weingart JD, Carson BS, **Jallo GI**. *Treatment of Choroid Plexus Tumors: A 20-Year Institutional Experience.* Section of Pediatric Neurological Surgery, December 2008.
187. **Jallo GI**. *Management of Spasticity.* 4th Annual Neurological Surgery Conference on Internet, December 2008.
188. **Jallo GI**, Thomale U, Renard V, Tyler B, Carson B. *Neurological Grading, Survival, MR Imaging and Histology in the Rat Brainstem Glioma Model.* 32nd Annual Meeting of the American Society of Pediatric Neurosurgeons, January 2009.
189. Zabel TA, Paulos SK, **Jallo G**, Ahn E, Johnston M. *Neuropsychological Outcomes Following Acquired Obstructive Hydrocephalus and Endoscopic Third Ventriculostomy: Three Adolescent Case Examples.* 37th Annual Meeting of the International Neuropsychological Society, February 2009.
190. Brady KM, Shaffner DH, Lee JK, Easley RB, Smielewski P, Czosnyka M, **Jallo GI**, Guerguerian A-M. *Continuous Monitoring of Cerebrovascular Reactivity after Traumatic Brain Injury in Children.* XXIVth International Symposium on Cerebral Blood Flow, Metabolism and Function & IXth International Conference on Quantification of Brain Function with PET Meeting, June 2009.
191. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini PJ. *A CT-based Feasibility Study of Translaminar Screw vs Pedicle Screw Fixation in the Upper Thoracic Spine.* Congress of Neurological Surgeons, October 2009.
192. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *The Effect of Gender on Choice of Thoracic Pedicle Screw Length and Diameter.* Congress of Neurological Surgeons, October 2009.
193. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *The Effect of Spinal Level on Ideal Thoracic Pedicle Screw Trajectory.* Congress of Neurological Surgeons, October 2009.
194. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *The Effect of Aorta on Pedicle Screw Trajectory in the Thoracic Spine.* Congress of Neurological Surgeons, October 2009.
195. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *Variation in Ideal Thoracic Pedicle Entry Point by Spinal Level.* Congress of Neurological Surgeons, October 2009.
196. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *A CT-based Morphometric Study of Upper Thoracic Pedicle Anatomy for Constructs Bridging the Cervicothoracic Junction.* Cervical Research Spine Society Meeting.

197. Kretzer RM, Chaput C, Sciubba DM, Garonzik IM, **Jallo GI**, McAfee PC, Cunningham BW, Tortolini J. *A CT-based Feasibility Study of Translaminar Screw Fixation in the Upper Thoracic Spine*. Cervical Research Spine Society Meeting.
198. Garces-Ambrossi G, McGirt M, Mehta V, Sciubba D, Parker S, Witham T, Bydon A, Wolinsky J-P, **Jallo G**, Gokaslan Z. *Factors Associated with Long-Term Neurological Outcome and Tumor Progression after Resection of Intramedullary Spinal Cord Tumors: Analysis of 103 Consecutive Cases*. 24th Annual Meeting North American Spine Society, November 2009.
199. McGirt M, Garces-Ambrossi G, Parker S, Samuels R, Sciubba D, Bydon A, **Jallo G**, Gokaslan Z. *Neurological Outcome after Surgical Management of Adult Tethered Cord Syndrome*. 24th Annual Meeting North American Spine Society, November 2009.
200. McGirt M, Garces-Ambrossi G, Attenello F, Parker S, Stewart A, **Jallo G**, Gokaslan Z, Weingart J. *Primary and Revision Suboccipital Decompression for Adult Chiari I Malformation: Analysis of Long-Term Outcomes in 393 Patients*. 24th Annual Meeting North American Spine Society, November 2009.
201. McGirt M, Garces-Ambrossi G, Mehta V, Parker S, Ahn E, Weingart J, Carson B, Samdani A, **Jallo G**. *Pediatric Tethered Cord Associated Scoliosis: Incidence, Time Course, and Factors Associated with Progression of Spinal Deformity after Spinal Cord Untethering*. 24th Annual Meeting North American Spine Society, November 2009.

Extramural Sponsorship

1. The Development of an Animal Model for Diffuse Pontine Gliomas. Principal Investigator, *Schejola Family Fund*: January 2000-December 2001, \$200,000.
2. Neurophysiological Monitoring of Sensory and Motor Pathways during Intraspinial Surgery. Principal Investigator, *Inn Foundation Grant*: January 2001-December 2001, \$35,000.
3. The Progression of Spinal Deformity in Children with Intramedullary Spinal Cord Tumors. Principal Investigator, *Medtronic-Sofamor Danek*: January 2001-December 2002, \$60,000.
4. Development of Intramedullary Spinal Cord Tumor Model. Principal Investigator, *Malia's Cord Foundation*: January 2005- December 2007, \$225,000.
5. Brainstem Cancer Therapy using M4N. Principal Investigator, *Erimos Grant*, June 2005-May 2006, \$82,000.

6. Antibiotic-Impregnated Catheters for Pediatric Hydrocephalus. Principal Investigator, *Codman Johnson & Johnson Educational Grant*, January 2006-December 2006, \$15,000.
7. Local Delivery for Diffuse Pontine Gliomas. Principal Investigator, *Beez Foundation*, February 2006-December 2006, \$10,000.
8. Isolation, Characterization, Migration and Transformation to Cancer Stem Cells of Human Pediatric Subventricular Zone Neural Stem Cells, Principal Investigator, *Children's Cancer Foundation*, November 2006-October 2008, \$198,000.
9. Hypothermia for Severe Traumatic Brain Injury in Children, Principal Investigator, *NIH: University of Pittsburgh Consortium*, May 2007-.
10. Diffuse Brainstem Tumors and Radiation Sensitizers. Principal Investigator, *Medical Support Association (Children's Cancer Research Coalition)*, March 2008-February 2010, \$50,000.
11. An Operator-Blinded, Non-Invasive, Observational Study of the Efficacy of a Non-Interventional Device, ShuntCheck, in Predicting Ventriculo-Peritoneal Shunt Flow and Clinical Outcome in Children and Adolescents Presenting to Emergency Departments, Principal Investigator, *NeuroDiagnostic Devices*, August 2008-July 2009, \$58,000.

EDUCATIONAL ACTIVITIES

Mentoring

Residents and Fellows

1. Mentor, Johns Hopkins University, Department of Neurosurgery, Resident, Ryan Kretzer, M.D. 2004 to present
2. Mentor, Johns Hopkins University, Department of Neurosurgery, Resident, Alexander Coon, M.D. 2007 to present

Medical and Undergraduate Students

1. Research Advisor, Alia Hdeib, MSIII-IV, June 2005 to June 2006.
2. Research Advisor, William Pennant, Undergraduate, December 2005 to June 2006.
3. Research Advisor, Gary Kao, Undergraduate, January 2006 to August 2006, Howard Hughes Fellow.
4. Research Advisor, Neena Marpudi, MSIII, June 2006 to August 2006, American Brain Tumor Association Summer Fellow.
5. Research Advisor, Aditya Halhore, MS, June 2008 to August 2008, American Brain Tumor Association Summer Fellow.

Editorial Activities

Editorial Board

1. **Annals of Neurosurgery**, January 2001 to present
2. **Child's Nervous System**, *associate editor*, November 2008 to present

3. **Faculty of 1000 Medicine:Neurology**, <http://www.f1000medicine.com>,
November 2005 to present
4. **Internet Journal of Neurosurgery**, <http://www.ispub.com/journals/ijns.htm>,
January 2001 to present
5. **Journal of Neurosurgery:Neurosurgical Focus**, *Topic Editor*, Neuroendoscopy,
December 2005
6. **Journal of Pediatric Neurology**, March 2004 to present
7. **Neurology: India, Advisory Board**, June 2003 to present
8. **Open Neurosurgery Journal**, *Editor-in-Chief*, July 2008 to present
9. **Pediatric Neurosurgery**, April 2004 to present
10. **Spine Universe**, <http://www.spineuniverse.com>, June 2003 to present

Journal Reviewer

1. **Cancer Therapy**, *ad hoc reviewer*, March 2007 to present
2. **Clinical Neurology and Neurosurgery**, *ad hoc reviewer*, December 2007 to present
3. **Journal of Neuro-Oncology**, *ad hoc reviewer*, October 2007 to present
4. **Journal of Neurology, Neurosurgery, & Psychiatry**, *ad hoc reviewer*, June 2006 to present
5. **Neurology: India**, *ad hoc reviewer*, June 2003 to present
6. **Magnetic Resonance Materials in Physics, Biology and Medicine**, *ad hoc reviewer*, April 2007 to present
7. **Neurosurgery**, *ad hoc reviewer*, January 2002 to present
8. **Neurosurgical Review**, *ad hoc reviewer*, September 2006 to present
9. **Pediatric Blood and Cancer**, *ad hoc reviewer*, January 2004 to present
10. **Southern Medical Journal**, *ad hoc reviewer*, May 2006 to present
11. **Spinal Cord**, *ad hoc reviewer*, January 2002 to present
12. **Surgical Neurology**, *ad hoc reviewer*, January 2002 to present
13. **Yonsei Medical Journal**, *ad hoc reviewer*, October 2007 to present

CLINICAL ACTIVITIES

Certification

- American Board of Neurological Surgery, 2002
- American Board of Pediatric Neurological Surgery, 2004
- National Board of Medical Examiners, Diplomate 1992

Licensures

- Maryland State Medical License, 2003
- New Jersey State Medical License, 2003
- New York State Medical License, 1992

ORGANIZATIONAL ACTIVITIES

National and International

1. AANS/CNS Section of Pediatric Neurological Surgery
 1. *Education Committee: Vice Chairman*
 2. *ISPN Liaison*
2. American Association of Neurological Surgeons
3. American College of Surgeons, Fellow
4. American Society of Pediatric Neurosurgeons
5. Children's Oncology Group
 1. *ACNS0232 Study Committee, Radiotherapy Alone vs Chemotherapy Followed by Response-Based Radiotherapy for Newly Diagnosed Primary CNS Germinoma*
6. Congress of Neurological Surgeons
 1. *Information Technology Committee*
 2. *Director, Sergeant-at-Arms October 2006 Annual Meeting*
 3. *Director, Sergeant-at-Arms September 2007 Annual Meeting*
7. International Society of Pediatric Neurosurgeons
8. Society for Neuro-Oncology
9. Society for Neurological Surgeons

Local and State

1. Maryland Neurosurgery Society

Institutional

1. Graduate Medical Education Committee, January 2007 to present
2. Neurosciences Website Committee, January 2005 to present
3. Neurosciences Implementation Physician Order Entry (POE)/IT Committee, July 2005 to present
4. Pediatric Trauma Committee, July 2003 to present
5. Program Director, Neurosurgery Residency Program, January 2007 to present

RECOGNITION

Honors and Awards

Education and Training

Graduated Magna Cum Laude, 1987
Omicron Delta Kappa, National Leadership Honor Society
Pi Delta Phi, National French Honor Society
Alpha Chi Sigma Prize, award for Highest Chemistry Honors
The American Institute of Chemists Award
Britt Chemistry Scholarship, 1984-1986
William F. Grupe Foundation Scholarship, 1987-1989

Professional

Baltimore Magazine, Best Doctors, 2007-present
Best Doctors in America, 2005-present
Chairman's Award of Excellence in Teaching. *Excellence in Resident Teaching and Education*, June 2008

Castle Connolly America's Top Doctors, 2008-present
Castle Connolly America's Top Doctors for Cancer, 2008-present
Consumers' Research Council of America, Guide to America's Top Surgeons, 2006-present
Patients' Choice Award, MDx Medical Inc., independent tabulation of patient experiences, 2008-present
Richard Otenasak, Jr., Faculty Teaching Award. *Excellence in Teaching and Commitment to Resident Education*, June 2006

Invited Talks, Panels

1. *Tenascin, Angiogenesis and Central Nervous System Neoplasia*. New York Neurosurgical Society, April 1997.
2. *Spinal Cord Anatomy and Physiology*. Neuroscience Symposium at the INN, September 1999.
3. *Image Guided Resection of Brain Tumors*. Beth Israel Medical Center Department of Pediatrics Grand Rounds, October 1999.
4. *Neurosurgery for Thalamic and Hypothalamic Tumors*. Symposium: Thalamic and Hypothalamic Tumors of Childhood. *Institute for Neurology and Neurosurgery*, November 1999.
5. *Intraspinal Tumors of Childhood*. Temple University, Department of Neurology and Neurosurgery Grand Rounds, March 2000.
6. *Interactive Image Guided Neurosurgery: Practical Course*. American Association of Neurological Surgeons, April 2000.
7. *Myelomeningocele: Role of the Doctor*. Beth Israel Medical Center, Department of Pediatrics Grand Rounds, July 2000.
8. *Thalamic Tumors in Children: Diagnosis and Management*. Albert Einstein School of Medicine, Department of Neurosurgery Grand Rounds, August 2000.
9. *Minimally Invasive Neurosurgery in Children*. Association of Operating Room Registered Nurses, September 2000.
10. *ABC's of Brain Tumors*. Beth Israel Medical Center, Department of Pediatrics Grand Rounds, March 2001.
11. *SLT Contact Laser for Neurosurgery*. First Emirates Neuroscience Conference, Dubai, United Arab Emirates, April 2001.
12. *Pediatric Neuro-Oncology: Case Studies*. American Academy of Neurology, May 2001.
13. *Minimizing Blood Loss in Pediatric Neurosurgical Procedures*. Blood Conservation: Alternative or Necessity, New York Academy of Medicine, November 2001.
14. *Supratentorial and Pineal Region PNET*. Symposium: Medulloblastomas and Other PNETs. *Institute for Neurology and Neurosurgery*, November 2001.

15. *Trials and Tribulations of Using the MR Scanner in the Operating Room.* Joint Section on Pediatric Neurological Surgery, November 2001.
16. *Surgical Technique for Posterior Fossa Tumors.* Sixth European Postgraduate Course in Pediatric Neurosurgery, May 2002.
17. *Malignant Brainstem Gliomas.* Sixth European Postgraduate Course in Pediatric Neurosurgery, May 2002.
18. *Spinal Deformity Following Surgery for Intraspinal Tumors.* Current Concepts in Treatment of Pediatric Spinal Disorders: A Primer for the Pediatric Practitioner, Cedars-Sinai Medical Center, June 2002.
19. *Contact Laser Microsurgery.* European Society for Pediatric Neurosurgery, June 2002.
20. *Neurosurgery with a Laser: Practical Course.* European Society for Pediatric Neurosurgery, June 2002.
21. *Spinal Cord Tumors: A Primer.* International Spinal Cord Tumor Support Group, July 2002.
22. *Neurosurgical Management of Arachnoid Cysts.* Beth Israel Medical Center, Department of Pediatrics Grand Rounds, September 2002.
23. *Image Guidance Cranial Navigation: Practical Course.* Congress of Neurological Surgeons, September 2002.
24. *Advances in Intraoperative Monitoring in Neurosurgery.* Benjamin Bloom Hospital Nacional de Niños, El Salvador, San Salvador Neurosurgical Society, November 2002.
25. *Spinal Cord Surgery: Neurosurgical View.* IIIrd International Symposium on Intraoperative Neurophysiological Monitoring in Neurosurgery, *Institute for Neurology and Neurosurgery*, November 2002.
26. *Passive Cranial Navigation.* Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2002.
27. *Passive Spinal Navigation.* Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2002.
28. *Image Guidance: How-do-I-do-it.* Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2002.
29. *Pediatric Spinal Cord Tumors.* Johns Hopkins University, Department of Neurosurgery Grand Rounds, January 2003.
30. *Brainstem Tumors Classification and Management.* Memorial Sloan-Kettering Hospital. Department of Pediatrics Grand Rounds, April 2003.
31. *Myelomeningocele: Initial Management.* Sixth European Postgraduate Course in Pediatric Neurosurgery, May 2003.
32. *Hypothalamic Lesions.* Sixth European Postgraduate Course in Pediatric Neurosurgery, May 2003.
33. *Case Presentations: Solve a Case.* Sixth European Postgraduate Course in Pediatric Neurosurgery, May 2003.

34. *Hydrocephalus and Ventricular Shunts*. Beth Israel Medical Center, Department of Pediatrics Grand Rounds, May 2003.
35. *Neurosurgery: Today and Tomorrow*. VI Congreso Internacional de Estudiantes de Medicina, El Salvador, May 2003.
36. *Brainstem Tumors: Current Management*. Beth Israel Medical Center, Department of Pediatrics Grand Rounds, June 2003.
37. *Spinal Cord Tumors: New Developments*. (AMC), Department of Neurosurgery Grand Rounds, Amsterdam, August 2003.
38. *Hydrocephalus and VP Shunts*. Sinai Hospital, Department of Pediatrics Grand Rounds, Baltimore, November 2003.
39. *Hydrocephalus, Shunt and Complications*. Johns Hopkins Hospital, Department of Pediatrics Resident Conference, November 2003.
40. *Passive Cranial Navigation*. Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2003.
41. *Passive Spinal Navigation*. Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2003.
42. *Image Guidance: How-do-I-do-it*. Advanced Techniques in Image-Guided Brain and Spine Surgery, Mount Sinai School of Medicine, December 2003.
43. *Intrathecal Baclofen for Spasticity*. Mt. Washington Pediatric Hospital, Department of Rehabilitation Grand Rounds, Baltimore, January 2004.
44. *Occult Spinal Dysraphism and Tethered Cord Syndrome*. The York Hospital, Department of Pediatrics Grand Rounds, February 2004.
45. *Hydrocephalus and Ventricular Shunts*. Johns Hopkins Hospital, Department of Pediatric Emergency Room Resident Conference, March 2004.
46. *Occult Spinal Dysraphism and Hydrocephalus*. Howard County General Hospital, Department of Pediatric Grand Rounds, May 2004.
47. *Local Delivery of Chemotherapy Agents with Polymers for Pediatric Brain Tumors*. American Society of Clinical Oncology, June 2004.
48. *Effective Management of Hydrocephalus in the Spina Bifida Patient*. Spina Bifida Association of America 31st Annual Conference, June 2004.
49. *Spinal Cord Tumors and Aging with a Spinal Cord Tumor*. Spinal Cord Tumor Association Annual Meeting, July 2004.
50. *Pediatric Spinal Cord Tumors*. Spinal Cord Tumor Association Annual Meeting, July 2004.
51. *Pediatric Neurosurgery: An Update*. Division of Pediatric Neurology Grand Rounds, Johns Hopkins Hospital, September 2004.
52. *Neurofibromatosis and the Brain Surgeon*. Neurofibromatosis Conference, Johns Hopkins Hospital, November 2004.
53. *Intramedullary Spinal Cord Tumors: Neurosurgical Perspective*. IV International Intraoperative Neurophysiological Monitoring in Neurosurgery, November 2004.

54. *Novel Treatments for Brain Tumors*. Brain Tumor Foundation Awareness Day 2004, November 2004.
55. *Intradural Spinal Tumors: Management and Complication Avoidance*. Johns Hopkins Hospital, Department of Rehabilitation Medicine Resident Conference, November 2004.
56. *New Approaches for Surgically Eloquent Central Nervous System Tumors*. Florida Brain Tumor Association Awareness Day 2005, January 2005.
57. *Intramedullary Spinal Cord Tumors: Complication Avoidance* (panel). American Association of Neurological Surgeons, April 2005.
58. *Update on Pediatric Neurosurgery*. Johns Hopkins Children's Center 33rd Annual Pediatric Trends, April 2005.
59. *Intramedullary Spinal Cord Tumors: Complication Avoidance*. AO ASIF Interactive Spine Course, Baltimore, April 2005.
60. *Intramedullary Spinal Cord Tumors*. Temple University, Spine Symposium, Philadelphia, May 2005.
61. *MR Imaging for Brachial Plexus Injury*. Exploring Shoulder Dystocia and Brachial Plexus Injury: Multidisciplinary Perspectives, Baltimore, May 2005.
62. *Pediatric Neurosurgery: A 2005 Update*. The Johns Hopkins Biennial Meeting, June 2005.
63. *Hydrocephalus: An Update for the Neurologist*. Neurology Resident Rounds, June 2005.
64. *Management of Spasticity in Children*. 13th World Congress of Neurological Surgery, Morocco, June 2005.
65. *Pediatric Neuroendoscopy* (Moderator and Speaker). 13th World Congress of Neurological Surgery, Morocco, June 2005.
66. *Intramedullary Spinal Cord Tumors*. International Meeting Updates in Neuro-Oncology, Arezzo, Italy, June 2005.
67. *Intradural Spinal Cord Tumors* (panel). Congress of Neurological Surgeons, October 2005.
68. *Hydrocephalus: A Resident's Primer*. Neuroradiology Teaching Conference, Johns Hopkins University, October 2005.
69. *What's New in Pediatric Head Injury: Guidelines and Observations*. Pediatric Trauma Teaching Conference, October 2005.
70. *Effective Neurosurgical Management in the Patient with Spina Bifida*. Chesapeake-Potomac Spina Bifida Association Conference, October 2005.
71. *AANS Oral Board Review Course* (invited faculty). American Association of Neurological Surgery, November 2005.
72. *Pediatric Hydrocephalus: A Resident's Primer*. Pediatric Resident Conference, Johns Hopkins University, November 2005.

73. *Hydrocephalus for the Pediatric Neurologist: A Comprehensive Approach*. Pediatric Neurology Grand Rounds, Johns Hopkins University, December 2005.
74. *Intramedullary Spinal Cord Tumors: Surgical Techniques and Risk Avoidance* (panel). American Association of Neurological Surgeons, April 2006.
75. *Intramedullary Spinal Cord Tumors: Surgical Management and Functional Recovery*. Department of Rehabilitation Medicine Resident Conference, April 2006.
76. *Head Shape Abnormalities in Infants*. Johns Hopkins Children's Center 34th Annual Pediatric Trends, April 2006.
77. *AANS Oral Board Review Course* (invited faculty). American Association of Neurological Surgery, May 2006.
78. *Q&A for the Experienced Parent*. 9th National Conference on Hydrocephalus, May 2006.
79. *Intramedullary Spinal Cord Tumors: Current Research and Treatment*. Second Conference Spinal Cord Tumor Association, August 2006.
80. *Pediatric Intramedullary Spinal Cord Tumors*. Second Conference Spinal Cord Tumor Association, August 2006.
81. *Spinal Cord Tumors* (panel). Congress of Neurological Surgeons, October 2006.
82. *New Bipolar Technology*. Congress of Neurological Surgeons, Codman Symposium, October 2006.
83. *Antibiotic Impregnated Catheters: Are They Cost Effective?* Congress of Neurological Surgeons, Codman Symposium, October 2006.
84. *Diastematomyelia* (invited faculty). Asian Australasian Postgraduate Course in Pediatric Neurosurgery, November 2006.
85. *Case Discussions of Pediatric Orbital Lesions* (invited faculty). Asian Australasian Postgraduate Course in Pediatric Neurosurgery, November 2006.
86. *Solve a Case Session* (invited faculty). Asian Australasian Postgraduate Course in Pediatric Neurosurgery, November 2006.
87. *Hydrocephalus: The Neurosurgical Perspective for the Radiologist*. Neuroradiology Teaching Conference, Johns Hopkins University, November 2006.
88. *Innovations in Neurosurgery*. Section of Pediatric Neurological Surgery, Codman Symposium, November 2006.
89. *Pediatric Neurosurgery: Past, Present and Future*. 18th Annual PAN Philadelphia Neurosurgery Conference, January 2007.
90. *Pediatric Neurosurgery Forum* (panel). 18th Annual PAN Philadelphia Neurosurgery Conference, January 2007.
91. *Orthotropic Xenograft Models of Intramedullary Spinal Cord Tumors*. NIH Workshop on Spinal Cord Tumors, February 2007.
92. *Intramedullary Spinal Cord Tumors: What is the Optimal Treatment?* Barrow Neurological Institute. Division of Pediatric Neurosciences Grand Rounds, February 2007.

93. *Hydrocephalus: What is the Optimal Treatment in Children*. Neuro-Psychology Grand Rounds, Kennedy Krieger Institute, March 2007.
94. *Advances in Neurosurgery*. American Association of Neurological Surgery, Codman Symposium, April 2007.
95. *Pediatric Head Injury*. Care of the Pediatric Trauma Patient Program, Johns Hopkins University, April 2007.
96. *Spinal Neuroenteric Cysts* (invited faculty). European Postgraduate Course in Pediatric Neurosurgery, April 2007.
97. *Intramedullary Spinal Cord Tumors* (invited faculty). European Postgraduate Course in Pediatric Neurosurgery, April 2007.
98. *Solve a Case Session* (invited faculty). European Postgraduate Course in Pediatric Neurosurgery, April 2007.
99. *Shunts for Pediatric Hydrocephalus: Are Antibiotic Impregnated Catheters Better?* 35th Annual Meeting of the Japanese Society of Pediatric Neurosurgery, May 2007.
100. *Traumatic Brain Injury: Prognostic Indicators and Initial Management*. Tawam Hospital, United Arab Emirates Grand Rounds, June 2007.
101. *Intramedullary Spinal Cord Tumors: Optimal Management*. XIX Congreso Mexicano de Cirugia Neurologica, July 2007.
102. *Intramedullary Spinal Cord Tumors* (panel). Congress of Neurological Surgeons, September 2007.
103. *Intramedullary Spinal Cord Tumors*. Japanese-American Neurosurgical Friendship Symposium, October 2007.
104. *Hydrocephalus and Shunt Malfunctions*. Neuroradiology Teaching Conference, Johns Hopkins University, October 2007.
105. *Pediatric Posterior Fossa Tumors*. American Neurosurgery Update in the State of Kuwait, December 2007.
106. *Brainstem Tumors: Optimal Management*. American Neurosurgery Update in the State of Kuwait, December 2007.
107. *Hydrocephalus: The Ultimate Primer*. Department of Pediatrics, Greater Baltimore Medical Center, December 2007.
108. *Initial Management and Prognostic Indicators for Pediatric Head Trauma*. Topics in Trauma Care, Hagerstown Community College, March 2008.
109. *Management of Pediatric Head Injury*. Care of the Pediatric Trauma Patient Program, Johns Hopkins University, March 2008.
110. *Keyhole Supra-orbital Craniotomy*. Combined Approaches to the Skull Base, Baltimore, Maryland, May 2008.
111. *Pediatric Head Injury: Initial Management*. Care of the Pediatric Trauma Patient, Johns Hopkins University, May 2008.
112. *AANS Julius Goodman Oral Board Review Course* (invited faculty). American Association of Neurological Surgery, May 2008.

113. *Antibiotic Impregnated Catheters: Are They Cost-Effective as Compared to Traditional Systems?* 59th Annual Meeting German Society of Neurosurgery (DGNC), Wurzburg, Germany, May 2008.
114. *Shunt Infections: What are the Benefits of Antibiotic-Impregnated Catheters.* First Ibero-American Forum, Madrid, Spain, June 2008.
115. *Shunt Infections- Round Table Panel.* First Ibero-American Forum, Madrid, Spain, June 2008.
116. *Spinal Cord Tumors: A Patient's Perspective.* Spinal Cord Tumor Association Meeting, Chicago, July 2008.
117. *Pediatric Head Injury Guidelines and Observations.* Pediatric Trauma Conference, Division of Pediatric Surgery, Johns Hopkins University, July 2008.
118. *Pathophysiology of Pediatric Brain Injury (Moderator).* 26th Annual National Neurotrauma Symposium, Orlando, Florida, July 2008.
119. *Extramedullary Intradural Spinal Neoplasms.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
120. *Spinal Deformity after Spinal Surgery: Etiology, Incidence, Prevention and Management.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
121. *Cerebral Hemispheric Tumors (excluding Intraventricular and Thalamic Tumors) Management of Tumors in Language Area.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
122. *Posterior Fossa Ependymoma: Case-based Presentation.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
123. *Brainstem Tumors: Current Classification and When to Operate.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
124. *Surgical Approaches to Pineal Tumors.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
125. *Brain Tumors and Neuronavigation.* XI Curso De Educacion Continua en Neurocirugia Pediatrica Flanc, Rancagua, Chile, August 2008.
126. *Spinal Cord Tumors: What is the Optimal Management.* XIX Congreso Mexicano de Cirugia Neurologica, Multidisciplinary Perspectives in Brain Tumor Management, Puerto Vallarta, Mexico, August 2008.
127. *Pediatric Tumors (moderator).* 7th International Updates in Neuro-Oncology, Baltimore, Maryland, September 2008.
128. *Intramedullary Spinal Cord Tumors (panel).* Congress of Neurological Surgeons, September 2008.
129. *Intramedullary Spinal Cord Tumor Surgery: Can We do it Without Intraoperative Neurophysiological Monitoring?* Neuromonitoring 2008, V&A Waterfront, Cape Town, South Africa, October 2008.

130. *Brain Tumors: Comprehensive and Practical Approach*. Neurological Society of Kenya, Mombassa, Kenya, October 2008.
131. *Central Nervous System Neuroendoscopy*. 2nd American-Kuwaiti Neurosurgery Meeting, November 2008.
132. *Intramedullary Spinal Cord Tumors*. 2nd American-Kuwaiti Neurosurgery Meeting, November 2008.
133. *Surgical Management of Spinal Tumors*. 1st Annual Temple NeuroOncology Seminar: Current Updates in Neuro-Oncology, January 2009.
134. *Head Shape Abnormalities: Craniosynostosis or Plagiocephaly*. Division of Pediatric Neurology Grand Rounds, February 2009.
135. *Initial Management of Pediatric Head Injury*. Care of the Pediatric Trauma Patient, Johns Hopkins University, March 2009.
136. *Pediatric Head Injury: Initial Management and Observations*. Codman Education Forum, Dubai, UAE, April 2009.
137. *Childhood Brain Tumors: Diagnosis and Management*. Codman Education Forum, Dubai, UAE, April 2009.
138. *Abnormal Head Shapes in Children: Craniosynostosis or Plagiocephaly*. Neuroradiology Teaching Conference, Johns Hopkins University, April 2009.
139. *Intramedullary Spinal Cord Tumors (panel)*. American Association of Neurological Surgery, May 2009.
140. *How to Prevent Shunt Infections: The Effects of Antibiotic Impregnated Catheters*. 21st Annual Meeting of Korean Society of Pediatric Neurosurgery, Muju, Korea, May 2009.
141. *Chiari Malformations in Children*. 21st Annual Meeting of Korean Society of Pediatric Neurosurgery, Muju, Korea, May 2009.
142. *How to Prevent Shunt Infections*. 6th Latin American Forum, Sao Paulo, Brazil, July 2009.
143. *Pediatric Head Injury: Management Strategy*. 6th Latin American Forum, Sao Paulo, Brazil, July 2009.
144. *Spinal Cord Tumors: Diagnosis and Management*. XX Congreso Mexicano de Cirugia Neurologica, Multidisciplinary Perspectives in Brain Tumor Management, Cancun, Mexico, July 2009.

Invited Reviews, Editorials, Meeting Chairs

1. Meeting Chair: 1st Annual Neurological Surgery Conference on the Internet, January 2005.
2. Organizing Committee: 2nd Annual Neurological Surgery Conference on the Internet, November 2006.

3. Scientific Advisory Board: *3rd Annual Neurological Surgery Conference on the Internet*, December 2007.
4. Scientific Advisory Board: *4th Annual Neurological Surgery Conference on the Internet*, December 2008.
5. Topic Editor: *Neuroendoscopy*, **Neurosurgical Focus**, December 2005.
6. Topic Editor: *Pediatric Vascular Disorders*, **Childs Nerv Syst**, in preparation.

Lectureships and Visiting Professorships

1. *Contact Laser in Neurosurgery*. John F Kennedy Hospital. Istanbul, Turkey, November 6-7, 2000.
2. *A Neurosurgical Contact Laser*. University of Verona. Department of Neurosurgery Grand Rounds, Verona, Italy, June 18-19, 2002.
3. *Hydrocephalus and Ventricular Shunt Complications*. duPont Hospital for Children, Department of Pediatrics Grand Rounds, August 6, 2002.
4. *Intramedullary Spinal Cord Tumors*. Temple University, Department of Neurosurgery Grand Rounds, September 7, 2002.
5. *Chiari Malformations*. Benjamin Bloom Hospital Nacional de Niños, San Salvador, El Salvador, November 10-13, 2002.
6. *Intramedullary Hemangioblastoma: Current Management Strategy*. Academisch Medisch Centrum (AMC), Amsterdam, June 15-16, 2003.
7. *Clinical Applications for the Contact Laser in Neurosurgery*. Dalian Municipal Central Hospital. Dalian, China, April 11-14, 2004.
8. *Craniosynostosis or Plagiocephaly*. Temple University, Department of Pediatrics Grand Rounds, February 15, 2005.
9. *Central Nervous System Tumors of Childhood*. Seminar Pädiatrische Neurochirurgie, Vienna, Austria, March 30-April 1, 2006.
10. *Intramedullary Spinal Cord Tumors: Past, Present and Future*. Seminar Pädiatrische Neurochirurgie, Vienna, Austria, March 30-April 1, 2006.
11. *Clinical Applications for the Contact Laser in Neurosurgery*. Sino-American Academy Conference for Surgical Lasers in Medicine. Beijing, China, May 23, 2006.
12. *The Surgical Contact Laser in Neurosurgery*. Nanjing General Hospital. Department of Neurosurgery. Nanjing, China, May 25, 2006.
13. *Intramedullary Spinal Cord Tumors: Neurosurgical Perspective*. Tawam Hospital. Al Ain, United Arab Emirates, November 10, 2006.
14. *Recent Advances in the Treatment of Brainstem Tumors*. National Children's Medical Center, Tokyo, Japan, May 30, 2007.
15. *Antibiotic Impregnated Catheters for Pediatric Hydrocephalus*. Wessex Neurological Centre, Southampton, UK, September 14, 2007.
16. *Intramedullary Spinal Cord Tumors: Treatment Options*. Wessex Neurological Centre, Southampton, UK, September 14, 2007.

17. *Spinal Cord Tumors: Surgery and Postoperative Management*. CHARITÉ – Universitätsmedizin zu Berlin, Berlin, Germany, June 5, 2008.
18. *Spinal Cord Tumors*. Hospital de Pediatría “Prof. Dr. Juan P. Garrahan”, Buenos Aires, Argentina, December 23, 2008.
19. *Spinal Cord Tumors: Management and Surgical Adjuncts*. University of Maryland, Department of Neurosurgery Grand Rounds, January 22, 2009.
20. *Neurosurgery in Kenya: Lessons Learned*. Albert Einstein College of Medicine, Department of Neurosurgery Grand Rounds, March 23, 2009.
21. *Intramedullary Spinal Cord Tumors*. Asan Medical Center, Seoul, Korea, May 7, 2009.
22. *Antibiotic Impregnated Catheters for the Treatment of Hydrocephalus*. Asan Medical Center, Seoul, Korea, May 7, 2009.