

Curriculum Vitae
Justin M. Caplan, M.D.

Current Appointments

Assistant Professor of Neurological Surgery
Johns Hopkins University School of Medicine
Baltimore, Maryland

Office Contact

Address:	Department of Neurological Surgery Johns Hopkins Hospital 1800 Orleans Street Sheikh Zayed Tower, Suite 6115C Baltimore, MD 21287	Department of Neurological Surgery Bayview Medical Center 4940 Eastern Avenue 301 Building, Suite 2100 Baltimore, MD 21224
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Education

1997-2001	Superintendent's Diploma of Distinction Academy of Leisure Medicine and Health Sciences Coral Reef Senior High School, Miami, Florida
2001-2005	Bachelor of Arts, Neuroscience, <i>General and Departmental Honors</i> <i>Concentration: Cellular and Molecular Neuroscience</i> Johns Hopkins University, School of Arts and Science, Baltimore, Maryland
2005-2009	Doctor of Medicine Harvard Medical School, Boston, Massachusetts

Post-Doctoral Training

2009-2010	Intern, Neurological Surgery Johns Hopkins University School of Medicine, Baltimore, Maryland
2010-2015	Assistant Resident, Neurological Surgery Johns Hopkins University School of Medicine, Baltimore, Maryland
2013-2014	Fellowship in Cerebrovascular Neurological Surgery Johns Hopkins University School of Medicine, Baltimore, Maryland

Accredited by the Committee on Accreditation of Subspecialty Training (CAST) of the Society of Neurological Surgeons

- 2014-2015 Fellowship in Endovascular Neurological Surgery
Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2015-2016 Chief Resident, Neurological Surgery
Johns Hopkins University School of Medicine, Baltimore, Maryland
- 2016-2017 Fellowship in Endovascular Neurological Surgery
University of Miami School of Medicine, Miami, Florida
Accredited by the Committee on Accreditation of Subspecialty Training (CAST) of the Society of Neurological Surgeons

Academic Appointments

- 2017-Present Assistant Professor of Neurological Surgery
Johns Hopkins University School of Medicine, Baltimore, Maryland

Certification Exams

- 2007 United States Medical Licensing Exam Step 1
- 2008 United States Medical Licensing Exam Step 2 CK
- 2008 United States Medical Licensing Exam Step 2 CS
- 2010 United States Medical Licensing Exam Step 3
- 2013 American Board of Neurological Surgery, Primary Examination

Licensure

- 2013-Present Maryland Board of Physicians, License #D76618 (Expires 9/30/2018)
- 2014-Present Maryland Controlled Dangerous Substances, Certification #M80776 (Expires 3/31/2018)
- 2014-Present Drug Enforcement Agency Controlled Substance Registration (Expires 8/31/2019)
- 2016-Present Florida Department of Health, Resident Registration #TRN23047 (Expires 6/30/2018)

Hospital Appointments

- 2009-2016 House Staff, Department of Neurosurgery, Johns Hopkins Hospital, Baltimore, Maryland
- 2009-2016 House Staff Department of Neurosurgery, Johns Hopkins Bayview Medical Center, Baltimore, Maryland
- 2013-2015 Adjunct Staff, Department of Neurosurgery, Sinai Hospital, Baltimore, Maryland
- 2015-2016 Assistant Chief of Service, Department of Neurosurgery, Johns Hopkins Hospital, Baltimore, Maryland

2016-2017 House Staff, Department of Neurosurgery, Jackson Memorial Hospital, Miami, Florida

2016-2017 House Staff, Department of Neurosurgery, University of Miami Hospital, Miami, Florida

2016-2017 House Staff, Department of Neurosurgery, Nicklaus Children's Hospital, Miami, Florida

2017-Present Attending Physician, Department of Neurosurgery, Johns Hopkins Hospital, Baltimore, Maryland

2017-Present Attending Physician, Department of Neurosurgery, Johns Hopkins Bayview Medical Center, Baltimore, Maryland

2017-Present Attending Physician, Department of Neurosurgery, Suburban Hospital, Bethesda, Maryland

Honors/Awards

2001 Graduated #1 in Academy of Leisure Medicine and Health Sciences, Coral Reef Senior High School, Miami, Florida

2001-2004 Dean's List, Johns Hopkins University

2003-2005 Jerome and Helen Margulies Scholar, Johns Hopkins University

2003-2005 Milton W. Kronsberg Scholar, Johns Hopkins University

2003-2005 Alpha Epsilon Delta, Premedical Honor Society, Johns Hopkins University

2004 Provost's Undergraduate Research Award, Johns Hopkins University

2004-2005 Nu Rho Psi, Neuroscience Honor Society, Johns Hopkins University

2005 Phi Beta Kappa, Johns Hopkins University

2006 A. Stone Freedberg Fund Fellowship for Student Research, Harvard Medical School

2012 Irving J. Sherman Award for Resident Achievement, Johns Hopkins University School of Medicine, Department of Neurological Surgery

2013 Timothy P. Susco Chair of Research Award for Excellence in Brain Aneurysm Research, Brain Aneurysm Foundation

2014 Walter Dandy Award for Clinical Research, Johns Hopkins University School of Medicine, Department of Neurological Surgery

2015 Step for Hope Chair of Research Award for Excellence in Brain Aneurysm Research, Brain Aneurysm Foundation

Research Positions

2003-2005 Undergraduate Student/Senior Laboratory Technician, Hunterian Neurological Surgery Research Laboratory, Department of Neurosurgery, Johns Hopkins University School of Medicine.
Mentors: Henry Brem, M.D. and George Jallo, M.D.
Projects: 1) *Novel model of intramedullary spinal cord tumors and 2) Local drug delivery for brain and spinal tumors*

- 2006-2007 Medical Student, Molecular Neurosurgery Laboratory, Department of Neurosurgery, Massachusetts General Hospital.
Mentor: Robert Martuza, M.D.
Project: *Efficacy of genetically engineered ICP6 mutant herpes simplex viral vectors for the treatment of glioma*
- 2013-2016 Post-Doctoral Fellow, Division of Cerebrovascular Neurological Surgery, Department of Neurosurgery, Johns Hopkins University School of Medicine.
Mentors: Rafael J. Tamargo, M.D., Judy Huang, M.D., Alexander Coon, M.D. and Geoffrey Colby, M.D., Ph.D.
Projects: 1) *Haptoglobin phenotype and clinical outcomes in patients with intracranial cerebral aneurysms*, 2) *The role of neural stem cells in learning and memory in experimental subarachnoid hemorrhage*, 3) *Modeling enabled database for aneurysm hemodynamics and risk stratification*, 4) *Clinical outcomes and techniques in cerebrovascular diseases*

Funding

- 6/04-8/04 Provost's Undergraduate Research Award, Johns Hopkins University:
Novel Approaches to Inhibiting the DNA Repair Enzyme O6-Alkylguanine-DNA-Alkyltransferase for the Treatment of Malignant Brain Tumors
Award Amount: \$2,500
- 6/06-8/06 A. Stone Freedberg Fund for Student Research, Harvard Medical School:
Efficacy of genetically engineered ICP6 mutant herpes simplex viral vectors for the treatment of glioma.
Award Amount: \$2,000
- 9/13-9/14 Brain Aneurysm Foundation Timothy P. Susco Chair of Research Grant:
Haptoglobin phenotype and clinical outcomes in patients with intracranial cerebral aneurysms.
Role: Principal Investigator
Award Amount: \$25,000
- 9/14-9/15 Institute for Data-Intensive Engineering and Science, Johns Hopkins University, Seed Funding Grant:
A Modeling Enabled Database for Aneurysm Hemodynamics and Risk Stratification.
Role: Co-Investigator
Award Amount: \$25,000
- 9/15-9/16 Brain Aneurysm Foundation Step for Hope Chair of Research Grant:

The role of neural stem cells in learning and memory in experimental subarachnoid hemorrhage.

Role: Principal Investigator

Award Amount: \$25,000

Teaching Activities

2003-2004	Teaching Assistant, Topics in Neuroscience (AS080.101), Johns Hopkins University
2004	Laboratory Teaching Assistant, Neuroscience Lab (AS080.250), Johns Hopkins University
2004-2005	Instructor, MCAT General Chemistry, The Princeton Review
2005	Private Tutor, SAT II Chemistry Subject Test, The Princeton Review
2008-2009	Patient-Doctor II 4 th Year Tutor, Harvard Medical School, Brigham and Women's Hospital
2013-2014	Neurosurgery Senior Resident Teaching Conference, Johns Hopkins University School of Medicine
2015-2016	Neurosurgery Chief Resident Teaching Conference, Johns Hopkins University School of Medicine

Board of Directors

2004-2005	Hillel of Greater Baltimore (Member, Student Grants Committee)
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Committees

2006-2007	Harvard Medical School Committee on Admissions of Students (Member, Subcommittee II on HMS Admissions)
2008-2009	Harvard Medical School Committee on Admissions of Students (Member, Main Committee)
2011-2012	Nursing/Resident Collegiality Committee, Department of Neurosurgery, Johns Hopkins University School of Medicine
2013-2014	Root Cause Analysis Committee, The Johns Hopkins Hospital
2013-2016	Program Evaluation Committee, Department of Neurosurgery, Johns Hopkins University School of Medicine
2013-2015	House Staff Council, The Johns Hopkins Hospital
2014-2015	Neurointerventional Radiology CUSP Committee, The Johns Hopkins Hospital
2014-2015	Neurosciences IT Committee, The Johns Hopkins Hospital
2015-2016	Nursing/Resident Collegiality Committee, Department of Neurosurgery, Johns Hopkins University School of Medicine
2015-2016	Clinical Competency Committee, Department of Neurosurgery, Johns Hopkins University School of Medicine
2016-Present	International Stroke Conference Annual Meeting Abstract Selection Committee
2016-Present	Fellows Committee, Society of NeuroInterventional Surgery (Chair)

Editorial Activities

2015-Present	Ad-hoc reviewer, World Neurosurgery
2016-Present	Ad-hoc reviewer, Clinical Neurology and Neurosurgery
2016-Present	Ad-hoc reviewer, Operative Neurosurgery
2017-Present	Ad-hoc reviewer, Journal of NeuroInterventional Surgery

Professional Memberships

American Association of Neurological Surgeons
Congress of Neurological Surgeons
AANS/CNS Joint Cerebrovascular Section
Johns Hopkins University Institute for Data Intensive Engineering and
Science (IDIES)
Society of NeuroInterventional Surgery
2016-Present Chair, Fellows Committee

Peer-Reviewed Articles

1. **Caplan J**, Pradilla G, Hdeib A, Tyler B, Legnani F, Bagley C, Brem H, Jallo G. A Novel model of intramedullary spinal cord tumors in rats: functional progression and histopathological characterization. **Neurosurgery** 59(1):193-200, 2006.
2. Brem S, Tyler B, Khan L, Pradilla G, Legnani F, **Caplan J**, Brem H. Local Delivery of Temozolomide by biodegradable polymers is superior to oral administration in a rodent glioma model. **Cancer, Chemotherapy and Pharmacology** 60(5):643-650, 2007.
3. **Caplan JM**, Khalpey Z, Gates J. Closed traumatic head injury: dural sinus & internal jugular vein thrombosis. **Emergency Medicine Journal** 25(11):777-778, 2008
4. Tyler B, Fowers K, Li K, Rencinos V, **Caplan J**, Hdeib A, Grossman R, Basaldella L, Bekelis K, Pradilla G, Legnani F, Brem H. A thermal gel depot for local delivery of paclitaxel to treat experimental brain tumors. **Journal of Neurosurgery** 113(2): 210-217, 2010
5. Tyler BM, Hdeib A, **Caplan J**, Legnani FG, Fowers KD, Brem H, Jallo G, Pradilla G. Delayed onset of paresis in rats with experimental intramedullary spinal cord gliosarcoma following intratumoral administration of paclitaxel delivery system OncoGel. **Journal of Neurosurgery Spine** 16(1): 93-101, 2012
6. **Caplan JM**, Colby G, Coon A, Huang J and Tamargo RJ. Managing Subarachnoid Hemorrhage in the Neurocritical Care Unit. **Neurosurgery Clinics of North America** 24(3):321-337, 2013

7. Sarkiss C, Soleymani T, **Caplan JM**, Dorsi M, Huang J. Intracerebral abscess with dissecting pneumocephalus caused by a gas-producing gram-positive rod following craniotomy for glioblastoma multiforme resection. **Journal of Clinical Neuroscience** 20(11):1625-1627, 2013
8. **Caplan JM**, Papadimitriou K, Wuyang Y, Colby GP, Coon AL, Olivi A, Tamargo RJ, Huang J. The minipterional craniotomy for anterior circulation aneurysms: Initial experience with 72 patients. **Neurosurgery** 10 (Suppl 2):200-207, 2014
9. **Caplan JM**, Groves M, Jusue-Torres I, Kim J, Liauw J, Bydon A, Tamargo RJ. Microsurgical Obliteration of a Thoracic Spinal Perimedullary Arteriovenous Fistula. **Neurosurgical Focus** 37 (Suppl 2):Video 13, 2014
10. **Caplan JM**, Sankey E, Yang W, Colby G, Coon A, Tamargo R, Huang J. Impact of Indocyanine Green Videoangiography on Rate of Clip Adjustments following Intraoperative Angiography. **Neurosurgery** 75:437-444, 2014
11. Patel M, **Caplan JM**, Yang W, Colby G, Coon A, Tamargo R, Huang J. Arterial Fenestrations and their Association with Cerebral Aneurysms: Case Series and Comprehensive Review. **Journal of Clinical Neuroscience** 21(12):2184-2188, 2014
12. Yang W, Wang J, **Caplan JM**, Braileanu M, Shang H, Upadhyay U, Zenonos G, Rigamonti D, Colby G, Coon A, Tamargo RJ, Huang J. Predictors of Functional Outcome following Treatment of Posterior Fossa Arteriovenous Malformations. **Journal of Clinical Neuroscience** 22:357-362, 2015
13. **Caplan JM**, Kaminsky I, Gailloud P, Huang J. A Single Burr-hole Approach for Direct Transverse Sinus Cannulation for the Treatment of a Dural Arteriovenous Fistula. **Journal of NeuroInterventional Surgery** 7:E5, 2015
14. Kodadek L, Leeper W, **Caplan JM**, Molina C, Stevens K, Colby G. Retained Transcranial Knife Blade with Transection of the Internal Carotid Artery Treated by Staged Endovascular and Surgical Therapy. **Neurosurgery** 11 (Suppl 1):E372-375, 2015
15. Wei Z, Garzon-Muvdi T, Wuyang Y, **Caplan JM**, Radvany M, Colby G, Coon A, Tamargo RJ, Huang J. Utility of intraoperative C-arm angiography for management of emergent cerebrovascular pathology. **Interdisciplinary Neurosurgery: Advanced Techniques and Case Management** 2:98-102, 2015
16. **Caplan JM**, Jusue-Torres I, Kim J, Luksik A, Liauw J, Gottschalk A, Tamargo JR. Far-Lateral, Transcondylar Approach for Microsurgical Trapping of an Anterior Inferior Cerebellar Artery Aneurysm. **Neurosurgical Focus** 39 (Suppl 1):V9, 2015

17. **Caplan JM**, Sankey E, Gullotti D, Wang J, Westbroek E, Hwang B, Huang J. Contralateral Approach for Clipping of Bilateral Anterior Circulation Aneurysms. **Neurosurgical Focus** 39 (Suppl 1):V6, 2015
18. Wang J, Smith R, Ye X, Yang W, **Caplan JM**, Radvany M, Colby G, Coon A, Tamargo RJ, Huang J. Serial imaging surveillance for patients with history of intracranial aneurysms: risk of de novo aneurysm formation. **Neurosurgery** 77(1):32-43, 2015
19. Yang W, **Caplan JM**, Ye X, Wang J, Braileanu M, Rigamonti D, Colby G, Coon A, Tamargo RJ, Huang J. Racial associations with hemorrhagic presentation in cerebral arteriovenous malformation patients. **World Neurosurgery** 84(2):461-9, 2015
20. Braileanu M, Yang W, **Caplan JM**, Huang J. Imaging the spontaneous obliteration of a cerebral arteriovenous malformation using C-arm cone beam computed tomography: A case report. **Surgical Neurology International** 6(Suppl 15):S399-401, 2015
21. McCracken DJ, Lovasik BP, Turan N., **Caplan JM**, McCracken CE, Cawley CM, Barrow DL, Dion JE, Tamargo RJ, Nogueira RG, Pradilla G. Resolution of Occulomotor Nerve Palsy Secondary to Ruptured Posterior Communicating Artery Aneurysm: Comparison Between Clipping and Coiling. **Neurosurgery** 77(6):931-939, 2015
22. Boone C, **Caplan JM**, Wuyang Y, Ye X, Colby G, Coon A, Tamargo RJ, Huang J. Hemorrhage risk and clinical features of multiple intracranial arteriovenous malformations. **Journal of Clinical Neuroscience** 23:51-57, 2016
23. Murthy S, **Caplan J**, Levy A, Pradilla G, Moradiya Y, Schneider E, Shalom H, Ziai W, Tamargo RJ, Nyquist P. Haptoglobin 2-2 Genotype is Associated with Cerebral Salt Wasting Syndrome in Aneurysmal Subarachnoid Hemorrhage. **Neurosurgery** 78(1): 71-76, 2016
24. Colby GP, Lin L, **Caplan JM**, Jiang B, Michniewicz B, Huang J, Tamargo RJ, Coon AL. Flow diversion of large and giant anterior circulation aneurysms with the Surpass Device: Initial Impression. **Journal of NeuroInterventional Surgery** 8(3):279-286, 2016
25. Yang W, Hung A, **Caplan JM**, Braileanu M, Wang J, Colby GP, Coon A, Tamargo RJ, Huang J. Delayed Hemorrhage after Treatment of Brain Arteriovenous Malformations (AVMs). **World Neurosurgery** 87:98-109, 2016
26. Yang W, Liu A, Hung A, Braileanu M, Wang J, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Ahn ES, Huang J. Lower risk of intracranial arteriovenous malformation hemorrhage in patients with hereditary hemorrhagic telangiectasia (HHT). **Neurosurgery** 78(5): 684-693, 2016

27. Rong X, Yang W, Garzon-Muvdi T, Xiaobo Y, Caplan JM, Colby GP, Coon A, Tamargo RJ, Huang J. Risk Factors Associated with Ipsilateral Ischemic Events Following Carotid Endarterectomy (CEA) for Carotid Artery Stenosis. **World Neurosurgery** 89:611-619, 2016
28. Garzon-Muvdi T, Yang W, Rong X, **Caplan JM**, Ye X, Colby GP, Coon AL, Tamargo RJ, Huang J. Restenosis after carotid endarterectomy: Insight into risk factors and modification of postoperative management. **World Neurosurgery** 89:159-167, 2016
29. Boone C, **Caplan JM**, Garzon-Muvdi T, Ye X, Groves M, Yang W, Tamargo RJ, Ahn E, Huang J. Hemorrhage risk in pediatric patients with multiple intracranial arteriovenous malformations. **Pediatric Neurosurgery** 51(4):175-82, 2016
30. Colby G, Lin LM, **Caplan JM**, Jiang B, Huang J, Tamargo RJ, Coon AL. Immediate procedural outcomes in 44 consecutive Pipeline Flex cases: the first North American single-center series. **Journal of NeuroInterventional Surgery** 8(7):702-709, 2016
31. Yang W, Wei Z, Wang J, Hung A, **Caplan JM**, Braileanu M, Colby G, Coon A, Tamargo RJ, Huang J. Long-term outcomes of patients with giant intracranial arteriovenous malformations. **Neurosurgery** 79(1):116-124, 2016
32. Rong X, Yang W, Garzon-Muvdi T, **Caplan JM**, Hui X, Lim M, Huang J. Influence of Insurance Status on Survival of Adults with Glioblastoma Multiform (GBM): A population based study. **Cancer** 122(20): 3157-3165, 2016
33. Yang W, Anderson-Keightly H, Westbroek E, **Caplan JM**, Rong X, Hung A, Colby GP, Coon AL, Tamargo RJ, Hung J, Ahn E. Long term hemorrhagic risk in pediatric arteriovenous malformation (AVM) patients. **Journal of Neurosurgery Pediatrics** 18(3): 329-38, 2016
34. Yang W, Rong X, Braileanu M, Jiang B, Garzon-Muvdi T, **Caplan J**, Colby G, Coon A, Tamargo J, Huang J. Is carotid revascularization safe for patients with concomitant carotid stenosis and intracranial aneurysms? **World Neurosurgery** 93:11-18, 2016
35. Yang W, Porras JL, Garzon-Muvdi T, Xu R, **Caplan JM**, Hung AL, Braileanu M, Rong X, Colby GP, Coon AL, Tamargo RJ, Huang J. Management outcome of brain arteriovenous malformations (AVMs): The role of radiosurgery. **World Neurosurgery** 94:64-72, 2016
36. Braileanu M, Yang W, **Caplan JM**, Lin L, Radvany M, Tamargo RJ, Huang J. Inter-observer agreement of arteriovenous malformation diffuseness using digital subtraction angiography. **World Neurosurgery** 95:535-541, 2016

37. Yang W, Porras J, Hung A, Khalid S, Garzon-Muvdi T, **Caplan JM**, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Huang J. Risk of hemorrhage in patients with arteriovenous malformations (AVMs) in patients over age 60. **Journal of Clinical Neuroscience** 34:121-127, 2016
38. Sur S., Snelling B, Khandelwal P, **Caplan J**, Peterson E, Starke RM, Yavagal D. Transradial Approach for Mechanical Thrombectomy in Anterior Circulation Large Vessel Occlusion.” **Neurosurgical Focus** 42(4):E13,2017
39. Yang W, Garzon-Muvdi T, Braileanus M, Porras J, **Caplan JM**, Rong X, Huang J, Jallo G. Primary intramedullary spinal cord lymphoma: A population based study. **Neuro-Oncology** 19(3):414-421, 2017
40. Garzon-Muvdi T, Wang Y, Luksik AS, Ruiz Arguelles A, Tamargo RJ, **Caplan J**, Tamargo RJ. Postoperative delayed paradoxical depression (PDPD) after uncomplicated intracranial aneurysm surgery. **World Neurosurgery** 99:19-25, 2017
41. Yang W, Westbroek E, Anderson-Keightly H, **Caplan JM**, Rong X, Hung A, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Ahn ES, Huang J. Male gender associated with post-treatment seizure risk of pediatric arteriovenous malformation patients. **Neurosurgery** 80(6):899-907, 2017
42. Porras J, Yang W, Garzon-Muvdi T, Xu R, Blakeley J, Belzberg A, **Caplan J**, Khalid S, Colby G, Coon A, Tamargo R, Ahn E, and Huang J. Surgical treatment of patients with Moyamoya syndrome and type 1 neurofibromatosis. **World Neurosurgery** 99:19-25, 2017
43. Porras J, Yang W, Philadelphia E, Law J, Garzon-Muvdi T, **Caplan J**, Colby G, Coon A, Tamargo R, Huang J. Hemorrhage risk of brain arteriovenous malformations (AVMs) during pregnancy and puerperium in a North American cohort. **Stroke** 48(6):1507-1513, 2017
44. Hung A, Wuyang Y, Garzon-Muvdi T, **Caplan JM**, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Huang J. Differences in functional outcomes across subtypes with Spetzler-Martin grade II arteriovenous malformations (AVMs). **Neurosurgery** (In Press)
45. Yang W, Xu R, Porras J, Takemoto C, Khalid S, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon A, Tamargo RJ, Huang J, Ahn E. Effectiveness of surgical revascularization for stroke prevention in pediatric patients with sickle cell disease (SCD) and Moyamoya syndrome (MMS). **Journal of Neurosurgery: Pediatrics** (In Press)
46. Yang W, Porras J, Xu R, Braileanu M, Khalid S, Hung A, **Caplan J**, Garzon-Muvdi T, Rong X, Colby G, Coon A, Tamargo RJ, Huang J. Comparison of hemorrhagic risk in

intracranial arteriovenous malformations (AVMs) between conservative management and embolization as the single modality. **Neurosurgery** (In Press)

47. Hung A, Wang Y, Braileanu M, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Risk assessment of hemorrhage of Posterior Inferior Cerebellar Artery (PICA) aneurysms in posterior fossa arteriovenous malformations (AVMs). **Operative Neurosurgery** (In Press)
48. Luksik, A, Law, J, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Assessing the Role of Preoperative Embolization in the Surgical Management of Cerebral Arteriovenous Malformations **World Neurosurgery** (In Press)

Book Chapters

1. **Caplan JM**, Huang J, Tamargo RJ. Microsurgery of Anterior Communicating Artery Aneurysms. In *Youmans and Winn Neurological Surgery*. Ed. Winn HR. Philadelphia, Pennsylvania: Elsevier, Chapter 386: 3315-3325, 2017
2. **Caplan JM**, Naval N, Huang J and Tamargo RJ. Aneurysm Surgery. In *Neurocritical Care Management of the Neurosurgical Patient*. Ed. Kumar M, Levine, Schuster J, and Kofke W., J. Elsevier, Chapter 9:95-104, 2017
3. **Caplan JM** and Huang J. Editorial On: Early Surgery verses Initial Conservative Treatment in Patients with Spontaneous Lobar Intracerebral Hematomas (STITCH II). In *CNS Essential Papers in Neurosurgery*. Ed. Bendok B, Ghogawala Z, El Tecie N, Ragel B, Asthafirl A and Resnick D. (Submitted)

Editorials/Letters/Correspondence

1. **Caplan JM** and Huang J. In Reply: Clinical and Surgical Experience With the Minipterional Craniotomy. **Neurosurgery** 75(30): E325, 2014
2. **Caplan JM** and Huang J. In Reply: How Mini can Mini-Pterional Craniotomies Get? **Neurosurgery** 76(1):E102-3, 2015
3. **Caplan JM** and Huang J. Comments on Carotid Endarterectomy Surgical Simulation Model Using a Bovine Placenta Vessel. **Neurosurgery** 77(5):829-830, 2015

Abstracts

1. Amundson E, **Caplan J**, Tyler B, Brem H, Weingart J. "SJG-136: A novel agent for the treatment of experimental gliomas: An in vivo toxicity and efficacy study." Congress of Neurological Surgeons, Denver, CO, October 18-23, 2003

2. Upadhyay U, Amundson E, **Caplan J**, Tyler B, Brem H. “Mechanistic and efficacy studies of nimesulide in combination with BCNU versus experimental gliomas. American Association of Neurological Surgeons, Orlando, FL, May 1-6, 2004
3. Brem S, Tyler B, Legnani F, Pradilla G, **Caplan J**, Posner S, Brem H. “Combination Toxicity Studies of Temozolomide and BCNU in the Rat Experimental Model.” American Association of Neurological Surgeons, New Orleans, LA, April 16-21, 2005
4. **Caplan J**, Pradilla G, Legnani F, Hdeib A, Williams T, Mavinkurve G, Bagley C, Brem H, Jallo G. “Experimental intramedullary gliomas in rats: functional progression and Histopathological characterization.” American Association of Neurological Surgeons, New Orleans, LA, April 16-21, 2005
5. Pradilla G, Hdeib A, Legnani F, Williams T, Tyler B, **Caplan J**, Bagley C, Brem H, Jallo G. “Locally delivered Oncogel (1.5mg/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, New Orleans, LA, April 16-21, 2005
6. Hdeib A, Pradilla G, Mavinkurve G, Legnani F, **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, New Orleans, LA, April 16-21, 2005
7. Hdeib A, **Caplan J**, Pradilla G, Tyler B, Legnani F, Brem H, Jallo G. “Local Delivery of Paclitaxel with the OncoGel delivery system for the Treatment of Intramedullary Spinal Cord Tumors in an Experimental Rodent Model.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005. (Oral Poster)
8. **Caplan J**, Hdeib A, Pradilla G, Tyler B, Legnani F, Brem H, Jallo G. “A Novel Model of Infiltrative Intramedullary Spinal Cord Tumors in Rats: Functional Progression and Histopathological Characterization.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005.
9. **Caplan J**, Hdeib A, Pradilla G, Tyler B, Legnani F, Brem H, Jallo G. “Local Delivery of Paclitaxel from the Paclimer delivery system for the treatment of Intramedullary Spinal Cord Tumors in an Experimental Rat Model.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005.
10. Hdeib A, **Caplan J**, Pradilla G, Tyler B, Legnani F, Brem H, Jallo G. “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, Boston, MA, October 8-13, 2005.

11. Tyler B, **Caplan J**, Baker M, Pedersen P, Brem H, Ko Y. “Efficacy of 3-Bromopyruvate *via* ATP Depletion Therapy in an Experimental Malignant Glioma Model.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005.
12. Tyler B, Brem S, **Caplan J**, Hdeib A, Legnani F, Pradilla G, Brem H. “Validation of an Experimental Malignant Glioma Model with Temozolomide and Radiation Therapy.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005.
13. Tyler B, Kim G, Nair S, **Caplan J**, Tupper M, Li Y, Cima M, Langer R, Brem H. “Polymeric Microchip Delivery of BCNU Inhibits Tumor Growth in the Rat 9L Gliosarcoma Flank Model.” Congress of Neurological Surgeons, Boston, MA, October 8-13, 2005.
14. **Caplan J**, 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.” AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, November 30-December 2, 2005. (Oral Presentation)
15. **Caplan J**, 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.” AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, November 30-December 2, 2005.
16. Pennant W, **Caplan J**, Reidler J, Hdeib A, Pradilla G, Tyler B, Jallo G. “20 Gy Radiotherapy Prolongs Paresis-Free Survival alone and in Combination with Locally Delivered Paclitaxel (OncoGel®) in an Experimental Rat Intramedullary Spinal Cord Tumor Model.” American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
17. Hdeib A, Tyler B, Legnani F, **Caplan J**, Reidler J, DiMeco F, Hanes J, Brem H. “Efficacy of Locally Delivered IL-12 Polymer Microspheres in an Experimental Intracranial 9L Gliosarcoma Rat Model.” American Association of Neurological Surgeons, San Francisco, CA, April 22-27, 2006.
18. Pennant W, **Caplan J**, Reidler J, Hdeib A, Pradilla G, Tyler B, Brem H, and Jallo G. “20 Gy Radiotherapy Prolongs Paresis-Free Survival alone and in Combination with Locally Delivered Paclitaxel (OncoGel®) in an Experimental Rat Intramedullary Spinal Cord Tumor Model.” 5th Annual International Neuro-Oncology Update, Memphis, TN, August 24-25, 2006. (Oral Poster)

19. **Caplan J**, Hdeib A, Pradilla G, Tyler B, Brem H, and Jallo G. “A Novel Model of Intramedullary Spinal Cord Tumors and Novel Approaches to their Treatment.” 5th Annual International Neuro-Oncology Update, Memphis, TN, August 24-25, 2006. (Oral Poster)
20. **Caplan J**, Zaupa C, Rabkin S, Martuza R. “Efficacy of Genetically Engineered ICP6 Mutant Herpes Simplex Viral Vectors for the Treatment of Glioma.” Soma Weiss Research Day, Harvard Medical School, Boston, MA, April 19, 2007
21. **Caplan J**, Papadimitriou K, Olivi A, Coon A, Tamargo R, Huang J. “The Minipterional craniotomy for treatment of select anterior circulation intracranial aneurysms: Initial experience with 58 patients.” AANS/CNS Joint Cerebrovascular Section Annual Meeting/Society of Neurointerventional Surgery International Endovascular Stroke Conference, Honolulu, HI, February 4-5, 2013.
22. Yang W, **Caplan J**, Ye X, Wang J, Braileanu M, Colby G, Coon A, Tamargo R, Huang J. “Race/Ethnicity and Other Risk Factors Associated with Hemorrhagic Presentation of Intracranial Arteriovenous Malformations.” AANS/CNS Joint Cerebrovascular Section Annual Meeting/Society of Neurointerventional Surgery International Endovascular Stroke Conference, San Diego, CA, February 10-11, 2014
23. **Caplan J**, Kaminsky I, Gailloud P, Huang J. “A Single Burrhole Craniectomy for the Direct Cannulation of the Transverse Sinus for the Treatment of a Dural Arteriovenous Fistula.” AANS/CNS Joint Cerebrovascular Section Annual Meeting/Society of Neurointerventional Surgery International Endovascular Stroke Conference, San Diego, CA, February 10-11, 2014
24. **Caplan J**, Sankey E, Yang W, Colby G, Coon A, Tamargo R, Huang J. “Indocyanine Green Videoangiography Does Not Decrease the Rate of Clip Adjustments following Intraoperative Angiography.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014
25. Yang W, **Caplan J**, Shang H, Wang J, Braileanu M, Colby G, Coon A, Tamargo R, Huang J. “Predictors of Functional Outcome following Treatment of Posterior Fossa Arteriovenous Malformations.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014
26. Patel M, **Caplan J**, Yang W, Colby G, Coon A, Tamargo R, Huang J. “Arterial Fenestrations and their Association with Cerebral Aneurysms: A Comprehensive Review.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014

27. Braileanu M, Yang W, **Caplan J**, Lin L, Radvany M, Nwaba A, Wang J, Colby G, Coon A, Tamargo R, Huang J. “Quantification of Arteriovenous Malformation Diffuseness on Digital Subtraction Angiography Using a Vessel Density Based Computational Approach.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014
28. Theodros D, **Caplan J**, Yang W, Huang J. “Dysplastic Vessels Following Resection of Arteriovenous Malformations: A Case Report.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014
29. Sarkiss C, Soleymani T, **Caplan J**, Dorsi M, Huang J. “Intracerebral abscess with dissecting pneumocephalus caused by a gas-producing gram-positive rod following craniotomy for glioblastoma multiforme resection.” American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 5-9, 2014
30. **Caplan JM**, Huang J, Tamargo RJ, Radvany MG. Retrograde Stent-Assisted Coil Embolization of Posterior Communicating Artery Aneurysms. Society of Neurointerventional Surgery Annual Meeting, Colorado Springs, CA, July 28-31, 2014
31. McCracken DJ, Lovasik BP, Turan N, **Caplan JM**, McCracken CE, Cawley CM, Barrow DL, Dion JE, Tamargo RJ, Nogueira RG, Pradilla G. Resolution of Oculomotor Nerve Palsy Secondary to Ruptured Posterior Communicating Artery Aneurysm: Comparison Between Clipping and Coiling. American Academy of Neurological Surgery Annual Meeting, Santa Rosa Beach, FL, September 17-20, 2014 (Oral Presentation)
32. Yang W, Shang H, **Caplan J**, Wang J, Braileanu M, Hung A, Patel V, Colby G, Coon A, Tamargo RJ, Huang J. Arteriovenous Malformations of the Posterior Circulation. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014. (Oral Presentation)
33. **Caplan JM**, Yang W, Colby GP, Coon AL, Tamargo RJ, Huang J. Improved Early Visual Outcomes in Patients with Ophthalmic Region Aneurysms Undergoing Anterior Clinoidectomy using the SONOPET® Ultrasonic Aspirator Compared to the use of the High Speed Drill. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014. (Oral Poster in Neurosurgical Forum)
34. Braileanu M, Yang W, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Delayed Arteriovenous Malformation Hemorrhage Following Stereotactic Radiosurgery: Case Series. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014. (Oral Poster in Neurosurgical Forum)
35. Ruzevick J, **Caplan JM**, Yang W, Pradilla G, Colby GP, Coon AL, Huang J, Tamargo RJ. The contralateral approach reduces costs and length of stay associated with treating

- bilateral unruptured aneurysms of the anterior circulation. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014
36. Ruzevick J, **Caplan JM**, Yang W, Pradilla G, Colby GP, Coon AL, Huang J, Tamargo RJ. The contralateral approach is a safe alternative to a staged approach for treating bilateral anterior circulation aneurysms. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014
 37. McCracken DJ, Lovasik BP, Turan N., **Caplan JM**, McCracken CE, Cawley CM, Barrow DL, Dion JE, Tamargo RJ, Nogueira RG, Pradilla G. Resolution of Occulomotor Nerve Palsy Secondary to Ruptured Posterior Communicating Artery Aneurysm: Comparison Between Clipping and Coiling. Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 18-22, 2014. (Oral Poster in Neurosurgical Forum)
 38. Boone C, **Caplan JM**, Garzon-Muvdi T, Ye X, Groves M, Wuyang Y, Tamargo RJ, Ahn E, and Huang J. "Multiple Cerebral Arteriovenous Malformations in Pediatric Patients: Clinical Features and Hemorrhage Risk." AANS/CNS Joint Section on Pediatric Neurosurgery Annual Meeting, Amelia Island, FL, December 2-5, 2014. (Oral Presentation)
 39. Groves M, Garzon-Muvdi T, Hersh D, **Caplan J**, Ahn E, Jackson EM, Jallo GI. "Clinical Outcomes for 51 Pediatric Spinal Cord Tumors." AANS/CNS Joint Section on Pediatric Neurosurgery Annual Meeting, Amelia Island, FL, December 2-5, 2014.
 40. Yang W, Hung A, **Caplan JM**, Wang J, Braileanu M, Colby G, Coon A, Tamargo RJ, Huang J. Delayed Hemorrhage Following Treatment of Brain Arteriovenous Malformations (AVMs). AANS/CNS Joint Cerebrovascular Section Annual Meeting, Nashville, TN, February 9-10, 2015 (Oral Presentation)
 41. Murthy S, **Caplan J**, Hadar S, Ziai W, Levy A, Tamargo R, Nyquist P. Haptoglobin 2-2 Phenotype is Associated with Cerebral Salt Wasting Syndrome in Aneurysmal Subarachnoid Hemorrhage. International Stroke Conference, Nashville, TN, February 11-13, 2015 (Oral Presentation)
 42. McCracken DJ, Lovasik BP, Turan N., **Caplan JM**, McCracken CE, Cawley CM, Barrow DL, Dion JE, Tamargo RJ, Nogueira RG, Pradilla G. Resolution of Occulomotor Nerve Palsy Secondary to Ruptured Posterior Communicating Artery Aneurysm: Comparison Between Clipping and Coiling. North American Skull Base Society Annual Meeting, Tampa, FL, February 20-22, 2015. (Oral Presentation)
 43. Wang J, Smith R, Ye X, Yang W, **Caplan JM**, Radvany M, Colby G, Coon A, Tamargo RJ, Huang J. "Serial imaging surveillance for patients with history of intracranial

- aneurysms: risk of de novo aneurysm formation.” American Association of Neurological Surgeons Annual Meeting, Washington, DC, May 2-6, 2015 (Oral Presentation)
44. **Caplan JM**, Luksik A, Garzon-Mudvi T, Yang W, Sankey E, Kone L, Tamargo RJ. Cerebellar resection for the removal of large vestibular schwannomas does not increase the incidence of long-term cerebellar dysfunction. American Association of Neurological Surgeons Annual Meeting, Washington, DC, May 2-6, 2015
 45. Luksik A, **Caplan JM**, Garzon-Mudvi T, Yang W, Sankey E, Kone L, Tamargo RJ. Facial nerve electrophysiological stimulation at conclusion of tumor resection predicts short and long-term facial nerve function. American Association of Neurological Surgeons Annual Meeting, Washington, DC, May 2-6, 2015
 46. Colby G, Lin LM, **Caplan JM**, Jiang B, Huang J, Tamargo RJ, Coon AL. Initial procedural outcomes in 20 consecutive Pipeline FLEX cases: the first American series. Society of NeuroInterventional Surgery Annual Meeting, San Francisco, California, July 27-30, 2015
 47. Soo, J, Mittal R, **Caplan J**, Tamargo J. A semi-automated method for computational modeling of intracranial aneurysm hemodynamics. Computational Fluid Dynamics (CFD) in Medicine and Biology II, Albufeira, Portugal, August 30-September 4, 2015 (Oral Presentation)
 48. Yang W, Rong X, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Predictors of delayed ischemic events following carotid endarterectomy (CEA). Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 26-30, 2015
 49. Wei Z, Yang W, **Caplan JM**, Hung A, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Huang J. Long-term outcomes of patients with giant intracranial arteriovenous malformations. Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 26-30, 2015) (Oral Poster in Neurosurgical Forum)
 50. Hung A, Yang W, **Caplan JM**, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Huang J. Differences in functional outcomes across subtypes with Spetzler-Martin grade II arteriovenous malformations (AVM). Congress of Neurological Surgeons Annual Meeting, New Orleans, Louisiana, September 26-30, 2015
 51. **Caplan JM**, Colby GP, Lin M, Jiang B, Yang W, Huang J, Tamargo RJ, Coon A. “Use of the Pipeline Embolization Device for Anterior Communicating Artery Region Aneurysms.” AANS/CNS Joint Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 15-16, 2016 (Oral Presentation)

52. Garzon-Muvdi T, Yang W, Rong X, **Caplan JM**, Ye X, Colby GP, Coon AL, Tamargo RJ, Huang J. “Restenosis after carotid endarterectomy: Insight into risk factors and modification of postoperative management.” AANS/CNS Joint Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 15-16, 2016 (Oral Presentation)
53. Yang W, Porras JL, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Ahn ES, Huang J. “Comparison of surgical and conservative management for moyamoya disease in a North American cohort.” AANS/CNS Joint Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 15-16, 2016
54. Porras JL, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Ahn ES, Huang J. “Concurrent moyamoya disease and type 1 neurofibromatosis- Is revascularization indicated?” AANS/CNS Joint Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 15-16, 2016
55. Yang W, Porras JL, Hung A, Garzon-Muvdi T, **Caplan JM**, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, Huang J. “Risk of hemorrhage in AVM patients over age 60.” AANS/CNS Joint Cerebrovascular Section Annual Meeting, Los Angeles, CA, February 15-16, 2016
56. Yang W, Rong X, Jiang B, Garzon-Muvdi T, **Caplan JM**, Colby G, Coon A, Tamargo RJ, Huang J. “Is carotid endarterectomy (CEA) safe for patients with concomitant carotid stenosis and intracranial aneurysms?” American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016
57. Porras J, Yang W, **Caplan JM**, Colby G, Coon A, Tamargo RJ, Ahn E, Huang J. “Mid-term follow-up in a North American cohort with Moyamoya disease.” American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016 (Oral Presentation)
58. Yang W, Anderson-Keightly H, Westbroek E, **Caplan JM**, Rong X, Hung A, Colby G, Coon A, Tamargo RJ, Huang J, Ahn E. “Long term hemorrhagic risk in pediatric arteriovenous malformation (AVM) patients.” American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016 (Oral Presentation)
59. Yang W, Westbroek E, Anderson-Keightly H, **Caplan JM**, Rong X, Huang A, Colby G, Coon A, Tamargo RJ, Ahn E, Huang J. “Male gender associated with post-treatment seizure risk of pediatric arteriovenous malformation (AVM) patients.” American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016
60. Hung A, Yang W, **Caplan JM**, Braileanus M, Wang J, Colby G, Coon A, Tamargo RJ, Huang J. “Higher risk of feeder aneurysm rupture on PICA fed posterior fossa AVMS.”

American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016

61. Rong X, Yang W, Garzon-Muvdi, **Caplan JM**, Lim M, Huang J. “Influence of insurance status on survival of adults with glioblastoma multiform (GBM): A population based study.” American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, April 30-May 4, 2016 (Oral Presentation)
62. Porras J, Yang W, Garzon-Muvdi T, Xu R, **Caplan JM**, Hung A, Braileanu M, Colby GP, Coon AL, Tamargo RJ, Huang J. “Comparisons of outcomes between radiosurgery and conservative management in patients with brainstem arteriovenous malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016 (Oral Poster in Neurosurgical Forum)
63. Braileanu M, Yang W, **Caplan JM**, Lin L, Radvany M, Tamargo RJ, Huang J. “Inter-observer agreement of arteriovenous malformation (AVM) diffuseness using digital subtraction angiography (DSA). Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016
64. Yang W, Braileanu M, Garzon-Muvdi T, Xu R, **Caplan JM**, Hung A, Porras JL, Colby GP, Coon AL, Tamargo RJ, Huang J. “Hemorrhagic risk of intracranial arteriovenous malformations (AVMs) treated with embolization as the single modality.” Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016 (Oral Poster in Neurosurgical Forum)
65. Yang W, Braileanu M, Garzon-Muvdi T, Xu R, **Caplan JM**, Hung A, Porras JL, Colby GP, Coon AL, Tamargo RJ, Huang J. Natural history of conservatively managed arteriovenous malformations (AVMs). Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016
66. Yang W, Porras JL, Xu R, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J, Ahn E. Effectiveness of surgical revascularization for stroke prevention in pediatric patients with sickle cell disease (SCD) and moyamoya syndrome (MMS). Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016 (Oral Presentation)
67. Garzon-Muvdi T, Yang W, Braileanu M, Porras JL, **Caplan JM**, Rong X, Huang J, Jallo G. Marital status associated with survival in patients with primary intramedullary spinal cord lymphoma. Congress of Neurological Surgeons Annual Meeting, San Diego, California, September 24-28, 2016
68. Khandelwal P, Otite F, **Caplan J**, Atchaneeyas K, Malik A, Yavagal D. Rate of endovascular therapy in octogenarian/nonagenarian acute ischemic stroke patients

- compared to younger patients. Society of Vascular and Interventional Neurology Annual Meeting, New York, New York, November 16-19, 2016
69. Hung A, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Intranidal Aneurysms Do Not Increase Risk of Rupture in Patients with Intracranial AVMs. AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX, February 20-21, 2017 (Oral Presentation)
 70. Hung A, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Prenidal Aneurysms and Hemorrhagic Risk of Intracranial Arteriovenous Malformations (AVMs). AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX, February 20-21, 2017 (Oral Presentation)
 71. Easwaran T, Yang W, Hung A, Porras JL, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Heterogeneity of Treatment Risk Profile in Patients with Low-Grade Arteriovenous Malformations (AVMs). AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX, February 20-21, 2017 (Oral Presentation)
 72. Yang W, Porras J, Philadelphia E, Law J, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Treatment Decision for Occipital AVMs to Achieve Hemorrhagic Control while Maximizing Visual Preservation- Our Experience and Review of the Literature. AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX, February 20-21, 2017
 73. Yang W, Xu T, Porras JL, Garzon-Muvdi T, **Caplan J**, Huang J. Impact of surgical resection and postoperative radiation on survival of patients with high-grade ventricular glioma- A population-based analysis using SEER database. American Association of Neurological Surgeons Annual Meeting, Los Angeles, California, April 22-26, 2017
 74. Hung A, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. No association between hemorrhage risk of brain arteriovenous malformation (AVM) and unrelated aneurysms. American Association of Neurological Surgeons Annual Meeting, Los Angeles, California, April 22-26, 2017
 75. Yang W, Porras JL, Hung AL, Garzon-Muvdi T, **Caplan JM**, Philadelphia E, Law J, Colby GP, Coon AL, Tamargo RJ, Huang J. Spontaneous obliteration of brain arteriovenous malformations. American Association of Neurological Surgeons Annual Meeting, Los Angeles, California, April 22-26, 2017
 76. Porras J, Yang W, Philadelphia E, Law J, Garzon-Muvdi T, **Caplan J**, Colby G, Coon A, Tamargo R, Huang J. Increased hemorrhage risk of arteriovenous malformations (AVMs) during pregnancy and puerperium: A case-crossover analysis in a North American cohort.

American Association of Neurological Surgeons Annual Meeting, Los Angeles, California, April 22-26, 2017

77. **Caplan J**, Snelling B, Khandelwal P, Sur S, Starke R, Yavagal D, Peterson E. Beyond Diagnostic Angiography: The Transradial Approach as First Line for Both Anterior and Posterior Circulation Interventions (Accepted to Society of NeuroInterventional Surgery Annual Meeting, Colorado Springs, CO, July 24-28, 2017) (Oral Poster)
78. Sur S, Snelling B, Khandelwal P, **Caplan J**, Starke R, Yavagal D, Peterson E. Adoption of the Transradial Approach for Cerebral Angiography: Learning Curve and Early Experience. (Accepted to Society of NeuroInterventional Surgery Annual Meeting, Colorado Springs, CO, July 24-28, 2017) (Oral Poster)
79. Snelling B, Haniff R, **Caplan J**, Sur S, Khandelwal P, Yavagal D, Starke R, Peterson E. Patient Access Site Preference in Cerebral Angiography. (Accepted to Society of NeuroInterventional Surgery Annual Meeting, Colorado Springs, CO, July 24-28, 2017)
80. Bender M, Colby GP, Li-Mei L, Beaty N, Jiang B, Campos J, **Caplan J**, Huang J, Tamargo RJ, Coon AL. Outcomes of Posterior Circulation Pipeline in 52 Cases at a Single Institution. (Accepted to Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017)
81. **Caplan JM**, Yang W, Garzon-Muvdi T, Colby GP, Coon AL, Tamargo RJ, Huang J. Rates of Re-hemorrhage, Risk Factors, and Outcomes of Previously Ruptured Arteriovenous Malformations (AVMs) (Accepted to Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017) (Oral Presentation)
82. Hung A, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Outcome Comparison for Single versus Multiple Radiosurgery for Brain Arteriovenous Malformation (AVM): A Propensity-Matched Cohort Analysis (Accepted to Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017) (Oral Presentation)
83. Hung A, Purvis T, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Risk of De Novo Aneurysm Formation in Patients before Obliteration of Brain Arteriovenous Malformations (AVMs) (Accepted to Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017) (Rapid Exchange Oral Presentation)
84. Luksik A, Law J, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. Risk of Hemorrhage Following Radiosurgery for Cerebral Arteriovenous Malformations (AVMs) Is Associated with Venous Stenosis. (Accepted to Congress of

Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017) (Rapid Exchange Oral Presentation)

85. Luksik A, Law J, Yang W, Garzon-Muvdi T, **Caplan JM**, Colby GP, Coon AL, Tamargo RJ, Huang J. The Role of Preoperative Embolization in Surgical Management of Brain Arteriovenous Malformations (AVMs) (Accepted to Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 7-11, 2017)

Invited Talks

Local

- 4/2005 Undergraduate Research Symposium, The Johns Hopkins University
“A Novel Model for Intramedullary Spinal Cord Tumors and Novel Approaches to their Treatment.”
- 7/2008 Neurosurgery Grand Rounds, Massachusetts General Hospital
“37 year old female with von Hippel-Lindau disease presenting with arm numbness.”
- 9/2008 Neurosurgery Grand Rounds, Brigham and Women’s Hospital
“An Experimental Model of Intramedullary Spinal Cord Tumors and its Applications.”
- 10/2008 Neurosurgery Grand Rounds, The Johns Hopkins Hospital
“Oncolytic Viral Therapy for the Treatment of Malignant Glioma.”
- 4/2010 Neurosurgery Grand Rounds, The Johns Hopkins Hospital
“Visual Complications Associated with Surgery of Ophthalmic Segment Aneurysms.”
- 4/2011 Neurosurgery Grand Rounds, The Johns Hopkins Hospital
“Brain Oxygen Monitoring in Traumatic Brain Injury: Review of the current guidelines.”
- 2/2012 Neurosurgery Grand Rounds, The Johns Hopkins Hospital.
“Mini-Pterional Craniotomy.”
- 1/2013 Neurosurgery Grand Rounds, The Johns Hopkins Hospital.
“Review of Updated Guidelines for the Management of Aneurysmal Subarachnoid Hemorrhage.”
- 5/2013 Neurosurgery Grand Rounds, The Johns Hopkins Hospital.
“Surgical Treatment of Moyamoya Arteriopathy in the Pediatric Population.”
- 10/2013 Neurointerventional Radiology Fellow Teaching Conference, The Johns Hopkins Hospital. “Intraventricular Catheters.”
- 6/2014 Brain Aneurysm Foundation Maryland Chapter Meeting, Invited Speaker. “Brain Aneurysm Foundation: Research and Lobbying Day Updates.”
- 8/2014 Neurosurgery Grant Rounds, The Johns Hopkins Hospital. “Johns Hopkins Experience with Advances in Cerebrovascular Neurosurgery.”
- 11/2014 PACU Nursing Education Seminar, Bayview Medical Center. “Management of Endovascular Neurosurgery Patients in the PACU.”

- 12/2014 Neurosurgery Grand Rounds, The Johns Hopkins Hospital. “Endovascular Management of Acute Ischemic Stroke.”
- 3/2015 Johns Hopkins University Pre-Medical Honor Society, Invited Panelist
- 6/2015 Neurosurgery Grand Rounds, The Johns Hopkins Hospital. “Advances in Cerebrovascular Disease: Becoming a “Dual-Trained” Vascular Neurosurgeon at Johns Hopkins.”
- 6/2015 Neurosurgery Advisory Board Semi-Annual Meeting, The Johns Hopkins Hospital “Advances in Cerebrovascular Neurosurgery at Johns Hopkins Hospital.”
- 12/2015 Neurosurgery Grand Rounds, The Johns Hopkins Hospital. “Spinal Arteriovenous Malformations.”
- 6/2016 Neurosurgery Grand Rounds, The Johns Hopkins Hospital. “Neurosurgery Residency.”

Regional

- 3/2014 Sixth Annual Neurocritical Care for the General and Surgical Intensivist, Tyson’s Corner, Virginia. “Surgical Management of Aneurysmal Subarachnoid Hemorrhage”
- 2/2015 Brain Aneurysm Foundation Symposium, Invited Panelist, Boston, Massachusetts

National

- 9/2014 Brain Aneurysm Foundation Annual Research Grant Symposium, Miami, Florida. “Haptoglobin phenotype and clinical outcomes in patients with intracranial cerebral aneurysms.”
- 10/2014 Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, Oral Presentation. “Arteriovenous Malformations of the Posterior Circulation.”
- 10/2014 Congress of Neurological Surgeons Annual Meeting, Boston, Massachusetts, Oral Poster. “Improved Early Visual Outcomes in Patients with Ophthalmic Region Aneurysms Undergoing Anterior Clinoidectomy using the Ultrasonic Aspirator Compared to the use of the High Speed Drill.”
- 2/2016 AANS/CNS Joint CV Section Annual Meeting, Los Angeles, California, Oral Presentation. “Use of the Pipeline Embolization Device for Anterior Communicating Artery Regional Aneurysms.”
- 5/2016 American Association of Neurological Surgeons Annual Meeting, Chicago, Illinois, Oral Presentation. “Mid-term follow-up in a North American cohort with Moyamoya disease.”

International

- 12/2015 Huashan-Tiantan International Conference, Shanghai, China. “Use of the pipeline embolization device for the treatment of anterior communicating artery region aneurysms.”