

CURRICULUM VITAE

Revised 8.19.2014

Name: Charles "Michael" Cawley, III, MD

Current Titles and Affiliations:

- a. Associate Professor
Emory University School of Medicine
 - 1. Primary Appointment:
Department of Neurosurgery (1998)
 - 2. Secondary Appointment:
Department of Radiology (2002)

Licensures/Boards:

1991 Diplomat, National Board of Medical Examiners
1998 Licensee, Georgia Composite State Board of Medical Examiners
2006 Fellow, American College of Surgeons

Specialty Boards:

American Board of Neurological Surgery 11/27/02, #22139

Education:

07/1986 B.A. (English Literature), Georgetown University
05/1990 M.D., University of Maryland School of Medicine
06/1991 Surgical Internship, Emory University School of Medicine
06/1997 Neurosurgical Residency, Emory University School of Medicine

Postgraduate Training:

07/1998 Cerebrovascular Clinical Fellow in Neurosurgery
University of Florida College of Medicine
(Arthur L. Day, MD)

06/2002 Interventional Neuroradiology Fellow
Emory University School of Medicine
(Jacques E. Dion, MD)

Committee Memberships:

a. National and International:

Executive Committee, CNS, Ex-Officio, 2007-present
Chair, Program Coordination Committee, CNS, 2007-present
Executive Committee, CNS, Member-At-Large, 2005-2007
Chair, Medical Student Subcommittee, CNS, 2006-2007
Chair, Leadership Development Committee, CNS, 2004-2008
Ethics Committee, AANS, 2004-present
Executive Council, Joint CV Section, Member-At-Large, 2004-present
Brain Attack Coalition, 2003-present
NeuroVascular Coalition, 2003-present
Advisory Working Group on Comprehensive Stroke Centers, 2005-present
Executive Committee, CNS, ex-officio, 2003-2004
Annual Meeting Committee, CNS, 2001, 2002, 2003, 2005
Annual Meeting Committee, CVS, 2004, 2005
Program Director, CV Section, CNS, 2004
Program Director, CV Section, CNS, 2005
Sergeant-At-Arms Chair, CNS, 2000

Committee Memberships:

b. Regional and State:

Program Chair, Georgia Neurosurgical Society 1999-2000

Honors and Awards:

MBNA/Bowman Neurosurgical Resident Research Award, 1991
Alpha Omega Honor Medical Society, 1990
Magna Cum Laude, University of Maryland, 1990
Surgical Excellence Award (UM), 1990
Theodore E. Woodward Prize in Physical Diagnosis (UM), 1990
Dean's List, Georgetown University, 1986

Professional Society Memberships:

American Association of Neurological Surgeons (AANS)
American Medical Association
American Society of Neuroradiology
Society for Neurointerventional Surgery (SNIS) (nee ASITN)

American College of Surgeons
Congress of Neurological Surgeons (CNS)
Georgia Medical Association
Georgia Neurosurgical Society
AANS/CNS Cerebrovascular Section (CV Section)
Southern Neurosurgical Society

Research Focus:

Treatment of Cerebrovascular Disorders by both surgical and endovascular means.

Clinical Service Contributions:

MBNA Stroke Center
Sponsorship of Neurosurgical Endovascular Fellowship
Primary Stroke Center working group
Comprehensive Stroke Center working group

Formal Teaching:

Neurosurgery weekly Grand Rounds and monthly M&M
Neurology and Radiology Grand Rounds
Neurosurgery Case Conference
Neurosurgery Journal Club
Weekly Stroke Conference
Annual Neurotrauma lecture, Emory University School of Medicine
Neuropathology module

Supervisory Teaching:

Training of two neuro-endovascular fellows and six diagnostic neuroradiology fellows each year in operative and endovascular techniques
Training of neurosurgical residents in operative and endovascular techniques
Training of Nurse Practitioners in the Neuro-intensive NP Program

Lectureships, Seminar Invitations and Visiting Professorships:

1. "Management of Cavernous and Paraclinoidal Vascular Lesions": Luncheon seminar, Faculty. Annual meeting, Congress of Neurological Surgeons, San Diego, CA, September, 2001.

2. "Optimizing Multimodality Management of AVMs": Luncheon seminar, Faculty. Annual meeting, Congress of Neurological Surgeons, Philadelphia, PA, September, 2002.
3. Scientific Program, General Scientific Session IV: Integration: The Art and Controversies of Neurosurgical Practice. Moderator. Annual meeting, Congress of Neurological Surgeons, Denver, CO, October, 2003.
4. "Endovascular Management of Intracranial Aneurysms: Indications, Techniques and Results": Luncheon seminar, Faculty. Annual meeting, Congress of Neurological Surgeons, Denver, CO, October, 2003.
5. Scientific Program, Section on Cerebrovascular Surgery I. Moderator. Annual meeting, Congress of Neurological Surgeons, Denver, CO, October, 2003.
6. Oral Presentation Session. Moderator. Annual Meeting AANS/CNS Cerebrovascular Section and the American Society of Interventional and Therapeutic Neuroradiology, San Diego, CA, February, 2004.

Lectureships, Seminar Invitations and Visiting Professorships (Cont'd):

7. "Surgical and Endovascular Cerebral Revascularization". Panelist. Annual meeting, AANS/CNS Cerebrovascular Section and the American Society of Interventional and Therapeutic Neuroradiology, San Diego, CA, February, 2004
8. "Endovascular Treatment of Aneurysms": Director, Practical Course. Annual Meeting Congress of Neurological Surgeons, San Francisco, CA, October, 2004.
9. "Neurosurgery and the Stroke Center". Section on Cerebrovascular Surgery I. Moderator. Annual meeting Congress of Neurological Surgeons, San Francisco, CA, October, 2004.
10. "Carotid Disease: Surgical and Endovascular Management": Luncheon seminar, Faculty. Annual meeting, Congress of Neurological Surgeons, San Francisco, CA, October, 2004.
11. "Early Experience with the PIPELINE Embolization Device". The Society of University Neurosurgeons, Annual Meeting, Atlanta, GA, March 2012
12. "The Emory Cerebrovascular Program". The Society of Neurological Surgeons, Annual Meeting, Atlanta, GA, May 2012.

Other Activities

Selected Presentations:

1. Cawley CM, Dawson RC, Shengelaia GG, Barrow DL: The Emory experience with endovascular occlusion of saccular intracranial aneurysms. Oral presentation. Georgia Neurosurgical Society, Sea Island, GA, May 1996.

2. Dawson RC, Cawley CM, Shengelaia GG, Bonner GD, Barrow DL, Colohan AR: A true arterial saccular aneurysm model in the rabbit. Oral presentation. American Society of Neuroradiology, Seattle, WA, June 1996.
3. Alleyne CH, Cawley CM, Barrow DL, Poff BC, Sawhney AS: Efficacy and biocompatibility of a photopolymerized, synthetic, absorbable hydrogel as a dural sealant in a canine craniotomy model. Poster, American Association of Neurological Surgeons, Denver, CO, April 1997.
4. Alleyne CH, Cawley CM, Barrow DL, Bonner GD: Microsurgical anatomy of the dorsal cervical nerve roots. Poster. American Association of Neurological Surgeons, Denver, CO, April 1997.
5. Cawley CM, Dawson RC, Owens DS, Joseph GJ, Shengelaia GG, Abruzzo T, Barrow DL: Characterization of cerebral vasospasm in a canine model of subarachnoid hemorrhage produced by a single injection in the Cisterna Magna. Poster. American Society of Neuroradiology, Toronto, Ontario, Canada, May 1997.
6. Cawley CM, Day AL: The surgical treatment of third ventricular arteriovenous malformations. Oral presentation. Neurosurgery at Jackson Hole, Jackson Hole, WY, March 1998.
7. Alleyne CH, Cawley CM, Shengelaia GH, Barrow DL: Microsurgical anatomy of the artery of Adamkiewicz and its segmental artery. Oral poster. Congress of Neurological Surgeons, Seattle, WA, October 1998.
8. Cawley CM, Barrow DL: Dural arteriovenous malformations. Seminar moderator. Joint Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Radiology, Nashville, TN, February 1999.
9. Cawley CM, Barrow DL, Joseph G, Dion JE: Combined treatment of tentorial dural arteriovenous malformations. Oral presentation. Joint Section on Cerebrovascular Surgery and American Society of Interventional and Therapeutic Radiology, Nashville, TN, February 1999.
10. Cawley CM, Barrow DL: Intraoperative angiography in modern aneurysm surgery. Oral presentation. Georgia Neurosurgical Society, Sea Island, GA, May 1999.

Selected Presentations (Cont'd):

11. Barrow DL, Cawley CM, Dion JE, Joseph G, Cloft H: Surgical clip ligation of intracranial aneurysms previously treated by endovascular coiling. Oral presentation. Georgia Neurosurgical Society, Sea Island, GA, May 1999.

12. Cawley CM, Barrow DL: The utility of intraoperative angiography in a prospectively compiled series of 226 surgically treated intracranial aneurysms. Oral poster. Congress of Neurological Surgeons, Boston, MA, October 1999.
13. Tang G, Cawley CM, Barrow DL: Prospective evaluation of intraoperative angiography for aneurysm surgery. Oral presentation. Joint Section of Cerebrovascular Surgery, New Orleans, LA, February 2000.
14. Tang G, Cawley CM, Barrow DL: Selective cerebral revascularization for the treatment of large and giant aneurysms. Oral presentation. Georgia Neurosurgical Society, Sea Island, GA, May 2000.
15. Tang G, Cawley CM, Barrow DL: Intraoperative angiography for aneurysm surgery. Oral presentation. Annual Meeting of the Congress of Neurological Surgeons, San Antonio, TX, September 2000.
16. Cawley CM, Barrow DL: Cerebral aneurysm surgery: Complication avoidance and management. Seminar presentation. Annual Meeting of the Congress of Neurological Surgeons, San Antonio, TX, September 2000.
17. Tang G, Cawley CM, Barrow DL: Clip revision strategies: Categorization and angiographic evaluation. Oral presentation. Joint Section of Cerebrovascular Surgery, Big Island, HI, February 2001.
18. Tomak PR, Kaga A, Cawley CM, Dion JE, Barrow DL: Evolution in the management of tentorial dural arteriovenous malformations. Oral presentation. Joint Section of Cerebrovascular Surgery, Big Island, HI, February 2001.
19. Tang G, Cawley CM, Barrow, DL: Selective revascularization in the treatment of large and giant aneurysms. Oral presentation. Joint Section of Cerebrovascular Surgery, Big Island, HI, February 2001.
20. Cawley CM, Barrow DL: Intracranial Aneurysms: Advanced Clipping Techniques. Seminar moderator. Annual Meeting of the American Association of Neurological Surgeons, Toronto. Canada, April 2001.
21. Tang G, Handley E, Cawley CM, Barrow DL: Intraoperative Angiography During Surgery for Arteriovenous Malformations. Oral presentation. Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA, September 2001.
22. Zhang YJ, Cawley CM, Dion JE, Barrow, DL: Surgical Management of Intracranial Aneurysms Previously Treated by Endovascular Therapy. Open Paper. Annual Meeting Congress of Neurological Surgeons, San Diego, CA, September 2001.

Selected Presentations (Cont'd):

23. Tang G, McInerney J, Cawley CM, Harbraugh RE, Barrow DL: Cost-effectiveness of Routine Intraoperative Angiography during Aneurysm Surgery.

- Oral presentation. Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA, September 2001.
24. Abruzzo T, Tong FC, Workman MJ, Cawley CM, Samuels OB, Dion JE, Cloft HJ: Endovascular stenting of basilar artery stenoses: Technical successes does not correlate with clinical outcome. Oral presentation. Annual Meeting of the American Society of Neuroradiology, Vancouver, BC, May 2002.
 25. Zhang YJ, Narayan P, Barrow DL, Haid RW, Rodts GE, Oyesiku NM, Cawley CM: Surgical Treatment of Spinal Cavernous Malformation. Oral Poster. Annual meeting Congress of Neurological Surgeons, Philadelphia, PA, September, 2002.
 26. Cawley CM: Update on the Brain Attack Coalition. Annual meeting, Congress of Neurological Surgeons, Denver, CO, September, 2003.
 27. Cawley CM, Barrow DL: Cortical Arteriovenous Malformations. Invited Lecture. Southern Neurosurgical Society, March, 2004.
 28. Tong FC, Abruzzo TA, Cawley CM, Dion JE; Hemorrhagic Foreign Body Granulomas Following Stent-Assisted Aneurysm Embolization. Oral presentation. Annual Meeting American Society of Neuroradiology, Seattle WA, June, 2004.
 29. Tong FC, Cawley CM, Abruzzo TA, Dion JE; Endovascular Retrieval of Errant Platinum Coils during Treatment of Cerebral Aneurysms Using a Foreign Body Retrieval Device. Oral presentation. Annual Meeting American Society of Neuroradiology, Seattle, WA, June 2004.
 30. "Carotid Disease: Surgical and Endovascular". Oral presentation. Annual meeting Congress of Neurological Surgeons, San Diego, CA, October, 2004
 31. Zhang YJ, Tanaka T, Barrow DL, Cawley CM, Samuels OB, Dion JE, Tong FC. "Poor Outcomes in Patients with Angiographically Negative Subarachnoid Hemorrhage." Oral Presentation. Annual Meeting AANS/CNS Cerebrovascular Section and the American Society of Interventional and Therapeutic Neuroradiology, Orlando, FL, February 2006.
 32. Karolyi DR, Oshinski JN, Giddens DP, Dion J , Cawley CM, Tong F: Effects of the Internal Carotid Artery Terminus Bifurcation on Posterior Communicating Artery Aneurysms. Presented at the ASNR Meeting, New Orleans, LA , June 2008.

Selected Presentations (Cont'd):

33. Tsappidi SK, Wright WL, Cawley, CM: Comparison of Cerebral Vasospasm Evaluation in an Aneurysmal SAH patient with CT Angiography, Conventional Angiography and a Laser-Doppler based Intracranial Cerebral Blood Flow

Monitor. Poster presentation at the 2nd annual meeting of the Society of Vascular and Interventional Neurology Annual Meeting, Miami, FL, October 2008.

34. Narayanan S, Tong FC, Cawley CM, Dion JE: Onyx[®]-34 embolization of left parieto-occipital artery mycotic aneurysm: technical case report. Poster presentation at the 2nd annual meeting of the Society of Vascular and Interventional Neurology, Miami, FL, October 2008.
35. Tsappidi S, Wright WL, Samuels OB, Cawley CM, Dion JE, Barrow DL: Early vasospasm detection following aneurysmal subarachnoid hemorrhage – A novel multimodality strategy incorporating intracranial Neurosensor and Licox monitors along with Transcranial dopplers and Neuroimaging techniques. 61st American Academy of Neurology Annual Meeting, the Washington State Convention and Trade Center in Seattle, WA, April 25 through May 2, 2009.
36. Chhabra V, Patel D, Tong FC, Cawley CM, Dion JE, Barrow DL: Surgical Retreatment of Ruptured Intracranial Aneurysms Previously Coiled at a North American High-Volume Neurovascular Center: Angiographic Characterization and Collaborative Management. Poster presentation at the ASNR 48th Annual Meeting & NER Foundation Symposium 2010, Hynes convention Center, Boston MA, May 15 – 20, 2010.
37. Nahab F, Kingston C, Frankel MR, Dion JE, Cawley CM, Mitchell B, Tong FC: Early Aggressive Risk Factor Management for Patients with Symptomatic Intracranial Stenosis. Oral presentation at the International Conference, 2011, Los Angeles Convention Center, Los Angeles, CA, February 9-11, 2011.

Bibliography:

1. Cawley CM, Rigamonti D, Trommer B. Dental chair apoplexy. *Southern Medical Journal*. 1991 Jul;84(7):907-9.
2. Didolkar MS, Cawley CM. Use of an instrument-holding clip for deeply recessed anastomoses of the rectum and esophagus. *Journal of Surgical Oncology*. 1992 Apr;49(4):245-8.
3. Tindall GT, Cawley CM. Pituitary tumors: recent advances in diagnosis and predicting surgical outcome. *Critical Reviews in Neurosurgery*. 1994;4.
4. Tindall GT, Cawley CM: Transsphenoidal surgery. In: Smith I, Lubin M, Walker HK, (eds), *Medical Management of the Surgical Patient*. Philadelphia: JB Lippincott & Co., 1995.
5. Cawley CM, Tindall GT. Pituitary tumors: refinement of therapeutic options and biomolecular mechanisms. *Critical Reviews in Neurosurgery*. 1995;5.
6. Cawley CM, Barrow DL, Newman NJ. The surgical management of orbital tumors. *Contemporary Neurosurgery*. 1995;17(5).

7. Barrow DL, Cawley CM: The clinical manifestations of giant aneurysms. In: Awad IA and Barrow DL, (eds) *Giant Intracranial Aneurysms*. Park Ridge, IL: American Association of Neurological Surgeons, pp. 35-49, 1995.
8. Cawley CM, Tindall GT: Pituitary and neighboring tumors. In: Hurst JW (ed), *Medicine for the Practicing Physician*. Norwalk, CT: Appleton & Lange, pp. 540-44, 1996.
9. Cawley CM, Tindall GT. New techniques in managing difficult sellar pathology through modifications of the traditional transsphenoidal approach. *Critical Reviews in Neurosurgery*. 1996;6.
10. Cawley CM, Dawson RC, Shengelaia G, Bonner G, Barrow DL, Colohan AR. Arterial saccular aneurysm model in the rabbit. *AJNR American Journal of Neuroradiology*. 1996 Oct;17(9):1761-6.
11. Barrow DL, Cawley CM: Surgical Techniques for Lobar Arteriovenous Malformations: Frontal, Temporal, Parietal, Occipital. In: Batjer HH (ed), *Cerebrovascular Disease*. New York: Lippincott-Raven, pp. 765-87, 1996.
12. Cawley CM, Barrow DL: Cavernous sinus dural arteriovenous malformations. In: Awad IA (ed), *Techniques in Neurosurgery*. 2(1)41-52 New York: Raven Press, 1997.
13. Cawley CM, Barrow DL: Intradural Perimedullary Spinal Cord AVMS. In: Awad IA, Barrow DL (eds), *Arteriovenous Malformations*. Park Ridge, IL: AANS Publishers, 1997.

Bibliography (Cont'd):

14. Barrow DL, Cawley CM: Therapeutic carotid occlusion: Indications and complications. *Clinical Neurosurgery*. 1998; 44.
15. Alleyne CH, Cawley CM, Barrow DL, Poff BC, Powell MD, Sawhney AS, Dillehay DL. Efficacy and biocompatibility of a photopolymerized, synthetic, absorbable hydrogel as a dural sealant in a canine craniotomy model. *Journal of Neurosurgery*. 1998 Feb; 88(2):308-13.
16. Abruzzo T, Shengelaia GG, Dawson RC, Owens DS, Cawley CM, Gravanis MB. Histological and morphologic comparison of experimental aneurysms with human intracranial aneurysms. *AJNR American Journal of Neuroradiology*. 1998 Aug;19(7):1309-14.
17. Alleyne CH, Cawley CM, Barrow DL, Bonner GD. Microsurgical anatomy of the dorsal cervical nerve roots and cervical dorsal root ganglion/ventral root complexes. *Surgical Neurology*. 1998 Sep; 50(3):213-8.

18. Cawley CM, Zipfel GJ, Day AL: Surgical treatment of paraclinoid and ophthalmic aneurysms. *Neurosurgery Clinics of North America*. 1998 Oct;9(4):765-83.
19. Alleyne CH, Cawley CM, Shengelaia GS, Barrow DL. Microsurgical anatomy of the artery of Adamkiewicz and its segmental artery. *Journal of Neurosurgery*. 1998 Nov;89(5):791-5.
20. Day AL, Cawley CM. Stroke: The neurosurgeon's domain. *Clinical Neurosurgery*. 1999;45:140-5.
21. Cawley CM, Barrow DL: Perimedullary Arteriovenous Fistulas. In: Barrow DL, Awad IA (eds), *Spinal Cord Vascular Malformations*. Park Ridge, IL: American Association of Neurological Surgeons, pp. 147-60, 1999.
22. Barrow DL, Cawley CM: Therapeutic carotid occlusion: indications and potential complications. *Clinical Neurosurgery*. 46:392-409, 2000.
23. Barrow DL, Cawley CM. Extended skull base approaches for intracranial aneurysms. *Clinical Neurosurgery*. 47:139-177, 2000.
24. Barrow DL, Cawley CM: Therapeutic carotid occlusion: Indications and potential complications. *Clinical Neurosurgery* 47: 139-177, 2000.
25. Day AL, Masson RL, Knego RS, Cawley CM: Surgical Management of Aneurysms and Fistulas Involving the Cavernous Sinus. In: Schmidek HH, Sweet WH, (eds), *Operative Neurosurgical Techniques* (4th ed.), Philadelphia: WB Saunders, 2000.
26. Narayan P, Cawley CM, Barrow DL: Inflammatory Intracranial Aneurysms. In Rengachary SS, Maciunas RJ, Wilkins RH (eds), *Neurosurgery*, 3rd Edition, McGraw-Hill, Philadelphia, PA **(in press)**.
27. Tang G, Cawley CM, Dion JE, Barrow DL: Intraoperative angiography during aneurysm surgery: a prospective evaluation of efficacy. *J Neurosurg*, 96:993-999, 2002.
28. Barnes B, Cawley CM, Barrow DL.: Intracerebral hemorrhage secondary to vascular lesions. *Neurosurgery Clinics of North America*. 13(3):289-97, c, 2002 Jul.
29. Zhang YJ, Barrow DL, Cawley CM, Dion JE: Neurosurgical management of intracranial aneurysms previously treated with endovascular therapy. *Neurosurgery*. 52 (2):283-93; discussion 293-5, 2003 Feb.
30. Tomak PR, Cloft HJ, Kaga A, Cawley CM, Dion J, Barrow DL: Evolution of the management of tentorial dural arteriovenous malformations. *Neurosurgery*. 52(4):750-60; discussion 760-2, 2003 Apr.
31. Zhang YJ, Dion JE, Barrow DL, Cawley CM: Endovascular Therapy for Cavernous Sinus Vascular Lesions. *Techniques in Neurosurgery*, 8(4): Philadelphia, PA, Lippincott, Williams & Wilkins, 238-250, December 2003.

32. Cawley CM, Dion JE, Oyesiku NM, Barrow DL,: Combined Treatment: The Team Approach. In, Stieg P, Batjer HH, Samson D (eds). *Intracranial Arteriovenous Malformations*. **(in press)** (projected release date 10/04/06).
33. Cawley CM, Barrow DL, Dion JE: Treatment of Lateral-Sigmoid and Sagittal Sinus Dural Arteriovenous Malformations. In, Winn R (ed), *Youmans Neurological Surgery, 5th edition*, W.B. Saunders, Philadelphia, 2283-2291, 2004.
34. Barrow DL, Cawley CM: Surgical management of complex intracranial aneurysms. *Neurology India*. 52(2): 156-62, 2004 Jun.
35. Cawley CM: Update on the brain attack coalition. *Clin Neurosurg*. 2004;51:275-6.
36. Connors JJ , SacksD, Furlan AJ, Selman WR, Russell EJ, Stieg PE, Hadley MN, Wojak JC, Koroshetz WJ, Heros RC, Strother CM, Duckwiler GR, Durham JD, Tomsick TO, Rosenwasser RH, McDougall CG, Haughton VM, Derdeyn CP, Wechsler LR, Hudgins PA, Alberts MJ, Raabe RD, Gomez CR, Cawley CM, Krol KL, Futrell N, Hauser RA, Frank JI, American Academy of Neurology, American Association of Neurological Surgeons, American Society of Interventional and Therapeutic Neuroradiology, American Society of Neuroradiology, Congress of Neurological Surgeons, AANS/CNS Cerebrovascular Section, Society of Interventional Radiology, NeuroVascular Coalition Writing Group: Training Competency, and credentialing standards for diagnostic cervicocerebral angiography, carotid stenting, and cerebrovascular intervention: a joint statement from the American Academy of Neurology, the American Association of Neurological Surgeons, the American Society of Interventional and Therapeutic Neuroradiology, the American Society of Neuroradiology, the Congress of Neurological Surgeons, the AANS/CNS Cerebrovascular Section, and the Society of Interventional Radiology. *Neurology*. 64(2): 190-8, 2005 Jan 25.
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38. Tumialan LM, Cawley CM, Barrow DL: Arachnoid cyst with associated arachnoiditis developing after subarachnoid hemorrhage. *J. Neurosurg* . / Volume 103 / 1088-1091; 2005 Dec.
39. Tumialan L, Zhang YJ, Samuels OB, Cawley CM, Dion JE, Tong FC, Barrow DL. Intracranial Hemorrhage Associated with Ventricular Catheterization in the Setting of Stent-assisted Coil Embolization of Cerebral Aneurysms. *J Neurosurg*. 2008 Jun;108(6):1122-9.

40. Zhang YJ, Tanaka T, Barrow DL, Cawley CM, Samuels OB, Dion JE, Tong FC. Poor Outcomes in Patients with Angiographically Negative Subarachnoid Hemorrhage. *Journal of Neurosurgery* (in Review).
41. Zhang YJ, Barrow DL, Cawley CM, Dion JE. Surgical Management of Intracranial Dural Arteriovenous Fistulas. In, Lawton MT, ed. *Controversies in Neurological Surgery*. New York, NY: Thieme; 2006.
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43. Cawley CM, Dion JE, Oyesiku NM, Barrow DL: Combined Treatment: The Team Approach. In, Stieg P, Batjer HH, Samson D (eds). *Intracranial Arteriovenous Malformations*. October, 2006.
44. Altman DA, Hui FK, Tumialán, Cawley CM: Subintimal Hemorrhage in an Unruptured Superior Cerebellar Artery Aneurysm: Prelude to Rupture: Case Report. *Neurosurgery* 63(2), 368-369, 2008.
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47. Schuette AJ, Cawley CM, Barrow DL: Microsurgical Clip Ligation for Intracranial Aneurysms. *Contemporary Neurosurgery*, Vol. 31 (19), 2009.
48. Gunnarsson T, Tong FC, Klurfan P, Cawley CM, Dion JE: Angiographic and Clinical Outcomes in 200 Consecutive Patients with Cerebral Aneurysm Treated with Hydrogel-Coated Coils. *American Journal of Neuroradiology*, Vol 30: 1657-64, 2009.
49. Mason AM, Cawley CM, Barrow DL: Surgical management of intracranial aneurysms in the endovascular era : review article. *J Korean Neurosurg Soc*. 2009 Mar;45(3):133-42.
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51. Schuette AJ, Cawley CM, Barrow DL: Indocyanine green videoangiography in the management of dural arteriovenous fistulae. *Neurosurgery*. 2010 Sep;67(3):658-62.

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