
Curriculum Vitae
Mohamed Samy Elhammady, M.D.
February 2, 2014

Personal Data

Work Address: Department of Neurological Surgery, University of Miami,
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Current Academic Rank

Primary Appointment:

- Assistant Professor of Neurological Surgery
Director of Minimally Invasive Cranial Neurosurgery
Co-Director of Skull Base and Cerebrovascular Surgery
Co-Director of Neuroendovascular Surgery
Co-Director of Neuroendovascular Fellowship
Department of Neurological Surgery
University of Miami/Jackson Memorial Hospital
Miami, Florida, USA

Secondary or Joint Appointments:

- Assistant Professor of Radiology
Department of Radiology
University of Miami/Jackson Memorial Hospital
Miami, Florida, USA
- Assistant Professor of Otolaryngology
Department of Otolaryngology
University of Miami/Jackson Memorial Hospital
Miami, Florida, USA

Hospital Appointments

9/2011-present Jackson Memorial Hospital

9/2011-present University of Miami Hospital

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9/2011-present University of Miami Clinics / Sylvester Cancer Center

Education and Postgraduate Training

1/2013-6/2013 Clinical Fellow in Minimally Invasive Neurosurgery,
Prince of Wales Hospital, Sydney, Australia

7/2011-9/2011 Clinical Fellow in Cerebrovascular & Skull Base Surgery
Department of Neurological Surgery, University of Miami,
Miami, Florida, USA

7/2010-6/2011 Chief Resident, Department of Neurological Surgery,
University of Miami, Miami, Florida, USA

7/2006-6/2010 Resident, Department of Neurological Surgery, University
of Miami, Miami, Florida, USA

7/2007-6/2008 Clinical Fellow in Neuroendovascular surgery,
7/2009-6/2010 Department of Neurological Surgery, University of Miami,
Miami, Florida, USA

7/2005-6/2006 Internship, Department of General Surgery, University of
Miami, Miami, Florida, USA

7/2003-6/2005 Neurosurgery pre-residency fellow, Department of
Neurological Surgery, University of Miami, Miami, Florida,
USA

12/2001-12/2002 Resident, Department of Neurological Surgery, University
of Mansoura, Mansoura, Egypt

3/2001-12/2001 General practitioner, Egyptian Ministry of Health, Damietta,
Egypt

3/2000-2/2001 Internship, University of Mansoura, Mansoura, Egypt

1993-2000 Faculty of Medicine, University of Mansoura, Mansoura,
Egypt

Licensure and Certification

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2013	Certification of Subspecialization Training in Minimally Invasive Neurosurgery, Prince of Wales Hospital, Sydney, Australia
2011	Certification of Subspecialization Training in Cerebrovascular and Skull Base Surgery, University of Miami/Jackson Memorial Hospital, Miami, Florida, USA
2011	Florida State Medical License (Active) State Medical Board of Florida License # ME110382
2010	Certification of Subspecialization Training in Neuroendovascular Surgery, University of Miami/Jackson Memorial Hospital, Miami, Florida, USA
2008	American Board of Neurological Surgery Written Examination
2003	Federation of State Medical Boards Examination, USMLE Step III
2003	United States Medical License Examination (USMLE), ECFMG Certificate (# 0-561-712-1)
2001	M.B., B.Ch in Medicine and Surgery, University of Mansoura, Mansoura, Egypt
2000	United States Medical License Examination, Step II
1996	United States Medical License Examination, Step I

Experience

Academic Appointments:

6/2012-present	Assistant Professor of Neurological Surgery Department of Neurological Surgery University of Miami Miami, Florida, USA
6/2012-present	Assistant Professor of Radiology Department of Radiology University of Miami

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Miami, Florida, USA

6/2012-present Assistant Professor of Otolaryngology
Department of Otolaryngology
University of Miami
Miami, Florida, USA

9/2011-5/2012 Instructor of Neurological Surgery
Department of Neurological Surgery
University of Miami
Miami, Florida, USA

Non-Academic Appointments:

9/2011 Attending, Department of Neurosurgery
Jackson Memorial Hospital
Miami, Florida, USA

9/2011 Attending, Department of Neurosurgery
Veterans Administration Medical Center
Miami, Florida, USA

Honors and Awards

2011 The Hubert L. Rosomoff Research Day Outstanding
Presentation Award, University of Miami, Florida, USA

2011 The Best Resident Teacher Award, University of Miami,
Florida, USA

2008 The Barth Green Scholarship Award, University of Miami,
Florida, USA

2008 Best anatomical dissection, Skull base course, University of
Florida, Gainesville, Florida

2001 Medical Honors Graduate, University of Mansoura, Egypt

Memberships

2011 North American Skull Base Society (NASBS)

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2008-2012	AANS Young Neurosurgeons Committee (YNC-Top Gun committee)
2006	Congress of Neurological Surgeons (CNS)
2006	American Association of Neurological Surgeons (AANS)
2001	Egyptian Association of Medical Doctors

Research Grants/Funding/Clinical Trials

1. A Phase 2 Randomized, Controlled Study with a Phase 1 Safety Cohort testing ALD-401 Derived from Autologous Bone Marrow Delivered via Intracarotid Infusion in Subjects with Ischemic Stroke using Blinded Assessments (IND 14,484). PI: Dileep Yavagal MD, Co-investigator.
2. IMS III: (Interventional Management of Stroke Trial Clinical Protocol): A Phase III, randomized, multi-center, open label, 900 subject clinical trial that will examine whether a combined intravenous (IV) and intra-arterial (IA) approach to recanalization is superior to standard IV rt-PA (Activase®) alone when initiated within three hours of acute ischemic stroke onset. March 2009 to present. Site investigator.
3. Pig Rete AVM Model for Intranidal Pressure Monitoring using Dimethyl Sulfoxide, EV3, \$50000, 2011. PI: Mohammed Ali Aziz-Sultan MD, Co-investigator.
4. Mouse intraocular Melphalan Therapy for Retinoblastoma, Bascom Palmer, 2011. PI: Mohammed Ali Aziz-Sultan MD, Timothy G. Murray MD, Co-investigator.
5. Rabbit Splenic AVM Model for Percutaneous embolization using Dimethyl Sulfoxide, EV3, \$26,000, 2007. PI: Mohammed Ali Aziz-Sultan MD, Co-investigator.
6. Mathematical Computation of Coil Compaction in a silicone aneurysm model, Codman, \$30,000, 2008. Mohammed Ali Aziz-Sultan MD, Co-investigator.
7. Photothrombosis in Elastase induced Rabbit Aneurysm Model NIH grant #NS045753-01A1 – 6/08 - 5/13 \$1,673,440 PI is Barry Lieber, Co-investigator.
8. Valor Medical LLC, 8/15/07 – 8/13/08: Cortical toxicity of a new liquid embolic agent \$24,727 PI is Barry Lieber, Co-Investigator.

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9. Traumatic brain injury biological marker study. PI: W. Dalton Dietrich, Ph.D., University of Miami, 2003-2005

Editorial Responsibilities

1. Assisted Dr. Roberto C. Heros, Editor for **Journal of Neurosurgery**, in reviewing articles and writing editorials.
2. Was a reviewer for the **Neurosurgery focus** supplement on Cranial Nerve Surgery.
3. Assisted Dr. Jacques J. Morcos in reviewing articles for **Neurosurgery**.
4. Reviewer for **Neurological Research**.

Oral Presentations

1. **Elhammady, MS.** *Management of Cerebral AVMs.* 12th Annual Caribbean Neurosciences Symposium. Montego Bay, Jamaica, January 30 – February 2, 2014.
2. **Elhammady, MS.** *Minimally Invasive Cranial Neurosurgery: Gimmick or Self-Evident,* 12th Annual Caribbean Neurosciences Symposium. Montego Bay, Jamaica, January 30 – February 2, 2014.
3. **Elhammady, MS.** *Extended Endonasal Endoscopic Approaches to the Clivus and Craniocervical junction.* International Endoscopic Sinonasal and Skull Base Anatomy and Surgical Technique Course. Palm Beach Gardens, Florida, January 17-19, 2014.
4. **Elhammady, MS.** *Extended Endonasal Endoscopic Approaches to the Clivus and Craniocervical junction.* 2013 All Florida Resident Endoscopic Sinonasal, Skull Base, and Orbital Surgical Anatomy Course. Palm Beach Gardens, Florida, August 24-25, 2013.
5. **Elhammady, MS.** *Minimally Invasive Cranial Neurosurgery.* Grand Rounds, Department of Neurosurgery, University of Miami, Florida, September, 26, 2013.
6. **Elhammady, MS.** *Management of Aneurysmal Subarachnoid Hemorrhage.* Grand rounds, Prince of Wales Private Hospital, Sydney, Australia, March 5, 2013.
7. **Elhammady MS,** Heros RC. *Anatomy and Radiology of the Supratentorial Veins.* 8th International Congress on Meningiomas and Cerebral Venous System & 3rd International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas on November 4-7, 2012.
8. Grace S, **Elhammady MS.** *A Series of Unfortunate Events.* Grand rounds, Department of Ophthalmology, University of Miami, Miami, Florida, October 25, 2012.

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9. Johnson JN, **Elhammady MS**, Aushor R, Kathiresan A, Yavagal D, Aziz-Sultan MA. *Endovascular Therapy for Acute Stroke in the Elderly: A Comparison of Outcomes in Patients Above and Below 80 Years*. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
10. Aziz-Sultan MA, **Elhammady MS**. *Approach to the Incidentally Found Unruptured Aneurysm*. Neurology Update and Stroke Intensive 2012. Miami, Florida, USA, Jan. 26-28, 2012.
11. Morcos JJ, **Elhammady MS**. Video presentation: *PICA-PICA bypass for VA-PICA aneurysm, and MCA-RAG-PCA bypass for PCA aneurysm, CCA-RAG-temporal M2 bypass for MCA aneurysm*. The 12th Annual hand-on course on microanastomosis and EC-IC bypass techniques, St. Louis Missouri, Jan. 19-22, 2012.
12. **Elhammady MS**, Heros, RC. *Intracranial Dural AV Fistulas. Open Microsurgical Treatment*. 13th AACNS (Asian Australasian Congress of Neurological Surgeons). Taipei, Taiwan, Dec. 1-4, 2011.
13. **Elhammady MS**. *Clinical Trials in Unruptured Aneurysms*. The 2nd Florida Aneurysm Workshop, Miami, Fl., Nov 18-19, 2011.
14. **Elhammady MS**. *Peculiarities in the Posterior communicating, Anterior Choroidal and ICA Bifurcation Aneurysms*. The 2nd Florida Aneurysm Workshop, Miami, Fl., Nov 18-19, 2011.
15. **Elhammady MS**, Heros, RC. *Cerebral Veins: To Sacrifice or Not to Sacrifice*. American Academy of Neurological Surgery, Scottsdale, AZ, Oct 20-22, 2011.
16. Heros RC, **Elhammady MS**. *“Surgical” intracranial dural arteriovenous fistulas*. American Academy of Neurological Surgery, Scottsdale, AZ, Oct 20-22, 2011.
17. Aziz-Sultan MA, **Elhammady MS**. *Head and Neck Tumor Embolization*. Neuroradiology grand rounds, Johns Hopkins, Baltimore, Maryland, September 2011.
18. **Elhammady MS**, Heros RC, Aziz-Sultan MA. *Clip versus Coil for Intracranial Aneurysms*. 14th Interim meeting of the WFNS, Pernambuco, Brazil, September 2011.
19. Morcos JJ, **Elhammady MS**. Video presentation: *STA-MCA bypass for ischemia, PICA-PICA bypass for VA-PICA aneurysm, and MCA-RAG-PCA bypass for PCA aneurysm*. 14th Interim meeting of the WFNS, Pernambuco, Brazil, September 2011.
20. Morcos JJ, **Elhammady MS**. Video presentation: *STA-MCA bypass for ischemia, PICA-PICA bypass for VA-PICA aneurysm, and MCA-RAG-PCA bypass for PCA aneurysm*. 4th International Cerebrovascular and Skull Base workshop. Ghent, Belgium, September 11, 2011.

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21. Morcos JJ, **Elhammady MS**. *Endoscopic Approach to Sellar and Suprasellar Lesions*. Sinus Endoscopy and Skull Base Course, West Palm Beach, Florida, February 2011.
22. **Elhammady MS**, Johnson JN, Peterson EC, Morcos JJ, Aziz-Sultan MA. *Preoperative embolization of Juvenile Nasopharyngeal Angiofibromas: Transarterial versus Direct Tumoral Puncture*. 21st Annual North American Skull Base Society Meeting, Scottsdale, AZ, Feb 18-20, 2011.
23. Heros RC, **Elhammady MS**, Aziz-Sultan MA. *Clip vs. Coil*. The International Neurosurgical Symposium, Malega, Spain, September 29, 2010.
24. Benglis DM, Covington D, Bhatia R, Bhatia S, **Elhammady MS**, Ragheb J, Morrison G, Sandberg DI. *Outcomes in Pediatric Patients with Chiari I Malformation Treated without Surgery*. The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
25. Morcos JJ, **Elhammady MS**. *Cavernous Sinus Surgery*. 4th Endoscopic world congress, Pittsburgh, April 2010.
26. Aziz-Sultan MA, Peterson E, **Elhammady MS**. *Vascular Tumor Embolization Using Onyx*. Society of University Neurosurgeons Annual Meeting, Miami, Florida, March 21-24, 2010.
27. Aziz-Sultan MA, Peterson E, **Elhammady MS**. *Embolization of Skull Base Tumors*. UM Department of Otolaryngology Grand Rounds. Miami, Florida, February 25, 2010.
28. Farhat H, **Elhammady MS**, Morcos JJ, Aziz-Sultan. MA. *Direct Percutaneous Preoperative Embolization of Carotid Body Tumors with Onyx*. North American Skull Base Society 20th annual meeting, New Orleans, October 16-18, 2009.
29. Morcos JJ, **Elhammady MS**. *Impact of Recent Clinical Trials on the Treatment of Intracranial Aneurysms*. Congress of Neurological Surgeons 2009 Annual meeting. New Orleans, Louisiana, October 24-29, 2009.
30. Heros RC, **Elhammady MS**, “*Spinal arteriovenous malformations*”, Grand rounds, Department of Neurological Surgery/Neurology, University of Miami, Miami, Florida, Oct 8, 2009.
31. **Elhammady MS**, Farhat F, Morcos JJ, Nakaji P, Aziz-Sultan MA. *Balloon-assisted clipping of a large paraclinoidal aneurysm: A salvage procedure*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.

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32. **Elhammady MS**, Wolfe SQ, Farhat H, Ramsey A, Lieber B, Aziz-Sultan MA. *Carotid Safety and Efficacy of Vascular Tumor Embolization Using Onyx*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
33. **Elhammady MS**, Wolfe SQ, Farhat H, Moftakhar R, Aziz-Sultan MA. *Onyx embolization of carotid cavernous fistulas*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
34. Farhat H, **Elhammady MS**, Levi AD, Green BA, Aziz-Sultan MA. *Cervical subarachnoid catheter placement for continuous cerebrospinal fluid drainage: A safe and efficacious alternative to the classic lumbar cistern drain*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
35. Moftakhar R, Wolfe SQ, **Elhammady MS**, Farhat H, Aziz-Sultan MA. *Endoscopic-assisted transnasal intra-tumoral embolization of juvenile nasopharyngeal angiofibroma with Onyx*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
36. Farhat H, Wolfe SQ, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. *Accelerated Onyx embolization for carotid artery aneurysms with adjunctive balloon test occlusion: Technical note and case series*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
37. Lieber BB, Aziz Sultan MA, Sadasivan C, Watson BD, Cesar L, Wolfe SQ, Trager AL, Farhat H, Moftakhar R, **Elhammady MS**. *A Novel Method for Excluding Cerebral Aneurysms from the Circulation: Preliminary Results in the Rabbit Elastase-Induced Aneurysm*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
38. Farhat H, **Elhammady MS**, Moftakhar R, Wolfe SQ, Aziz-Sultan MA. *Safety of Neuroendovascular Procedures in Children*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
39. Lieber BB, Aziz-Sultan MA, Sadasivan C, Watson BD, Cesar L, QuinteroWolfe S, Trager AL, Farhat H, Moftakhar R, **Elhammady MS**. *"A Novel Method for Excluding Aneurysms from the Cerebral Circulation: Preliminary Results in Rabbits"*, 2009 Summer Bioengineering Conference, Resort at Squaw Creek, Lake Tahoe, CA, June 17-21, 2009.
40. Farhat H, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. *Safety and Efficacy of Neuroendovascular Procedures in Children*. The American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.

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41. Farhat H, **Elhammady MS**, Morcos JJ, Aziz-Sultan MA. *Direct Percutaneous Embolization of Carotid Body Tumors Using Onyx*. The 19th Annual North American Skull Base Society meeting, Vancouver, Canada, September 2008.
42. Heros RC, **Elhammady MS**. *Would Drake Clip of Coil Today?* The Congress of Neurological Surgeons, Orlando, Florida, September 25, 2008.
43. **Elhammady MS**, Heros RC. *Would Drake clip or coil today?* Grand rounds. Department of Neurological Surgery, University of Miami, Miami, Florida, August 21, 2008.
44. **Elhammady MS**, Baskaya MK, Heros RC. *Early Elective Surgical Exploration of Spontaneous Intracerebral Hematomas of Unknown Etiology*. The 47th Annual meeting of the Korean Neurosurgical Society. Seoul, Korea, November 14-17, 2007.
45. **Elhammady MS**, “*Spinal arteriovenous malformations*”, Grand rounds, Department of Neurological Surgery, University of Miami, Miami, Florida, Oct 18, 2007.
46. **Elhammady MS**. “*Neurosurgical management of pain.*”, Grand rounds, Department of Neurological Surgery, University of Miami, Miami, Florida, May 21, 2007.
47. **Elhammady MS**, Manzano GR, Lebowhl N, Levi AD. *Metastatic Leiomyosarcoma Presenting in the Spine: Case Series and Review of the Literature*. The Sixth Hubert Rosomoff Research Day, Miami, Florida, June 10, 2006.
48. Elhammady MS, Baskaya MK, Heros RC. *Value of exploring angiographically negative spontaneous intraparenchymal hemorrhage in patients with no underlying medical etiology*. The Fifth Hubert Rosomoff Research Day, Miami, Florida, June 4, 2005.
49. **Elhammady MS**. “*The Medulla Oblongata*”, Grand rounds, Department of Neurological Surgery, University of Miami, Miami, Florida, May 26, 2005.

BIBLIOGRAPHY

Book Chapters

1. **Elhammady MS**, Hayes S, Heros RC. Cerebral Arteriovenous Malformations. In: Robert F. Spetzler, M. Yashar Kalani, and Peter Nakaji, *Neurovascular Surgery*, 2nd ed. Thieme publishing (in press)

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2. Aziz-Sultan MA, **Elhammady MS**, Heros RC. Surgical Approaches and Nuances for Supratentorial Arteriovenous Malformations. In: Robert F. Spetzler, Douglas Kondziolka, Randall Higashida, and M. Yasher S. Kalani, *Comprehensive Management of Arteriovenous Malformations of the Brain & Spine*, Cambridge University Press (in press)
3. **Elhammady MS**, Morcos JJ. Surgical Management of Vertebrobasilar Insufficiency. In: Robert F. Spetzler, M. Yashar Kalani, and Peter Nakaji, *Neurovascular Surgery*, 2nd ed. Thieme publishing (in press)
4. Ashour R, **Elhammady MS**, Aziz-Sultan MA. Carotid-cavernous Fistulas. In Jabour P. (eds), chp 15, *Neurovascular Surgical Techniques*. Thieme publishing
5. **Elhammady MS**, Ashour R, Aziz-Sultan MA: Embolization of Spinal Tumors. *Tumors of the Central Nervous System*. M.A. Hayat, Springer (in press)
6. **Elhammady MS**, Peterson EC, Heros RC. The Far Lateral Approach and Its Transcondylar and Supracondylar Extensions for Vertebrobasilar Aneurysms. *Schmidek & Sweet Operative Neurosurgical Techniques*, 6th ed. Philadelphia, Pa: WB Saunders Co. 2012. P. 951-958.
7. **Elhammady MS**, Morcos JJ. Occipital Artery to Posterior Inferior Cerebellar Artery Bypass. In: Saleem I. Abdulrauf *Cerebral Revascularization: Techniques in Extracranial-to-Intracranial Bypass Surgery*. Elsevier, Saunders, 2011. p. 99-111.
8. **Elhammady MS**, Heros RC: Middle Cerebral Artery Aneurysms: Pterional (Frontotemporal) Craniotomy for Clipping. In: Rahul Jandial, Paul C. McCormick, Peter M. Black, editor. *Core Techniques in Operative Neurosurgery*, Elsevier, Saunders, 2011. p. 153-160.
9. Wolfe SQ, **Elhammady MS**, Aziz-Sultan MA: Tumorigenic Diseases of the Spine. *Handbook of Neuroendovascular Surgery*. Boulos A and Deshaies E, eds. Thieme, New York, NY 2009.
10. **Elhammady MS**, Aziz-Sultan MA, Wolfe SQ: Vascular Diseases of the Spine. *Handbook of Neuroendovascular Surgery*. Boulos A and Deshaies E, eds. Thieme, New York, NY 2009.
11. **Elhammady MS**, Heros RC, Morcos JJ. Surgical Management of Asymptomatic Carotid Stenosis. *Stroke 5th edition*. J.P. Mohr, Choi D, Grotta JC, Wolf PA, 2011. p. 1403-1416.
12. **Elhammady MS**, Morcos JJ: Pericallosal artery aneurysms (Distal anterior cerebral artery aneurysms). Chapter 62, *Neurosurgery Tricks of the Trade*. Berta (in press)

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13. **Elhammady MS**, Heros RC. Spinal arteriovenous malformations. [translated into Spanish]

Manuscripts

1. **Elhammady MS**, Heros RC. Stereotactic radiosurgery for Spetzler-Martin Grade III arteriovenous malformations. (Editorial) *J Neurosurg* 31 Jan 2014. [Epub ahead of print]
2. Haussen DC, Ashour R, Johnson JN, **Elhammady MS**, Peterson EC, Cesar L, Bowie C, Aziz-Sultan MA. Direct continuous measurement of draining vein pressure during Onyx embolization in a swine arteriovenous malformation model. *J Neurointerv Surg*. 2014
3. Johnson J, Morcos J, Elhammady M, Pao CL, Aziz-Sultan MA. Renal cell carcinoma metastasis to the cerebellopontine cistern: intraoperative Onyx embolization via direct needle puncture. *J Neurointerv Surg*. 2013 Dec 20
4. Johnson JN, Elhammady M, Post J, Pasol J, Ebersole K, Aziz-Sultan MA. Optic pathway infarct after Onyx HD 500 aneurysm embolization: visual pathway ischemia from superior hypophyseal artery occlusion. *J Neurointerv Surg*. 2013 Dec 20
5. Johnson JN, **Elhammady M**, Post J, Pasol J, Ebersole K, Aziz-Sultan MA. Optic pathway infarct after Onyx HD 500 aneurysm embolization: visual pathway ischemia from superior hypophyseal artery occlusion. *BMJ Case Rep*. 2013 Dec 17;2013.
6. Johnson J, Morcos J, **Elhammady M**, Pao CL, Aziz-Sultan MA. Renal cell carcinoma metastasis to the cerebellopontine cistern: intraoperative Onyx embolization via direct needle puncture. *BMJ Case Rep*. 2013 Dec 17;2013
7. Gaynor BG, **Elhammady MS**, Jethanamest D, Angeli SI, Aziz-Sultan MA. Incidence of cranial nerve palsy after preoperative embolization of glomus jugulare tumors using Onyx. *J Neurosurg*. 2013 Dec 6. [Epub ahead of print]
8. **Elhammady MS**, Teo C. Surgical Management of Adult Intrinsic Brainstem Tumors. *Neurosurgery* 2013 Aug; 60 Suppl 1:131-8.
9. **Elhammady MS**, Aziz-Sultan MA, Heros RC. The Management of Cerebral Arteriovenous Malformations Associated with Aneurysms. *World Neurosurgery* 2013 Jun 18 [Epub ahead of print]

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10. **Elhammady MS**, Heros RC. Cerebral Veins: To Sacrifice or not to Sacrifice; that is the Question. *World Neurosurgery* 2013 Jun 18 [Epub ahead of print]
11. **Elhammady MS**, Heros RC. Asymptomatic Meningiomas (Editorial) *J Neurosurg* 2013 May 24. [Epub ahead of print]
12. **Elhammady MS**, Heros RC. Microarteriovenous Malformations. (Editorial) *J Neurosurg* 2013 May 10. [Epub ahead of print]
13. Hayes SB, Benveniste RJ, Morcos JJ, Aziz-Sultan MA, **Elhammady MS**. Retrospective Comparison of Craniotomy and Decompressive Craniectomy for patients undergoing surgical evacuation of nontraumatic, supratentorial intracerebral hemorrhage. *Neurosurg focus* 2013 May 34(5):E3
14. Shah AH, Patel N, Raper DMS, Bregy A, Ramsey A, **Elhammady MS**, Aziz-Sultan MA, Morcos JJ, Heros RC, Komotar RJ. The Role of Preoperative Embolization for Intracranial Meningiomas. *J Neurosurg* 2013 Apr 12. [Epub ahead of print]
15. Sadasivan C, Brownstein J, Patel B, Dholakia R, Santore J, Al-Mufti F, Puig E, Rakian A, Fernandez-Prada KD, **Elhammady MS**, Farhat H, Fiorella DJ, Woo HH, Aziz-Sultan MA, Lieber BB. In Vitro Quantification of the size distribution of Intrasaccular Voids Left After Endovascular Coiling of Cerebral Aneurysms. *Cardiovasc Eng Technol* 4:63-74, 2013
16. Ashour R, Aziz-Sultan MA, Soltanolkotabi M, Schoeneman SE, Alden TD, Hurley MC, Dipatri AJ, Tomita T, **Elhammady MS**, Shaibani A. Safety and efficacy of onyx embolization for pediatric cranial and spinal vascular lesions and tumors. *Neurosurgery* 71:773-784, 2012
17. **Elhammady MS**, Peterson EC, Johnson JN, Aziz-Sultan MA. Preoperative Onyx Embolization of Vascular Head and Neck Tumors by Direct Puncture. *World Neurosurgery* 77:725-730, 2012
18. **Elhammady MS**, Telischi FF, Morcos JJ. Retrosigmoid approach: indications, techniques, and results. *Otolaryngol Clin North Am* 45:375-397, 2012
19. **Elhammady MS**, Johnson JN, Peterson EC, Aziz-Sultan MA. Preoperative embolization of Juvenile Nasopharyngeal Angiofibromas: Transarterial versus Direct Tumoral Puncture. *World Neurosurgery* 76:328-334, 2011
20. **Elhammady MS**, Heros RC. Basilar Occlusion. (Editorial) *J Neurosurg* 115:316-318, 2011

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21. **Elhammady MS**, Heros RC. Onyx and Arteriovenous Malformations. (Editorial) *J Neurosurg* 115:75-76, 2011
22. Peterson EC, **Elhammady MS**, Wolfe SQ, Murray T, Aziz-Sultan MA. Selective Ophthalmic Artery Infusion of Chemotherapy for Advanced Intraocular Retinoblastoma: Initial Experience in 17 Tumors. *J Neurosurg* 114:1603-1608, 2011
23. Aziz-Sultan MA, Moftakhar R, Wolfe SQ, **Elhammady MS**, Herman B, Farhat H. Endoscopic-assisted percutaneous embolization of juvenile angiofibroma with Onyx. *J Neurosurg Pediatrics* 7:600-603, 2011
24. Benglis D, Covington D, Bhatia R, Bhatia S, **Elhammady MS**, Ragheb J, Morrison G, Sandberg DI. Outcomes in pediatric patients with Chiari malformation Type I followed up without surgery. *J Neurosurg Pediatr* 7:375-379, 2011
25. Farhat H, **Elhammady MS**, Levi AD, Aziz-Sultan MA. Cervical subarachnoid catheter placement for continuous cerebrospinal fluid drainage: A safe and efficacious alternative to the classic lumbar cistern drain. *Neurosurgery* 68:52-56, 2011
26. **Elhammady MS**, Peterson EC, Aziz-Sultan MA. Onyx embolization of a carotid cavernous fistula via direct transorbital puncture. *J Neurosurg* 114:129-32, 2011
27. **Elhammady MS**, Wolfe SQ, Farhat H, Aziz-Sultan MA, Heros RC. Carotid Artery Sacrifice for Large and Giant aneurysms: Endovascular Occlusion versus Common Carotid Artery Ligation. *Neurosurgery* 67:1431-1437, 2010
28. Farhat H, **Elhammady MS**, Aziz-Sultan MA. N-butyl-2-cyanoacrylate use in intra-operative ruptured aneurysms as a salvage rescue: case report. *Neurosurgery* 67:216-217, 2010
29. **Elhammady MS**, Farhat F, Morcos JJ, Nakaji P, Aziz-Sultan MA. Balloon-assisted clipping of a large paraclinoid aneurysm: A salvage procedure. *Neurosurgery* 65:E1210-E1211, 2009
30. Wolfe SQ, Farhat H, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. Transarterial embolization of a scalp hemangioma presenting with Kasabach-Merritt syndrome. *J Neurosurg Pediatr* 4:453-457, 2009
31. Wolfe SQ, Farhat H, Moftakhar R, **Elhammady MS**, Aziz-Sultan MA. Intra-aneurysmal balloon assistance for navigation across a wide neck aneurysm. *J Neurosurg* 112:1222-1226, 2010
32. **Elhammady MS**, Wolfe SQ, Farhat H, Ramsey A, Lieber B, Aziz-Sultan MA.

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Carotid Safety and Efficacy of Vascular Tumor Embolization Using Onyx: Is Angiographic Devascularization Sufficient? *J Neurosurg* 112:1039-1045, 2010

33. **Elhammady MS**, Wolfe SQ, Farhat H, Moftakhar R, Aziz-Sultan MA. Onyx embolization of carotid-cavernous fistulas. *J Neurosurg* 112:589-594, 2010
34. **Elhammady MS**, Farhat H, Aziz-Sultan MA, Morcos JJ. Isolated unilateral hypoglossal nerve palsy secondary to an atlantooccipital joint juxtafacet synovial cyst. *J Neurosurg Spine* 10:234-239, 2009
35. **Elhammady MS**, Farhat H, Ziayee H, Aziz-Sultan MA. Direct percutaneous embolization of a carotid body tumor with Onyx. *J Neurosurg* 110:124-127, 2009
36. Farhat HI, **Elhammady MS**, Ziayee H, Aziz-Sultan MA, Heros RC. Eagle syndrome as a cause of transient ischemic attacks. *J Neurosurg* 110:90-93, 2009
37. **Elhammady MS**, Başkaya MK, Heros RC. Early Elective Surgical Exploration of Spontaneous Intracerebral Hematomas of Unknown Etiology. *Journal of Neurosurgery* 109:1005-1011, 2008
38. Benglis DM, **Elhammady MS**, Levi AD, Vanni S. Minimally invasive anterolateral approaches for the treatment of back pain and adult degenerative deformity. *Neurosurgery* 63:supplement A191-A196, 2008
39. **Elhammady MS**, Benglis DM, Bhatia S, Sandberg DI, Ragheb J. Ventriculoatrial shunt catheter displacement in a child with partial anomalous pulmonary venous return. *J Neurosurg Pediatrics* 2:68-70, 2008
40. **Elhammady MS**, Başkaya MK, Sönmez OF, Morcos JJ. Persistent primitive hypoglossal artery with retrograde flow from the vertebrobasilar System. A case report. *Neurosurg Rev.* 30:345-349, 2007
41. **Elhammady MS**, Bhatia S, Ragheb J. Endoscopic fenestration of middle fossa arachnoid cysts: a technical description and case series. *Pediatr Neurosurg.* 43:209-215, 2007
42. **Elhammady MS**, Manzano GR, Lebowhl N, Levi AD. Metastatic Leiomyosarcoma presenting in the spine: Case series and review of the literature. *J Neurosurg Spine* 6:178-183, 2007
43. Tummala R, Heros RC, Sheth R, **Elhammady MS**, Morcos JJ. Surgical management of giant aneurysms of the middle cerebral artery. *Operative Techniques in Neurosurgery* 8:85-92, 2005

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Papers submitted or in preparation

1. Accelerated Onyx embolization for carotid artery aneurysms with adjunctive balloon test occlusion: Technical note and case series.
2. **Elhammady MS**, Johnson JN, Tsimpas A, Peterson EC, Yavagal DR, Aziz-Sultan MA. Endovascular therapy for Acute Ischemic Stroke: Importance of Pre-procedural Perfusion Studies.
3. Johnson JN, **Elhammady MS**, Ashour R, Yavagal DR, Aziz-Sultan MA. Endovascular therapy in Acute Ischemic Stroke: Comparison of Outcomes in Patients older and younger than 80 years.
4. **Elhammady MS**, Johnson JN, Maiodna E, Aziz-Sultan MA. Surgical Management of Dural Arteriovenous Fistula.
5. Johnson JN, Ebersole K, Post J, Pasol J, **Elhammady MS**, Aziz-Sultan MA. Visual Deterioration after Onyx 500 Embolization of a Superior Hypophyseal Aneurysm: Visual Pathway Infarct from Perforator Occlusion.
6. Elena Vera E, Raper DMS, Iorgulescu JB, Madhavan K, Lally BE, Morcos JJ, **Elhammady MS**, Komotar RJ. The role of Stereotactic Radiosurgery in the Management of Skull Base Meningiomas.
7. Haussen DC, Peterson EC, Ashour R, Johnson JN, **Elhammady MS**, Cesar L, Heros, RC, Aziz-Sultan MA. Venous pressure monitoring during swine arteriovenous model ethylene-vinyl alcohol co-polymer embolization.
8. Haussen DC, Gaynor BG, Johnson JN, Peterson EC, **Elhammady MS**, Aziz-Sultan MA, Yavagal DR. Cavernous Carotid Artery Calcification Outcomes in Acute Ischemic Stroke Intervention

Abstract poster presentations

1. Aziz-Sultan MA, Johnson JN, Aushor RR, Bowie CR, **Elhammady MS**. Accelerated Technique for Onyx 500 with Balloon Test Occlusion. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
2. Aziz-Sultan MA, Johnson JN, Aushor RR, Bowie CR, Murray T, **Elhammady MS**. Intra-Arterial Ophthalmic Chemotherapeutic Infusion for the Treatment of

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- Retinoblastoma. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
3. Johnson JN, Hayes S, **Elhammady MS**, Aushor RR, Yavagal D, Aziz-Sultan MA. Endovascular Embolization for Intractable Nasal and Oropharyngeal Hemorrhage. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 4. Johnson JN, **Elhammady MS**, Ebersole K, Aziz-Sultan MA. Visual Deterioration After Onyx Embolization of a Superior Hypophyseal Aneurysm: Visual Pathway Infarct From Perforator Occlusion. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 5. Johnson JN, Aushor RR, **Elhammady MS**, Aziz-Sultan MA. The Characterization of Spinal Vascular Malformations Using Selective Injection 3D C-Arm CT Angiography. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 6. Aushor RR, **Elhammady MS**, Shaibani A, Aziz-Sultan MA. Onyx Embolization of Pediatric Craniospinal Vascular Lesions and Tumors. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 7. Aushor RR, **Elhammady MS**, Johnson JN, Aziz-Sultan MA. Safety and Efficacy of Onyx Embolization of Carotid-Cavernous Fistulas. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 8. **Elhammady MS**, Johnson JN, Tsimpas A, Peterson EC, Yavagal DP, Aziz-Sultan MA. Influence of Pre-Procedural Perfusion Studies on the Development of Intracranial Hemorrhage Following Endovascular Therapy for Acute Ischemic Stroke. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 9. **Elhammady MS**, Johnson JN, Maiodna E, Aziz-Sultan MA, Morcos JM, Heros RC. Surgical Management of Intracranial Dural Arteriovenous Fistulae With Retrograde Cortical Venous Drainage. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 10. **Elhammady MS**, Johnson JN, Aushor RR, Aziz-Sultan MA. Endoscopic-Assisted Onyx Embolization of Juvenile Nasopharyngeal Angiofibroma by Direct Puncture. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012
 11. **Elhammady MS**, Johnson JN, Aushor RR, Aziz-Sultan MA. Direct Percutaneous Embolization of Neck Paraganglioma. 80th AANS Annual Scientific Meeting, Miami, Florida. April 15-18, 2012

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12. C. Sidani, M. Angulo, O. Gomaa, **MS Elhammady**, M. Sultan. Preoperative Direct Percutaneous Embolization Of a Carotid Body Tumor With Onyx: a Safer and Less Invasive Alternative To Currently Used Techniques. International Symposium on Endovascular Therapy 2012, Miami, Florida, Jan 15-19, 2012
13. M. Angulo, O. Gomaa, C. Sidani, **MS Elhammady**, M. Sultan. Outcome of Carotid-Cavernous Fistula Embolization with Onyx Via Transvenous, Transarterial & Percutaneous Approaches. International Symposium on Endovascular Therapy 2012, Miami, Florida, Jan 15-19, 2012
14. Sadasivan C, Dholakia R, Patel B, Brownstein J, **Elhammady MS**, Farhat H, Aziz-Sultan MA, Fiorella DJ, Woo HH, Lieber BB. *In vitro quantification of pore spaces left after endovascular coiling of intracranial aneurysms*. 2011 Biomedical Engineering Society (BMES) Annual Meeting, Connecticut Convention Center, Hartford, CT, Oct 12-15, 2011
15. Lieber BB, Sadasivan C, Fiorella DJ, Woo HH, Brownstein J, Patel B, Dholakia R, **Elhammady MS**, Farhat H, Aziz-Sultan MA. *Preliminary in vitro estimates of intra-aneurysmal void sizes after endovascular coiling*. ASME 2011 Summer Bioengineering Conference, Nemacon Woodlands Resort, Famington, PA, Jun 22-25, 2011
16. Aziz Sultan MA, Sadasivan C, Brownstein J, Patel B, Puig E, Fernandez Prada K, Rakian A, Farhat H, **Elhammady MS**, Hao Q, Trager AL, Woo HH, Fiorella DJ, Lieber BB. *In vitro quantification of the size distribution of intrasaccular voids left after endovascular coiling of cerebral aneurysms*. AHA 2011 International Stroke Conference, Los Angeles Convention Center, Los Angeles, CA, Feb 8-11, 2011
17. Peterson EC, **Elhammady MS**, Tsimpas A, Yavagal DR, Aziz-Sultan MA. *Futile Recanalization after Mechanical Embolectomy for Acute Stroke: Exploring the Mismatch Between Successful Recanalization and Favorable Outcome*. AANS/CNS Cerebrovascular Section Annual Meeting, Los Angeles, California, February 7 – 8, 2011.
18. Aziz-Sultan MA, Sadasivan C, Brownstein J, Patel B, Puiz E, Prada KF, Rakian A, Farhat H, **Elhammady MS**, Hao Q, Trager AL, Woo HH, Fiorella DJ, Lieber BB. *In Vitro Quantification of the Size Distribution of Intrasaccular Voids Left after Endovascular Coiling of Cerebral Aneurysms*. International Stroke Conference 2011, Los Angeles, California, February 9-11, 2011.
19. **Elhammady MS**, Tsimpas A, Peterson EC, Aziz-Sultan MA, Yavagal DR. *Endovascular Therapy for Acute Ischemic Stroke: Importance of Pre-procedural Perfusion Studies*. The Congress of Neurological Surgeons, San Francisco, California, October 16-21, 2010.
20. **Elhammady MS**, Peterson EC, Aziz-Sultan MA. *Preoperative Onyx Embolization of*

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Vascular Head and Neck Tumors by Direct Puncture. The Congress of Neurological Surgeons, San Francisco, California, October 16-21, 2010.

21. Herman B, **Elhammady MS**, Sultan A, Weed D. *Percutaneous embolization of head and neck paragangliomas.* American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, Boston, Massachusetts, September 25-29, 2010.
22. Wolfe SQ, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. *Balloon-assisted embolization of dural arteriovenous fistulae.* The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
23. **Elhammady MS**, Wolfe SQ, Farhat H, Moftakhar R, Aziz-Sultan MA. *Carotid Artery Sacrifice for Unclippable and Uncoilable Aneurysms: Endovascular Occlusion versus Common Carotid Artery Ligation.* The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
24. Wolfe SQ, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. *Intra-arterial ophthalmic artery tPA infusion for acute thromboembolic visual loss.* The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
25. Wolfe SQ, Schefier A, **Elhammady MS**, Moftakhar R, Murray T, Fernandez C, Aziz-Sultan MA. *Intra-arterial ophthalmic chemotherapeutic infusion for the treatment of retinoblastoma.* The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
26. **Elhammady MS**, Peterson EC, Wolfe SQ, Aziz-Sultan MA. *Preoperative embolization of Juvenile Nasopharyngeal Angiofibromas: Transarterial versus Direct Tumoral Puncture.* The American Association of Neurological Surgeons, Philadelphia, PA, May 1-5, May 1-5, 2010.
27. **Elhammady MS**, Wolfe SQ, Farhat H, Dileep R, Yavagal, Aziz-Sultan MA, Heros RC. *Carotid Artery Sacrifice for Large and Giant aneurysms: Endovascular Occlusion versus Common Carotid Artery Ligation.* International Stroke Conference 2010, San Antonio, Texas, February 23-25, 2010.
28. Farhat H, Moftakhar R, **Elhammady MS**, Aziz-Sultan MA. *Endoscopic-assisted transnasal intra-tumoral embolization of juvenile nasopharyngeal angiofibroma with Onyx.* North American Skull Base Society 20th annual meeting, New Orleans, October 16-18, 2009.
29. **Elhammady MS**, Wolfe SQ, Farhat H, Moftakhar R, Aziz-Sultan MA. *Carotid Artery Sacrifice for Large and Giant Aneurysms: Endovascular Occlusion versus Common Carotid Artery Ligation.* XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.

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30. Farhat H, **Elhammady MS**, Wolfe SQ, Morcos JJ, Aziz-Sultan MA. *Direct Percutaneous Embolization of Carotid Body Tumors Using Onyx*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
31. Wolfe SQ, Moftakhar R, Farhat H, **Elhammady MS**, Aziz-Sultan MA. *Transarterial embolization of direct carotid cavernous fistula with Onyx 500*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
32. Wolfe SQ, Farhat H, Moftakhar R, **Elhammady MS**, Aziz-Sultan MA: *Intra-aneurysmal balloon assistance for navigation across a wide neck aneurysm*. XIVth World Congress of Neurological Surgery, Boston, MA, Aug 30-Sep 4, 2009.
33. **Elhammady MS**, Wolfe SQ, Ashour R, Farhat H, Harris EA, Leiber BB, Aziz-Sultan MA. *Safety and Efficacy of Vascular Tumor Embolization Using Onyx*. The American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.
34. Wolfe SQ, Farhat H, **Elhammady MS**, Moftakhar R, Aziz-Sultan MA. *Transarterial embolization of a scalp hemangioma presenting with Kasabach-Merritt syndrome: Case Report*. The American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.
35. Wolfe SQ, Farhat H, Moftakhar R, **Elhammady MS**, Aziz-Sultan MA. *Intra-aneurysmal balloon assistance for navigation across a wide neck aneurysm: Technical Note*. The American Association of Neurological Surgeons, San Diego, California, May 2-6, 2009.
36. Yavagal D, Wiley E, Rodriguez A, Farhat H, **Elhammady S**, Aziz-Sultan MA, Ortiz G. *Selection for Endovascular Acute Stroke Therapy by MR Imaging*. American Academy of Neurology 61st Annual Meeting, April 25–May 2, 2009, Seattle, Washington.
37. Farhat H, Aziz-Sultan MA, Levi AD, **Elhammady MS**. *Cervical subarachnoid catheter placement for cerebrospinal fluid drainage via lateral C1-C2 puncture: A safe and efficacious alternative to the classic lumbar cistern drain*. The Congress of Neurological Surgeons, Orlando, Florida, September 20-25, 2008.
38. **Elhammady MS**, Başkaya MK, Heros RC. *Early Elective Surgical Exploration of Spontaneous Intracerebral Hematomas of Unknown Etiology*. The Southern Neurosurgical Society, Puerto Rico, February 6-9, 2008.
39. Aziz-Sultan M, **Elhammady MS**, Jea A, Heros R, Zauner A. *Case report: endovascular treatment of a giant fusiform basilar aneurysm*. The American Association of Neurological Surgeons, New Orleans, Louisiana, April 16-21, 2005.

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40. Aziz-Sultan M, **Elhammady MS**, Quintero S, Tehrani H, Zauner A. *ePTFE covered stent repair of cervical carotid disruption*. The American Association of Neurological Surgeons, New Orleans, Louisiana, April 16-21, 2005.

Practical Courses and Hands-on Workshops Attended

1. Microscopic and Endoscopic Approaches for Skull Base Lesions and Cerebrovascular Bypass Session. Allegheny General Hospital, Pittsburgh, Pennsylvania, September 30 – October 3, 2010. Course directors: Khalid M. Aziz, MD., Ph.D., Douglas A. Chen, MD., FACS
2. Endonasal and Keyhole Surgery course, 360-degree minimally invasive skull base access. Anspach, Palm Beach Gardens, Florida, February 4-6, 2010. Course directors: Daniel F. Kelly, MD, Amin Kassam, MD
3. Microscopic and Endoscopic Approaches for the Skull Base. Allegheny General Hospital, Pittsburgh, Pennsylvania, October 1-4, 2009. Course directors: Khalid M. Aziz, MD., Ph.D., Douglas A. Chen, MD., FACS
4. Microscopic and Endoscopic Approaches for the Skull Base. Allegheny General Hospital, Pittsburgh, Pennsylvania, October 10-12, 2008. Course directors: Khalid M. Aziz, MD., Ph.D., Douglas A. Chen, MD., FACS.
5. Microsurgical approaches to the brain, ventricles, and skull base. The Congress of Neurological Surgeons, Orlando, Florida, September 20-21, 2008. Course Director: Albert L. Rhoton Jr. MD
6. Cerebral revascularization. The Congress of Neurological Surgeons, Orlando, Florida, September 21, 2008. Course Directors: Fady T. Charbel, MD., Sepideh Amin-Hanjani, MD.
7. TRUFILL® n-BCA Liquid Embolic System Training Course. University of Miami, Florida, September 6, 2008. Course director: Mohamad Ali Aziz-Sultan MD.
8. Skull base course. University of Florida, Gainesville, Florida, February 22-24, 2008. Course director: Stephen B. Lewis, MD. Honorary Course Chairman: Albert L. Rhoton Jr., MD.
9. Balloon Kyphoplasty training course. University of Miami, Florida, February 2, 2008. Course director: Steven Vanni, DO, DC.
10. AANS endovascular techniques course. Memphis, TN, April 27-28, 2007. Course director: Robert H. Rosenwasser, MD.

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11. Microvascular reconstructive techniques on live model. 4 week certified hands on course, University of Miami, Florida. March 2004. Faculty: Edgar Siqueira, MD.