

CURRICULUM VITAE

Andrew Michael Bauer, MD, MBA

I. Research Interests

Minimally invasive approaches for ICH evacuation
Cognitive outcomes of EC-IC bypass for ischemia
Development of real-time electronic dashboards for quality tracking
Economics in medicine and healthcare delivery
Outcomes research in cerebrovascular surgery
Skull base anatomy and approaches

Current Co-investigator Studies:

1. SWIFT PRIME: Solitaire FR with the Intention For Thrombectomy as PRIMARY Endovascular Treatment for Acute Ischemic Stroke
2. PEMIER: Prospective Study on Embolization of Intracranial Aneurysms with Pipeline Embolization Device
3. WEAVE: Wingspan StEnt System Post Market SurVEillance Study
4. SCENT: The Surpass IntraCranical Aneurysm Embolization System Pivotal Trial to treat large OR giant wide neck aneurysms
5. LVIS: Pivotal Study of the MicroVention, Inc. Neurovascular Self-Expanding Retrieval Stent System in the Treatment of Wide-Necked Intracranial Artery Aneurysms
6. SEP 3D: A randomized, concurrent controlled trial to assess the safety and effectiveness of the Separator 3D as a component of the Penumbra System in the revascularization of large vessel occlusion in acute ischemic stroke
7. ACE: An Aneurysm Coiling Efficiency Study of the Penumbra Coil 400 System
8. BARREL: Study of the Reverse Medical Barrel Vascular Reconstruction Device (VRD) for Adjunctive Treatment to embolic coils for Wide-Neck, Intracranial, Bifurcating/Branching Aneurysms of Middle Cerebral and Basilar Arteries.
9. HEAT: New Generation Hydrogel Endovascular Aneurysm Treatment Trial.
10. MiSPACE: Minimally Invasive Subcortical Parafascicular Access for Clot Evacuation

II. Education and Training

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|--------------------|---|---|
| 7/2014- present | Fellowship Endovascular Neuroradiology will finish 6/2016 | Cleveland Clinic |
| 1/2010- 12/2012 | MBA | The George Washington University School of Business |
| 7/2007- 6/2013 | Residency Written Boards Passed March, 2009 | Neurological Surgery University of Wisconsin Madison, Wisconsin |

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| 6/2006- 6/2007 | Internship | General Surgery University of Wisconsin Madison, Wisconsin |
| 8/2002 5/2006 | M.D. | University of Missouri-Columbia Columbia, Missouri |
| 8/1998- 12/2001 | B.S. (Biochemistry) | University of Missouri-Columbia Columbia, Missouri |

III. Employment

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|----------------|---|
| 7/2014-present | Cleveland Clinic Foundation Clinical Fellow – Endovascular Neuroradiology |
| 2013-14 | Cerebrovascular Center, Cleveland Clinic – Clinical Associate |
| 2006-13 | University of Wisconsin Hospitals and Clinics (Resident Physician) |
| 2003 | Heartland Lions Eye Bank, Retrieval Technician |
| 2000-3 | University of Missouri-Columbia Animal Science Endocrinology/Biochemistry Research Lab |
| 2000 | Boone Hospital Center, Columbia, MO EKG Monitor Technician |
| 1998-9 | Baxter County Regional Hospital, Mountain Home, AR Surgical Technician |

IV. Leadership Positions

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| 2014-16 | CSNS Caucus Member |
| 2010 | University of Wisconsin Hospitals and Clinics – Operating Room Committee (resident representative) |
| 2009-10 | University of Wisconsin House Staff Affairs Committee |
| 2008-9 | CNS Website Case of the Month |
| 2006 | Missouri Medical Political Action Committee, Medical Student Representative |
| 2005-6 | Mizzou Medical Society (AMA), president |

V. Awards and Honors

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| 2009 | Council of State Neurosurgical Societies Socioeconomic Fellowship |
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| 2009 | John Sandin Resident Creativity and Research Award |
| 2006 | Peter Black Prize in Neurosurgery |
| 2004 | The Chancellor's List |
| 2003 | UMC Health Sciences, Office of Medical Research Summer Research Fellowship |
| 2000 | College of Agriculture, Food, and Natural Resources Summer Research Fellowship |
| 1999 | Golden Key National Honor Society |

VI. Affiliations and Memberships

Walter E. Dandy Neurosurgical Society
 American College of Surgeons
 American Association of Neurological Surgeons
 AANS/CNS Joint Cerebrovascular Section
 Society of Neurointerventional Surgery
 Congress of Neurological Surgeons
 Council of State Neurosurgical Societies
 Christian Medical and Dental Association

VII. Teaching Experience

1. Residents as Teachers and Leaders Course (ACS, Chicago) – 5/2010
2. University of Wisconsin Neurosurgery Spine Course – 2011
Organization of lab, development of syllabus, cadaver teaching
3. University of Wisconsin Neurosurgery Skull Base Course – 2008-2011
Presenter, hands-on cadaver teaching
4. University of Wisconsin Neurosurgery Cranial Endoscopy Course – 2011
Co-organized course, developed cadaver techniques, laboratory teaching
5. University of Wisconsin Neurosurgery Endovascular Course
Hands-on simulator teaching
6. University of Wisconsin Microsurgery Course
Developed course syllabus, course manual, and hands-on teaching
7. Cleveland Clinic Spine Review (2012)
Lab Faculty
8. Wisconsin Skull Base Course (2013)
Course Instructor
9. Wisconsin Skull Base Course (2014)
Course Instructor
10. Wisconsin Skull Base Course (2015)
Course Instructor

VIII. Selected Abstracts

1. Dietary Genistein Reduces Tumor Progression Via Estrogen Receptor-Alpha (ER α) in the Mouse ER α KO-TRAMP Prostate Cancer Model. **Bauer AM**, Day JK, Jordan KR, Newton LG, Ganjam V, Greenberg NM, MacDonald RS, Besch-Williford C, Lubahn DB. *Endocrine Society 84, oral presentation* (June 2002).
2. Factors Affecting Outcome of Decompression Surgery for Chiari I Malformation. **Bauer AM**, Mueller DM, Oró JJ. *Health Science Research Day, poster presentation* (November 2003)
3. The Organized Spine Environment in North America: Four Decades of Growth. Oró JJ, Ryan T, **Bauer AM**. *Congress of Neurological Surgeons 2005*.
4. The Multidisciplinary Clinic Approach to Treatment of Pediatric Brain Tumors – How can this help your child? **Bauer AM**, Iskandar B, Puccetti D. *Caring for Children with Brain Tumors Conference, University of Wisconsin, September 17, 2005*
5. Anatomical Measurement of Cerebral Vascular Caliber in Cadaveric Specimens with Correlation to Computerized Tomographic Angiography (CTA), DYNA CT, and Three Dimensional Rotational Digital Subtraction Angiography (3D DSA) Ahmed AS, Seckin H, **Bauer AM**, Pulfer K, Baskaya MK, Niemann DB. *Society of Neurointerventional Surgery (SNIS) 5th Annual Meeting, July 30, 2008*
6. Microsurgical Anatomy of the Posterior Spinal Artery Via the Far-lateral Transcondylar Approach. **Bauer AM**, Ates O, Seckin H, Baskaya MK. *North American Skull Base Society – World Federation of Skull Base Societies Annual Meeting, Vancouver, BC, Canada. September 12, 2008*.
7. An Interplay of Epigenetic Processes, Histone Modification and DNA Methylation, Drives Folate-Induced Regeneration of the Injured Spinal Cord. Meethal SV, Hariharan N, Ondoma SM, Kuehn TR, Johng HH, Han C, Chindhy AA, Cassini TA, Rajamanickam V, **Bauer AM** and Iskandar BJ; *UW Neurological Surgery Research Day, December 2, 2010*.
8. The Cerecyte Coil Registry: Safety and Efficacy in the Treatment of Ruptured and Unruptured Aneurysms. **Bauer AM**, Aagaard-Kienitz B, Pulfer K, Munoz Del Rio A, Niemann DB. *SNIS/Joint Cerebrovascular Section Annual Meeting, Honolulu, HI February 4, 2013*

IX. Publications

A. Peer Reviewed Papers

1. Day JK. **Bauer AM**. DesBordes C. Zhuang Y. Kim BE. Newton LG. Nehra V. Forsee KM. MacDonald RS. Besch-Williford C. Huang TH. Lubahn DB. Genistein alters methylation patterns in mice. *Journal of Nutrition*. 132(8 Suppl):2419S-2423S, 2002 Aug.
2. **Bauer AM**, Oró JJ, Mueller DM. Arachnoid Cyst Resulting in Tonsillar Herniation and Syringomyelia in a Patient with Achondroplasia: A Case Report. *Neurosurgical Focus* 19(5):E14, 2005

3. Litofsky NS, **Bauer AM**, Kasper RS, Sullivan CM, Dabbous OH; Glioma Outcomes Project Investigators. Image-guided resection of high-grade glioma: patient selection factors and outcome. *Neurosurg Focus*. 2006 Apr 15;20(4):E16.
4. Seçkin H, Ateş O, **Bauer AM**, Başkaya MK. Microsurgical anatomy of the posterior spinal artery via a far-lateral transcondylar approach. *J Neurosurg Spine*. 2009 Mar;10(3):228-33.
5. Rajpal S, Moftakhar R, **Bauer AM**, Turk AS, Niemann DB. Superselective WADA Test for Ruptured Spontaneous Fusiform Middle Cerebral Artery Aneurysm: A Technical Case Report. *Journal of NeuroInterventional Surgery*. 3(3):237-241. 2011.
6. Avcı E, Aktüre E, Seçkin H, Uluç K, **Bauer AM**, İzci Y, Morcos JJ, Başkaya MK. Level I-III Craniofacial Approaches Based on the Barrow Classification for Treatment of Skull Base Meningiomas: Surgical Technique, Microsurgical Anatomy, and Case Illustrations. *Neurosurg Focus*. 2011 May;30(5):E5.
7. Gurer B, Antar V, Cikla U, **Bauer AM**, Baskaya MK. Intraoperative Dynamic Assessment of the Posterior Communicating Artery and its Branches by Indocyanine Green Videoangiography. *Surg Neurol Int*. 2013 Sep 25;4:122
8. **Bauer AM** and Rasmussen PA. Treatment of Intracranial Vasospasm Following Subarachnoid Hemorrhage. *Front. Neurol*. 2014; 5:72
9. **Bauer AM**, Bain MD, Rasmussen PA. Onyx resorbition with AVM recanalization after complete AVM obliteration. *Interventional Neuroradiology*. 2015 Jun;21(3):351-6
10. Cikla U, Sadighi A, **Bauer AM**, Baskaya MK. Fatal Ruptured Blood Blister-like Aneurysm of Middle Cerebral Artery Associated with Ehlers-Danlos Syndrome Type VIII (Periodontitis Type). *J Neurol Surg Rep*. 2014;75:e210-e213
11. Ekici MA, Cikla U, **Bauer AM**, Baskaya MK. Osteopetrosis and Chiari type I malformation: a rare association. *Journal of Surgical Case Reports*. 2015;10,1-3
12. **Bauer AM**, Bain MD, Rasmussen PA. Chronic Cerebral Ischemia: Where 'Evidence' Based Medicine Fails Patients. *World Neurosurg*. 2015 Sept; 84(3):714-8
13. **Bauer AM**, Rasmussen PA, Bain MD. Initial Single-Center Technical Experience With the BrainPath System for Acute Intracerebral Hemorrhage Evacuation. Manuscript accepted to *Operative Neurosurgery*.
14. Cerejo R, John S, **Bauer AM**, Hussain MS, Bain M, Rasmussen P, Hui F, Masaryk T, and Toth G. Emergent Mechanical Thrombectomy for Acute Stroke using the Mindframe Capture LP system: Initial Single-center Experience. *J Neurointerv Surg*. 2015 Nov;
15. John S, Cerejo R, **Bauer AM**, et. al. Performance of CT Angiography on a Mobile Stroke Treatment Unit: Implications for Triage. Accepted for publication to *Journal of Neuroimaging* (2/25/16)

B. Book Chapters

1. **Bauer AM**, Baskaya MK. *Tumors of the Pediatric Skull, Skull Base, and Orbit*. In 'Wiki' Textbook of Paediatric Neurosurgery. Narenthiran, G (Ed.), 2007. Available at: <http://neurosurgeon.pbworks.com/w/page/11047267/FrontPage>.
2. **Bauer AM**, Kuo J. *Missouri*. In Encyclopedia of Stem Cell Research. Svendsen CN and Ebert AD, (Eds). Thousand Oaks, CA: SAGE Publications, 2008
3. **Bauer AM**, Kuo J. *Nancy Reagan*. In Encyclopedia of Stem Cell Research. Svendsen CN and Ebert AD, (Eds). Thousand Oaks, CA: SAGE Publications, 2008
4. **Bauer AM**, Iskandar BJ. *The Chiari Malformations and Syringomyelia*. CNS University of Neurosurgery: Pediatric Handbook. Available at: <http://www.cns.org/university/pediatrics/ch8.html>
5. **Bauer AM**, Resnick DK. *Psychosocial Aspects and Work-Related Issues On Lumbar Degenerative Disc Disease*. Advanced Concepts in Lumbar Degenerative Disc Disease. Pinheiro-Franco JL, Vaccaro AR, Benzel EC, Mayer H-M (Eds.), 2010. (Portugese)
6. **Bauer AM**, Resnick DK. *Atlantoaxial Rotatory Subluxation and Transverse Ligament Injury*. Youman's Neurological Surgery, 6th Edition. H. R. Winn (Ed), 2011
7. **Bauer AM**, Resnick DK. *Workers Compensation and Psychosocial Aspects of Low Back Pain*. Spine Surgery: Techniques, Complication Avoidance, and Management, 3rd Edition., Benzel E (Ed), 2012
8. **Bauer AM**, Trost G. *Education and Knowledge Base Acquisition and Retention*. Spine Surgery: Techniques, Complication Avoidance, and Management, 3rd Edition., Benzel E (Ed), 2012
9. **Bauer AM**, Resnick DK. *Intraparenchymal Cerebral Hematoma*. Encyclopedia of Intensive Care Medicine, J.-L. Vincent & J. Hall (Eds.), Springer 2012
10. **Bauer AM**, Iskandar BJ. *PXA*. Tumors of the Pediatric Nervous System, 2nd Ed., Keating RF, Goodrich JT, and Packer RJ (Eds.) Thieme: New York, 2013
11. **Bauer AM**, Dempsey RJ. *Pathophysiology of Cerebral Ischemia*. Neurovascular Surgery, 2nd Ed. Spetzler RF, Kalani MY, and Nakaji P (Eds.). Manuscript submitted by request.
12. **Bauer AM** and Rasmussen PA. *Subarachnoid Hemorrhage*. Stroke: Prevention, Acute Management, and Rehabilitation. Sampaio Silva G, Nunes Miranda RCA, and Meirelles Massaud R (Eds.). Manuscript submitted by request. (Portugese)
13. **Bauer AM**, Bain MD, and Rasmussen PA. *Spinal Dural and Extradural Vascular Malformations*. Benzel's Spine Surgery, 4th Edition., Kuntz C and Steinmetz M (Eds). Manuscript submitted by request.

C. Other Publications

1. **Bauer AM**, Iskandar BJ. Book Review: Principles and Practice of Pediatric Neurosurgery. Albright LA, Adelson S, and Pollack I (eds). Manuscript prepared by request for Pan Arab Journal of Neurosurgery, 2011.
2. **Bauer AM**, Iskandar BJ. Chiari Malformations and Syringomyelia. ISPN Pediatric Neurosurgery Handbook. <http://www.ispneurosurgery.org/>