

KELLY B MAHANEY, MD, MS

Assistant Professor
Neurosurgery, Pediatric Neurosurgery
Stanford University
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Stanford, CA 94305

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Education and Training

<i>Institution and Location</i>	<i>Degree/Field of Study</i>	<i>Years</i>
Barrow Neurologic Institute at Phoenix Children's Hospital Phoenix, AZ	Pediatric Neurosurgical Fellowship	July 2014 - June 2015
The Hospital for Sick Children University of Toronto Department of Neurosurgery Toronto, ON	Pediatric Neurosurgical Subspecialty Training	January - June 2014
University of Iowa Iowa City, IA	Neurosurgical Residency	July 2007 - June 2014
University of Iowa College of Public Health Iowa City, IA	Masters of Science, Clinical Investigation	July 2010 – May 2012
Saint Louis University School of Medicine St. Louis, MO	Doctor of Medicine	August 2003 – May 2007
University of Notre Dame Notre Dame, IN	Bachelor of Arts, Psychology and Pre-Professional Studies <i>Magna Cum Laude</i>	August 1999 – May 2003

Academic/Professional Appointments

December 2017
Assistant Professor of Neurosurgery, Pediatric Neurosurgery
Medical Center Line
Department of Neurosurgery
Stanford University
Stanford, CA

July 2015 – July 2017
 Assistant Professor of Neurosurgery, Pediatric Neurosurgery
 Clinician Educator, Tenure Track
 Department of Neurosurgery
 University of Virginia
 Charlottesville, VA

Honors and Professional Memberships

OurHealth Charlottesville & Shenandoah Valley, Bedside Manner Award Winner	2016
AANS/CNS Pediatric Joint Section member	2015
American Association of Neurological Surgeons (AANS), active member	2015
Congress of Neurological Surgeons (CNS), active member	2015
American Heart Association’s Specialty Conferences Top 10% accepted abstract	2011
AANS/CNS Cerebrovascular Joint Section, resident member	2010
American Association of Neurological Surgeons (AANS), resident member	2007
Congress of Neurological Surgeons (CNS), resident member	2007
Saint Louis University Alpha Omega Alpha Student Research Forum presenter	2006
University of Notre Dame, Magna Cum Laude	2003
Robert C Byrd Honors Scholarship	1999

Licensure

California State Medical Board	2017
Virginia State Medical Board	2015
Arizona State Medical Board	2014
Iowa State Medical Board	2013
Iowa State Medical Board, Resident License	2007

Editorial/Review Positions

Ad Hoc Reviewer, <i>Journal of Neurosurgery, Pediatrics</i>	July 2015 – present
Ad Hoc Reviewer, <i>Epilepsy Research</i>	June 2016 - present

Committee Positions

University of Virginia School of Medicine CME Committee	Aug 2016 –May 2017
University of Virginia Children’s Hospital Surgical Services Multidisciplinary Committee	Jan 2016 – May 2017
University of Virginia Pediatric Trauma Guideline Committee	Oct 2015 –May 2017

Career Development

NINDS Clinical Trials Methodology Course	Apr – Nov 2016
University of Virginia SOM Junior Faculty Development Program	Oct 2016 – April 2017
NIH Neurosurgeon Research Career Development Program Retreat	Nov 2016

Peer-Reviewed Publications

Wang, TR, Bailey RC, Goodkin HP, **Mahaney KB**. Trends in intracranial monitoring for pediatric medically intractable epilepsy: 2000-2012. *Neurology*. In press.

Ruhl DS, Koehn HA, **Mahaney KB**, Kesser BW. Congenital fistulae of the stapedial footplate and round window membrane: an unusual cause of recurrent meningitis. *JAMA Otolaryngology – Head & Neck Surgery*. 2017 Nov 16. PMID: 29145546.

Grossbach AJ, **Mahaney KB**, Menezes AH. Pediatric meningiomas: 65-year experience at a single institution. *Journal of Neurosurgery: Pediatrics*. 2017 Jul; 20(1): 42-50. PMID: 28474981.

Mahaney KB, Brown RD Jr, Meissner I, Piepgras DG, Huston J, Zhang J, Torner JC for the International Study of Unruptured Intracranial Aneurysms Investigators: Age-related differences in Unruptured Intracranial Aneurysms (UIAs): One-year Outcomes. *Journal of Neurosurgery* 2014 Nov; 121(5):1024-38. PMID: 25170670

Mahaney KB, Menezes AH. Intradiploic occipital pseudomeningocele in a patient with remote history of surgical treatment of Chiari malformation. *Journal of Neurosurgery: Spine* 2014 Nov; 121(5)769-72. PMID: 25147975

Ahmed R, Menezes AH, Awe OO, **Mahaney KB**, Torner JC, Weinstein SL. Long-term incidence and risk factors for development of spinal deformity following resection of pediatric intramedullary spinal cord tumors. *Journal of Neurosurgery, Pediatrics* 2014 June; 13(6):613-21. PMID: 24702614

Chen F, He W, **Mahaney K**, Noeller J, Mhanna N, Viljoen S, Torner J, Hitchon P. Alternative grafts in anterior cervical fusion. *Clin Neurol Neurosurg*. 2013 Oct; 115(10):2049-55. PMID: 23911002

Mahaney KB, Chalouhi N, Viljoen S, Smietana J, Kung DK, Jabbour P, Bulsara KR, Howard MA 3rd, Hasan DM: Risk of hemorrhagic complication associated with ventriculoperitoneal shunt placement in aneurysmal subarachnoid hemorrhage patients on dual antiplatelet therapy. *Journal of Neurosurgery* 2013 Oct;119(4):937-42. PMID: 23808537

Mahaney KB, Todd MM, Bayman EO, Torner JC, for the IHAIST Investigators: Acute postoperative neurologic deterioration associated with surgery for ruptured intracranial aneurysm: Incidence, predictors, and outcomes. *J Neurosurg* 2012 Jun;116(6):1267-78. PMID: 22404668

Hasan DM, **Mahaney KB**, Magnotta VA, Kung DK, Lawton MT, Hashimoto T, Winn HR, Saloner D, Martin A, Gahramanov S, Dósa E, Neuwelt E, Young WL: Macrophage imaging within human cerebral aneurysms wall using ferumoxytol-enhanced MRI: a pilot study. *Atherosclerosis, Thrombosis, and Vascular Biology* 2012 Apr; 32(4): 1032-8. PMID: 22328774

Hasan DM, Nadareyshvili AI, Hoppe AL, **Mahaney KB**, Kung DK, Raghavan ML: Cerebral aneurysm sac growth as the etiology of recurrence after successful coil embolization. *Stroke* 2012 Mar; 43(3): 866-8. PMID: 22180247

Liu W, Kung DK, **Mahaney KB**, Rossen JD, Jabbour PM, Hasan DM. Anterior-to-posterior circulation approach for mechanical thrombectomy of an acutely occluded basilar artery using the Penumbra aspiration system. *World Neurosurg* 2012 Feb; 77(2): 398.e17-20. PMID: 22120391

Hasan DM, **Mahaney KB**, Brown RD, Meissner I, Piepgras DG, Huston J, Capuano AC, Torner JC, for the ISUIA Investigators: Aspirin as a Promising Agent for Decreasing Incidence of Cerebral Aneurysm Rupture. *Stroke* 2011;42(11):3156-3162. PMID: 21980208

Mahaney KB, Todd MM, Torner JC; for the IHAST Investigators: Variation of patient characteristics, management, and outcome with timing of surgery for aneurysmal subarachnoid hemorrhage. *J Neurosurg* 2011 Apr; 114(4): 1045-1053. PMID: 21250801

Mahaney KB, Abdulrauf SI: Anatomic relationship of the optic radiations to the atrium of the lateral ventricle: Description of a novel entry point to the trigone. *Neurosurgery*. 2008 Oct;63(4 Suppl 2):195-202; discussion 202-3. PMID: 18981826

Liu JK, **Mahaney K**, Barnwell SL, McMenomey SO, Delashaw JB Jr: Dural arteriovenous fistula of the anterior condylar confluence and hypoglossal canal mimicking a jugular foramen tumor. *J Neurosurg*. 2008 Aug; 109(2): 335-40. PMID: 18671650

Coppens JR, **Mahaney KB**, Abdulrauf SI: An anteromedial approach to the temporal horn to avoid injury to the optic radiation fibers and uncinata fasciculus: anatomical and technical note. *Neurosurg Focus*. 2005 Jun 15; 18(6B): E3. PMID: 16048298

Communications

Mahaney KB, Todd MM, Torner JC; for the IHAST Investigators: Variation of patient characteristics, management, and outcome with timing of surgery for aneurysmal subarachnoid hemorrhage. Response. *J Neurosurg* 2015 May;122(5):1248-9. PMID: 26120621

Mahaney KB, Brown RD Jr, Torner JC; ISUIA Investigators. International Study of Unruptured Intracranial Aneurysms. Response. *Journal of Neurosurgery* 2014 Nov; 121(5):1022-3. PMID: 25525651

Oral Presentations

Mahaney KB Rising healthcare costs despite stable disease burden and mortality in pediatric hydrocephalus. *Society of University Neurosurgeons Meeting*, Phoenix, AZ, March 2016.

Mahaney KB. Pediatric Hydrocephalus. *19th Annual Children's Neuroscience Symposium*. Barrow Neurologic Institute at Phoenix Children's Hospital. Phoenix, AZ, March 2015.

Mahaney KB. Neurosurgical approaches for tone management. *20th Annual Conference on Management Strategies for Functional Impairments in Children with Neuromuscular Conditions*. Department of Orthopaedic Surgery, University of Virginia Health System. Charlottesville, VA, December 2014.

Hasan DM, **Mahaney KB**, Magnotta VA, Kung DK, Lawton MT, Hashimoto T, Winn HR, Saloner D, Martin A, Gahramanov S, Dósa E, Neuwelt E, Young WL: Macrophage imaging within human cerebral aneurysms wall using ferumoxytol-enhanced MRI: a pilot study. *American Association of Neurologic Surgeons Annual Meeting*, AANS/CNS Cerebrovascular Section Session, Miami, April 2012.

Mahaney KB, Brown RD Jr, Meissner I, Piepgras DG, Huston J, Zhang J, Torner JC for the International Study of Unruptured Intracranial Aneurysms (ISUIA) Investigators: Age-Related Differences in Unruptured Intracranial Aneurysms (UIAs): One-year Outcomes. *AANS/CNS Cerebrovascular Section Annual Meeting*, New Orleans, January 2012.

Hasan DM, **Mahaney KB**, Brown RD, Meissner I, Piepgras DG, Huston J, Capuano AC, Torner JC, for the ISUIA Investigators: Aspirin as a Promising Agent for Decreasing Incidence of Cerebral Aneurysm Rupture. *International Stroke Conference*, Los Angeles, February 2011. (Selected among top 10 percent of accepted

abstracts to American Heart Association's Specialty Conferences in 2011, for *American Heart Association Scientific Sessions*, Orlando, November 2011).

Mahaney KB: Clinical trials research in subarachnoid hemorrhage. *University of Iowa Department of Neurosurgery Educational Conference*, Iowa City, September 2011.

Mahaney KB, Todd MM, Torner JC; for the Intraoperative Hypothermia for Aneurysm Surgery (IHAST) Investigators: Timing of surgery for aneurysmal subarachnoid hemorrhage. *Congress of Neurologic Surgeons Annual Meeting*, Section on Cerebrovascular Surgery, Neurosurgical Forum, Orlando, September 2008.

Mahaney KB, Todd MM, Torner JC; for the IHAST Investigators: Timing of surgery for aneurysmal subarachnoid hemorrhage. *University of Iowa Department of Neurosurgery Educational Conference*, Iowa City, September 2008.

Book Chapters

Mahaney KB, Rutka JT. Medulloblastoma. In: Youmans JR, Winn HR [ed.] *Youmans/Winn Neurological Surgery 7th Edition*, Saunders/Elsevier, Philadelphia, PA, *In Press*.

Mahaney KB, Rutka JT. Medulloblastoma in Adults. In: Youmans JR, Winn HR [ed.] *Youmans/Winn Neurological Surgery 7th Edition*, Saunders/Elsevier, Philadelphia, PA, *In Press*.

Kung DK, Mahaney KB, Rossen JD, Hasan DM. Extracranial Atherosclerosis. In: Jabbour PM [ed.] *Neurovascular Surgical Techniques*, Jaypee Brothers Medical Publishers (P) Ltd, 2013

Research Support

Hydrocephalus Association 2017 PHH Innovator Award

(PI: Strahle, Jennifer, **Co-PI: Mahaney, Kelly B**)

06/01/17-05/31/18

Intraventricular Hemorrhage Clearance Markers in Human Neonatal CSF

This grant is currently funding a small retrospective study of pediatric patients with neonatal intraventricular hemorrhage (IVH) to determine if cerebrospinal fluid (CSF) markers of IVH clearance and hemoglobin degradation are associated with development of post-hemorrhagic hydrocephalus.

Role: Co-PI