

**Brian Jeremy Williams, M.D.**

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**EDUCATION**

- 2015-2016 Fellowship  
Neurological Oncology  
MD Anderson Cancer Center  
Houston, TX
- 2013-2014 Fellowship  
Skull Base and Cerebrovascular Surgery  
Auckland City Hospital  
Auckland, New Zealand
- 2008-2015 Residency  
Department of Neurosurgery  
University of Virginia  
Charlottesville, VA
- 2008-2009 Internship  
Department of Surgery,  
University of Virginia  
Charlottesville, VA
- 2003-2008 M.D. - High Honors  
Baylor College of Medicine  
Houston, TX
- 1999-2003 B.A., Biology with Honors  
Johns Hopkins University  
Baltimore, MD

**ACADEMIC APPOINTMENTS**

- August 2016-Present Assistant Professor  
Department of Neurological Surgery  
University of Louisville  
Louisville, KY
- August 2016-Present Director

Brain Tumor Program  
Department of Neurological Surgery  
University of Louisville  
Louisville, KY

## **CERTIFICATION AND LICENSURE**

August 2016-Present Kentucky Medical License

## **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

2016-Present Member, Congress of Neurological Surgeons  
2016-Present Member, American Association of Neurological Surgeons  
2016-Present Member, Congress of Neurological Surgeons  
2016-Present Member, AANS/CNS Tumor Section  
2015-Present Member, Society for Neuro-Oncology

## **HONORS AND AWARDS**

2015 2nd Place Crutchfield  
Gage and Thompson Award for Best Paper  
Neurosurgical Society of the Virginias

2013 1st Place Crutchfield  
Gage and Thompson Award for Best Paper  
Neurosurgical Society of the Virginias

2010 Integra Foundation Award, Congress of Neurological Surgeons

2010 Obtained 91st Percentile on Neurosurgical Written Board Exam

2008 2nd Place  
James K. Alexander Research Symposium  
BCM

2007 Alpha Omega Alpha,  
Baylor College of Medicine

2007 Medical Student Research Track  
Baylor College of Medicine

2007 Stanley J. Sarnoff Research Fellowship

2003 1st Prize  
βββ Biological Honor Society Poster Contest  
Johns Hopkins University

2001-2003 Verizon Academic All-American Division III  
Johns Hopkins University Football Team

## COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

2016-Present Member  
Credentialing Committee  
University of Louisville School of Medicine  
Louisville, KY

## EDUCATIONAL ACTIVITIES

Fall 2016-Present Neuroscience Course Planning Committee  
University of Louisville Medical School  
Louisville, KY

Fall 2016-Present Faculty Sponsor  
Neurological Surgery Interest Group  
University of Louisville School of Medicine  
Louisville, KY

Fall 2016-Present Clerkship Director  
Department of Neurological Surgery  
University of Louisville School of Medicine  
Louisville, KY

January 2017-Present Course Director  
Neurosurgery Grand Rounds  
Department of Neurological Surgery  
University of Louisville  
Louisville, KY

## GRANTS AND CONTRACTS

### **PAST**

2013 Williams BJ (PI), Park DM. Support Grant, P30 CA44579  
Role: PI  
Farrow Fellowship Fund  
University of Virginia Cancer Center and the National Cancer Institute Cancer Center  
*Dissecting the contributions of hypoxia and glucocorticoid signaling in the pathogenesis and treatment of peritumoral edema.*

2011 Rosenberger R (PI), Williams BJ, Brudnicki P, Germain A, Sawyer R  
Role: Co-Investigator  
University of Virginia Biomedical Innovation Fund  
*Accidental Dislodgement of the Percutaneous Endoscopic Gastrostomy (PEG): a novel "Safety Break" device for global prevention.*

## PUBLICATIONS

### *Journal Articles*

1. Lee DH, Zhang Y, Kassam AB, Park M, Gardner P, Prevedello DM, Henry S, Horbinski C, Beumer JH, Tawbi H, **Williams BJ**, Shaffrey ME, Egorin MJ, Abounader R, Park DM. Combined PDGFR and HDAC Inhibition Overcomes PTEN Disruption in Chordoma. *Plos One*. 2015 Aug 12. [Epub]
2. Jo J, **Williams B**, Smolkin M, Wintermark M, Shaffrey ME, Lopes MB, Schiff D. Effect of neoadjuvant temozolomide upon volume reduction and resection of diffuse low-grade glioma. *J Neurooncol*. 2014 Jul 20. [Epub]
3. Chen CJ, Williams EA, McAneney TE, **Williams BJ**, Mandell JW, Shaffrey ME. Histiocytic sarcoma of the cavernous sinus: case report and literature review. *Brain Tumor Pathol*. 2014 May 8. [Epub ahead of print]
4. Ding D, Starke RM, Hantzmon J, Yen CP, **Williams BJ**, Sheehan JP. The role of radiosurgery in the management of WHO Grade II and III intracranial meningiomas. *Neurosurg Focus*. 2013 Dec;35(6):E16. doi: 10.3171/2013.9.FOCUS13364. Review.
5. **Williams BJ**, Gupta B, Jung J, Lee DH, Park DM. Exploring pharmacotherapeutic options for treating chordoma. *Drugs of the Future*. 2013, 38(8): 585.
6. **Williams BJ**, Raper DM, Godbout E, Park DM. Diagnosis and Treatment of Chordoma: A Comprehensive Review. *Journal of the National Comprehensive Cancer Network*. 2013 Jun 1;11(6):726-31. Review.
7. **Williams BJ**, Xu Z, Salvetti DJ, McNeill I, Larner J, Sheehan JP. Stereotactic radiosurgery for large vestibular schwannomas: A single center retrospective case-matched comparison assessing the effect of size. *Journal of Neurosurgery*. 2013 Aug;119(2):463-71. doi: 10.3171/2013.4.JNS122195. Epub 2013 May 24.
8. **Williams BJ**, Salvetti DJ, Starke RM, Yen CP, Sheehan JP. Gamma Knife Radiosurgery for Atypical and Malignant Meningiomas: Analysis of long term outcomes. *Journal of Radiosurgery & SBRT*. 2013; 2(3): 181-193.
9. **Williams BJ**, Smith JS, Saulle D, Ames CP, Lenke LG, Broadstone PA, Vaccaro AR, Polly Jr. DW, Shaffrey CI. An Analysis of Complications Associated with Surgical Treatment of Traumatic Spinal Injuries in 6,706 Cases: A Review of the Scoliosis Research Society Morbidity and Mortality Database. *World Neurosurgery*. 2014 May-Jun;81(5-6):818-24. doi: 10.1016/j.wneu.2013.02.013. Epub 2013 Feb 8.
10. Salvetti DJ, **Williams BJ\***, Posthumus J, Shaffrey M. Enterogenous cyst of the third ventricle. *J Clin Neurosci*. 2014 Jan;21(1):161-3. doi: 10.1016/j.jocn.2012.10.035. Epub 2013 Apr 18.  
\*Corresponding author.
11. Weintraub D, Yen CP, Xu Z, Savage J, **Williams B**, Sheehan J. Gamma Knife Radiosurgery of Pediatric Gliomas. *J Neurosurg: Pediatrics*. 2012 Oct 12. [Epub]
12. Weintraub D, **Williams BJ**, Jane J Jr. Decompressive craniectomy in pediatric traumatic brain injury: a review of the literature. *NeuroRehabilitation*. 2012; 30(3): 219-23.
13. Starke RM, **Williams BJ**, Jane JA Jr., Sheehan JP. Gamma Knife surgery for patients with nonfunctioning pituitary macroadenomas: predictors of tumor control, neurological deficits, and hypopituitarism. *J Neurosurg*. 2012 Jul; 117(1): 129-135.
14. Starke RM, **Williams BJ**, Hiles C, Nguyen JH, Elsharkawy MY, Sheehan JP. Gamma Knife surgery for skull base meningiomas. *J Neurosurg*. 2012 Mar; 116(3): 588-297.
15. **Williams BJ**, Park DM, Sheehan JP. Bevacizumab used for the treatment of severe, refractory perilesional edema due to an arteriovenous malformation treated with stereotactic radiosurgery. *J Neurosurg*. 2012 Feb 10. [Epub]

16. Starke RM, Olson C, Nguyen JH, Rainey J, **Williams BJ**, Sheehan JP. Gamma Knife Radiosurgery of Tentorial Meningiomas. *Journal of Radiosurgery & SBRT*. 1(2):123-131, 2011.  
<http://www.oldcitypublishing.com/JRSBRT/JRSBRTcontents/JRSBRTv1n2contents.html>
17. Whitmore RG, **Williams BJ**, Lega BC, Sanborn MR, Marcotte P. A patient with thoracic intradural disc herniation. *J Clin Neurosci*. 2011 Dec;18(12):1730-2.
18. **Williams BJ**, Smith JS, Fu KG, Hamilton DK, Polly DW, Ames CP, Berven SH, Perra JH, Knapp DR, McCarthy RE, Shaffrey CI. Does BMP increase the incidence of perioperative complications in spinal fusion? A comparison of 55,862 cases of spinal fusion with and without BMP. *Spine (Phila Pa 1976)*. 2011 Mar 9 [Epub].
19. Hamilton DK, Smith JS, Reames DR, **Williams BJ**, Chernavvsky DR, Shaffrey CI. Safety, efficacy, and dosing of recombinant human bone morphogenetic protein-2 (rhBMP-2) for posterior cervical and cervico-thoracic instrumented fusion with a minimum two-year follow-up. *Neurosurgery*. 2011 Feb 26 [Epub]
20. **Williams BJ**, Yen CP, Starke RM, Basina B, Nguyen, Rainey J, Sherman J, Schlesinger D, Sheehan JP. Gamma knife radiosurgery for parasellar meningiomas: long term results including complications, predictive factors and progression free survival. *J Neurosurg*. 2011 Feb 11 [Epub].
21. **Williams BJ**, Sansur CA, Smith JS, Berven SH, Broadstone PA, Choma TJ, Goytan MJ, Noordeen HH, Knapp DR Jr, Hart RA, Zeller RD, Donaldson WF 3rd, Polly DW Jr, Perra JH, Boachie-Adjei O, Shaffrey CI. The Incidence of Unintended Durotomy in Spine Surgery Based on 108, 478 Cases. *Neurosurgery*. 2011 Jan;68(1):117-124.
22. Starke RM, Nguyen JH, Rainey J, **Williams BJ**, Sherman J, Savage J, Yen CP, Sheehan JP. Gamma Knife Radiosurgery Of Meningiomas Located in the Posterior Fossa: Predictive Factors and Recurrence. *J Neurosurg* 2011 Jan 7 [Epub].
23. Sheehan JP, **Williams BJ**, Yen CP. Stereotactic Radiosurgery for WHO I Meningiomas. *J Neurooncol*. 2010 Sep;99(3):407-16. Epub 2010 Aug 24.
24. Starke RM\*, **Williams BJ\***, Vance ML, Sheehan JP. Radiation therapy and stereotactic radiosurgery for treatment of Cushing's Disease: An evidence based review. *Curr Opin Endocrinol Diabetes Obes*. 2010 Aug;17(4):356-64.
25. Hamilton DK, Smith JS, Reames DL, **Williams BJ**, Shaffrey CI. Use of recombinant bone morphogenetic protein-2 as an adjunct for instrumented posterior arthrodesis in the occipital cervical region: An analysis of safety, efficacy, and dosing. *J Craniovertebr Junction Spine*. 2010 Jul;1(2):107-12.
26. **Williams BJ**, Schlesinger D, Sheehan JP. Glossopharyngeal Neuralgia Treated with Gamma Knife Radiosurgery: Case Report and Review of the Literature. *World Neurosurgery*. 2010 Apr; 73(4):413-7.
27. Sheehan JP, Shaffrey CI, Schlesinger D, **Williams BJ**, Arlet V, Larner J. Radiosurgery in the treatment of spinal metastases: tumor control, survival and quality of life following helical tomotherapy. *Neurosurgery*. 2009 Dec;65(6):1052-61; discussion 1061-2.
28. **Williams BJ**, Suki D, Fox BD, Pelloski CE, Maldaun MV, Sawaya RE, Lang FF, Rao G. Stereotactic radiosurgery for metastatic brain tumors: a comprehensive review of complications. *J Neurosurg*. 2009 Sep; 111 (3): 439- 48.
29. **Williams BJ**, Fox BD, Sciubba DM, Suki D, Tu SM, Kuban D, Gokaslan ZL, Rhines LD, Rao G. Surgical Management of Metastatic Prostate Cancer to the Spine. *J Neurosurg Spine*. 2009 May; 10(5): 414-22.
30. Barshes NR, Gay AN, **Williams B**, Patel AJ, Awad SS. Support for the acutely-failing liver: A comprehensive review of historic and contemporary strategies. *J Am Coll Surg* 2005 Sept; 458 – 76.

31. Wawersik M, Milutinovich A, Casper AL, Matunis E, **Williams B**, Van Doren M. Somatic control of germline sexual development is mediated by the JAK/STAT pathway. *Nature* 2005 Jul 28; 436(7050): 563-7.

#### ***National and International Abstracts***

1. **Williams BJ**, Gresscot L, Barthel F, Verhaak R, Narang S, Rao A, Rao G. Malignant progression of low grade glioma: A clinical study. Submitted to the AANS 2016 Annual Meeting (Chicago, IL).
2. **Williams BJ**, Jung J, Park DM. "Cellular resting transmembrane potential instructs differentiation state of GBM stem-like cells." Accepted for poster presentation at the Society of Neuro-Oncology 20<sup>th</sup> Annual Meeting 2015 (San Antonio, TX).
3. Pryzbylowski C, **Williams BJ**, McNeil I, Xu Z, Jane J, Jr. Primary Versus Revision Transsphenoidal Resection of Non-functioning Pituitary Adenomas: Case Matched Comparison Study. Accepted as a poster presentation at the American Association of Neurological Surgeons Annual Meeting 2015 (Washington, D.C.).
4. Jo J, **Williams B**, Smolkin M, Wintermark M, Shaffrey ME, Lopes MB, Schiff D. Effect of neoadjuvant temozolomide upon volume reduction and resection of diffuse low-grade glioma. Accepted as a poster presentation at the 4<sup>th</sup> Quadrennial Meeting of the World Federation of Neuro-Oncology/Society of Neuro-Oncology Meeting 2013 (San Francisco, CA).
5. **Williams BJ**, Xu Z, Salvetti DJ, McNeill I, Larner J, Sheehan JP. Stereotactic radiosurgery for large vestibular schwannomas: A case control study assessing the effect of size. Accepted as digital poster presentation to the AANS 2013 (New Orleans, LA).
6. **Williams BJ**, Salvetti DJ, Yen CP, MacCleery G, Shaffrey ME. Intraoperative MRI is a feasible Adjunct for Cervical Intramedullary Spinal Tumor Resection: A report of two cases. Accepted as Oral Presentation at the Intraoperative Imaging Society 2013 (St. Louis, MO).
7. Weintraub D, **Williams BJ**, Yen CP, Xu Z, Sheehan JP. Gamma Knife Radiosurgery of Pediatric Gliomas. Accepted as a digital poster presentation to the Congress of Neurological Surgeons. 2012 (Chicago, IL).
8. **Williams BJ**, Salvetti DJ, Starke RM, Yen CP, Sheehan JP. "Gamma Knife Radiosurgery for Atypical and Malignant Meningiomas: Analysis of long term outcomes." Accepted as a digital poster presentation to American Association of Neurological Surgeons, 2012 (Miami, FL).
9. **Williams BJ**, Weintraub D, Reames DL, Shaffrey CI. "Perioperative Complications Associated with Treatment of Spinal Deformity in Patients with Movement Disorders." Accepted as a digital poster presentation to Congress of Neurological Surgeons, 2011 (Washington, DC).
10. Starke RM, Nguyen JH, Rainey J, **Williams BJ**, Savage J, Yen CP, Sheehan JP. "Gamma Knife Radiosurgery of Meningiomas Located in the Posterior Fossa: Factors Predictive of Outcome and Recurrence." Accepted as oral top ten abstract to AANS 2011. Recognized with the Leksell Radiosurgery Award (Denver, CO).
11. **Williams BJ**, Yen CP, Starke RM, Basina B, Nguyen, Rainey J, Sherman J, Schlesinger D, Sheehan JP. "Gamma knife radiosurgery for parasellar meningiomas: long term results including complications, predictive factors and progression free survival." Accepted as oral top ten abstract to CNS 2010. Winner of the Integra Foundation Award (San Francisco, CA).
12. **Williams BJ**, Smith JS, Fu KG, Hamilton DK, Perra JH, Polly Jr DW, Ames CP, Berven SH, McCarthy RE, Glassman SD, Knapp DR, Shaffrey CI, Scoliosis Research Society Morbidity and Mortality Committee. "Complications associated with BMP use in 11,933 cases of spinal fusion." Accepted as an oral presentation at the North American Spine Society 25<sup>th</sup> Annual Meeting 2010 (Orlando, Florida).

13. Smith JS, **Williams BJ**, Perra JH, Polly Jr DW, Ames CP, Berven SH, McCarthy RE, Glassman SD, Knapp DR, Shaffrey CI, Scoliosis Research Society Morbidity and Mortality Committee. "Unintended durotomy is associated with new neurological deficit." Accepted as a poster presentation at the 17<sup>th</sup> Annual International Meeting on Advanced Spine Techniques 2010 (Toronto, Canada).
14. **Williams BJ**, Smith JS, Fu KG, Hamilton DK, Perra JH, Polly Jr DW, Ames CP, Berven SH, McCarthy RE, Glassman SD, Knapp DR, Shaffrey CI, Scoliosis Research Society Morbidity and Mortality Committee. "Complications associated with BMP use in 11,933 cases of spinal fusion." Accepted as an oral presentation at the Scoliosis Research Society 45<sup>th</sup> Annual Meeting 2010 (Kyoto, Japan).
15. **Williams BJ**, Fu KG, Smith JS, Perra JH, Polly Jr DW, Ames CP, Berven SH, Hamilton DK, McCarthy RE, Glassman SD, Knapp DR, Shaffrey CI, Scoliosis Research Society Morbidity and Mortality Committee. "Complications of Spinal Surgery for Treatment of Thoracolumbar Fractures in 5,283 Cases" Accepted as an oral presentation to the Lumbar Spine Research Society Meeting 2010 (Chicago, Illinois).
16. **Williams BJ**, Smith JS, Fu KG, Hamilton DK, Perra JH, Polly Jr DW, Ames CP, Berven SH, McCarthy RE, Glassman SD, Knapp DR, Shaffrey CI, Scoliosis Research Society Morbidity and Mortality Committee. "Complications associated with BMP use in 11,933 cases of spinal fusion." Accepted as an oral presentation to the Lumbar Spine Research Society Meeting 2010 (Chicago, Illinois).
17. **Williams BJ**, Fu KG, Hamilton DK, Smith JS, Shaffrey CI. "Complications Associated with BMP Use in 15,926 Spinal Surgeries." Accepted as oral presentation to CNS/AANS Joint Section of Spine and Peripheral Nerve Meeting 2010 (Orlando, Florida).
18. **Williams BJ**, Fu KG, Smith JS, Perra JH, Polly Jr DW, Berven SH, Boachie-Adjei O, Shaffrey CI. "Complications of Spinal Surgery for Treatment of Traumatic Fracture in 6,706 Cases." Accepted as a poster presentation to AANS 2010 (Philadelphia, Pennsylvania).
19. Fu KM, Smith JS, Shaffrey CI, **Williams BJ**, Perra JH, Polly DW Jr., Berven SH, Boachie-Adjei O. "Preoperative ASA Grade Predicts Complication and Mortality Rates in Patients Undergoing Spinal Surgery." Accepted as a poster to the CNS/AANS Joint Section of Spine and Peripheral Nerve Meeting 2010 (Orlando, Florida).
20. **Williams BJ**, Sansur CA, Smith JS, Shaffrey CI, Berven S, Broadstone PA, Choma T, Goytan M, Noordeen H, Knapp DR, Hart R, Zeller R, Donaldson III WF, Polly Jr. DW, Perra J, Boachie-Adjei O. "Incidence of Unintended Durotomy in Spine Surgery: A Report of the Scoliosis Research Society Morbidity and Mortality Committee." Accepted as a poster presentation at the American Academy of Orthopedic Surgeons, March 2010 (New Orleans, Louisiana).
21. **Williams BJ**, Sansur CA, Smith JS, Shaffrey CI, Berven S, Broadstone PA, Choma T, Goytan M, Noordeen H, Knapp DR, Hart R, Zeller R, Donaldson III WF, Polly Jr. DW, Perra J, Boachie-Adjei O. "Incidence of Unintended Durotomy in Spine Surgery: A Report of the Scoliosis Research Society Morbidity and Mortality Committee." Accepted as an interactive oral poster presentation at the Congress of Neurological Surgeons Annual Meeting, October 2009 (New Orleans, Louisiana).
22. **Williams BJ**, Fox BD, Sciubba DM, Gokaslan ZL, Rhines LD, Rao G. "Surgical treatment of prostate cancer metastatic to the spine." Accepted as a digital poster presentation at the Congress of Neurological Surgeons Section of Spine and Peripheral Nerves Annual Meeting, March 2009 (Phoenix, Arizona).
23. **Williams BJ**, Fox BD, Sciubba DM, Gokaslan ZL, Rhines LD, Rao G. "Surgical treatment of prostate cancer metastatic to the spine." Accepted as a select abstract presentation at the Congress of Neurological Surgeons Annual Meeting, September 2008 (Orlando, Florida).

24. **Williams BJ**, Hsu JE, Patel R, Smith CW, Cass DL. "Fetal Artery Healing: MCP-1 Expression May Explain a Lack of Inflammation." Oral presentation at the 3<sup>rd</sup> Academic Surgical Congress, February 2008 (Huntington Beach, California).
25. **Williams BJ**, Fox B, Suki D, Maldaun M, Rao G, Sawaya R, Lang F. "Complications of Stereotactic Radiosurgery for One or Two Brain Metastases." Select abstract presentation at the Congress of Neurological Surgeons Annual Meeting, September 2007 (San Diego, California).
26. **Williams BJ**, Hsu JE, Patel R, Smith CW, Cass DL. "Fetal Artery Healing: MCP-1 Expression May Explain a Lack of Inflammation." Oral presentation at the Annual Sarnoff Meeting, May 2007 (Washington, D.C.).
27. **Williams BJ**, Stephenson JB, Fuller MK, Riha GM, Brunicardi FC, Scott BG. "Applying Skills in General Surgery 2006: Preparing medical students for surgical residency." Poster presentation for Association of Academic Surgery at the Second Academic Surgical Congress, February 2007 (Phoenix, Arizona).
28. Barshes NR, Lee TC, Balkrishnan R, **Williams B**, Gay AN, Karpen SJ, Carter BA, Quiros-Tejeira RE, Goss JA. "Outcomes of liver transplantation for biliary atresia: The U.S. experience." *Hepatology* 2004; 40(4 suppl 1):470A. Poster presentation at the American Association for the Study of Liver Disease Annual Conference, October 2004 (Boston, Massachusetts).
29. Barshes NR, Lee TC, Brunicardi FC, Balkrishnan R, **Williams B**, Gay AN, Alejandro R, Ricordi C, Goss JA. "Transaminitis following pancreatic islet transplantation: a consequence of decreased islet viability and intraoperative portal vein pressure changes?" Poster presentation at the Cell Transplant Society 7th International Congress, September 2004 (Boston, Massachusetts).

### **Regional Abstracts**

1. **Williams BJ**, Jung J, Lee DH, Oldfield EH, Park DM. Inhibition of hypoxia inducible factor-1  $\alpha$  signaling results in decreased peritumoral edema. Accepted as an Oral Presentation and Winner of 2<sup>nd</sup> place for the Crutchfield, Gage and Thomson Award for Best Resident Paper at the Neurosurgical Society of the Virginias 2015 (White Sulfur Springs, WV).
2. **Williams BJ**, Joshi S, Lee DH, Jung J, Kapur J, Park DM. A Specific Cellular Membrane Potential is Necessary and Sufficient to Induce Differentiation in Glioblastoma Cancer Stem Cells. Accepted as an Oral Presentation and Winner of the Crutchfield, Gage and Thomson Award for Best Resident Paper at the Neurosurgical Society of the Virginias 2013 (White Sulfur Springs, WV).
3. Williams BJ, Smith JS, Shaffrey CI. "New Neurological Deficit is Associated with Unintended Durotomy." Accepted as an oral presentation at the Neurosurgical Society of the Virginias 2011 (White Sulfur Springs, WV).
4. Rosenberger L, **Williams B**, Brudnicki P, Newhook T, Germaine A, Chen D, Sawyer R. "Accidental Dislodgement of the Percutaneous Endoscopic Gastrostomy (PEG): a novel "Safety Break" device for global prevention." Accepted as poster presentation at The University of Virginia Presidential Inauguration Research/Scholarship Poster Competition 2011 (Charlottesville, VA).
5. **Williams BJ**, Yen CP, Starke RM, Basina B, Nguyen, Rainey J, Sherman J, Schlesinger D, Sheehan JP. "Gamma knife radiosurgery for parasellar meningiomas: long term results including complications, predictive factors and progression free survival." Accepted as an oral presentation at the Neurosurgical Society of the Virginia's 2010 (White Sulfur Springs, WV).
6. **Williams BJ**, Fu KG, Smith JS, Hamilton DK, Perra JH, Polly Jr DW, Berven SH, Boachie-Adjei O, Shaffrey CI. "Complications associated with BMP use in 11,281 cases of spinal fusion." Accepted as an oral presentation at the Neurosurgical Society of the Virginia's 2010 (White Sulfur Springs, WV).



7. **Williams BJ**, Hsu JE, Patel R, Olutoye OO, Smith CW, Cass DL. "Fetal Artery Healing: MCP-1 Expression May Explain a Lack of Inflammation." Winner of Second Placed Poster Presentation at James K. Alexander Research Symposium, Baylor College of Medicine (Houston, TX).
8. **Williams BJ**, Hsu JE, Patel R, Olutoye OO, Smith CW, Cass DL. "Increased proliferation rates of fetal endothelial cells may limit inflammation and scar following injury." Oral presentation at American College of Surgeons, South Texas Chapter Annual Meeting, February 2007 (Houston, TX).
9. **Williams BJ**, Hsu JE, Patel R, Olutoye OO, Smith CW, Cass DL. "Increased proliferation rates of fetal endothelial cells may limit inflammation and scar following injury." Poster presentation at the Michael E. DeBakey Molecular Surgeon Research Day, December 2006 (Houston, TX).
10. **Williams BJ**, Jenkins A, Van Doren M. "Sexual Dimorphism in the Fruit Fly Germline: Investigating Sexual Specification." Oral presentation at the 3<sup>rd</sup> Annual Johns Hopkins University Undergraduate Research Symposium, April 2003 (Baltimore, MD).
11. **Williams BJ**, Jenkins A, Van Doren M. "Sexual Dimorphism in the Fruit Fly Germline: Investigating Sexual Specification." Poster presentation at the  $\beta\beta\beta$  Biological Honor Society Poster Contest Johns Hopkins University, March 2003 (Baltimore, MD).

### ***Book Chapters***

1. Sheehan JP and **Williams BJ**. "Pituitary tumors." Principles and Practice of Stereotactic Radiosurgery. Eds: Chin and Regine. 2<sup>nd</sup> Edition. Springer. 2015.
2. **Williams BJ**, Park DM. "Craniopharyngioma." Medlink Neurology. Ed: Dropcho EJ. <http://www.medlink.com>. Updated 01/2013.
3. **Williams BJ**, Monteith SM, Sheehan JP. "Stereotactic radiosurgery and radiotherapy for pituitary tumors." Pituitary Disorders: Diagnosis and Management. Eds: Laws, Ezzat, Asa, Rio, Michel. Wiley-Blackwell. 2013.
4. **Williams BJ**, Smith JS, Shaffrey CI. "Pediatric Spinal Deformities and Deformity Correction." Spine Surgery: Techniques, Complications Avoidance, and Management. Ed: Benzel E. Elsevier Health Sciences. July 2012.
5. Louis RG, **Williams BJ**, Shaffrey ME. "General approach to surgery." Neuro-oncology. Ed: Packer and Schiff. Wiley. 2012.
6. **Williams BJ**, Louis RG, Shaffrey ME. "Complications of Neurosurgical Oncology." Neurologic Complications of Cancer Therapy. Ed: Quant E, Schiff D, Wen P. Demos Publishing Group. 2011.
7. Medel R, **Williams BJ**, Sheehan JP. "Stereotactic radiosurgery for parasellar and sellar pathology." Approaches to Sellar and Parasellar Pathology. Ed. Sheehan J, Laws E. Thieme. 2011.
8. **Williams, BJ**. Urology. In: Perez MC, Botsford LK, Liaw W, eds. Deja Review: Family Medicine. New York, NY: McGraw-Hill. 2008.