

**CHRISTOPHER M. BONFIELD, M.D.**

*CPH*  
5/15/20

**Assistant Professor  
Director, Pediatric NeuroSpine Program  
Neurosurgery Director, Pediatric Craniofacial Program  
Director, Vanderbilt Global Neurosurgery Program  
Co-director, Vanderbilt Sports Concussion Center/Research Center**

**Departments of Neurological Surgery, Plastic Surgery, and Orthopedics  
Vanderbilt University Medical Center**

**WORK ADDRESS:** Monroe Carrell Jr. Children's Hospital at Vanderbilt  
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**EDUCATION**

**High School** North Hills High School May 1999  
Pittsburgh, Pennsylvania

**Undergraduate** Bachelor of Arts Aug 1999-May 2003  
Summa Cum Laude with Honors  
Biological Basis of Behavior and Classical studies  
University of Pennsylvania  
Philadelphia, Pennsylvania

**Graduate** M.D. Aug 2003-May 2007  
Cum Laude  
University of Pittsburgh School of Medicine  
Pittsburgh, Pennsylvania

**Clinical Training** Internship in General Surgery Jul 2007-June 2008  
Residency in Neurological Surgery Jul 2008-June 2014  
University of Pittsburgh Medical Center  
Pittsburgh, Pennsylvania

**Advanced Clinical Training** Pediatric Craniofacial Surgery Jul 2012-Jun 2013  
Department of Plastic Surgery  
University of Pittsburgh Medical Center  
Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

	Pediatric Spine Surgery Department of Orthopaedics University of British Columbia BC Children's Hospital Vancouver, British Columbia, Canada	Jul 2014-Jun 2015
<b>Fellowship</b>	Fellowship in Complex Spine Surgery Department of Neurosurgery University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	Jul 2011-Dec 2011
	Fellowship in Pediatric Neurosurgery Division of Neurosurgery University of British Columbia BC Children's Hospital Vancouver, British Columbia, Canada	Jul 2014-Jun 2015

#### **LICENSURE**

Pennsylvania	#MT191084	Inactive	2007
Vancouver, BC	#39678	Inactive	2014
Tennessee	#MD0000052590		May 31, 2019 – May 31, 2021

#### **BOARD CERTIFICATION**

American Board of Neurological Surgery (ABNS)	
Written exam	2012
Oral exam	2018
American Board of Pediatric Neurological Surgery (ABPNS)	
Certification exam	2017

#### **ACADEMIC APPOINTMENTS**

<b>Vanderbilt University Medical Center (VUMC)</b>	Aug 2015-present
Assistant Professor of Neurological Surgery	
<b>Vanderbilt University Medical Center (VUMC)</b>	Sept 2017-present
Assistant Professor of Plastic Surgery	
<b>Vanderbilt University Medical Center (VUMC)</b>	Sept 2017-present
Assistant Professor of Orthopedic Surgery	

#### **INTERNATIONAL EXPERIENCE**

<b>Instituto Nacional de Salud del Niño</b>	2013, 2015-2020
Lima, Peru	
Komedoplast	
Neurosurgeon (mission)	
Board of Directors	
<b>Muhimbili, Bugando, Haydom, Mnazi Mmoja</b>	2012, 2016-2019
Tanzania/Zanzibar	

Madaktari Africa, Neurosurgery Education Department  
Neurosurgeon (mission)

**ADMINISTRATIVE LEADERSHIP POSITIONS**

Pediatric NeuroSpine Program, VUMC Director	2016-present
Pediatric Craniofacial Program, VUMC Neurosurgery Director	2016-present
Global Neurosurgery Program, VUMC Director	2016-present
Neurosurgery Resident Applicant Review Committee, VUMC Member	2015-present
Neurosurgery Resident Education Curriculum Committee, VUMC Pediatric neurosurgery leader Pediatric neurosurgery curriculum, author Pediatric neurosurgery senior resident evaluation, author Pediatric neurosurgery junior resident evaluation, author	2016-present
Trauma program, VUMC Pediatric neurosurgery liaison	2017-present
Vanderbilt Sports Concussion Center/Research Center Member	2015-present
Co-Director	2019-present

**PROFESSIONAL ACTIVITIES/ASSOCIATIONS**

Congress of Neurological Surgeons (CNS)	2007-present
American Association of Neurological Surgeons (AANS)	2007-present
AANS/CNS section on Pediatric Neurosurgery	2010-present
2018 Annual Meeting Program Committee	2018
2018 Annual Meeting APP Seminar Co-organizer	2018
International Education Committee	2019-2021
Tennessee Neurosurgical Society (TNS)	2015-present
Canadian Pediatric Neurosurgery Study Group (CPNSG)	2015-present
Vancouver Pediatric Neurosurgery Study Group (VPNSG)	2015-present
Southern Neurosurgical Society (SNS)	2016-present
International Society for Pediatric Neurosurgery (ISPN)	2017-present
Scoliosis Research Society (SRS)	2017-present
Patient Education Committee	2018-2020
AANS/CNS section on Disorders of the Spine and Peripheral Nerves	2018-present
Scientific Program Committee	2019-present
American Society of Pediatric Neurosurgeons (ASPN)	2019-present
Pittsburgh Penguins NHL Hockey Club Assistant neurosurgeon	2009-2014
Nashville Predators NHL Hockey Club Assistant neurosurgeon	2018-present
National Football League	2015-present

Unaffiliated Neurotrauma Consultant (Nashville, TN)

### AWARDS, HONORS

Phi Beta Kappa	
Golden Key International Honour Society	
Benjamin Franklin Scholar	1999-2003
Dean's List	1999-2003
The Charles Claude Guthrie Award	2003
Gertrude & Amy P. Frank Scholarship	2003
AOA Medical Honor Society	2006
The Brinton Prize with highest honors	2007
Outstanding CME presenter- Cumberland Pediatric Foundation	2016

### JOURNAL REVIEWER

1. Journal of Neurosurgery:Pediatrics
2. Journal of Neurosurgery:Spine
3. Child's Nervous System
4. Spine
5. Neurosurgery
6. World Neurosurgery
7. Physician and Sportsmedicine

### BIBLIOGRAPHY

#### MANUSCRIPTS

1. Gobbel G, **Bonfield C**, Carson-Walter EB, Adelson PD. Diffuse alterations in synaptic protein expression following focal traumatic brain injury in the immature rat. Childs Nerv Syst. 2007 Oct;23(10):1171-9.
2. Tormenti MJ, Maserati MB, **Bonfield CM**, Okonkwo DO, Kanter AS. Complications and Radiographic Correction in Adult Scoliosis Following Combined Transpsoas Extreme Lateral Interbody Fusion and Posterior Pedicle Screw Instrumentation. Neurosurgical Focus. 2010 Mar;28(3):E7.
3. Maserati MB, Tormenti MJ, Panczyowski DM, **Bonfield CM**, Gerszten PG. The use of a hybrid dynamic stabilization and fusion system in the lumbar spine: preliminary experience. Neurosurgical Focus. 2010 Jun;28(6):E2.
4. **Bonfield CM**, Levi AD, Arnold PM, Okonkwo DO. Surgical Management of Post-Traumatic Syringomyelia. Spine (Phila Pa 1976). 2010 Oct 1;35(21 Suppl):S245-58.
5. **Bonfield CM**, Amin DV, Hamilton RL, Gerszten, PG. Case Report: Extramedullary Ependymoma Near Conus Medullaris with Lumbar Nerve Root Attachment. Neurosurgery. 2011 Mar;68(3):E831-4.
6. **Bonfield CM**, Gardner PA. Posterior communicating artery aneurysm rupture mimicking apoplexy. Surg Neurol Int. 2011 Nov;2:169.
7. Tormenti MJ, Maserati MB, **Bonfield CM**, Gerszten PC, Moossy JJ, Kanter AS, Spiro RM, Okonkwo DO. Perioperative surgical complications of transforaminal lumbar interbody fusion: a single-center experience. J Neurosurg Spine. 2012 Jan;16(1):44-50.

8. **Bonfield CM**, Engh JA. Pregnancy and brain tumors. *Neurol Clin.* 2012 Aug;30(3):937-46.
9. **Bonfield CM**, Tamber MS, Losee JE. Blindness from Late Presenting Undiagnosed Pancraniosynostosis Mimicking Pseudotumor Cerebri. *J Child Neurol.* 2014 Aug;29(8):NP24-7.
10. Grandhi R, Kanaan H, Shah A, Harrison G, **Bonfield C**, Jovin T, Jankowitz B, Horowitz M. Safety and efficacy of percutaneous femoral artery access followed by Mynx closure in cerebral neurovascular procedures: a single center analysis. *J Neurointerv Surg.* 2014 Jul;6(6):445-50.
11. **Bonfield CM**, Shabani HK, Kanumba ES, Ellegala DB, Nicholas J. The use of IV-tubing as a closed-suction drainage system during neurosurgical cases in Tanzania. *Surg Neurol Int.* 2013 June;4:76.
12. **Bonfield CM**, Lam S, Lin Y, Greene S. The Impact of Attention Deficit Hyperactivity Disorder on Recovery From Mild Traumatic Brain Head Injury. *J Neurosurg Pediatr.* 2013 Aug;12(2):97-102
13. **Bonfield CM**, Lee PS, Adamo MA, Pollack IF. Surgical Treatment of Sagittal Synostosis by extended strip craniectomy: Cranial Index, Nasofrontal Angle, Reoperation Rate and a review of the literature. *J Craniomaxillofac Surg.* 2014 Oct;42(7):1095-101. Epub 2014 Jan 21.
14. **Bonfield CM**, Kumar AR, Gerszten PC. The History of Military Cranioplasty. *Neurosurg Focus.* 2014 Apr;36(4):E18.
15. Tempel ZJ, Gandhoke GS, **Bonfield CM**, Okonkwo DO, Kanter AS. Radiographic and Clinical Outcomes Following Combined Lateral Lumbar Interbody Fusion and Posterior Segmental Stabilization in Patients with Adult Degenerative Scoliosis. *Neurosurg Focus.* 2014 May;36(5):E11.
16. **Bonfield CM**, Naran S, Adetayo OA, Pollack IF, Losee JE. Pediatric skull fractures: the need for surgical intervention, characteristics, complications, and outcomes. *J Neurosurg Pediatr.* 2014 Jun 6:1-7.
17. **Bonfield CM**, Wecht DA, Lunsford LD. Concussion in ice hockey. *Prog Neurol Surg.* 2014 June 28:161-70.
18. **Bonfield CM**, Grandhi R, Okonkwo DO. Charcot Spine after Remote Cervical Spine Injury. *J Trauma Treat.* 2014 March;3:191.
19. **Bonfield CM**, Grandhi R, Jankowitz BT, Tyler-Kabara EC. Traumatic intracranial aneurysm after penetrating brain trauma. *BMJ Case Reports* 2014 Nov 14.
20. Grandhi R, **Bonfield CM**, Newman WC, Okonkwo DO. Surgical management of traumatic brain injury: a review of guidelines, pathophysiology, neurophysiology, outcomes, and controversies. *J Neurosurg Sci.* 2014 Dec;58(4):249-59.
21. **Bonfield CM**, Weiner GM, Bradley MS, Engh JA. Vaginal extrusion of a ventriculo-peritoneal shunt catheter in an adult. *J Neurosci Rural Pract.* 2015 Jan;6(1):97-9 PMID 25552862.
22. Gandhoke, GS, Tempel ZJ, **Bonfield CM**, Madhok R, Okonkwo DO, Kanter AS. Technical nuances of the minimally invasive extreme lateral approach to treat thoracolumbar burst fractures. *Eur Spine J.* 2015 Apr;24 Suppl 3:353-60. Epub 2015 Mar 24 PMID 25801744.
23. **Bonfield CM**, Sharma J, Dobson S. Pediatric intracranial abscesses. *J Infect.* 2015 Jun;71 supp 1:S42-6. Epub 2015 Apr 24 PMID 25917804
24. **Bonfield CM**, Shin SS, Kanter AS. Helmets, Head Injury, and Concussion in Sport. *Phys Sportsmed.* 2015 Jul;43(3):236-46. Epub 2015 Apr 27 PMID 25913712.
25. **Bonfield CM**, Foley LM, Kundu S, Fellows-Mayle W, Hitchens TK, Rohde GK, Grandhi R, Mooney MP. The Influence of Surgical Correction on White Matter Microstructural Integrity

- in Rabbits with Familial Coronal Suture Craniosynostosis. *Neurosurg Focus*. 2015 May;38(5):E3 PMID 25929965
26. Sharma J, **Bonfield CM**, Singhal A, Hukin J, Steinbok P. Intracystic interferon- $\alpha$  treatment leads to neurotoxicity in craniopharyngioma: A case report. *J Neurosurg Pediatr*. 2015 Sep;16(3):301-4. Epub 2015 May 29 PMID 26023721
  27. **Bonfield CM**, Steinbok P. Pediatric cerebellar astrocytoma: A review. *Childs Nerv Syst*. 2015 Oct;31(10):1677-85. Epub 2015 Sep 9 PMID 26351221.
  28. **Bonfield CM**, Sharma J, Cochrane DD, Singhal A, Steinbok P. Minimizing blood transfusions in the surgical correction of craniosynostosis: a 10-year single-center experience. *Childs Nerv Syst*. 2016 Jan;32(1):143-51.
  29. **Bonfield CM**, Cochrane DD, Singhal A, Steinbok P. Preoperative ultrasound localization of the lambda in patients with scaphocephaly: A technical note for minimally invasive craniectomy. *J Neurosurg Pediatr*. 2015 Aug 28;1-3 [Epub ahead of print]
  30. Adetayo OA, Naran S, **Bonfield CM**, Nguyen M, Chang YF, Pollack IF, Losee JE. Pediatric cranial vault fractures: analysis of demographics, injury patterns, and factors predictive of mortality. *J Craniofac Surg*. 2015 Sep;26(6):1840-6. Epub 2015 Aug 6
  31. Lam S, Auffinger B, Tormenti M, **Bonfield C**, Greene S. The relationship between obesity and symptomatic Chiari I malformation in the pediatric population. *J Pediatr Neurosci*. 2015 Oct-Dec;10(4):321-5
  32. Dewan M, Mummareddy N, Wellons JC, **Bonfield CM**. The epidemiology of pediatric global traumatic brain injury: a qualitative review. *World Neurosurg*. 2016 Jul;91:497-509.e1.
  33. Zuckerman SL, Prather CT, Yengo-Kahn AM, Solomon GS, Sills AK, **Bonfield CM**. Sport-related structural brain injury associated with arachnoid cysts: a systematic review and quantitative analysis. *Neurosurg Focus*. 2016 Apr;40(4):E9.
  34. Brown ZD, Bey AK, **Bonfield CM**, Westrick AC, Kelly K, Kelly K, Wellons JC. Racial Disparities in Access among Pediatric Craniosynostosis Patients. *J Neurosurg Pediatr*. 2016 Sep;18(3):269-74.
  35. Greene S, Lee PS, Deibert CP, Tempel ZJ, Zwagerman NT, Florio K, **Bonfield CM**, Emery SP. The impact of mode of delivery on infant neurologic outcomes in myelomeningocele. *Am J Obstet Gynecol*. 2016 Oct;215(4):495.e1-495.e11.
  36. Sharma J, **Bonfield CM**, Steinbok P. Selective Dorsal Rhizotomy for Hereditary Spastic Paraparesis in Children. *Childs Nerv Syst*. 2016 Aug;32(8):1489-94.
  37. **Bonfield CM**, Kondziolka D. Beyond the game: The legacy of Bill Masterton. *Neurosurg Focus*. 2016 Jul;41(1):E9.
  38. Gardner RM, Yengo-Kahn A, **Bonfield CM**, Solomon GS. Comparison of Baseline and Post-Concussion ImPACT Test Scores in Young Athletes with Stimulant-Treated and Untreated ADHD. *Phys Sportsmed*. 2017 Feb;45(1):1-10.
  39. Zuckerman SL, Zalneraitis BH, Totten DJ, Rubel KE, Kuhn AW, Yengo-Kahn AM, **Bonfield CM**, Sills AK, Solomon GS. Socioeconomic status and outcomes after sport-related concussion: a preliminary investigation. *J Neurosurg Pediatr*. 2017 Mar 24;1-10. [Epub ahead of print]
  40. Mummareddy N, Dewan MC, Mercier MR, Naftel RP, Wellons JC, **Bonfield CM**. Scoliosis in myelomeningocele: epidemiology, management, and functional outcome. *J Neurosurg Pediatr*. 2017 Apr 28;1-10. [Epub ahead of print]
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42. Dewan M, Mummareddy N, **Bonfield C**. The influence of pregnancy on women with adolescent idiopathic scoliosis. *Eur Spine J*. 2017 Jun 29. [Epub ahead of print]
43. Yengo-Kahn AM, Gardner RM, Kuhn AW, Solomon GS, **Bonfield CM**, Zuckerman SL. Sport-related structural brain injury: Three cases of subdural hemorrhage in American high school football. *World Neurosurg*. 2017 Jul 20. [Epub ahead of print]
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47. Chotai S, Basem J, Gannon S, Dewan M, Shannon CN, Wellons JC, **Bonfield CM**. Effect of Posterior Fossa Decompression for Chiari Malformation-I on Scoliosis. *Pediatr Neurosurg*. 2018 Jan 4. [Epub ahead of print]
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49. Lopez CD, Kumar A, Lin AY, **Bonfield CM**, Weinzwieg J, Naidich T, Taub PJ. Demystifying the 'The Triple Point:' Technical Nuances of the Fronto-Orbital Advancement. *J Craniofac Surg*. 2018 Feb 27. PMID: 29489569
50. **Bonfield CM**, Pellegrino R, Berkman J, Naftel RP, Shannon CN, Wellons JC 3<sup>rd</sup>. Oral presentation to publication: publication rates of abstract presentations across two pediatric neurosurgical meetings. *J Neurosurg Pediatr*. 2018 Mar 9:1-5 [Epub ahead of print] PMID: 29521604
51. Dallas J, Sborov K, Guidry B, Chotai S, **Bonfield CM**. Complication Rates of Pre-existing Baclofen Pumps and Ventricular Shunts following Scoliosis Correction: A Preliminary Study. *J Neurosurg Pediatr*. 2018 May 4:1-5. [Epub ahead of print] PMID: 29726795
52. Gallant J, Morgan CD, Stoklosa JB, Gannon SR, Shannon CN, **Bonfield CM**. Psychosocial Difficulties in Adolescent Idiopathic Scoliosis: Body Image, Eating Behaviors, and Mood Disorders. *World Neurosurg*. 2018 May 23. [Epub ahead of print] PMID: 29803063
53. Grandhi R, Peitz GW, Foley LM, **Bonfield CM**, Fellows-Mayle W, Hitchens TK, Mooney MP. The influence of suturectomy on age-related changes in cerebral blood flow in rabbits with familial bicoronal suture craniosynostosis: A quantitative analysis. *PLoS One*. 2018 Jun 1;13(6):e0197296. PMID: 29856748
54. Kellogg R, Lee P, Deibert CP, Temple Z, Zwagerman N, **Bonfield CM**, Johnson S, Greene S. Twenty years' experience with myelomeningocele management at a single institution: lessons learned. *J Neurosurg Pediatr*. 2018 Jul 13:1-5 [Epub ahead of print] PMID: 30004312
55. Dewan MC, Baticulon RE, Ravindran K, **Bonfield CM**, Poenaru D, Harkness W. Pediatric neurosurgical bellwether procedures for infrastructure capacity building in hospitals and healthcare systems worldwide. *Childs Nerv Syst*. 2018 Jul 21. [Epub ahead of print] PMID: 30030605

56. Lim J, Davis A, Shannon CN, **Bonfield CM**. Caregiver stress in children with craniosynostosis: A systematic literature review. *Childs Nerv Syst*. 2018 Aug 29. [Epub ahead of print]
57. **Bonfield CM**, Basem J, Cochrane D, Singhal A, Steinbok P. Examining the Need for Routine Intensive Care Admission after Surgical Repair of Nonsyndromic Craniosynostosis. *J Neurosurg Pediatr*. 2018 Dec 1;22(6):616-619. PMID: 30239283
58. Dewan MC, Zuckerman SL, Sivaganesan A, Chatterjee S, Figaji A, **Bonfield CM**. Addressing the global burden of neurosurgical disease beyond the operating theatre. *World Neurosurg*. 2018 Nov 21. [Epub ahead of print] PMID: 30471441
59. Lim J, Tang A, Hysong A, Hale A, **Bonfield C**, Naftel R, Wellons J, Shannon C. The Cost of Hydrocephalus: A Cost-Effectiveness Model for Evaluating Surgical Techniques. *J Neurosurg Pediatr*. 2018 Oct 1:1-10. [Epub ahead of print] PMID: 30497214
60. Reynolds RA, Stack LB, **Bonfield CM**. Medical photography with a cell phone: Useful techniques and what neurosurgeons need to know about HIPAA. *J Neurosurg*. 2019 Jan 4:1-5. [Epub ahead of print] PMID: 30611147
61. Renne B, Radic J, Agrawal D, Albrecht B, **Bonfield CM**, Cohrs G, Davis T, Gupta A, Hebb ALO, Lamberti-Pasculli M, Knerlich-Lukoschus F, Lindsay S, McNeely PD, Pillai S, Rai HIS, Sborov KD, Vitali A, Walling S, Woerdeman P, Suryaningtyas W, Cochrane D, Singhal A, Steinbok P. Cerebellar mutism after posterior fossa tumor resection in children: a multicentered international retrospective study to determine possible modifiable factors. *Childs Nerv Syst*. 2019 Jan 18. PMID: 30659354
62. Pourtaheri, N, Wang DZ, Lesko RP, **Bonfield CM**, Taub PJ, Kumar AR. Unilateral Coronal Craniosynostosis in an Apert-like patient. *Plast Surg (Oakv)*. 2019 Feb;27(1):78-82. Epub 2018 Oct 3. PMID: 30854365
63. Liles C, Dallas J, Hale AT, Gannon S, **Bonfield C**, Shannon CN. The Economic Impact of Open vs. Endoscopic-Assisted Craniosynostosis Surgery. *J Neurosurg Pediatr*. 2019 May 31:1-8. [Epub ahead of print] PMID: 31151096
64. Dallas J, Mummareddy N, Yengo-Kahn AM, Dambrino RJ 4th, Lopez AM, Chambless LB, Berkman R, Chitale RV, **Bonfield CM**, Offodile RS, Durham S, Wellons JC 3rd, Thompson RC, Zuckerman SL. Neurosurgery Elective for Preclinical Medical Students With and Without a Home Neurosurgery Program. *World Neurosurg*. 2019 Jul 19. PMID: 31330335
65. Strahle JM, Taiwo R, Averill C, Torner J, Shannon CN, **Bonfield CM**, Tuite GF, Bethel-Anderson T, Rutlin J, Brockmeyer DL, Wellons JC, Leonard JR, Mangano FT, Johnston JM, Shah MN, Iskandar BJ, Tyler-Kabara EC, Daniels DJ, Jackson EM, Grant GA, Couture DE, Adelson PD, Alden TD, Aldana PR, Anderson RCE, Selden NR, Baird LC, Bierbrauer K, Chern JJ, Whitehead WE, Ellenbogen RG, Fuchs HE, Guillaume DJ, Hankinson TC, Iantosca MR, Oakes WJ, Keating RF, Khan NR, Muhlbauer MS, McComb JG, Menezes AH, Ragheb J, Smith JL, Maher CO, Greene S, Kelly M, O'Neill BR, Krieger MD, Tamber M, Durham SR, Olavarria G, Stone SSD, Kaufman BA, Heuer GG, Bauer DF, Albert G, Greenfield JP, Wait SD, Van Poppel MD, Eskandari R, Mapstone T, Shimony JS, Dacey RG, Smyth MD, Park TS, Limbrick DD. Radiologic and clinical predictors scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2019 Aug 16:1-8. [Epub ahead of print] PMID: 31330335
66. Dallas J, Shannon CN, **Bonfield CM**. The Effect of Hospital Characteristics on Pediatric Neuromuscular Scoliosis Fusion Cost. *J Neurosurg Pediatr*. 2019 Sep 27:1-19 [Epub ahead of print] PMID:31561229



67. Sellyn GE, Hale AT, Tang AR, Waters A, Shannon CN, **Bonfield CM**. Pediatric Thoracolumbar Spine Surgery and Return to Athletics: A Systematic Review. *J Neurosurg Pediatr*. 2019 Sep 27:1-11. [Epub ahead of print] PMID:31561230
68. Lan M, Dambrino RJ 4th, Youssef A, Yengo-Kahn A, Dewan MC, Ehrenfeld J, **Bonfield CM**, Zuckerman SL. Repeat surgery after decompressive craniectomy for traumatic intracranial hemorrhage: outcomes and predictors. *World Neurosurg*. 2019 Oct 8. PMID:31604134
69. Dallas J, Mercer E, Reynolds RA, Wellons JC, Shannon CN, **Bonfield CM**. Should ondansetron use be a reason to admit children with isolated linear skull fractures? *J Neurosurg Pediatr*. 2019 Dec 13:1-7. [Epub ahead of print] PMID:31835245
70. Ahluwalia R, Kiely C, Foster J, Gannon S, Wiseman AL, Shannon CN, **Bonfield CM**. Positional Posterior Plagiocephaly: A Single Center Review. *J Neurosurg Pediatr*. PMID: 32005011
71. Mkony D, Magogo J, Leidinger A, **Bonfield CM**, Zuckerman SL, Hartl R. Delayed death after hyena bite in 3-year-old Tanzanian boy: the unique reality of neurosurgery in a resource-limited setting. *J Neurosurg Pediatr*. 2020 Feb 28:1-4. PMID:32109867
72. Hale AT, Adelson PD, Albert GW, Aldana PR, Alden TD, Anderson RCE, Bauer DF, **Bonfield CM**, Brockmeyer DL, Chern JJ, Couture DE, Daniels DJ, Durham SR, Ellenbogen RG, Eskandari R, George TM, Grant GA, Graupman PC, Greene S, Greenfield JP, Gross NL, Guillaume DJ, Heuer GG, Iantosca M, Iskandar BJ, Jackson EM, Johnston JM, Keating RF, Leonard JR, Maher CO, Mangano FT, McComb JG, Meehan T, Menezes AH, O'Neill B, Olavarria G, Park TS, Ragheb J, Selden NR, Shah MN, Smyth MD, Stone SSD, Strahle JM, Wait SD, Wellons JC, Whitehead WE, Shannon CN, Limbrick DD; Park-Reeves Syringomyelia Research Consortium Investigators. Factors associated with syrinx size in pediatric patients treated for Chiari type I malformation and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2020 Mar 6:1-11. PMID:32114543
73. Yengo-Kahn AM, Plackis AC, **Bonfield CM**, Reddy SK. Correction of a vertex encephalocele related to amniotic band syndrome. *BMJ Case Rep*. 2020 Mar 31;13(3). PMID: 32234859
74. Strahle JM, Taiwo R, Averill C, Torner J, Gewirtz JI, Shannon CN, **Bonfield CM**, Tuite GF, Bethel-Anderson T, Anderson RCE, Kelly MP, Shimony JS, Dacey RG, Smyth MD, Park TS, Limbrick DD; Park-Reeves Syringomyelia Research Consortium. Radiological and clinical associations with scoliosis outcomes after posterior fossa decompression in patients with Chiari malformation and syrinx from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2020 Apr 10:1-7. [Epub ahead of print] PMID: 32276246
75. Chotai S, Chan E, Ladner T, Hale A, Gannon SR, **Bonfield CM**, Naftel RP, Wellons JC. Timing of Syrinx Reduction and Stabilization after Posterior Fossa Decompression for Pediatric Chiari Malformation Type-I. *J Neurosurg Pediatr*. 2020 Apr 24:1-7. [Epub ahead of print] PMID: 32330878
76. Ahluwalia R, Foster J, Sherburn MM, Sellyn GE, Kelly K, Abdul Ghani MO, Wiseman AL, Shannon CN, **Bonfield CM**. Deformational Brachycephaly: The Clinical Utility of Cranial Index. *J Neurosurg Pediatr*. 2020 May 1:1-5. [Epub ahead of print] PMID: 32357338
77. Foster J, Ahluwalia R, Sherburn M, Kelly K, Sellyn G, Kiely C, Wiseman AL, Gannon S, Shannon CN, **Bonfield CM**. Pediatric Cranial Deformations: Demographic Associations. Accepted to *J Neurosurg Pediatr*.

## BOOK CHAPTERS

1. Kanter AS, Uribe JS, **Bonfield CM**, Mosely Y, Taylor WR. (2013). Extreme Lateral Interbody Fusion Corpectomy: Clinical Experience and Outcomes. In JA Goodrich and IJ Volcan (eds.), *Extreme Lateral Interbody Fusion* (2<sup>nd</sup> ed.). St. Louis: Quality Medical Pub.
2. **Bonfield CM**, Tyler-Kabara E. (2013). Unusual Presentations of the Chiari I Malformation. In RS Tubbs and WJ Oakes (eds.) *The Chiari Malformations*. New York: Springer Science + Business Media.
3. **Bonfield CM**, Stoklosa JB. (2015). Attention Deficit Hyperactivity Disorder and Traumatic Brain Injury: Connections, Predictors, and Outcomes. In F Lopez-Munoz and CA Gonzalez (eds.), *Attention Deficit Hyperactivity Disorder (ADHD): Epidemiology, Treatment and Prevention*. Hauppauge: Nova Science Publishers, Inc.
4. Magarik JA, **Bonfield CM**. (2016). Minimally-Invasive Craniosynostosis Surgery: A Review. In J Lee (ed.), *Craniosynostosis and Rare Craniofacial Clefts*. Hauppauge: Nova Science Publishers, Inc.
5. Zuckerman SL, Yengo-Kahn AM, Kuhn AW, **Bonfield CM**. (2017) Arachnoid cysts and risk of sport-related brain injury. In Wester (ed.), *Arachnoid Cysts – Clinical and Surgical Management*. London: Elsevier.
6. Mummareddy N, Zuckerman SL, **Bonfield CM**. (2019). Post-laminectomy Kyphosis in Children. In Duncan (ed.), *Advances in Health and Diseases Volume 16*. Hauppauge: Nova Science Publishers, Inc.
7. Ahluwalia R, Mummareddy N, **Bonfield CM**, Yengo-Kahn AM. (2020). Sport-related Traumatic Brain Injury. In *eLS*. Chichester: John Wiley & Sons.

## ORAL PRESENTATIONS

1. Tormenti MJ, **Bonfield CM**, Kanter AS, Spiro RM, Okonkwo DO. Intraoperative CT-Based Image Guidance for Thoracolumbar Pedicle Screws and Iliac Instrumentation in Spinal Deformity. Oral Presentation, Pennsylvania Neurosurgical Society Annual Meeting, Hershey, PA, 2009
2. **Bonfield CM**, Tormenti MJ, Maserati MB, Okonkwo DO, Kanter AS. Curve correction in Adult Scoliosis Utilizing Extreme Lateral Interbody Fusion (XLIF) and Posterior Pedicle Screw Instrumentation. Oral presentation, 4<sup>th</sup> World Congress for Endoscopic Surgery of Brain, Skull Base, and Spine, Pittsburgh, PA, 2010
3. **Bonfield CM**, Greene S. The Impact of Attention Deficit-Hyperactivity Disorder on Recovery From Closed Head Injury. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery, Cleveland, OH, 2010
4. **Bonfield CM**, Maserati MB, Tormenti MJ, Okonkwo DO, Kanter AS. Stand-alone XLIFs for the Treatment of Adult Degenerative Scoliosis. Oral presentation, Latin American Society for Advancement of Spine Surgery annual Meeting, Rio de Janeiro, Brazil, 2011
5. **Bonfield CM**, Okonkwo DO, Kanter AS. Correlation Between the Thoracolumbar Injury Classification and Severity Score (TLICS) and Delayed Surgery for Acute Thoracolumbar Compression and Burst Fractures in Patients Without Neurologic Injury. Oral presentation, CNS, Chicago, IL, 2012
6. **Bonfield CM**, Rottgers SA, MacIsaac Z, Pollack IF, Tamber MS, Kumar AR. Examining the Utility of Dynamic Cranioplasty for the Treatment of Sagittal Synostosis: A Retrospective Cohort Comparison Study Between Reverse Pi Cranioplasty and Extended Strip Cranioplasty. Oral presentation, International Society of Craniofacial Surgery annual meeting, Jackson Hole, WY, 2013

7. **Bonfield CM**, Grandhi R, Foley LM, Kundu S, Fellows-Mayle W, Hitchens TK, Rohde GK, Mooney MP. The Influence of Suturectomy on Cortical Blood Flow in Rabbits with Familial Coronal Craniosynostosis. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery, Jacksonville, FL, 2014
8. **Bonfield CM**. Doctor, do you let your child play football? Parent views on sports participation: a survey. Oral presentation, Canadian Pediatric Neurosurgery Study Group (CPNSG) annual meeting, Whistler, BC 2016
9. Zuckerman SL, Yengo-Kahn AM, Buckley TA, Solomon GS, Sills AK, **Bonfield CM**, Kerr ZY. Predictors of Post-Concussion Syndrome in Collegiate Student-Athletes. Oral presentation, Southern Neurosurgical Society annual meeting, San Antonio, TX, 2016
10. Zuckerman SL, Prather CT, Yengo-Kahn AM, Solomon GS, Sills AK, **Bonfield CM**. Sport-Related Structural Brain Injury Associated with Arachnoid Cysts: A Systematic Review and Quantitative Analysis. Oral presentation, Southern Neurosurgical Society annual meeting, San Antonio, TX, 2016
11. Sharma J, **Bonfield CM**, Steinbok P. Selective Dorsal Rhizotomy for Hereditary Spastic Paraparesis in Children. Oral Presentation, ISPN annual meeting, Kobe, Japan, 2016
12. **Bonfield CM**. Publication rate of oral presentations at the International Society for Pediatric Neurosurgery (ISPN) annual meetings. Oral Presentation, ISPN annual meeting, Kobe, Japan, 2016
13. Zuckerman SL, Prather CT, Yengo-Kahn AM, Solomon GS, Sills AK, **Bonfield CM**. Pediatric Sport Related Structural Brain Injury Associated with Arachnoid Cysts: A Systematic Review and Quantitative Analysis. Oral Presentation, ISPN annual meeting, Kobe, Japan, 2016
14. Chotai S, Sborov K, **Bonfield CM**, Wellons JC, Naftel RP. Unplanned Readmission and Return to Operating Room within 90-days of Pediatric Neurosurgery. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery, Orlando, FL, 2016
15. **Bonfield CM**, Shannon CN, Reeder RW, Wellons JC for HCRN. CSF Diversion in Patients with Craniosynostosis: An Analysis from the HCRN Prospective Registry. Oral Presentation, ASPN annual meeting, Maui, HI, 2017
16. **Bonfield CM**, Cochrane D, Singhal A, Steinbok P. Examining the Need for Routine Intensive Care Admission after Surgical Repair of Single Suture or Nonsyndromic Craniosynostosis. Oral Presentation, ISPN annual Meeting, Denver CO, 2017
17. Renne B, Radic J, Agrawal D, Albrecht B, **Bonfield C**, Cohrs G, Davis T, Gupta A, Hebb A, Knerlich-Lukoschus F, Lindsay S, McNeely D, Pillai S, Rai H, Sborov K, Vitali A, Walling S, Cochrane D, Singhal A, Steinbok P. Cerebellar Mutism after Posterior Fossa Tumor Resection in Children: A Multi-center International Retrospective Study to Determine Possible Modifiable Factors. Oral Presentation, ISPN annual Meeting, Denver CO, 2017
18. Dallas J, Sborov K, Guidry B, Chotai S, **Bonfield CM**. Complication Rates of Pre-existing Baclofen Pumps and Ventricular Shunts following Scoliosis Correction: A Preliminary Study . Oral presentation, Canadian Pediatric Neurosurgery Study Group (CPNSG) annual meeting, Whistler, BC 2018
19. Grandhi R, Foley L, Peitz G, **Bonfield C**, Fellow-Mayle W, Hitchens TK, Mooney MP. The Influence of Surgical Correction on Age-related Changes in Cerebral Blood Flow in Rabbits with Familial Bicoronal Suture Craniosynostosis: A Quantitative Analysis. Oral presentation, Southern Neurosurgical Society annual meeting, Marco Island, FL, 2018
20. Dewan MC, Baticulon RE, Ravindran K, **Bonfield CM**, Poenaru D, Harkness W. Pediatric neurosurgical bellwether procedures for infrastructure capacity building in hospitals and

- healthcare systems worldwide. Oral Presentation, ISPN annual Meeting, Tel Aviv, Israel, 2018
21. Lim J, Davis A, Shannon CN, **Bonfield CM**. Caregiver stress in children with craniosynostosis: A systematic literature review. Oral Presentation, ISPN annual Meeting, Tel Aviv, Israel, 2018
  22. Liles C, Dallas J, Hale AT, Gannon S, Stevenson D, **Bonfield C**, Shannon CN. The Economic Impact of Open vs. Endoscopic-Assisted Craniosynostosis Surgery. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Nashville, TN, 2018
  23. Niconchuk JA, Romanelli TM, **Bonfield CM**, Reddy SK. Anesthetic management of an endoscopic repair of bicoronal craniosynostosis in a patient with Apert syndrome. Oral presentation, Society for Pediatric Anesthesia Annual Meeting. Houston, TX, 2019
  24. Lim J, Tang A, Sellyn, G, Davis A, Gannon, S, Shannon CN, **Bonfield CM**. Caregiver stress in children with craniosynostosis. Oral presentation, Canadian Pediatric Neurosurgery Study Group (CPNSG) annual meeting, Banff, AB 2019
  25. Sellyn G, Davis A, Feldman A, Havemann C, Tang AR, Gannon S, Shannon CN, **Bonfield CM**. Caregiver stress in children with craniosynostosis. Oral presentation, International Society of Craniofacial Surgery (ISCFS) bi-annual meeting, Paris, FR 2019
  26. Dallas J, Mercer E, Reynolds RA, Wellons JC, Shannon CN, **Bonfield CM**. Should ondansetron use be a reason to admit children with isolated linear skull fractures? Oral presentation, ISPN annual Meeting, Birmingham, UK 2019
  27. Hale AT, **Bonfield CM**, Brockmeyer DL, Grant GA, Leonard JR, Maher CO, Park TS, Smyth MD, Strahle JM, Wellons JC, Shannon CN, Limbrick DD. Predictors of syring resolution, regression, stability and progression in patients with Chiari malformation type I: A study from the Park-Reeves Syringomyelia Research Consortium. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  28. Tang AR, Reynolds RA, Vance EH, **Bonfield CM**, Shannon CN. Admission Trends in Pediatric Isolated Linear Skull Fractures across the United States. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  29. Yengo-Kahn A, Dennis J, Hibshman N, Zuckerman SL, **Bonfield CM**. Novel treatments for post-concussion syndrome: Using a phenome-wide association study (PheWAS) to generate new hypotheses in a pediatric population. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  30. Kiely C, Ahluwalia R, Foster J, Gannon S, **Bonfield CM**. Prevalence & Severity of Positional Posterior Plagiocephaly: A Single Center Review. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  31. Yengo-Kahn A, Vance EH, Mummareddy N, Bezzerides M, Vukovic A, Penrod C, Gannon S, **Bonfield CM**. Improving Discharge Readiness After Concussion Diagnosis In The Pediatric Emergency Department. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  32. Yengo-Kahn A, Monk SH, Harris GR, Wiseman A, Wu J, Kelly P, Gannon SR, Shannon CN, **Bonfield CM**. The Media Influence: How Do Parents Decide Whether to Allow A Child to Participate in Collision Sports. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Phoenix, AZ, 2019
  33. Kiely C, Ahluwalia R, Foster J, Gannon S, **Bonfield CM**. Incidence and demographic analysis of deformational skull deformities. Oral presentation, Canadian Pediatric Neurosurgery Study Group (CPNSG) annual meeting, Whistler, BC, 2020

34. Morris BL, Reddy SK, **Bonfield CM**, Emerson BR. Postoperative hyperthermia and death in an infant with megalencephaly-capillary malformation (MCAP). Oral presentation, Society for Pediatric Anesthesia Annual Meeting, Paradise Island, Bahamas, 2020
35. Sobey JH, Menser CC, Hartzog AJ, Hocking KM, Niconchuk JA, **Bonfield CM**, Stricker PA, Reddy SK. Antifibrinolytics are not associated with a reduced need for transfusion or blood loss in minimally-invasive endoscopic-assisted craniectomy for repair of single-suture craniosynostosis. Oral presentation, Society for Pediatric Anesthesia Annual Meeting, Paradise Island, Bahamas, 2020
36. Roberts DA, Staudt GE, **Bonfield CM**, Reddy SK. The importance of a multidisciplinary approach to the perioperative management of an infant with Jacobsen syndrome. Oral presentation, Society for Pediatric Anesthesia Annual Meeting, Paradise Island, Bahamas, 2020
37. Dallas J, Shannon CN, **Bonfield CM**. The Effect of Hospital Characteristics on Pediatric Neuromuscular Scoliosis Fusion Cost. AANS/CNS Section on Spine Annual Meeting, Las Vegas, NV 2020

## POSTER PRESENTATIONS

1. Tormenti MJ, Maserati MB, **Bonfield CM**, Okonkwo DO, Kanter AS. Changes in Lumbar Lordosis and Foraminal Height following Extreme Lateral (XLIF) and Transforaminal (TLIF) Lumbar Interbody Fusion. Poster, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve, Orlando, FL, 2010
2. Tormenti MJ, **Bonfield CM**, Lam SK, Chang YF, Greene S. Putative Relationship Between Chiari I Malformation and Obesity in Teenagers. Poster, AANS/CNS Section on Pediatric Neurosurgery, Cleveland, OH, 2010
3. **Bonfield CM**, Lee PS, Adamo MA, Pollack IF. Examining the Utility of Extended Strip Craniectomy for the Treatment of Sagittal Synostosis: Cranial Index, Nasofrontal Angle, and Reoperation Rate. Oral poster, CNS, San Francisco, CA, 2013
4. **Bonfield CM**, Grieves M, Tamber MS, Kumar AR. The PITT Protocol for Decreasing Morbidity in High Risk Trans-cranial Frontofacial Advancement (Monobloc) and Le Fort III Facial Advancement. Poster, AANS/CNS Section on Pediatric Neurosurgery, Toronto, ON, 2013
5. **Bonfield CM**, Naran S, Adetayo OA, Pollack IF, Losee JE. Pediatric skull fractures: the need for surgical intervention, characteristics, complications, and outcomes. Poster, AANS, San Francisco, CA, 2014
6. **Bonfield CM**, Sharma J, Singhal A, Cochrane DD, Steinbok P. Minimizing Blood Transfusions in the Surgical Correction of Craniosynostosis: a Single Center Experience. Poster, AANS/CNS Section on Pediatric Neurosurgery, Jacksonville, FL, 2014
7. Yengo-Kahn AM, Hale AT, Zalneraitis BH, Zuckerman SL, **Bonfield CM**, Sills AK, Solomon GS. The Sideline Concussion Assessment Tool: A Systematic Review. Poster, Southern Neurosurgical Society annual meeting, San Antonio, TX, 2016
8. Brown ZD, Bey AK, Westrick AC, Kelly K, Kelly K, Wellons JC, **Bonfield CM**. Differences in Access among African American and Caucasian Pediatric Craniosynostosis Patients. Poster, Southern Neurosurgical Society annual meeting, San Antonio, TX, 2016
9. Prablek M, Prather C, Rattani A, Chotai S, Martus J, **Bonfield CM**. Surgical Correction of Scoliosis in Children with Syring without Prior Neurosurgical Decompression. Poster, AANS/CNS Section on Pediatric Neurosurgery, Orlando, FL, 2016

10. **Bonfield CM**, Pellegrino R, Berkman J, Naftel RP, Shannon CN, Wellons JC. Oral Presentation to Publication: Comparing Rates Across Pediatric Neurosurgical Meetings. Poster, AANS/CNS Section on Pediatric Neurosurgery, Orlando, FL, 2016
11. Chotai S, Basem J, Gannon S, Dewan M, Shannon CN, Wellons JC, **Bonfield CM**. Effect of Posterior Fossa Decompression for Chiari Malformation-I on Scoliosis. Poster, AANS/CNS Section on Pediatric Neurosurgery, Orlando, FL, 2016
12. Chan EW, Gannon SR, Shannon CN, Martus JE, Mencia GA, **Bonfield CM**. The impact of curve severity on obstetric complications and regional anesthesia utilization in pregnant patients with adolescent idiopathic scoliosis: a preliminary analysis. Poster, AANS, New Orleans, LA, 2018
13. Gallant J, Morgan CD, Stoklosa JB, Gannon SR, Shannon CN, **Bonfield CM**. Psychosocial Difficulties in Adolescent Idiopathic Scoliosis: Body Image, Eating Behaviors, and Mood Disorders. Oral Poster, ISPN annual Meeting, Tel Aviv, Israel, 2018
14. Reynolds R, Dixon M, Gannon S, **Bonfield CM**, Naftel R, Wellons J, Shannon C. The roles of socioeconomic status and parental concern in pediatric hydrocephalus management. Poster, AANS/CNS Section on Pediatric Neurosurgery, Nashville, TN, 2018
15. Reynolds RA, Stack LB, **Bonfield CM**. Medical photography with a cell phone: Useful techniques and what neurosurgeons need to know about HIPAA. Poster, AANS/CNS Section on Pediatric Neurosurgery, Nashville, TN, 2018

## LECTURES

### STUDENT/RESIDENT/FELLOW EDUCATION

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| 1. Rare cervical tumors in infants<br>Department of Surgery Rounds<br>British Columbia Children's Hospital. Vancouver, BC  | 2014 |
| 2. Surgical resection of posterior fossa tumors<br>Multidisciplinary Neuro ICU Conference<br>Vanderbilt University Medical Center. Nashville, TN                       | 2016 |
| 3. Spine injury and neurogenic shock<br>Pediatrics Resident Educational Lecture Series<br>Vanderbilt University Medical Center. Nashville, TN                          | 2016 |
| 4. Traumatic brain injury and decompressive craniectomy<br>Neurosurgery Resident Journal Club<br>Vanderbilt University Medical Center. Nashville, TN                   | 2017 |
| 5. Lumbar anatomy and posterior instrumentation<br>Neurosurgery Resident Journal Club and Cadaver Lab<br>Vanderbilt University Medical Center. Nashville, TN           | 2017 |
| 6. Introduction to Adolescent Idiopathic Scoliosis<br>Life and a Career in Neurosurgery: Facts and Fictions<br>Vanderbilt University School of Medicine. Nashville, TN | 2017 |
| 7. International Neurosurgery<br>Life and a Career in Neurosurgery: Facts and Fictions<br>Vanderbilt University School of Medicine. Nashville, TN                      | 2017 |
| 8. Introduction to Scoliosis<br>Physical Medicine and Rehabilitation Resident Didactic Conference<br>Vanderbilt University Medical Center. Nashville, TN               | 2018 |

9. Thoraco-lumbar spine anatomy and posterior instrumentation 2018  
Neurosurgery Resident Journal Club and Cadaver Lab  
Vanderbilt University Medical Center. Nashville, TN
10. Scoliosis 2018  
Life and a Career in Neurosurgery: Facts and Fictions  
Vanderbilt University School of Medicine. Nashville, TN
11. International Neurosurgery 2018  
Life and a Career in Neurosurgery: Facts and Fictions  
Vanderbilt University School of Medicine. Nashville, TN
12. Pediatric spine trials (MOMS and BrAIST) 2018  
Neurosurgery Resident Journal Club  
Vanderbilt University Medical Center. Nashville, TN
13. Pediatric spine trauma and spinal shock 2018  
Multidisciplinary Neuro ICU Conference  
Vanderbilt University Medical Center. Nashville, TN
14. Unique Characteristics of Pediatric Spine Trauma 2019  
Pediatric Emergency Medicine Fellows Conference  
Vanderbilt University Medical Center. Nashville, TN
15. Craniosynostosis for the Geneticist 2019  
Genetic Counseling Graduate Program Course: Human Development  
Vanderbilt University. Nashville, TN
16. Introduction to Scoliosis 2019  
Life and a Career in Neurosurgery: Facts and Fictions  
Vanderbilt University School of Medicine. Nashville, TN
17. International Neurosurgery 2019  
Life and a Career in Neurosurgery: Facts and Fictions  
Vanderbilt University School of Medicine. Nashville, TN
18. Endoscopic treatments of hydrocephalus 2020  
Neurosurgery Resident Journal Club  
Vanderbilt University School of Medicine. Nashville, TN

## INTRAMURAL

1. Myelomeningocele 2009  
Department of Neurosurgery Grand Rounds.  
University of Pittsburgh Medical Center. Pittsburgh, PA
2. Scoliosis and the XLIF 2010  
Department of Neurosurgery Grand Rounds.  
University of Pittsburgh Medical Center. Pittsburgh, PA
3. Dr. Bonfield, I presume? Neurosurgery in East Africa 2012  
Department of Neurosurgery Grand Rounds.  
University of Pittsburgh Medical Center. Pittsburgh, PA
4. Craniosynostosis and the Neurosurgeon 2013  
Department Neurosurgery Grand Rounds.  
University of Pittsburgh Medical Center. Pittsburgh, PA
5. Pearls from Residency 2014  
Department of Neurosurgery Grand Rounds  
University of Pittsburgh Medical Center. Pittsburgh, PA

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| 6. From East to West: Neurosurgery Residency<br>Division of Neurosurgery Grand Rounds<br>University of British Columbia. Vancouver, BC                                | 2014 |
| 7. Endoscopic craniectomies for sagittal craniosynostosis<br>Division of Neurosurgery Grand Rounds<br>University of British Columbia. Vancouver, BC                   | 2015 |
| 8. An Introduction to Pediatric Scoliosis<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN                           | 2015 |
| 9. Craniofacial Surgery in Peru<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN                                     | 2016 |
| 10. Pediatric NeuroSpine<br>Operating Room Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN  | 2016 |
| 11. Pediatric Spine Trauma<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN  | 2017 |
| 12. Endoscopic-Assisted Minimally-Invasive Craniosynostosis Surgery<br>Operating Room Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN             | 2017 |
| 13. Endoscopic-Assisted Minimally-Invasive Craniosynostosis Surgery<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN | 2018 |
| 14. Sagittal Balance<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN  | 2019 |
| 15. Adult Tethered Spinal Cords<br>Department of Neurosurgery Grand Rounds<br>Vanderbilt University Medical Center. Nashville, TN                                     | 2020 |

## NATIONAL

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| 1. Unique Characteristics in Pediatric Spine Trauma<br>Department of Neurosurgery Grand Rounds<br>Washington University. St. Louis, MO              | 2014 |
| 2. Deformational Plagiocephaly and Craniosynostosis<br>Cumberland Pediatric Foundation: CME lecture<br>Nashville, TN                                | 2015 |
| 3. Neurosurgical considerations in pediatric scoliosis<br>Tennessee Neurosurgical Society Annual Meeting<br>Nashville, TN                           | 2016 |
| 4. Neurosurgical Red Flags in Sports-Related Head Trauma<br>Vanderbilt Sports Concussion Center: Sport Concussion State of Science<br>Nashville, TN | 2016 |
| 5. Controversies in Pediatric Traumatic Brain Injury<br>Pediatric Trauma Society Annual Meeting   | 2016 |



- Nashville, TN
6. Craniosynostosis and Neurosurgery: ICP 2016  
American Association for Pediatric Ophthalmology and Strabismus Annual Meeting  
Nashville, TN
  7. Introduction to Pediatric Scoliosis 2017  
Cumberland Pediatric Foundation: CME lecture  
Murfreesboro, TN
  8. Adolescent Idiopathic Scoliosis 2017  
Tennessee Neurosurgical Society Annual Meeting  
Nashville, TN
  9. Intraoperative Monitoring: A Spine Surgeon's Perspective 2018  
American Society of Neurophysiological Monitoring Fall Symposium  
Nashville, TN
  10. Unique Characteristics of Pediatric Spine Trauma 2018  
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting: APP Seminar  
Nashville, TN
  11. Pediatric Spine Coding 2018  
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting: Coding Course  
Nashville, TN
  12. International Neurosurgery 2019  
Tennessee Neurosurgical Society Annual Meeting  
Franklin, TN
  13. Surgery for Craniosynostosis 2020  
Hanger Live: Annual National Meeting  
Nashville, TN

## INTERNATIONAL

1. Hydrocephalus and Craniosynostosis 2015  
Department of Plastic Surgery Grand Rounds  
Instituto Nacional de Salud del Niño. Lima, Peru
2. Back pain and lumbar stenosis 2016  
Department of Neurosurgery Grand Rounds  
Bugando Hospital. Mwanza, Tanzania
3. Decompressive Hemicraniectomy 2017  
4<sup>th</sup> Annual Hands-on Neurosurgery and Neurotrauma Course  
Dar es Salaam, Tanzania
4. Pediatric Spine Trauma 2017  
4<sup>th</sup> Annual Hands-on Neurosurgery and Neurotrauma Course  
Dar es Salaam, Tanzania
5. The Lumbar Spine 2018  
Neurosurgery, Education, and Development (NED) Grand Rounds  
Zanzibar, Tanzania
6. Pediatric Spine Trauma 2018  
5<sup>th</sup> Annual Hands-on Neurosurgery and Neurotrauma Course  
Dar es Salaam, Tanzania
7. Back pain and lumbar stenosis 2019  
Neurosurgery, Education, and Development (NED) and Orthopedics Grand Rounds

- Zanzibar, Tanzania
8. Pediatric Neurosurgical Emergencies 2019  
6<sup>th</sup> Annual Hands-on Neurosurgery and Neurotrauma Course  
Dar es Salaam, Tanzania
  9. Pediatric Thoracolumbar Spine Trauma 2019  
6<sup>th</sup> Annual Hands-on Neurosurgery and Neurotrauma Course  
Dar es Salaam, Tanzania
  10. Pediatric Spine Trauma and Neurogenic Shock 2019  
International Congress on Early Onset Scoliosis  
Atlanta, GA

#### **MEETING SESSION MODERATOR**

1. Craniofacial Scientific Session 2018  
ISPN annual Meeting  
Tel Aviv, Israel
2. Scientific Session X: Miscellaneous 2018  
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting  
Nashville, TN
3. Top Abstract Session 3 2019  
AANS/CNS Section on Spine Annual Meeting  
Miami, FL
4. General Spine Surgery 2 2019  
AANS/CNS Section on Spine Annual Meeting  
Miami, FL
5. International Pediatric Neurosurgery Session 2019  
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting  
Phoenix, AZ
6. Scientific session VIII: Trauma/Topics in Neurosurgical Care 2019  
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting  
Phoenix, AZ
7. General Spine Surgery 1/Trauma/Spinal Cord Injury 2020  
AANS/CNS Section on Spine Annual Meeting  
Las Vegas, NV

#### **MEDIA/OTHER**

1. Concussions May Cause More Brain Damage in Kids With ADHD 2013  
TIME Healthland (online)
2. ADHD May Be Tied to Longer-Lasting Head Injury 2013  
U.S. News & World Report Health Day (online)
3. Global Good 2018  
Vanderbilt Medicine Magazine
4. Neurosurgeons bring resources, hope to Tanzania 2019  
Vanderbilt Sections of Surgical Sciences Winter Newsletter
5. Life After Adolescent Idiopathic Scoliosis 2019  
Scoliosis Research Society Live Webinar Panelist/Facebook broadcast
6. Thoracolumbar Spine Trauma in Children Homepage Author 2019

- The ISPN Guide to Neurosurgery ([www.ispn.guide](http://www.ispn.guide))
7. Pioneers of Hope Profile 2019  
Hope Magazine of Vanderbilt Children's Hospital
  8. International Neurosurgery 2019  
VUMC Neurological Surgery Residency Program News (Fall)
  9. Safety and Considerations in AIS Surgery 2020  
Scoliosis Research Society Live Webinar Panelist/Facebook broadcast