

CHRISTOPHER M. BONFIELD, M.D.

**Associate Professor
Director, Pediatric NeuroSpine Program
Neurosurgery Director, Pediatric Craniofacial Program
Director, Neurosurgery Adult and Pediatric Scoliosis and Spine Deformity Program
Director, Vanderbilt Global Neurosurgery Program**

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

WORK ADDRESS: Monroe Carrell Jr. Children's Hospital at Vanderbilt
2200 Children's Way
9226 Doctors Office Tower
Nashville TN 37232-9557

WORK TELEPHONE: 615-322-6875 (Clinic), 615-322-1888 (Academic office)

FAX: 615-343-7076

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-Jun 2008
Residency in Neurological Surgery Jul 2008-Jun 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 Jul 2014-Jun 2015

Department of Orthopaedics
University of British Columbia
BC Children's Hospital
Vancouver, British Columbia, Canada

Fellowship	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		August 2015 - May 31, 2023

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

Vanderbilt University Medical Center (VUMC)		
Assistant Professor of Neurological Surgery		Aug 2015-Jun 2020
Associate Professor of Neurological Surgery		Jul 2020-present
Vanderbilt University Medical Center (VUMC)		
Assistant Professor of Plastic Surgery		Aug 2015-Jun 2020
Associate Professor of Plastic Surgery		Jul 2020-present
Vanderbilt University Medical Center (VUMC)		
Assistant Professor of Orthopedic Surgery		Aug 2015-Jun 2020
Associate Professor of Orthopedic Surgery		Jul 2020-present

INTERNATIONAL EXPERIENCE

Instituto Nacional de Salud del Niño		2013, 2015-2020
Lima, Peru		
Kometryplast		
Neurosurgeon (mission)		
Board of Directors		
Muhimbili, Bugando, Haydom, Mnazi Mmoja		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, VUMC Member Co-Director	2015-present 2019-2021
Neurosurgery Adult and Pediatric Scoliosis and Spine Deformity Program, VUMC Director	2020-present
Pediatric Intensive Care Unit (PICU) Nursing Neurosurgery Task Force, VUMC Neurosurgery Physician Champion	2018-present
Advanced Practice Registered Nurse (APRN) Choosing Wisely Initiative, VUMC Neurosurgery Physician Champion	2015-present
Shunt Clinical Practice Guideline (CPG) Group, VUMC Neurosurgery Physician Champion	2018-present
Vanderbilt Institute of Global Health (VIGH), VUMC Global Health Education Committee (GHEC) GME subcommittee Vanderbilt Collaborative for Global Health Equity resident course curriculum, co-author	2020-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
International Relations Committee, Co-chair	2021-2023
Section Liaison to Spine Section	2021-2023
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	2018-2023
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
Journal of Neurosurgery Publishing Group	
JNS:Pediatrics Editorial Board	2021-present
Pittsburgh Penguins NHL Hockey Club	2009-2014
Assistant neurosurgeon	
Nashville Predators NHL Hockey Club	2018-present
Assistant neurosurgeon	
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
Excellence in Patient Experience VUMC	2020
Nashville Lifestyles/Castle Connolly Top Doctors	2021, 2022

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. PMID: 17457592
2. Tormenti MJ, Maserati MB, **Bonfield CM**, Okonkwo DO, Kanter AS. Complications and Radiographic Correction in Adult Scoliosis Following Combined Transposas Extreme Lateral Interbody Fusion and Posterior Pedicle Screw Instrumentation. *Neurosurgical Focus.* 2010 Mar;28(3):E7. PMID: 20192667
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. PMID: 20568918
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. PMID: 20881468
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. PMID: 21311277
6. **Bonfield CM**, Gardner PA. Posterior communicating artery aneurysm rupture mimicking apoplexy. *Surg Neurol Int.* 2011 Nov;2:169. PMID: 22145088
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. PMID: 21999389
8. **Bonfield CM**, Engh JA. Pregnancy and brain tumors. *Neurol Clin.* 2012 Aug;30(3):937-46. PMID: 22840798
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. PMID: 23864590
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. PMID: 23868215
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. PMID: 23869276
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. PMID: 23905842
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. PMID: 24530081
14. **Bonfield CM**, Kumar AR, Gerszten PC. The History of Military Cranioplasty. *Neurosurg Focus.* 2014 Apr;36(4):E18. PMID: 24684330
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. PMID: 24785476

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. PMID:24905840
17. **Bonfield CM**, Wecht DA, Lunsford LD. Concussion in ice hockey. *Prog Neurol Surg*. 2014 June 28:161-70. PMID: 24923401
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. PMID: 25398914
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. PMID: 25418276
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. 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- α 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. PMID: 26351073
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] PMID: 26314205
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. PMID: 26267576
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. PMID: 26962335
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. PMID:27018009

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. PMID: 27032926
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. PMID: 27231822
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. PMID: 27242203
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. PMID: 27312078
37. **Bonfield CM**, Kondziolka D. Beyond the game: The legacy of Bill Masterton. *Neurosurg Focus*. 2016 Jul;41(1):E9. PMID: 27364262
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. PMID: 27736285
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] PMID: 28338445
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] PMID: 28452655
41. Hale AT, Alvarado A, Bey AK, Mencio GA, **Bonfield CM**, Martus JE, Naftel RP. X-Rays vs. CT in Identifying Significant C-Spine Injuries in the Pediatric Population. *Childs Nerv Syst*. 2017 Jun 27. [Epub ahead of print] PMID: 28656384
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] PMID: 28664223
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] PMID: 28736353
44. Estevez-Ordonez D, Dewan MC, Feldman MJ, Montalvan-Sanchez EE, Montalvan-Sanchez DM, Rodriguez-Murillo AA, Urrutia-Argueta SA, Cherry CB, Morgan DR, Alvarez-Rodriguez R, **Bonfield CM**. Congenital Malformations of the Central Nervous System in Rural Western Honduras: A 6-Year Report on Trends. *World Neurosurg*. 2017 Jul 29. [Epub ahead of print] PMID: 28765025
45. Chan EW, Gannon SR, Shannon CN, Martus JE, Mencio 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. *Neurosurg Focus*. 2017 Oct;43(4):E4. PMID: 28965442
46. Chotai S, Guidry BS, Chan EW, Sborov KD, Gannon S, Shannon C, **Bonfield CM**, Wellons JC, Naftel RP. Unplanned Readmission Within 90-days After Pediatric Neurosurgery. *J Neurosurg Pediatr*. 2017 Oct 13:1-7. [Epub ahead of print] PMID: 29027867
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] PMID: 29298440

48. Brett BL, Kuhn AW, Yengo-Kahn AM, Kerr ZY, **Bonfield CM**, Solomon GS, Zuckerman SL. Initial symptom presentation after high school football-related concussion varies by time point in a season: An initial investigation. *Sports Med Open*. 2018 Jan 31;4(1):8. PMID: 29387986
49. Lopez CD, Kumar A, Lin AY, **Bonfield CM**, Weinzweig 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 3rd. 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] PMID: 30155782
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.* 2020 Jan 31:1-5. [Epub ahead of print]. 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. Reynolds RA, Stack L, Bonfield CM How to Take a Good Neurosurgical Photograph with a Mobile Phone Camera. *World Neurosurg.* 2020 May;137:469-471. PMID: 32365433
78. Kelly KA, Sherburn MM, Sellyn GE, Ahluwalia R, Foster J, Shannon CN, **Bonfield CM**. Management of Suprasellar Arachnoid Cysts in Children: A Systematic Literature Review Highlighting Modern Endoscopic Approaches. *World Neurosurg.* 2020 May 20:S1878-8750. [Epub ahead of print] PMID: 32445899
79. 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. *J Neurosurg Pediatr.* 2020 May 29:1-6. [Epub ahead of print] PMID: 32470930
80. Patel PD, Kelly KA, Reynolds RA, Turer RW, Salwi S, Rosenbloom ST, **Bonfield CM**, Naftel RP. Tracking the Volume of Neurosurgical Care during the COVID-19 Pandemic. *World Neurosurg.* 2020 Jun 26:S1878-8750. [Epub ahead of print] PMID:32599201
81. Reynolds RA, Gannon S, Zhao S, **Bonfield CM**, Naftel RP, Wellons JC, Shannon CN. The interaction between parental concern and socioeconomic status in pediatric hydrocephalus management. *J Neurosurg Pediatr.* 2020 Oct 9:1-7. [Epub ahead of print] PMID: 33035994
82. Reynolds RA, Bhebhe A, Garcia RM, Chen H, **Bonfield CM**, Lam S, Sichizya K, Shannon C. Surgical Outcomes after Myelomeningocele Repair in Lusaka, Zambia. *World Neurosurg.* 2020 Oct 19:S1878-8750. [Epub ahead of print] PMID: 33091647
83. Zuckerman SL, Tang AR, Richard KE, Grisham CJ, Kuhn AW, **Bonfield CM**, Yengo-Kahn AM. The behavioral, psychological and social impacts of team sports: a systematic review and meta-analysis. *Phys Sportsmed.* 2020 Nov 16. [Epub ahead of print] PMID: 33196337
84. Yengo-Kahn AM, Kelly PD, Liles DC, McKeithan LJ, Grisham CJ, Khan MS, Lee T, Kuhn AW, **Bonfield CM**, Zuckerman SL. The cost of a single concussion in American high school football: a retrospective cohort study. *Concussion.* 2020 Oct 28;5(4):CNC81. PMID: 33204493

85. Stewart MK, Kavalukas SL, **Bonfield CM**, Ciombor KK, Shi C, Kachnic LA, Hawkins AT. Rectothecal Fistula Secondary to a Tailgut Cyst With Malignant Transformation: An Abnormal Connection and Unusual Pathology. *Am Surg*. 2020 Dec 18. [Epub ahead of print] PMID: 33338389
86. Pontell ME, Niklinska E, **Bonfield CM**, Golinko MS. Management of an open nasofrontal encephalocele during the first day of life. *Childs Nerv Syst*. 2021 Mar 6. [Epub ahead of print] PMID: 33677686
87. Ahluwalia R, Miller S, Dawoud FM, Malave JO, Tyson H, **Bonfield CM**, Yengo-Kahn AM. A Pilot Study Evaluating the Timing of Vestibular Therapy After Sport-Related Concussion: Is Earlier Better? *Sports Health*. 2021 Mar 6. [Epub ahead of print] PMID: 33682532
88. Yengo-Kahn AM, Patel PD, Kelly PD, Wolfson DI, Dawoud F, Ahluwalia R, **Bonfield CM**, Guillaumondegui OD. The value of simplicity: externally validating the Baylor cranial gunshot wound prognosis score. *J Neurosurg*. 2021 Mar 9:1-9. [Epub ahead of print] PMID: 33690151
89. Kelly PD, Patel PD, Yengo-Kahn AM, Wolfson DI, Dawoud F, Ahluwalia R, Guillaumondegui OD, **Bonfield CM**. Incorporating conditional survival into prognostication for gunshot wounds to the head. *J Neurosurg*. 2021 Mar 9:1-10. [Epub ahead of print] PMID: 33690152
90. Zuckerman SL, Yengo-Kahn AM, Tang AR, Bailes JE, Beauchamp K, Berger MS, **Bonfield CM**, Camarata PJ, Cantu RC, Davis GA, Ellenbogen RG, Ellis MJ, Feuer H, Guazzo E, Harris OA, Heppner P, Honeybul S, Manley G, Maroon JC, Miele VJ, Nahed BV, Okonkwo DO, Oppenlander ME, Petty J, Sabin HI, Samadani U, Sherburn EW, Sheridan M, Tator CH, Theodore N, Timmons SD, Woodworth GF, Solomon GS, Sills AK. Sport-Related Structural Brain Injury and Return to Play: Systematic Review and Expert Insight. *Neurosurgery*. 2021 Mar 8. [Epub ahead of print] PMID: 33693899
91. Hibshman N, Yengo-Kahn A, Wiseman A, Kelly P, Wu J, Monk S, Harris G, Gannon S, Shannon C, **Bonfield CM**. Child Participation in Collision Sports and Football: What influences Parental Decisions? *Phys Sportsmed*. 2021 Mar 25. [Epub ahead of print] PMID: 33764271
92. **Bonfield CM**, Shannon CN, Reeder RW, Browd S, Drake J, Hauptman J, Kulkarni AV, Limbrick D, McDonald P, Naftel R, Pollack I, Riva-Cambrin J, Rozzelle C, Tamber MS, Whitehead WE, Kestle JR, Wellons JC, for the Hydrocephalus Research Network (HCRN). Hydrocephalus treatment in patients with craniosynostosis: An analysis from the HCRN prospective registry. *Neurosurg Focus*. 2021 Apr;(50)4:E11. [Epub ahead of print] PMID: 33794488
93. Yengo-Kahn AM, Akinnusotu O, Wiseman AL, Abdul Ghani MO, Shannon CN, Golinko MS, **Bonfield CM**. Sports Participation and Related Head Injuries Following Craniosynostosis Correction: A Survey Study. *Neurosurg Focus*. 2021 Apr;(50)4:E15. [Epub ahead of print] PMID: 33794495
94. Alexiades NG, Shao B, Braga B, **Bonfield C**, Brockmeyer DL, Browd SR, DiLuna M, Groves M, Hankinson TC, Jea A, Leonard JR, Lew S, Limbrick D, Mangano F, Martin J, Pahys J, Powers A, Proctor MR, Rodriguez L, Rozzelle C, Storm P, Anderson RCE. Development of best practices in the utilization and implementation of pediatric cervical 2 spine traction: A modified Delphi study. *J Neurosurg Pediatr*. 2021 Apr 2:1-12. [Epub ahead of print] PMID: 33799292
95. Weaver KJ, McDowell MM, White MD, Tempel ZJ, Zwagerman NT, Deibert CP, **Bonfield CM**, Johnson S, Greene S. Comparison of Follow-Up Length-Matched Single-Center Myelomeningocele Postnatal Closure Cohort to the Management of Myelomeningocele

- Study (MOMS) Trial Results. *Pediatr Neurosurg*. 2021 Apr 13:1-10. [Epub ahead of print] PMID: 33849030
96. Yengo-Kahn AM, Hibshman N, **Bonfield CM**, Torstenson ES, Gifford KA, Belikau D, Davis LK, Zuckerman SL, Dennis JK. Association of pre-injury medical diagnoses with pediatric persistent post-concussion symptoms in electronic health records. *J Head Trauma Rehabil* 2021 Apr 21. [Epub ahead of print] PMID:33935230
 97. Borst AJ, **Bonfield CM**, Deenadayalan PS, Le CH, Xu M, Sobey JH, Reddy SK. E Aminocaproic acid (EACA) vs. tranexamic acid (TXA) in children undergoing complex cranial vault reconstruction for repair of craniosynostosis. *Pediatr Blood Cancer*. 2021 May 18:e29093. [Epub ahead of print] PMID: 34003588
 98. Tang AR, Reynolds RA, Dallas JD, Chen H, Vance EH, **Bonfield CM**, Shannon CN. Admission Trends in Pediatric Isolated Linear Skull Fractures across the United States. *J Neurosurg Pediatr*. 2021 Jun 4:1-13. [Epub ahead of print] PMID: 34087799
 99. Sadler B, Skidmore A, Gewirtz J, Anderson RCE, Haller G, Ackerman LL, Adelson PD, Ahmed R, Albert GW, Aldana PR, Alden TD, Averill C, Baird L, Bauer DF, Bethel-Anderson T, Bierbrauer KS, **Bonfield CM**, Brockmeyer DL, Chern JJ, Couture DE, Daniels DJ, Dlouhy BJ, Durham SR, Ellenbogen RG, Eskandari R, Fuchs HE, George TM, Grant GA, Graupman PC, Greene S, Greenfield JP, Gross NL, Guillaume DJ, Hankinson TC, Heuer GG, Iantosca M, Iskandar BJ, Jackson EM, Jea AH, Johnston JM, Keating RF, Khan N, Krieger MD, Leonard JR, Maher CO, Mangano FT, Mapstone TB, McComb JG, McEvoy SD, Meehan T, Menezes AH, Muhlbauer M, Oakes WJ, Olavarria G, O'Neill BR, Ragheb J, Selden NR, Shah MN, Shannon C, Smith J, Smyth MD, Stone SD, Tuite GF, Wait SD, Wellons JC, Whitehead WE, Park TS, Limbrick DD, Strahle J. Extradural Decompression vs. Duraplasty in Chiari 1 Malformation with Syrinx: Outcomes on Scoliosis from the Park-Reeves Syringomyelia Research Consortium. *J Neurosurg Pediatr*. 2021 Jun 18:1-9. [Epub ahead of print] PMID: 34144521
 100. Yengo-Kahn AM, Reynolds RA, **Bonfield CM**. Mild traumatic brain injury in children. *Pediatr Clin N Am*. 2021 68:857-874. PMID: 34247714
 101. Ramsey JA, Stevens PM, Wurdeman SR, **Bonfield CM**. Quantifying Orthotic Correction of Trigonocephaly Using Optical Surface Scanning. *J Craniofac Surg*. 2021 July-Aug 01;32(5):1727-1733. PMID: 34319676
 102. Yengo-Kahn AM, Wallace J, Jimenez V, Totten D, **Bonfield CM**, Zuckerman SL. Exploring the outcomes and experiences of Black and White athletes following a sport-related concussion: a retrospective cohort study. *Neurosurg Pediatr*. 2021 Aug 24:1-10. [Epub ahead of print] PMID: 34428742
 103. Yengo-Kahn AM, Hibshman N, Bezzerides M, Feldman MJ, Vukovic AA, Mummareddy N, Zhao S, Penrod C, **Bonfield CM**, Vance EH. Improving Discharge Instructions Following A Concussion Diagnosis in the Pediatric Emergency Department: A Pre-Post Intervention Study. *Pediatr Qual Saf*. 2021 Aug 26;6(5):e456.[Epub ahead of print] PMID: 34476308
 104. Yengo-Kahn AM, Grimaudo HC, Tonetti D, Burns C, Bonfield CM, Dewan MC, Wellons JC, Chitale RV, Chambless LB, Zuckerman SL. Team sport participation protects against burnout during neurosurgery training. *World Neurosurg*. 2021 Sep 7:S1878-8750(21)01334-6. [Epub ahead of print] PMID: 34506980
 105. Allen JH, Yengo-Kahn AM, Vittetoe KL, Greeno A, Abdul Ghani MO, Unni P, Lovvorn HN, **Bonfield CM**. The Impact of Helmet Use on Neurosurgical Care and Outcomes after Pediatric ATV and Dirtbike Crashes: A 10-Year, Single-Center Experience. *J Neurosurg Pediatr*. 2021 Oct 12:1-9. [Epub ahead of print] PMID: 34638104

106. Cools M, Vance EH, **Bonfield CM**. Ventriculoperitoneal Shunt Management in Children Undergoing Liver Transplantation. *Childs Nerv Syst*. 2021 Nov 10. [Epub ahead of print] PMID: 34757452
107. Sobey JH, Menser CC, Hartzog AJ, Hocking KM, Niconchuk JA, **Bonfield CM**, Stricker PA, Reddy SK. Antifibrinolytics are not associated with reduced blood loss or need for transfusion in minimally-invasive endoscopic-assisted craniectomy for repair of single-suture craniosynostosis. *J Craniofac Surg*. 2021 Nov 10. [Epub ahead of print] PMID: 34759255
108. Golinko M, **Bonfield C**. Clinical staging of craniosynostosis: a call for investigation and collaboration. *Childs Nerv Syst*. 2022 Mar 9. [Epub ahead of print] PMID: 35266036
109. Vittetoe KL, Allen JH, Unni P, McKay KG, Yengo-Kahn AM, Ghani MO, Mummidi P, Greeno AL, **Bonfield CM**, Lovvorn HN. Socioeconomic Factors Associated with Helmet Use in Pediatric ATV and Dirt Bike Trauma. *Trauma Surg Acute Care Open*. 2022 Mar 16;7(1):e000876. PMID: 35372699
110. Tang AR, Chen JW, Sellyn GE, Chen H, Zhao S, Gannon SR, Shannon CN, **Bonfield CM**. Evaluating Caregiver Stress in Craniosynostosis Patients. *J Neurosurg Pediatr*. 2022 May 13:1-8. Online ahead of print. PMID: 35561696
111. Mukherjee SK, Olivieri DJ, Madhani SI, **Bonfield CM**, Mbabazi E, Arman DM, Dewan MC, Ekramullah SM. EMR adoption in Dhaka, Bangladesh: a template to index pediatric central nervous system tumor care and a review of preliminary neuro-oncologic observations. *Childs Nerv Syst*. 2022 May 19:1-8. Online ahead of print. PMID: 35588333
112. Shlobin NA, Baticulon RE, Ortega CA, Du L, **Bonfield CM**, Wray A, Forrest CR, Dewan MC. Global Birth Prevalence of Craniosynostosis: A Systematic Review and Meta-Analysis. *World Neurosurg*. 2022 May 27:S1878-8750. Online ahead of print. PMID: 35636659
113. Reynolds, RA, Kelly KA, Ahluwalia R, Zhao S, Vance EH, Lovvorn HN, Hanson HH, Shannon CN, **Bonfield CM**. Protocolized management of isolated linear skull fractures at a Level 1 pediatric trauma center. 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* (2nd 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.
8. **Bonfield CM**, Okonkwo DO. (2021). Trauma: Spinal Cord Injury, editorial. In: El Tecle NE, El Ahmadieh TY, Aoun SG, Bendok B (eds.), *Congress of Neurological Surgeons Essential Papers in Neurosurgery*. New York, NY: Oxford University Press.
9. George DD, Tang AR, **Bonfield CM**, Yengo-Kahn AM. (2021). Sport-related Convulsive Convulsions. In: Mula (ed.), *Post-traumatic Epilepsy*. Cambridge: Cambridge University Press.
10. Jonzson S, Yengo-Kahn AM, **Bonfield CM**, Sills AK, Zuckerman SL. (2022). Pre-Participation Screening for the Sports Neurosurgeon. In Oppenlander (ed.), *Neurosurgical Care of Athletes*. Switzerland: Springer
11. Tang A, Yengo-Kahn AM, **Bonfield CM**, Sills AK, Zuckerman SL. (2022). Sports-Related Structural Brain Injury. In Oppenlander (ed.), *Neurosurgical Care of Athletes*. Switzerland: Springer

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, 4th 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 Bicornal 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
38. Patel PD, Kelly KA, Reynolds RA, Turer RW, Salwi S, Rosenbloom ST, **Bonfield CM**, Naftel RP. Tracking Delays in Neurosurgical Care during the COVID-19 Pandemic: An Institution's Experience. Congress of Neurological Surgeons Annual Virtual Meeting, 2020.
39. Yengo-Kahn A, Akinnusotu O, Wiseman A, Ghani O, Shannon S, Golinko M, **Bonfield C**. Sport Participation Following Craniostyosis Correction: A Survey Study. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery, Virtual Meeting, 2020
40. Yengo-Kahn A, Kelly P, Liles DC, Mckeithan L, Grisham C, Khan M, Lee T, Kuhn A, **Bonfield C**, Zuckerman S. The Cost of a Concussion in American High School Football. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery, Virtual Meeting, 2020
41. Yengo-Kahn AM, Allen J, Vittetoe K, Unni P, Ghani O, Greeno A, Lovvorn H, **Bonfield CM**. Neurosurgical Care and Outcomes for Pediatric ATV and Dirtbike Crashes: A 10-year Experience at a Level 1 Pediatric Trauma Center in the Southeastern United States. AANS Annual Meeting, Virtual Meeting, 2021
42. Yengo-Kahn A, Wallace J, Jimenez V, Totten D, **Bonfield C**, Zuckerman S. Exploring the outcomes and experiences of Black and White athletes following a sport-related concussion: a retrospective cohort study. American Academy of Neurology: Sports Concussion Conference, Virtual Meeting, 2021
43. Foster J, Ahluwalia R, Sherburn M, Kelly K, Sellyn G, Kiely C, Wiseman A, Gannon S, Shannon C, **Bonfield C**. Demographic Analysis of Deformational Skull Deformities. Oral Presentation, ISPN Annual Meeting, Virtual Meeting, 2021
44. Hibshman N, Yengo-Kahn A, Wiseman A, Kelly P, Shannon C, **Bonfield C**. Physician Influence on Parental Decision to Allow Child Participation in Sports. Oral Presentation, ISPN Annual Meeting, Virtual Meeting, 2021
45. Yengo-Kahn AM, Tang AR, Grusky A, Hou BQ, Hajdu K, Zuckerman SL, **Bonfield CM**, Wallace J. Racial Differences in Clinical Recovery from Sports-Related Concussion are Mediated by Differences in Initial Symptom Burden and Concussion History. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Salt Lake City, UT, 2021
46. Allen J, Tang AR, Hajdu K, Hou BQ, Grusky A, **Bonfield CM**, Terry DP, Zuckerman SL, Yengo-Kahn AM. Predicting Early and Late Recovery from Sport-Related Concussion Using Decision Tree Analysis. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Salt Lake City, UT, 2021
47. Chen JW, Reynolds RA, Shlobin NA, **Bonfield C**. Local Conceptions of the Role of Folate in Neural Tube Defects in Zambia. Oral presentation, AANS/CNS Section on Pediatric Neurosurgery Annual Meeting, Salt Lake City, UT, 2021
48. Laws JC, Vance EH, Anderson JJ, Fleishman S, **Bonfield CM**, Wellons JC, Giuse DA, Patel N, Jordan LC, Wolf MS. Effects of Ketamine on Intracranial Pressure in Children with Severe Traumatic Brain Injury. Oral presentation, Society of Critical Care Medicine Annual Meeting, San Juan, PR, 2022

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 Syrinx 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, Mencio 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
16. Reynolds RA, Bhebhe A, Garcia RM, Chen H, **Bonfield CM**, Lam S, Sichizya K, Shannon C. Surgical Outcomes after Myelomeningocele Repair in Lusaka, Zambia. Oral poster, AANS/CNS Section on Pediatric Neurosurgery, Virtual Meeting, 2020
17. Reynolds RA, Kelly KA, Ahluwalia R, Zhao S, Vance EH, Lovvorn HN, Hanson H, Shannon CN, **Bonfield CM**. Protocolization of Isolated Linear Skull Fracture Management at a Level 1 Trauma Center. Oral poster, AANS/CNS Section on Pediatric Neurosurgery, Virtual Meeting, 2020
18. Crockett CJ, Sobey JH, Zhang AX, **Bonfield CM**, Reddy SK. Intravenous acetaminophen in associated with decreased intraoperative opioid requirements in children undergoing complex cranial vault reconstruction for craniosynostosis. Oral poster, Society for Pediatric Anesthesia Annual Meeting. Virtual Meeting, 2021
19. Borst, AJ, Sobey JH, Deenadayalan PS, Le CH, **Bonfield CM**, Reddy SK. ϵ -Aminocaproic acid (EACA) vs. tranexamic acid (TXA) in children undergoing complex cranial vault reconstruction for repair of craniosynostosis. Oral poster, Society for Pediatric Anesthesia Annual Meeting. Virtual Meeting, 2021
20. Crockett CJ, Sobey JH, Zhang AX, **Bonfield CM**, Reddy SK. Intravenous acetaminophen in associated with decreased intraoperative opioid requirements in children undergoing complex cranial vault reconstruction for craniosynostosis. Oral poster, Society for Pediatric Pain Medicine Annual Meeting. Virtual Meeting, 2021
21. Vittetoe K, Allen J, Yengo-Kahn A, Ghani M, McCay K, Greeno A, Bonfield C, Unni P, Lovvorn H. Socioeconomic Factors Associated with Helmet Use in Pediatric ATV and Dirt Bike Trauma. Poster, American Academy of Pediatrics Annual Meeting, Virtual Meeting, 2021
22. Kelly K, Sherburn M, Sellyn G, Ahluwalia R, Foster J, Shannon C, **Bonfield C**. Management of Suprasellar Arachnoid Cysts in Children: A Systematic Literature Review Highlighting Modern Endoscopic Approaches. Oral Poster, ISPN annual Meeting, Virtual Meeting, 2021
23. Yengo-Kahn A, Cools M, Allen J, Vittetoe K, Unni P, Ghani O, Greeno A, Martus J, Lovvorn H, **Bonfield C**. Spine Injuries in Pediatric ATV and Dirtbike Crashes: A 10-Year Experience Oral poster, AANS/CNS Section on Pediatric Neurosurgery, Salt Lake City, UT, 2021

LECTURES

STUDENT/RESIDENT/FELLOW EDUCATION

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1. Rare cervical tumors in infants
Department of Surgery Rounds
British Columbia Children's Hospital. Vancouver, BC | 2014 |
| 2. Surgical resection of posterior fossa tumors
Multidisciplinary Neuro ICU Conference
Vanderbilt University Medical Center. Nashville, TN | 2016 |
| 3. Spine injury and neurogenic shock
Pediatrics Resident Educational Lecture Series
Vanderbilt University Medical Center. Nashville, TN | 2016 |

4. Traumatic brain injury and decompressive craniectomy 2017
Neurosurgery Resident Journal Club
Vanderbilt University Medical Center. Nashville, TN
5. Lumbar anatomy and posterior instrumentation 2017
Neurosurgery Resident Journal Club and Cadaver Lab
Vanderbilt University Medical Center. Nashville, TN
6. Introduction to Adolescent Idiopathic Scoliosis 2017
Life and a Career in Neurosurgery: Facts and Fictions
Vanderbilt University School of Medicine. Nashville, TN
7. International Neurosurgery 2017
Life and a Career in Neurosurgery: Facts and Fictions
Vanderbilt University School of Medicine. Nashville, TN
8. Introduction to Scoliosis 2018
Physical Medicine and Rehabilitation Resident Didactic Conference
Vanderbilt University Medical Center. Nashville, TN
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 Medical Center. Nashville, TN
19. International Neurosurgery 2020
Vanderbilt Global Surgery Student Alliance (GSSA) lecture series
Vanderbilt University School of Medicine. Nashville, TN

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 20. Spinal deformity
Neurosurgery/Orthopedics Spine Resident Journal Club
Vanderbilt University Medical Center. Nashville, TN | 2020 |
| 21. Craniosynostosis for the Geneticist
Genetic Counseling Graduate Program Course: Human Development
Vanderbilt University. Nashville, TN | 2020 |
| 22. Thoracic pedicle screws and Ponte osteotomies
Neurosurgery Resident education conference
Vanderbilt University. Nashville, TN | 2020 |
| 23. Adolescent Idiopathic Scoliosis
Neurosurgery Resident education conference
Vanderbilt University. Nashville, TN | 2021 |
| 24. Craniosynostosis for the Geneticist
Genetic Counseling Graduate Program Course: Human Development
Vanderbilt University. Nashville, TN | 2021 |
| 25. Introduction to Scoliosis
Life and a Career in Neurosurgery: Facts and Fictions
Vanderbilt University School of Medicine. Nashville, TN | 2021 |
| 26. International Neurosurgery
Life and a Career in Neurosurgery: Facts and Fictions
Vanderbilt University School of Medicine. Nashville, TN | 2021 |
| 27. Global Healthcare Capacity Strengthening
Vanderbilt Collaborative for Global Health Equity Resident Course
Vanderbilt Institute of Global Health. Nashville, TN | 2021 |

INTRAMURAL

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1. Myelomeningocele
Department of Neurosurgery Grand Rounds.
University of Pittsburgh Medical Center. Pittsburgh, PA | 2009 |
| 2. Scoliosis and the XLIF
Department of Neurosurgery Grand Rounds.
University of Pittsburgh Medical Center. Pittsburgh, PA | 2010 |
| 3. Dr. Bonfield, I presume? Neurosurgery in East Africa
Department of Neurosurgery Grand Rounds.
University of Pittsburgh Medical Center. Pittsburgh, PA | 2012 |
| 4. Craniosynostosis and the Neurosurgeon
Department Neurosurgery Grand Rounds.
University of Pittsburgh Medical Center. Pittsburgh, PA | 2013 |
| 5. Pearls from Residency
Department of Neurosurgery Grand Rounds
University of Pittsburgh Medical Center. Pittsburgh, PA | 2014 |
| 6. From East to West: Neurosurgery Residency
Division of Neurosurgery Grand Rounds
University of British Columbia. Vancouver, BC | 2014 |
| 7. Endoscopic craniectomies for sagittal craniosynostosis
Division of Neurosurgery Grand Rounds
University of British Columbia. Vancouver, BC | 2015 |

8. An Introduction to Pediatric Scoliosis 2015
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
9. Craniofacial Surgery in Peru 2016
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
10. Pediatric NeuroSpine 2016
Operating Room Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
11. Pediatric Spine Trauma 2017
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
12. Endoscopic-Assisted Minimally-Invasive Craniosynostosis Surgery 2017
Operating Room Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
13. Endoscopic-Assisted Minimally-Invasive Craniosynostosis Surgery 2018
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
14. Sagittal Balance 2019
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
15. Adult Tethered Spinal Cords 2020
Department of Neurosurgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
16. Pediatric Cervical Spine Injury 2020
Department of General Surgery Grand Rounds
Vanderbilt University Medical Center. Nashville, TN
17. Vanderbilt Global Neurosurgery Program 2021
Vanderbilt Institute of Global Health Grand Rounds
Vanderbilt University Medical Center. Nashville, TN

NATIONAL

1. Unique Characteristics in Pediatric Spine Trauma 2014
Department of Neurosurgery Grand Rounds
Washington University. St. Louis, MO
2. Deformational Plagiocephaly and Craniosynostosis 2015
Cumberland Pediatric Foundation: CME lecture
Nashville, TN
3. Neurosurgical considerations in pediatric scoliosis 2016
Tennessee Neurosurgical Society Annual Meeting
Nashville, TN
4. Neurosurgical Red Flags in Sports-Related Head Trauma 2016
Vanderbilt Sports Concussion Center: Sport Concussion State of Science
Nashville, TN
5. Controversies in Pediatric Traumatic Brain Injury 2016
Pediatric Trauma Society Annual Meeting
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
14. Pediatric Scoliosis 2020
Cumberland Pediatric Foundation: CME lecture
Nashville, TN
15. Pediatric Thoracolumbar Spine Trauma 2020
AANS/CNS Section on Pediatric Neurosurgery Annual Meeting: APP Seminar
Virtual meeting
16. Intraoperative Monitoring: A Spine Surgeon's Perspective 2020
Specialty Care Intraoperative Monitoring Grand Rounds
Virtual meeting
17. Surgery for Craniosynostosis 2021
Hanger Live: Annual National Meeting
Virtual Meeting
18. Osteoporosis in Adult Deformity Surgery: Cahill Debates 2021
AANS/CNS Section on Spine Annual Meeting
San Diego, CA
19. What the Adult Spine Surgeon needs to know about Tethered Spinal Cords 2021
AANS/CNS Section on Spine Annual Meeting
San Diego, CA
20. Global Neurotrauma 2021
CNS Annual Meeting
Austin, TX
21. Neuromuscular Scoliosis 2021
CNS Annual Meeting
Austin, TX

- | | |
|--------------------------------------------------------------------------------------------------------------|------|
| 22. Initial Challenges in Establishing a Global Neurosurgery Program
CNS Annual Meeting
Austin, TX | 2021 |
| 23. Vanderbilt Global Neurosurgery
Emory Neurosurgery Grand Rounds
Virtual Meeting (host: Atlanta, GA) | 2022 |

INTERNATIONAL

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1. Hydrocephalus and Craniosynostosis
Department of Plastic Surgery Grand Rounds
Instituto Nacional de Salud del Niño. Lima, Peru | 2015 |
| 2. Back pain and lumbar stenosis
Department of Neurosurgery Grand Rounds
Bugando Hospital. Mwanza, Tanzania | 2016 |
| 3. Decompressive Hemicraniectomy
4 th Annual Hands-on Neurosurgery and Neurotrauma Course
Dar es Salaam, Tanzania | 2017 |
| 4. Pediatric Spine Trauma
4 th Annual Hands-on Neurosurgery and Neurotrauma Course
Dar es Salaam, Tanzania | 2017 |
| 5. The Lumbar Spine
Neurosurgery, Education, and Development (NED) Grand Rounds
Zanzibar, Tanzania | 2018 |
| 6. Pediatric Spine Trauma
5 th Annual Hands-on Neurosurgery and Neurotrauma Course
Dar es Salaam, Tanzania | 2018 |
| 7. Back pain and lumbar stenosis
Neurosurgery, Education, and Development (NED) and Orthopedics Grand Rounds
Zanzibar, Tanzania | 2019 |
| 8. Pediatric Neurosurgical Emergencies
6 th Annual Hands-on Neurosurgery and Neurotrauma Course
Dar es Salaam, Tanzania | 2019 |
| 9. Pediatric Thoracolumbar Spine Trauma
6 th Annual Hands-on Neurosurgery and Neurotrauma Course
Dar es Salaam, Tanzania | 2019 |
| 10. Pediatric Spine Trauma and Neurogenic Shock
International Congress on Early Onset Scoliosis
Atlanta, GA | 2019 |
| 11. Craniofacial Surgery in Peru
Global Neurosurgery: Virtual Symposium
Virtual Meeting (host: RWJ Neurosurgery, NJ) | 2020 |
| 12. Kyphosis
Tanzania Neurosurgery Project: 1 st Annual Scoliosis Course
Virtual Spine Course (host: Dar es Salaam,TZ) | 2021 |

MEETING COURSE ORGANIZER

1. Scoliosis and Spinal Deformity 2021
Tanzania Neurosurgery Project: 1st Annual Scoliosis Course
Virtual (host: Dar es Salaam)
2. Pediatric Spine Pathology for the Adult Spine Surgeon 2021
AANS/CNS Section on Spine Annual Meeting
San Diego, CA
3. Global Neurotrauma 2021
CNS Annual Meeting
Austin, TX

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
8. Spine and Spinal Trauma in a LMIC 2020
6th Annual Hands-on Neurosurgery and Neurotrauma Course
Virtual (host: Dar es Salaam,TZ)
9. Pediatric Spine Pathology for the Adult Spine Surgeon 2020
AANS/CNS Section on Spine Annual Meeting
San Diego, CA
10. Global Neurotrauma 2021
CNS Annual Meeting
Austin, TX

MEDIA/OTHER

1. Concussions May Cause More Brain Damage in Kids With ADHD 2013
TIME Heathland (online)
2. ADHD May Be Tied to Longer-Lasting Head Injury 2013

- U.S. News & World Report Health Day (online)
3. Class Notes Profile 2017
Pitt Med Magazine
 4. Global Good 2018
Vanderbilt Medicine Magazine
 5. Neurosurgeons bring resources, hope to Tanzania 2019
Vanderbilt Sections of Surgical Sciences Winter Newsletter
 6. Life After Adolescent Idiopathic Scoliosis 2019
Scoliosis Research Society Live Webinar Panelist/Facebook broadcast
 7. Thoracolumbar Spine Trauma in Children Homepage Author 2019
The ISPN Guide to Neurosurgery (www.ispn.guide)
 8. Pioneers of Hope Profile 2019
Hope Magazine of Vanderbilt Children's Hospital
 9. International Neurosurgery 2019
VUMC Neurological Surgery Residency Program News (Fall)
 10. Safety and Considerations in AIS Surgery 2020
Scoliosis Research Society Live Webinar Panelist/Facebook broadcast
 11. Probing the Developmental Impact of Craniosynostosis 2020
VUMC Discover Newsletter
 12. Reducing Pediatric Skull Fracture Admissions 2020
VUMC Discover Newsletter
 13. Cervical Spine Trauma Cases 2021
AANS/CNS Pediatric Neurosurgery Section Educational Lecture Webinars
Virtual Webinar