

CHEVIS NACOLE' SHANNON
Vanderbilt University Medical Center
School of Medicine Faculty

RESEARCH ASSOCIATE PROFESSOR

Vanderbilt University Medical Center
Department of Neurological Surgery
Department of Pediatrics

DIRECTOR

Surgical Outcomes Center for Kids (SOCKs)
Monroe Carell Jr Children's Hospital at Vanderbilt
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EDUCATION

University of Alabama at Birmingham, Birmingham, Alabama
Bachelor of Science, Finance, 1993

Florida Southern College, Lakeland, Florida
Masters in Business Administration, 1998

University of Alabama at Birmingham, Birmingham, Alabama
Masters in Public Health, Epidemiology, 2002

University of Alabama at Birmingham, Birmingham, Alabama
Doctorate in Public Health, Maternal and Child Health, 2009

Dissertation Title: *Shunt Failure in Children with Hydrocephalus: Impact of Sociodemographic Predictors on Time to Medical Evaluation for Shunt Failure and the Economic Burden Associated with Shunt Failure*

PROFESSIONAL EXPERIENCE

Vanderbilt University Medical School	
Co-Director, Bench to Bedside, VUMC, Research Immersion Program	2017-
Vanderbilt University Medical Center	
Research Associate Professor	2015-Present
Director, Surgical Outcomes Center for Kids	2015-Present
Research Assistant Professor	2013-2015
Director, Vanderbilt Pediatric Neurosurgery Clinical Research Initiative	2013-2015

University of Alabama at Birmingham	
Assistant Professor, Department of Neurosurgery	2010-2012
Associate Director of Clinical Research	2010-2012
Administrative Director (concomitant with Assist Prof role)	2012
Hydrocephalus Clinical Research Network (HCRN) Site Manager	2006-2010
Epidemiologist, Division of Pediatric Neurosurgery	2006-2010
HIV Clinical Trials Program Coordinator, Division of Geographic Medicine	1999-2003
Other Professional Experience	
Technical Writing Consultant and Grant Writer	2002-Present

PROFESSIONAL ASSOCIATIONS

Co-Chair, Quality of Life Working Group, PRSRC	2012-
Member, Society for Pediatric and Perinatal and Epidemiologic Research	2013-
Member, International Society for Hydrocephalus and CSF Disorders	2014-
Program Committee Member, Epidemiology Congress for the Americas	2014-2016
Associate Member, American Association of Neurological Surgeons (AANS)	2017-
Member, Hydrocephalus Association Network for Discovery Science (HANDS)	2017-
Member, American Association of Medical Colleges	2017-
Associate Member, AANS, Pediatric Section	2018-

GRANT SUPPORT

Role: **Co-PI**

Title: **Posterior Fossa Decompression with or without Duraplasty for Chiari Type I Malformation with Syringomyelia**

Funding Agency: **PCORI**

Funding Period: **2015-2019**

Amount: **\$433,689 (subcontract)**

Role: **PI**

Title: **Understanding the Impact of Post-Hemorrhagic Hydrocephalus on Neurodevelopmental Outcomes in Premature Infants**

Funding Agency: **The Gerber Foundation**

Funding Period: **2013-2016 (extended through 2018)**

Amount: **\$107,446**

Role: **PI**

Title: **Surgical Outcomes Center for Kids & Cumberland Pediatric Foundation**

Community Advisory Board: Partnership Development Mini Grant

Funding Agency: **Meharry Vanderbilt Community Engaged Research Core**

Funding Period: **2015-2016**

Amount: **\$2,500**

AWARDS/HONORS

Maternal and Child Health Training Scholarship, UAB School of Public Health, 2002-2006

MCH Section Student Fellow Award, American Public Health Association, 2003-2004

Nominee, Leadership Birmingham, 2008

Nominee, Robert Wood Johnson, Ladder to Leadership Fellowship Award, 2009

Recipient, Elaine Sanders-Bush Excellence in Teaching Award for mentoring medical and graduate students in the research setting, Vanderbilt University SOM 2018

TEACHING EXPERIENCE

Distance Learning Integrated Core Coordinator and Weekday Integrated Core Lab Instructor, UAB School of Public Health, Dean's Office

SAS- Co instructor, UAB School of Public Health, Department of Epidemiology
Chronic Disease Epidemiology- Co-Instructor, UAB, School of Public Health, Department of Epidemiology

Vaccinology- Teaching Assistant, UAB, School of Public Health, Department of Epidemiology

Field Studies in Developing Countries: Infectious Disease Surveillance and Control,
International Field Teaching Assistant and Group Leader, UAB, School of Public Health, Department of Epidemiology (Field Course in Kingston, Jamaica)

Medical Evidence Conference, Resident Research Program, Division of Neurosurgery, UAB Research & Business Conference, Resident Program, Department of Neurosurgery, Vanderbilt *Training and Mentee List See Attached*

MAJOR LECTURES AND VISITING PROFESSORSHIPS

MCH Communities in Crisis: HIV Impact on MCH in Zambia, MCH 600, Maternal and Child Health Issues, UAB SOPH 2003

Where the Money is and How to get it; Grant writing for non-profits, Alabama Parks and Recreation Association Annual Conference	2004
Vaccine Delivery: Cold Chain Principles, Vaccine Program Management, & Global Update; Epidemiology 601-Vaccinology, UAB, SOPH	2004-2006
Public Health Jobs in Private Industry, Career Seminar Series, UAB SOPH	2005
Grant Writing Seminar: Where the Money Is and How We Get It, Alabama Prevention of Teen Pregnancy	2005
Grant Writing 101, Tarrant City School System	2006
Where the Money Is and How to Get It; Grant Writing Seminar for Non Profit Organizations; Mississippi Center for Non Profits	2006
Community Collaborations from a System Perspective, Provider Summit	2006
Grant Writing Seminar: Intro to Grant Writing, VISTA Participant Training	2006
School Health Nurse Needs Assessment: Jefferson County Health Department	2006
Basic Grant Writing Skills, Children's Hospital of Alabama	2007
Statistics for Clinical & Evidence-Based Research, Children's of Alabama	2008
Grant Writing I & II, Proposal Writing for Nurses, Children's of Alabama	2008
The Impact of Progress on America's Public Health, LCPH 102- Public Health and a Healthier America, UAB SOPH	2009
Clinical Research in Pediatric Neurosurgery, Children's of Alabama	2010
Everything You Never Knew You Always Wanted to Know About Building a Database Division of Neurosurgery Resident Medical Evidence Conference, UAB	2010
Survivor's Guide to Managing Multi-Center Clinical Trials and Quality Improvement Initiatives Society for Research Administrators International	2011
HCRN: Shunt Infection QI Protocol, Children's Hospital OR team	2013
Critically Appraising Peer-Reviewed Publications, Resident Conference	2013
What is the Value of Academic Performance: Understanding the Impact Factor and H-index? Neurosurgery Resident R&B Conference	2014
Preparing Your Medical School Application and How to Interview, VUMC	2015

How to Talk To Your Biostatistician, VUMC	2015
The Business of Patient-Centered Outcomes Research, Neurosurgery Grand Rounds	2016
Developing a Surgical Outcomes Program: Lessons Learned, Section of Surgical Sciences Leadership Meeting	2016
Research That Impacts the Operating Room, OR Grand Rounds	2016
The Value of Outcomes Research to the Hospital System, CHTCC	2016
VU Medical School Journal Club	2016-
Publishing and Presenting Clinical Research	2016
Informing Best Practices through Research, Advanced Applied Child Studies (PSY-PC 6020)	2017
The Value of Chiari Research to Patients & Families, American Syringomyelia & Chiari Alliance Project (ASAP)	2017
The Art of Scientific Communication, Vanderbilt University Medical School	2018
Understanding Sociodemographic Barriers to Seeking Medical Care: A National Patient Survey, National Conference on Hydrocephalus	2018

COUNCILS AND COMMITTEES

Abstract Review Committee, Association for Teachers of Maternal and Child Health (ATMCH)	2002-2003
Student Orientation Guide, UAB SOPH	2001-2002
Secretary, Student Association Council, UAB SOPH	2001-2002
Publication Committee, University of Alabama	2001-2002
Community Advisory Board Member, AIDS Alabama	2001-2002
Student Recruiter, UAB SOPH	2001-2002
American Public Health Association Student Caucus Member	2001, 2004
Treasurer, Public Health Student Caucus, APHA	2002-2003

Member, Maternal and Child Health Student Association for Graduate Education (MCH SAGE) School of Public Health, University of Alabama at Birmingham	2002-2003
Board Member, Planned Parenthood of Alabama	2004-2005
Student Liaison, Development Committee, Public Health Student Caucus, APHA	2004-2005
Member, National Student Health Alliance	2004-2005
Chair, Finance Committee, Public Health Student Caucus, APHA	2004-2005
Committee Member, UAB SOPH 25th Anniversary Celebration	2004-2005
Co-Chair, Domestic Violence Symposium, UAB SOPH	2004-2005
Visiting Allocation Team Member, United Way of Central Alabama	2006-2008
Member, Health Work Group, Children's Policy Cooperative	2006-2008
Member, Children's Policy Council of Jefferson County	2006-2008
Council Member, Center for the Advancement of Youth Health, UAB	2007-2008
Association of Schools of Public Health (ASPH), DrPH Competencies Task Force	2008-2009
Research Inc., Subcommittee Member, Children's Hospital of Alabama	2008-2010
Member, UAB Research Civitan, Civitan International	2011- 2012
Grant Peer Reviewer, Corporation for National & Community Service	2005-2007
Grant Panel Coordinator, Corporation for National & Community Service	2007-2012
Quality Control Reviewer, Corporation for National & Community Service	2012-2015
Board Member, Vice President, Spina Bifida Association Alabama Chapter	2010-2013
Member, UAB Division of Neurological Surgery, Women's Leadership Council	2011-2013
Collaborating Investigator, Center for Surgical and Quality Outcomes Research	2013-
Judge, Clinical Research, Vanderbilt University Research Forum,	2013-2016
Ad hoc Member, Injury Prevention Steering Committee	2014-
VICC Member, Vanderbilt University	2014-

Member, Center for Health Services Research	2014-
Member, Pediatric Neurosurgery Task Force	2014-
Member, Vanderbilt Children's Hospital Transformational HealthCare	2016-
Member, Vanderbilt Ingram Cancer Center	2014-
Scholar, Center for Health Services Research	2014-
Admission Committee Member, Vanderbilt University Medical School	2017-
Multi-Disciplinary Clinic Model Work Group	2017-
ACS Certification Work Group	2017-
Neuroscience Service Line Work Group	2018-
USNWR Working Group	2018-

MANUSCRIPTS

Peer Reviewed Publications

1. Bui CJ, Tubbs RS, **Shannon CN**, Acakpo-Satchivi L, Wellons JC 3rd, Blount JP, Oakes WJ, *Institutional Experience with Cranial Vault Encephaloceles*, J Neurosurg, 2007 Jul;107(1 Suppl):22-5. PMID: 17644916
2. Acakpo-Satchivi L, **Shannon CN**, Tubbs RS, Wellons JC 3rd, Blount JP, Iskandar BJ, Oakes WJ, *Death in Shunted Hydrocephalic Children: A Follow-Up Study*. Childs Nerv Syst., 2008 Feb;24(2):197- 201. PMID: 17594102
3. Wellons JC, **Shannon CN**, Kulkarni AV, Simon TD, Riva-Cambrin J, Whitehead WE, Oakes WJ, Drake JM, Leurssen TG, Walker ML, Kestle JR; Hydrocephalus Clinical Research Network. *A Multicenter Retrospective Comparison Of Conversion From Temporary to Permanent Cerebrospinal Fluid Diversion in Very Low Birth Weight Infants with Posthemorrhagic Hydrocephalus*. J Neurosurg Pediatr. 2009 Jul;4(1):50-5. PMID: 19569911
4. Fleming JB, Hoh BL, Simon, SD, Welch BG, Mericle, RA, Fargen KM, Pride GL, Purdy PD, **Shannon CN**, Harrigan MR. *Rebleeding Risk after Treatment of Ruptured Intracranial Aneurysm*. J Neurosurg 2011 Jun;114(6)1778-84. PMID: 21332293
5. Naftel RP, **Shannon CN**, Reed GT, Martin R, Blount JP, Tubbs RS, Wellons JC 3rd. *Small-Ventricle Neuroendoscopy for Pediatric Brain Tumor Management*. J Neurosurg Pediatr. 2011 Jan;7(1):104-10. PMID: 21194294

6. Naftel RP, Argo JL, **Shannon CN**, Taylor TH, Tubbs RS, Clements RH, Harrigan MR. *Laparoscopic versus open insertion of the peritoneal catheter in ventriculoperitoneal shunt placement: review of 810 consecutive cases.* J Neurosurg, 2011 Jul;115(1):151-8. PMID: 21314272.
7. Richards BF, Fleming JB, **Shannon CN**, Walters BC, Harrigan MR. *Safety and Cost Effectiveness of Step-down Unit Admission Following Elective Neurointerventional Procedures.* J of Neurointerv Surg. 2012 Sep;4(5):390-2. PMID: 21990515
8. **Shannon CN**, Simon TD, Reed GT, Franklin FA, Kirby RS, Kilgore ML, Wellons JC 3rd. *The Economic Impact of Ventriculoperitoneal Shunt Failure.* J Neurosurg Pediatr. 2011 Dec;8(6):593-9. PMID: 22132918
9. Naftel RP, Tubergen E, **Shannon CN**, Gran KA, Vance EH, Oakes WJ, Blount JP, Wellons JC 3rd. *Parental Recognition of Shunt Failure: A Prospective Single-Institution Study.* J Neurosurg Pediatr. 2012 Apr;9(4):363-71. PMID: 22462699.
10. Chern JJ, Kirkman JL, **Shannon CN**, Tubbs RS, Stone JD, Royal SA, Oakes WJ, Rozzelle CJ, Wellons JC. *Use of Lumbar Ultrasonography to Detect Occult Spinal Dysraphism.* J Neurosurg Pediatr. 2012;9:274-279. PMID: 22380955
11. Riva-Cambrin J, **Shannon CN**, Holubkov R, Whitehead WE, Kulkarni AV, Drake J, Simon TD, Browd SR, Kestle JR, Wellons JC 3rd; Hydrocephalus Clinical Research Network. *Center Effect and Other Factors Influencing Temporization and Shunting of Cerebrospinal Fluid in Preterm Infants with Intraventricular Hemorrhage.* J Neurosurg Pediatr. 2012 May;9(5):473-81. PMID: 22546024
12. **Shannon CN**, Acakpo-Satchivi L, Kirby RS, Franklin FA, Wellons JC. *Ventriculoperitoneal Shunt Failure: An Institutional Review of 2-Year Survival Rates.* Childs Nerv Sys. 2012 Dec;28(12):2093-9. PMID: 22706983
13. Menendez JY, Bauer DF, **Shannon CN**, Fiveash J, Markert JM. *Stereotactic Radiosurgical Treatment of Brain Metastasis of Primary Tumors that Rarely Metastasize to the Central Nervous System.* J Neurooncol. 2012 Sep;109(3):513-9. PMID: 22870850
14. Gordon AS, Westrick AC, Falola MI, **Shannon CN**, Walters BC, Fisher WS. *Reliability of Postoperative Photographs in Assessment of Facial Nerve Function After Vestibular Schwannoma Resection.* J Neurosurg. 2012 Nov;117(5):860-3. PMID 22957527
15. Naftel RP, Safiano NA, Falola MI, **Shannon CN**, Wellons JC 3rd, Johnston JM Jr. *Technology Preferences Among Caregivers of Children with Hydrocephalus.* J Neurosurg Pediatr. 2013 Jan;11(1):26-36. PMID: 23092227
16. Romeo A, Naftel RP, Griessenauer CJ, Reed GT, Martin R, **Shannon CN**, Grabb PA, Tubbs RS, Wellons JC 3rd. *Long-term Change in Ventricular Size following Endoscopic Third Ventriculostomy for Hydrocephalus due to Tectal Plate Gliomas.* J Neurosurg Pediatr. 2013 Jan;11(1):20-5. PMID: 23140213

17. Griguer CE, Cantor AB, Fathallah-Shaykh HM, Gillespie GY, Gordon AS, Markert JM, Radovanovic I, Clement-Schatlo V, **Shannon CN**, Oliva CR. *Prognostic Relevance of Cytochrome C Oxidase in Primary Glioblastoma Multiforme*. PLOS one. 2013, Apr 10;8(4):e61035. PMID: 23593382
18. Rozzelle CJ, Reed GT, Kirkman JL, **Shannon CN**, Chern JJ, Wellons JC 3rd, Tubbs RS. *Sonographic Determination of Normal Conus Medullaris Level and Ascent in Early Infancy*. Childs Nerv Syst. 2014 Apr;30(4):655-8. PMID: 24178234
19. Wilkins SA, **Shannon CN**, Brown ST, Vance EH, Ferguson D, Gran K, Crowther M, Wellons JC 3rd, Johnston JM Jr. *Establishment of a Multidisciplinary Concussion Program: Impact of Standardization on Patient Care and Resource Utilization*. J Neurosurg Pediatr. 2014 Jan;13(1):82-9. PMID: 24236447
20. Bennett KA, Carroll MA, **Shannon CN**, Braun SA, Dabrowiak ME, Crum AK, Paschall RL, Kavanaugh-McHugh AL, Wellons JC 3rd, Tulipan NB. *Reducing Perinatal Complications and Preterm Delivery for Patients Undergoing in Utero Closure of Fetal Myelomeningocele: Further Modifications to the Multidisciplinary Surgical Technique*. J Neurosurg Pediatr. 2014 Jul;14(1):108-14. PMID: 24784979
21. Harrigan MR, Falola MI, **Shannon CN**, Westrick AC, Walters BC. *Incidence and Trends in the Diagnosis of Traumatic Extracranial Cerebrovascular Injury in the Nationwide Inpatient Sample Database, 2003-2010*. J Neurotrauma. 2014 Jun 1;31(11):1056-62. PMID: 24494787
22. Whitehead WE, Riva-Cambrin J, Wellons JC 3rd, Kulkarni AV, Browd S, Limbrick D, Rozzelle C, Tamber MS, Simon TD, **Shannon CN**, Holubkov R, Oakes WJ, Luerksen TG, Walker ML, Drake JM, Kestle JR; for the Hydrocephalus Clinical Research Network. *Factors Associated with Ventricular Catheter Movement and Inaccurate Catheter Location: Post Hoc Analysis of the Hydrocephalus Clinical Research Network Ultrasound-Guided Shunt Placement Study*. J Neurosurg Pediatr. 2014 Aug;14(2):173-8. PMID: 24926971
23. Rocque BG, Bishop ER, Scogin MA, Hopson BD, Arynchyna AA, Boddiford CJ, **Shannon CN**, Blount JP. *Assessing Health-Related Quality of Life in Children with Spina Bifida*. J Neurosurg Pediatr. 2015 Feb;15(2):144-9. PMID: 25415252.
24. **Shannon CN**, Carr KR, Tomycz L, Wellons JC, Tulipan N. *Time to First Shunt Failure in Pediatric Patients over 1 Year Old: A 10-Year Retrospective Study*. Pediatr Neurosurg. 2013;49(6):353-9. PMID: 25471222.
25. Ladner TR, Dewan MC, Day MA, **Shannon CN**, Tomycz L, Tulipan N, Wellons JC 3rd. *Evaluating the Relationship of the pB-C2 Line to Clinical Outcomes in a 15-Year Single-Center Cohort of Pediatric Chiari I Malformation*. J Neurosurg Pediatr. 2015 Feb;15(2):178-88. PMID: 25479579.
26. Westrick AC, Moore M, Monk S, Greeno A, **Shannon C**. *Identifying Characteristics in Abusive Head Trauma: A Single-Institution Experience*. Pediatr Neurosurg. 2015;50(4):179-86. PMID: 26068322
27. Ladner TR, Dewan MC, Day MA, **Shannon CN**, Tomycz L, Tulipan N, Wellons JC 3rd. *Posterior Odontoid Process Angulation in Pediatric Chiari I Malformation: an MRI Morphometric External Validation Study*.

J Neurosurg Pediatr. 2015 Aug;16(2):138-45. PMID: 26053869

28. Greenberg JK, Ladner TR, Olsen MA, **Shannon CN**, Liu J, Yarbrough CK, Piccirillo JF, Wellons JC 3rd, Smyth MD, Park TS, Limbrick DD. *Complications and Resource Use Associated with Surgery for Chiari Malformation Type 1 in Adults: A Population Perspective*. Neurosurgery. 2015Aug; 77(2):261-8. PMID: 25910086
29. Greenberg JK, Ladner TR, Olsen MA, **Shannon CN**, Liu J, Yarbrough CK, Piccirillo JF, Wellons JC 3rd, Smyth MD, Park TS, Limbrick DD. *Validation of an International Classification of Diseases, Ninth Revision Code Algorithm for Identifying Chiari Malformation Type 1 Surgery in Adults*. Neurosurgery. 2015Aug; 77(2):269-73. PMID: 25924208
30. Morgan CD, Wolf MS, Le TM, **Shannon CN**, Wellons JC 3rd, Metter BA. *Cerebral Ventriculomegaly after the Bi-Directional Glenn (BDG) Shunt: A Single-Institution Retrospective Analysis*. Childs Nerv Syst. 2015 Nov;31(11):2131-4. PMID: 26280632
31. O'Lynnnger TM, **Shannon CN**, Le TM, Greeno A, Chung D, Lamb FS, Wellons JC 3rd. *Standardizing ICU Management of Pediatric Traumatic Brain Injury is Associated with Improved Outcomes at Discharge*. J Neurosurg Pediatr. 2016 Jan;17(1):19-26. PMID: 26451717
32. Ladner TR, Westrick AC, Wellons JC 3rd, **Shannon CN**. *Health-Related Quality of Life in Pediatric Chiari Type I Malformation: the Chiari Health Index for Pediatrics*. J Neurosurg Pediatr. 2016 Jan;17(1):76-85. PMID: 26431245
33. Kestle JR, Holubkov R, Cochrane D, Kulkarni AV, Limbrick DD Jr, Luerssen TG, Oakes WJ, Riva-Cambrin J, Rozzelle C, Simon TD, Walker ML, Wellons JC 3rd, Browd SR, Drake JM, **Shannon CN**, Tamber MS, Whitehead WE; Hydrocephalus Clinical Research Network. *A New Hydrocephalus Clinical Research Network Protocol to Reduce Cerebrospinal Fluid Shunt Infection*. J Neurosurg Pediatr. 2016 Apr;17(4):391-6. PMID: 26684763
34. Riva-Cambrin J, Kestle JR, Holubkov R, Butler J, Kulkarni AV, Drake J, Whitehead WE, Wellons JC 3rd, **Shannon CN**, Tamber MS, Limbrick DD Jr, Rozzelle C, Browd SR, Simon TD; Hydrocephalus Clinical Research Network. *Risk Factors for Shunt Malfunction in Pediatric Hydrocephalus: a Multicenter Prospective Cohort Study*. J Neurosurg Pediatr. 2016 Apr;17(4):382-90. PMID: 26636251
35. Ladner TR, Greenberg JK, Guerrero N, Olsen MA, **Shannon CN**, Yarbrough CK, Piccirillo JF, Anderson RC, Feldstein NA, Wellons JC 3rd, Smyth MD, Park TS, Limbrick DD Jr. *Chiari Malformation Type I Surgery in Pediatric Patients. Part 1: Validation of an ICD-9-CM Code Search Algorithm*. J Neurosurg Pediatr. 2016 May;17(5):519-24. PMID: 26799412
36. Greenberg JK, Olsen MA, Yarbrough CK, Ladner TR, **Shannon CN**, Piccirillo JF, Anderson RC, Wellons JC 3rd, Smyth MD, Park TS, Limbrick DD Jr. *Chiari Malformation Type I Surgery in Pediatric Patients. Part 2: Complications and the Influence of Comorbid Disease in California, Florida and New York*. J Neurosurg Pediatr. 2016 May;17(5):525-32. PMID: 26799408

37. Zuckerman SL, Allen LA, Broome C, Bradley N, Law C, **Shannon C**, Wellons JC 3rd. *Functional Outcomes of Infants with Narakas Grade 1 Birth-Related Brachial Plexus Palsy Undergoing Neurotization Compared with Infants Who Did Not Require Surgery*. Childs Nerv Syst. 2016 May;32(5):791-800. PMID: 26906477
38. Akinpelu BJ, Zuckerman SL, Gannon SR, Westrick A, **Shannon C**, Naftel RP. *Pediatric Isolated Thoracic and/or Lumbar Transverse and Spinous Process Fractures*. J Neurosurg Pediatr. 2016 Jun;17(6):639-44. PMID: 26894517
39. Dewan MC, Lim J, Morgan CD, Gannon SR, **Shannon CN**, Wellons JC 3rd, Naftel RP. *Endoscopic Third Ventriculostomy with Choroid Plexus Cauterization Outcome: Distinguishing Success from Failure*. J Neurosurg Pediatr. 2016 Dec;25(6):655-662. PMID: 27564786
40. Mistry AM, Niesner KJ, Lake WB, Forbes JA, **Shannon CN**, Kasl RA, Konrad PE, Neimat JS. *Neurovascular Compression at the Root Entry Zone Correlates with Trigeminal Neuralgia and Early Microvascular Decompression Outcome*. World Neurosurg. 2016 Nov;95:208-213. PMID: 27546336
41. He L, Gannon S, **Shannon CN**, Rocque BG, Riva-Cambrin J, Naftel RP. *Surgeon Interrater Reliability in the Endoscopic Assessment of Cistern Scarring and Aqueduct Patency*. J Neurosurg Pediatr. 2016 Sep;18(3):320-4. PMID: 27231825
42. Simon TD, Kronman MP, Whitlock KB, Gove N, Browd SR, Holubkov R, Kestle JR, Kulkarni AV, Langley M, Limbrick DD Jr, Luerssen TG, Oakes J, Riva-Cambrin J, Rozzelle C, **Shannon C**, Tamber M, Wellons JC 3rd, Whitehead WE, Mayer-Hamblett N; Hydrocephalus Clinical Research Network (HCRN). *Variability in Management of First Cerebrospinal Fluid Shunt Infection: a Prospective Multi-Institutional Observational Cohort Study*. J Pediatr. 2016 Dec;179:185-191. PMID: 27692463
43. Ravindra VM, Bollo RJ, Sivakumar W, Akbari H, Naftel RP, Limbrick DD Jr, Jea A, Gannon S, **Shannon C**, Birkas Y, Yang GL, Prather CT, Kestle JR, Riva-Cambrin J. *Predicting Blunt Cerebrovascular Injury in Pediatric Trauma: Validation of the "Utah Score"*. J Neurotrauma. 2017 Jan 15;34(2):391-399. PMID: 27297774
44. Whitehead WE, Riva-Cambrin J, Kulkarni AV, Wellons JC 3rd, Rozzelle CJ, Tamber MS, Limbrick DD Jr, Browd SR, Naftel RP, **Shannon CN**, Simon TD, Holubkov R, Illner A, Cochrane DD, Drake JM, Luerssen TG, Oakes WJ, Kestle JR; for the Hydrocephalus Clinical Research Network. *Ventricular Catheter Entry Site and not Catheter Tip Location Predicts Shunt Survival: A Secondary Analysis of 3 Large Pediatric Hydrocephalus Studies*. J Neurosurg Pediatr. 2017 Feb;19(2):157-167. PMID: 27813457
45. Dudley AG, Casella DP, Lauderdale CJ, Zhao S, Chen H, Tanaka ST, Thomas JC, Pope JC 4th, Adams MC, Brock JW 3rd, **Shannon CN**, Clayton DB. *Interrater Reliability in Pediatric Urodynamic Tracings: A Pilot Study*. J Urol. 2017 Mar;197(3 Pt 2):865-870. PMID: 27936385
46. Laskay NMB, Arynchyna AA, McClugage SG 3rd, Hopson B, **Shannon C**, Ditty B, Wellons JC 3rd, Blount

- JP, Rocque BG. *A Comparison of the MOMS Trial Results to a Contemporaneous, Single-Institution, Postnatal Closure Cohort*. Childs Nerv Syst. 2017 Apr;33(4):639-646. PMID: 28028598
47. Pinto VL, Pruthi S, Westrick AC, **Shannon CN**, Bridges BC, Le TM. *Brain MRI Findings in Pediatric Patients Post ECMO*. ASAIO J. 2017 Apr 6. [Epub ahead of print]. PMID: 28394816
48. Wellons JC 3rd, **Shannon CN**, Holubkov R, Riva-Cambrin J, Kulkarni AV, Limbrick DD Jr, Whitehead W, Browd S, Rozzelle C, Simon TD, Tamber MS, Oakes WJ, Drake J, Luerrssen TG, Kestle J; Hydrocephalus Clinical Research Network. *Shunting Outcomes in Post-Hemorrhagic Hydrocephalus: Results of a Hydrocephalus Clinical Research Network Prospective Cohort Study*. J Neurosurg Pediatr. 2017 Apr 28:1-11. PMID: 28452657
49. Dewan MC, Lim J, **Shannon CN**, Wellons JC 3rd. *The Durability of Endoscopic Third Ventriculostomy and Ventriculoperitoneal Shunts in Children with Hydrocephalus Following Posterior Fossa Tumor Resection: A Systematic Review and Time-to-Failure Analysis*. J Neurosurg Pediatr. 2017 May;19(5):578-584. PMID: 28291428
50. Raees MA, Morgan CD, Pinto VL, Westrick AC, **Shannon CN**, Christian KG, Mettler BA, Bichell DP. *Neonatal Aortic Arch Reconstruction With Direct Splanchnic Perfusion Avoids Deep Hypothermia*. Ann Thorac Surg. 2017 Jul 11. pii: S0003-4975(17)30600-8. doi: 10.1016/j.athoracsur.2017.04.037. PubMed PMID: 28709662.
51. 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. doi: 10.3171/2017.7.FOCUS17321. PMID: 28965442.
52. Pinto VL, Pruthi S, Westrick AC, **Shannon CN**, Bridges BC, Le TM. *Brain Magnetic Resonance Imaging Findings in Pediatric Patients Post Extracorporeal Membrane Oxygenation*. ASAIO J. 2017 Nov/Dec;63(6):810-814. doi: 10.1097/MAT.0000000000000580. PMID: 2908403
53. Xie DX, Wu J, Kelly K, Brown RF, **Shannon CN**, Virgin FW. *Evaluating the sinus and Nasal Quality of Life Survey in the pediatric cystic fibrosis patient population*. Int J Pediatr Otorhinolaryngol. 2017 Nov;102:133-137. doi: 10.1016/j.ijporl.2017.09.014. Epub 2017 Sep 19. PMID: 29106860.
54. Morgan CD, Ladner TR, Yang GL, Moore MN, Parks RD, Walsh WF, Wellons JC, **Shannon CN**. *Early elective delivery for fetal ventriculomegaly: are neurosurgical and medical complications mitigated by this practice?* Childs Nerv Syst. 2017 Dec 1. doi: 10.1007/s00381-017-3662-0. PMID: 29196812.
55. Chotai S, Guidry BS, Chan EW, Sborov KD, Gannon S, **Shannon CN**, Bonfield CM, Wellons JC 3rd, Naftel RP. *Unplanned readmission within 90 days after pediatric neurosurgery*. J Neurosurg Pediatr. 2017 Dec;20(6):542-548. doi: 10.3171/2017.6.PEDS17117. Epub 2017 Oct 13. PMID: 29027867

56. Dudley AG, Adams MC, Brock JW 3rd, Clayton DB, Joseph DB, Koh CJ, Merguerian PA, Pope JC 4th, Routh JC, Thomas JC, Tu DD, Wallis MC, Wiener JS, Yerkes EB, Lauderdale CJ, **Shannon CN**, Tanaka ST. *Interrater Reliability in Interpretation of Neuropathic Pediatric Urodynamic Tracings: An Expanded Multicenter Study*. J Urol. 2018 May;199(5):1337-1343. doi: 10.1016/j.juro.2017.12.051. Epub 2017 Dec 29. PMID: 29291418
57. 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;53(2):108-115. doi: 10.1159/000485254. Epub 2018 Jan 4. PMID: 29298440
58. Gallant JN, 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. pii: S1878-8750(18)31057-X. doi: 10.1016/j.wneu.2018.05.104. [Epub ahead of print] Review PMID: 29803063.
59. Simon TD, Kronman MP, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni AV, Langley M, Limbrick DD Jr, Luerssen TG, Oakes J, Riva-Cambrin J, Rozzelle C, **Shannon CN**, Tamber M, Wellons Iii JC, Whitehead WE, Mayer-Hamblett N; Hydrocephalus Clinical Research Network. *Patient and Treatment Characteristics by Infecting Organism in Cerebrospinal Fluid Shunt Infection*. J Pediatric Infect Dis Soc. 2018 May 15. doi: 10.1093/jpids/piy035. [Epub ahead of print] PMID: 29771360
60. Gallant JN, Basem JI, Turner JH, **Shannon CN**, Virgin FW. *Nasal saline irrigation in pediatric rhinosinusitis: A systematic review*. Int J Pediatr Otorhinolaryngol. 2018 May;108:155-162. doi: 10.1016/j.ijporl.2018.03.001. Epub 2018 Mar 6. Review. PMID: 29605346
61. Hale AT, Pekala K, Theobald B, Kelly K, Wolf M, Wellons JC, Le T, **Shannon CN**. *Predictors of post-discharge seizures in children with traumatic brain injury*. Childs Nerv Syst. 2018 Jul;34(7):1361-1365. doi: 10.1007/s00381-018-3779-9. Epub 2018 Mar 21. PMID: 29564537
62. Bonfield CM, Pellegrino R, Berkman J, Naftel RP, **Shannon CN**, Wellons JC. *Oral presentation to publication: Publication rates of abstract presentations across two pediatric neurosurgical meetings*. J Neurosurg Pediatr. 2018 Jun;21(6):650-654. doi: 10.3171/2017.11.PEDS17458. Epub 2018 Mar 9. PMID: 29521604.
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64. Lim J, Davis A, Tang AR, **Shannon CN**, Bonfield CM. *Caregiver stress in children with craniosynostosis: a systematic literature review*. Childs Nerv Syst. 2018 Aug 29. doi: 10.1007/s00381-018-3959-7. [Epub ahead of print] PMID: 30155782
65. Taylor AS, Cabo JJ, Lauderdale C, Maskan N, Thomas JC, Tanaka ST, Pope JC, Adams MC, Brock JW, **Shannon CN**, Clayton DB. *Pelvic floor biofeedback therapy in children: Assessment of symptom scores in*

responders and non-responders. NeuroUrol Urodyn. 2018 Oct 23. doi: 10.1002/nau.23842. [Epub ahead of print] PMID: 30350888

66. Hale AT, Stonko DP, Brown A, Lim J, Voce D, Gannon SR, Le TM, **Shannon CN**. Machine-learning analysis outperforms conventional statistical models and CT classification systems in predicting 6-month outcomes in pediatric patients sustaining traumatic brain injury. Neurosurg Focus: 45 (5): E2, 2018:1-5. DOI: <https://doi.org/10.3171/2018.8.FOCUS17773>
67. Lim J, Tang AR, Liles C, Hale AT, Bonfield CM, Naftel RP, Wellons JC III, **Shannon CN**. *The cost of hydrocephalus: a cost-effectiveness model for evaluating surgical techniques*. J Neurosurg Pediatr (Accepted)

Invited Book Chapters

1. Dure LS, Oakes WJ, **Shannon CN**, Broome CE, Rozzelle C, McGrath T. *A Multidisciplinary Clinic for the Management of Chiari I Malformations* In: Oakes WJ, Tubbs RS eds. The Chiari Malformations. Springer Science + Business Media LLC, 2013, pp345-50.

PUBLISHED ABSTRACTS

1. Blount JP, **Shannon CN**, Kelley SV, Acakpo-Satchivi L, Tubbs RS, Wellons JC, Oakes WJ *The Impact of Epilepsy as a Comorbidity in a Pediatric Spina Bifida Population*. AANS/CNS Section on Pediatric Neurological Surgery, Miami, Florida, December, 2007
2. Blount JP, Pugh J, **Shannon CN**, Kelley S, Wellons JC, Grant J, Ray P, *Use And Risk Profile Of Standard (non-fast Resorbing) Macropore Absorbable Plate System In Pediatric Neurosurgery*. AANS/CNS Section on Pediatric Neurological Surgery, Miami, Florida, December, 2007
3. Blount JP, **Shannon CN**, Gillespie GY, Bharara S, Acakpo-Satchivi L, Tubbs RS, Wellons JC, Oakes WJ, *Polymerase Chain Reaction for Rapid Detection of Pediatric CSF Shunt Infections*, Congress of Neurosurgical Surgeons Meeting, San Diego, California, Sept 2007
4. Kestle J, Wellons JC, Riva-Cambrin J, **Shannon CN**, Habrock-Bach T, et al. *The Hydrocephalus Clinical Research Network Quality Improvement Initiative*. AANS/CNS Section on Pediatric Neurological Surgery. Presented December, 2008
5. Pugh J, **Shannon CN**, Zywicke H, Acakpo-Satchivi L, Wellons J, Blount J, Oakes, J. *Rate of ventricular shunt failure following intradural spinal surgery*. AANS/CNS Section on Pediatric Neurological Surgery. Presented December, 2008
6. Harmon D, Hankinson TC, Bradley N, **Shannon CN**, Tubbs RS, Wellons JC *Successful Resection of Cystic Hygromas of the Neck Involving the Brachial Plexus*, AANS/CNS Section on Pediatric Neurological Surgery, Presented 2009

7. McBride SA, Boehme AK, **Shannon CN**, Hankinson T, Rozzelle CJ, Blount JP, Oakes WJ, Wellons JC. *Measurable Predictor of Ventriculosubgaleal Shunt Conversion to Ventriculoperitoneal Shunt in Patients with Intraventricular Hemorrhage*, AANS/CNS Section on Pediatric Neurological Surgery, Presented 2009
8. Harmon D, **Shannon C**, Reed G, Tubbs RS, Hankinson T, Rozzelle C, Blount J, Oakes J, Wellons JC. *Lysis of abdominal adhesions for placement of distal catheter in the difficult to shunt patient*, ANS/CNS Section on Pediatric Neurological Surgery, Presented 2009
9. Riva-Cambrin J, **Shannon C**, Kulkarni A, Holubkov R, Whitehead W, Kestle J, Wellons J for the Hydrocephalus Clinical Research Network (HCRN). *Factors Influencing the Decision to Temporize and Ultimately Shunt Premature Infants with IVH: A Multi-center Study Describing Variations in Patient Care*. International Society for Pediatric Neurosurgeons, Los Angeles, California, Presentation October 2009
10. **Shannon CN**, Kelley SV, Pugh JP, Tubbs RS, Wellons JC, Oakes, WJ, Blount JB *Ventriculoperitoneal Shunt Failure Following Intradural Spinal Surgery In The Pediatric Spina Bifida Population: An Institutional Review*. First World Congress on Spina Bifida, Orlando, Florida, Presented March 2009
11. Davis D, **Shannon C**, Law C, Cortes C, Hammer S, *Transition Services For Adolescents With Spina Bifida In Alabama: Challenges, Lessons And Successes*. First World Congress on Spina Bifida, Orlando, Florida, Presented March 2009
12. Conklin M, DeCesare BV, **Shannon CN**, Blount JP *Ventriculoperitoneal Shunt Failure Following Extradural Spinal Surgery In The Pediatric Spina Bifida Population: An Institutional Review*. First World Congress on Spina Bifida, Orlando, Florida, Presented March 2009.
13. Cortes C, Law C, **Shannon C**, Davis D *The Effectiveness Of The Antegrade Continence Enema (Ace) Procedure On Toileting Independence In The Pediatric Spina Bifida Population*. First World Congress on Spina Bifida, Orlando, Florida, Poster March 2009.
14. Blount JP, Reed GT, **Shannon CN**, Rozzelle CJ, Wellons CJ, Tubbs RS, Oaes WJ. *Clinical Symptoms are equivalent to imaging in predicting shunt failure in Myelomeningocele patients*, AANS/CNS Section on Pediatric Neurological Surgery, Presented December 2010.
15. Romeo AK, Naftel RP, Reed GT, Martin R, **Shannon CN**, Grabb P, Tubbs RS, Wellons JC, *Endoscopic Third Ventriculostomy for Tectal Plate Gliomas: Long-term outcomes and ventricular size*. AANS/CNS Section on Pediatric Neurological Surgery, Presented December 2010
16. Kirkman J, Chern J, **Shannon CN**, Anderson T, Tubbs R, Rozzelle C, Wellons JC. *When can we not screen infants for tethered spinal cord? An analysis of presenting factors in 1141 infants*, AANS/CNS Section on Pediatric Neurological Surgery, Presented December 2010
17. Reed GT, **Shannon CN**, Oakes WJ, Blount JP, Wellons JC, Rozzelle CJ. *Hemorrhagic Complications Following Ventriculosubgaleal Shunt Insertion in VLBW Infants with Post-Hemorrhagic Hydrocephalus:*

Incidence and Associated Clinical Factors, Congress of Neurological Surgeons Annual Meeting, Poster October 2010

18. Fleming JB, Richards BF, Naftel RP, Argo JL, Walters BC, **Shannon CN**, Taylor TH, Tubbs RS, Clements RH, Harrigan MR *Evaluation of the Laparoscopic versus Open Techniques for Distal Ventriculoperitoneal Shunt Catheter Placement in Patients with Aneurysmal Subarachnoid Hemorrhage*. AANS/CNS Cerebrovascular Section, Accepted 2010
19. Fleming JB, Richards BF, **Shannon CN**, Walters BC, and Harrigan MR. *Magnetic Resonance Angiography versus Digital Subtraction Angiography in the Follow-Up of Coiled Intracranial Aneurysms: A Real-World Cost Analysis*. AANS/CNS Cerebrovascular Section, Accepted 2010
20. Naftel RP, Tubergen E, **Shannon CN**, Gran K, Vance H, Tubbs RS, Rozzelle C, Oakes WJ, Blount JP, Wellons JC. *Parental Recognition of Shunt Failure*. Southern Neurosurgical Society, Presented February 2011.
21. Sohn JE, Menendez J, Reed GT, **Shannon CN**, Riley KO, Vaughan TB. *Outcomes After Dopamine Agonist Withdrawal in Macroprolactinomas*. The Endocrine Society Annual Meeting, Presented 2011
22. Broome CE, Houston A, Reed GT, Winkler MK, Rozzelle CJ, **Shannon CN**. *Pediatric abusive head trauma: Incidence unchanged*. APHA Student Caucus, Accepted for Presentation Oct 2011
23. Griessenauer CJ, Poston TL, Mortazavi MM, Falola M, **Shannon CN**, Fisher WS. *The Impact of Temporary Artery Occlusion during Intracranial Aneurysm Surgery in Subarachnoid Hemorrhage Patients*. Congress of Neurological Surgeons Annual Meeting, Accepted Oct 2011
24. Griessenauer CJ, Poston TL, Mortazavi MM, Falola M, **Shannon CN**, Fisher WS. *The Impact of Temporary Artery Occlusion during Intracranial Aneurysm Surgery in Subarachnoid Hemorrhage Patients*. Congress of Neurological Surgeons Annual Meeting, Accepted Oct 2011
25. Allen LA, Safiano NA, Falola MI, Broome CE, **Shannon CN**, Wellons JC. *Predictors and Outcomes of Surgical Intervention for Birth-Related Brachial Plexus Palsy*. AANS/CNS Pediatric Section Meeting, Presented 2011
26. Foppe SE, **Shannon CN**, Falola MI, Wellons JC, Oakes WJ. *Shorter Stay and Similar Complication Rate with Limited Laminotomy for Selective Dorsal Rhizotomy; A Comparison Study*. AANS/CNS Pediatric Section Meeting, Presented 2011
27. Arynchyna AA, Ditty BJ, Blount JP, Wellons JC, **Shannon CN**. *Comparing mobility outcomes of the MOMS to a single institutional experience*. 2nd World Congress in Spina Bifida. Presented 2012
28. Bey AK, Veselsky S, Hopson S, **Shannon CN**, Conklin M. *Factors Associated with Ambulatory Status in Children with Myelomeningocele*. 2nd World Congress in Spina Bifida. Presented 2012
29. Blount JP, Hopson B, **Shannon CN**, Riley KO, Okor M, Pritchard PR. *Transitional Care in Neurosurgery: follow up from a 12 month experience*. 2nd World Congress in Spina Bifida. Presented

2012

30. Reed GT, **Shannon CN**, Blount JP. *Shunt insufficiency is valid concept in managing hydrocephalus in myelomeningocele*. 2nd World Congress in Spina Bifida. Presented 2012
31. Davis D, Arynchyna AA, Velsesky S, Bey AK, **Shannon CN**. *Change in Mobility in a Post-Pubertal Cohort with Spina Bifida*. 2nd World Congress in Spina Bifida. Presented 2012
32. Hopson B, **Shannon CN**, Drew D, Blount JP, Pritchard PR. *From Transition Challenges to Successes: Establishing a Spina Bifida Adult Care Clinic*. 2nd World Congress in Spina Bifida. Presented 2012
33. Brown S, Wilkins SA, Falola MI, Crowther M, **Shannon CN**, Johnston JM. *Establishment of a multidisciplinary program for management of children with sports-related concussion: standardization of quality care*. AANS/CNS Pediatric Section, Presented 2012.
34. McGirt MJ, **Shannon CN**, Cheng JS, Guillamondequi O, Godil SS. *Outpatient vs. Inpatient Anterior Cervical Discectomy and Fusion is associated with Improved Patient Safety: Analysis of 7,288 patients from NSQIP Database*. Congress of Neurological Surgeons Annual Meeting, Presented 2013.
35. Tulipan N, Carroll MA, Bruan S, Dabrowiak M, Crum A, Paschall R, Kavanough-McHugh A, **Shannon CN**, Wellons JC, Bennett K. *Reducing Perinatal Complications and Early Preterm Delivery for Patients undergoing In Utero Closure of Fetal Myelomeningocele: Further Modifications to the Multidisciplinary Surgical Technique*. AANS/CNS Pediatric Section, Presented 2013.
36. Ladner TR, Dewan MC, Day M, Tulipan N, **Shannon CN**, Tomycz L, Wellons JC. *Odontoid Retroflexion Correlates with Degree of Tonsillar Ectopia in Children with Chiari I Malformation*. AANS/CNS Pediatric Section, Presented 2013.
37. Theobald B, Pekala K, Kelly K, Greeno A, Wellons JC, Tullipan N, **Shannon CN**. *Impact Of Serum Glucose And Temperature As Clinical Predictors Of Prolonged Seizure Activity And Mortality In Pediatric Traumatic Brain Injury*. AAP, Presented Oct 2014.
38. Morgan, C, Wolf MS, Le T, Mettler B, Wellons JC, **Shannon CN**. *A Retrospective Analysis of Hydrocephalus Following the Bi-Directional Glenn Procedure for Single-Ventricle Congenital Heart Disease*. CNS, Oral Poster 2014.
39. Wolf M, Morgan C, Le T, Mettler B, Wellons JC, **Shannon CN**. *Hydrocephalus Following the Bi-Directional Glenn Procedure for Single-Ventricle Congenital Heart Disease*. AAP. Presented October 2014.
40. Morgan CD, Wolf MS, Le T, Mettler B, **Shannon CN**, Wellons JC. *Assessing Increased Cerebral Ventriculomegaly in Children Following the Bi-Directional Glenn Procedure for Single-Ventricle Congenital Heart Disease*. AANS/CNS Pediatric Section, Presented December 2014.
41. Ladner TR, Westrick AC, Kelly K, Tulipan K, Naftel RP, Wellons JC, **Shannon CN**. *Validation of CHIP: A*

Patient-Reported Health-Related Quality of Life Instrument for Pediatric Chiari I Malformation. AANS/CNS Pediatric Section, Presented December 2014.

42. Wellons JC, **Shannon CN**, Holubkov R, Riva-Cambrin J, Kulkarni A, Limbrick D, Browd S, Rozzelle CJ, Simon T, Tamber M, Whitehead W, Kestle J. *Shunting Outcomes in Post-Hemorrhagic Hydrocephalus (SOPHH): Evaluating compliance to a standardized protocol and surgeon preference on intervention weight.* AANS/CNS Pediatric Section, Poster December 2014.
43. O'Lynnnger T, **Shannon CN**, Greeno A, Le T, Chung D, Lamb F, Wellons JC. *Standardizing the Initial and ICU Management of Pediatric Traumatic Brain Injury Improves Outcomes at Discharge: A Pre- and Post-Implementation Comparison Study.* AANS/CNS Pediatric Section, Poster December 2014.
44. Bey AK, Westrick AC, Brock JW, Wellons JC, **Shannon CN**. *Surgical Outcomes Center for Kids (SOCKs): The Establishment of a Patient-Centered Outcomes Research Program.* American Public Health Association Annual Meeting 2015 [Oral Presentation Accepted].
45. Pinto Venessa, Pruthi S, Westrick A, **Shannon CN**, Bridges B, Le TM. *Brain MRI findings in pediatric patients post ECMO.* ELSO Annual Meeting 2015 [Presented].
46. Alvarado A, Bey AK, Oakes P, **Shannon CN**, Mencio GA, Naftel RP. *X-Rays vs. CT in identifying significant c-spine injuries in the pediatric population.* AANS/CNS Pediatric Section Annual Meeting 2015 (Accepted for Top Poster Presentation).
47. Morgan CD, Ladner TR, Moore MN, Yang G, Walsh W, Wellons JC, **Shannon CN**. *Early Elective Delivery for Fetal Ventriculomegaly: A Retrospective Analysis of Risks and Benefits.* AANS/CNS Pediatric Section Annual Meeting 2015 (Accepted and Winner Top Poster Presentation).
48. Godown J, McKane M, Mettler BA, Westrick AC, **Shannon CN**, Chen H, Zhao S, Dobb DA. *Increased frequency of surveillance biopsy does not improve pediatric heart transplant outcomes: Time for a change in practice?* 2016 International Society of Heart and Lung Transplantation (ISHLT) (Presented).
49. Basanez IZ, Woodworth BA, Brown RF, Sawicki G, **Shannon CN**, Virgin FW. *Treatment of chronic rhinosinusitis in Cystic Fibrosis: A survey study comparing pediatric pulmonologists and pediatric otolaryngologists.* American Society of Pediatric Otolaryngology (ASPO) (Presented).
50. Simon TD, Kronman M, Gove N, Whitlock K, Browd S, Holubkov R, Kestle J, Kulkarni A, Langley M, Limbrick D, Luerksen T, Oakes J, Riva-Cambrin J, Rozzelle C, **Shannon C**, Tamber M, Wellons J, Whitehead W, Hamblett N. *Surgical approach to treatment of first cerebrospinal fluid (CSF) shunt infection is associated with reinfection.* Pediatric Academic Societies meeting, May 3, 2016, Baltimore, Maryland. (Oral presentation)
51. Bonfield CM, Pellegrino R, Berkman J, Naftel RP, **Shannon CN**, Wellons JC. *Oral Presentation to Publication: Comparing Rates Across Pediatric Neurosurgical Meetings.* AANS/CNS Pediatric Section

Annual Meeting 2016. (Accepted as a poster)

52. 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*. AANS/CNS Pediatric Section Annual Meeting 2016. (Accepted as a poster)
53. M Prablek, A Brown, S Gannon, M Dewan, **CN Shannon**, RP Naftel. *Cerebrospinal Fluid Composition after Endoscopic Third Ventriculostomy with Choroid Plexus Cauterization*. AANS/CNS Pediatric Section Annual Meeting 2016. (Accepted for oral presentation)
54. Hale A, Chrysostome C, Ladner T, Pinto V, Le T, **Shannon CN**. *Predicting Survival in Traumatic Brain Injury Children: A comparison of CT Grading Classifications*. AANS/CNS Pediatric Section Annual Meeting 2016. (Accepted for oral presentation)
55. Douleh D, Westrick A, Braun S, Paschall R, Kavanaugh-McHugh A, Bennett KA, **Shannon CN**, Wellons JC. *Primary versus Bipedicle Flap Closure in Intrauterine Myelomeningocele Repair*. AANS/CNS Pediatric Section Annual Meeting 2016. (Accepted as a poster)
56. Morgan BA, Pinto V, Westrick AC, **Shannon CN**, Mettler BA, Bichell DP. *Neonatal Aortic Arch Reconstruction with Splanchnic and Cerebral Perfusion Avoids Deep Hypothermia and Supports Recovery of Extracardiac Organs*. Accepted to Southern Thoracic Surgeon Association (STSA), 2016. (Accepted for oral presentation)
57. Virgin F, Wu J, Choi E, McNeill-Simaan E, **Shannon CN**, Virgin F. *Evaluating The Sinus And Nasal Quality Of Life Survey (Sn-5) In The Pediatric Cystic Fibrosis (Cf) Patient Population*. American Society of Pediatric Otolaryngology (ASPO) 2016. (Accepted as a poster)
58. Xie D, Wang R, McNeill-Simaan E, Virgin F, Penn E, Chinnadurai S, **Shannon CN**, Wootten CT. *Understanding Sociodemographic Factors Related To Health Outcomes In Pediatric OSA And ROSA Patients*. American Society of Pediatric Otolaryngology (ASPO) 2016. (Accepted as a poster)
59. Gallant J, Basem J, Turner JH, **Shannon CN**, Virgin FW. *Nasal irrigation in pediatric rhinosinusitis: a systematic review*. American Society of Pediatric Otolaryngology (ASPO) 2016. (Accepted as a poster)
60. Lauderdale CJ, Shultz M, Clayton DB, Tanaka ST, Thomas JC, Pope JC, Adams MC, Brock JW, **Shannon CN**. *The Surgical Outcomes Center for Kids: A Research Model for Pediatric Urology*. AUA Meeting 2017 (Oral Presentation).
61. Lim Jaims, Tang AR, Hysong AA, Hale AT, Bonfield CM, Naftel RP, Wellons JC, **Shannon CN**. *Evaluating the Cost-Effectiveness of Treatment Options for the Pediatric Hydrocephalus Population*. AANS/CNS Pediatric Section Annual Meeting 2017. (Oral Presentation)
62. Brooks E, Zhao S, Gannon SR, Guidry B, Wellons JC, **Shannon CN**. *Evaluating Surgical Outcomes in Pediatric Chiari I Malformations*. AANS/CNS Pediatric Section Annual Meeting 2017. (Poster)

63. Bonfield CM, **Shannon CN**, Reed RW, Wellons JC, For the Hydrocephalus Clinical Research Network (HCRN) *CSF Diversion in Patients with Craniosynostosis: An analysis from the HCRN Prospective Registry* AANS/CNS Pediatric Section Annual Meeting 2017. (Poster)
64. Berkman JM, Bhatia R, Brown A, **Shannon CN**, Esbenshade A, Wellons JC. *Health Disparities in the Pediatric Brain Tumor Population*. AANS/CNS Pediatric Section Annual Meeting 2017. (Top Poster Candidate)
65. Simon TD, Kronman MP, Whitlock KB, Kestle JR, Kulkarni AV, Limbrick DD, Riva-Cambrin J, Rozzelle CR, **Shannon CN**, Tamber M, Wellons JC, Whitehead WE on behalf of the Hydrocephalus Clinical Research Network (HCRN). *Reinfection rates following adherence to Infectious Diseases Society of America (IDSA) guidelines in first cerebrospinal fluid (CSF) shunt infection treatment*. AANS/CNS Pediatric Section Annual Meeting 2017. (Oral Presentation)
66. Craig AM, Heerboth SA, Chen H, Lauderdale CJ, McNeill-Simaan E, **Shannon CN**, Zuckerwise LC. *Fetal Growth Restriction (FGR): The Value of Second Trimester Ultrasound Screening*. SMFM Annual Meeting 2017. (Poster).
67. Walters S, MacNicoll C, Sala C, Lipscomb B, **Shannon CN**, Virgin F. *Impacting Clinical Care of Pediatric Tracheostomy Patients: A QI Initiative*. Global Tracheostomy Collaborative Meeting 2018. (Oral Presentation).
68. Cyrus AM, Lauderdale CJ, Huang Anna, Jacobson DL, Clayton DB, Pope JC, Tanaka ST, Brock JW, **Shannon CN**, Thomas JC. *Bladder augmentation: Are the risks the same if primary surgical indication is hostile bladder vs. urinary incontinence?* SESAUA Meeting 2018 (Poster).
69. De S, Tanaka ST, Thomas JC, Pope JC, Adams MC, Brock JW, **Shannon CN**, Clayton DC. *Use of Machine Learning to Improve Interpretation of Newborn Videourodynamic*s. AUA Meeting 2018. (Poster Presentation).
70. Huang A, DeLozier S, Lauderdale CJ, Clayton DB, Pope JC, Tanaka ST, Adams MC, **Shannon CN**, Brock JW, Thomas JT. *Evaluating the treatment delays contributing to testicular torsion outcomes in pediatric patients*. SESAUA Meeting 2018 (Oral Presentation).
71. Cabo J, **Shannon CN**, Chen H, Thomas J. *Use of the TWIST Score for Risk Stratification of Children with Testicular Torsion: Testicular Firmness Predicts Need for Orchiectomy*. Pediatric Urology Fall Congress (Accepted Moderated Poster).
72. Pope JC, Dudley AG, Brock JW, Adams M, Thomas JC, Tanaka ST, Taylor AS, Clayton DB, **Shannon CN**. *Patient Satisfaction Surveys: Negative Effects on Health Care Delivery*. Pediatric Urology Fall Congress. (Accepted Moderated Oral Presentation).

73. Kelly KA, Bey AK, Monk SH, Chen H, Koschnitzky J, **Shannon CN**. *Sociodemographic Barriers to Seeking Medical Evaluation in the Pediatric Hydrocephalus Population*. International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Oct 2018 (Accepted for Oral Presentation).
74. Monk S, Zhao S, Strahle J, Averill C, Couture D, Johnston J, Kelly M, Torner J, Park TS, Limbrick DL, Bonfield C, **Shannon CN**. *Predictors of Spinal Fusion Within Two Years of Posterior Fossa Decompression in Patients with Chiari Malformation Type 1 and Scoliosis: A Multi-Institutional Experience with the Park-Reeves Syringomyelia Research Consortium*. Congress of Neurological Surgeons 2018 (Accepted for Oral Presentation).
75. Lim J, Tang AR, Liles DC, Hyson AA, Hale AT, Bonfield CM, Naftel RP, Wellons JC, **Shannon CN**. *The Cost of Pediatric Hydrocephalus: A US Cost-Effectiveness Model*. International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Oct 2018 (Accepted for Oral Presentation).
76. Lim J, Davis A, Tang A, **Shannon CN**, Bonfield C. *Caregiver stress in children with craniosynostosis: A systematic literature review*. International Society for Pediatric Neurosurgery Oct 2018 (Accepted for Oral Presentation).
77. Gallant JN, Morgan C, Stoklosa J, Gannon SR, **Shannon CN**, Bonfield C. *Psychosocial Difficulties in Adolescent Idiopathic Scoliosis: Body Image, Eating Behaviors, and Mood Disorders*. International Society for Pediatric Neurosurgery Oct 2018 (Accepted for Oral Presentation).
78. Hale AT, Stonko DP, Lim J, Guillaumondegui OD, **Shannon CN**, Patel MB. *Machine-Learning Predicts Clinically-Relevant Traumatic Brain Injury in Children*. International Society for Pediatric Neurosurgery Oct 2018 (Accepted for Oral Presentation).
79. Hale AT, Gannon SR, Zhao S, Dewan M, Bhatia R, Stanton AN, Naftel RP, **Shannon CN**, Pruthi S, Wellons JC. *Dural Graft Closure Reduces Post-Operative Complications in Pediatric Patients Undergoing Posterior Fossa Brain Tumor Resection Independent of Perioperative EVD Placement*. AANS/CNS Pediatric Section Annual Meeting 2018 (Accepted Poster).
80. Hale AT, Stonko DP, Strahle JM, Iyer R, Tuite GF, Park TS, Grant GA, Limbrick DL, **Shannon CN** for the Park-Reeves Syringomyelia Research Consortium. *Creation of a Predictive Model of Post-Operative Hydrocephalus in Patients with Chiari-I Malformation and Syringomyelia Undergoing Posterior Fossa Decompression: A Study from the Park-Reeves Research Consortium*. AANS/CNS Pediatric Section Annual Meeting 2018 (Accepted Oral Presentation).
81. Liles, C, Dallas J, Gannon SR, Bonfield C, **Shannon CN**. *The Economic Impact of Open vs. Endoscopic-Assisted Craniosynostosis Surgery*. AANS/CNS Pediatric Section Annual Meeting 2018 (Accepted Oral Presentation).

82. Reynolds R, Dixon M, Gannon SR, Bonfield C, Naftel RP, Wellons JC, **Shannon CN**. *The roles of socioeconomic status and parental concern in pediatric hydrocephalus management*. AANS/CNS Pediatric Section Annual Meeting 2018 (Accepted Poster).
83. Chotai S, Patel P, Liles C, Chen H, Zhao S, **Shannon CN**, Chitale RV, Fusco MR. *Impact of Comorbidity Adjusted Complications on Outcomes following Surgical Management of Ruptured Cerebral Aneurysm*. AANS Annual Meeting 2019 (Submitted).
84. Patel P, Chotai S, Liles C, Chen H, Zhao S, **Shannon CN**, Fusco MR, Chitale RV. *The Effects of Neurovascular Comorbidities and In-Hospital Complications for Unruptured Aneurysm*. AANS Annual Meeting 2019 (Submitted).
85. Dallas D, Liles C, **Shannon CN**, Chitale RV, Fusco MR. *Predictors of Increased Morbidity in Aneurysmal Subarachnoid Hemorrhage Patients Using National Inpatient Sample-SAH Outcome Measure*. AANS Annual Meeting 2019 (Submitted).
- 86.
- 87.

POSTER EXHIBITS

1. **Shannon CN**, Kirby RS, Acakpo-Satchivi L, Tubbs RS, Blount JP, Oakes WJ, Wellons JC. *Neonatal Factors are Associated with Ventriculo-Peritoneal Shunt Failure*. AANS/CNS Section on Pediatric Neurological Surgery, December 2010
2. **Shannon CN**, Bauer DF, Westrick AC, Chern JJ, Wellons JC, Rozzelle C, Oakes WJ, Blount JP. *Justification of Empiric Vancomycin Utilization for the Treatment of CSF Shunt Infections*. AANS/CNS Section on Pediatric Neurological Surgery, December 2010
3. **Shannon CN**, Reed GT, Simon T, Kilgore ML, Wellons JC. *The Economic Impact of Ventriculo- Peritoneal Shunt Failure*. AANS/CNS Section on Pediatric Neurological Surgery, December 2010
4. **Shannon CN**, Broome CE, Falola MI, Oakes WJ, Dure L. *Using the SF-10 Health Survey to Determine Overall Health in Patients Referred for Chiari Consultation*. AANS/CNS Pediatric Section Meeting. December 2011
5. Arynchyna AA, **Shannon CN**, Ditty CN, Oakes WJ, Blount JP, Wellons, JC. *Applying the MOMS Shunting Criteria to a Single Institutional Experience*. AANS/CNS Pediatric Section Meeting. December 2011
6. Wilkins SA, **Shannon CN**, Falola MI, Reed GT, Jones H, King A, Davis D, Johnston JM. *Defining Variation in Management of Children with Sports-Related Concussion: First Step to Standardization*. AANS/CNS Pediatric Section Meeting, December 2011

7. Veselsky S, Aune K, Shufflebarger E, Bey A, Arynchyna A, **Shannon CN**, Wellons JC. *Evaluating Infection Trends in a Pediatric Acute Care Facility*. AANS/CNS Pediatric Section, December 2012
8. Pekala K, Kelly K, Leathers J, Caldwell R, Greeno A, Unni P, Wellons JC, Tulipan N, **Shannon CN**. *Glucose Levels are Predictive of Prolonged Seizure Activity*. AANS/CNS Pediatric Section, December 2013
9. Kelly K, Pekala K, Leathers JS, Greeno A, Unni P, Wellons JC, Tulipan N, **Shannon CN**. *Patient characteristics and clinical decision making in the pediatric traumatic brain injury patient population: an institutional review*. AANS/CNS Pediatric Section, December 2013
10. Carr K, Wallace A, Tomycz L, **Shannon CN**, Wellons JC, Tulipan N. *Time to first shunt failure in pediatric patients over 1 year old: A 10 year retrospective study*. AANS/CNS Pediatric Section, December 2013
11. Brown ZB, Westrick AC, He L, Kelly K, Caldwell R, Wellons JW, **Shannon CN**. *Barriers to Identification of Pediatric Craniofacial Diagnoses*. AANS/CNS Pediatric Section, December 2014.
12. Westrick AC, Pinto VP, Alvarado A, Ehrenfeld JM, Le T, Wellons JC, **Shannon CN**. *Multidisciplinary Treatment of Severe Pediatric Traumatic Brain Injury: Predictors of Increased Resource Utilization*. AANS/CNS Pediatric Section, December 2014.
13. Pekala K, Theobald B, He L, Monk SH, Wellons JC, **Shannon CN**. *Serum glucose and temperature predict prolonged seizure activity and mortality in pediatric traumatic brain injury*. AANS/CNS Pediatric Section, December 2014.
14. Pellegrino R, Ladner T, Westrick A, Wellons JC, **Shannon CN**. *Chiari Health Index for Pediatrics (CHIP): Assessing short term quality of life in the surgical and non-surgical pediatric Chiari Type I patient population*. AANS/CNS Pediatric Section Annual Meeting 2016.
15. **Shannon CN**. *Surgical Outcomes Center for Kids (SOCKs): A Model for Quality Improvement and Patient Outcomes*. StrategyShare 2017, Vanderbilt University Medical Center
16. **Shannon CN**, Bey AK, Gannon SR, Beauchamp RD, Brock JW, Wellons JC. *Surgical Outcomes Center for Kids: A Research Model for Pediatric Neurosurgery*. AANS/CNS Pediatric Section Annual Meeting 2017. (Top Poster Candidate)
17. Bey AK, Kelly K, Chen H, Koschnitzky J, **Shannon CN**. *Evaluating the Impact of Socioeconomic Factors on Shunt, ETV, or ETV/CPC Failure Recognition: A National Caregiver Survey*. AANS/CNS Pediatric Section Annual Meeting 2017. (Poster)

ORAL PRESENTATIONS AND POSTERS

1. **Shannon CN**, Reed GT, Simon T, Kilgore ML, Wellons JC. *The Economic Impact of Ventriculo- Peritoneal Shunt Failure*. 2010 Galbraith Lecture, Division of Neurosurgery, University of Alabama at Birmingham.
2. **Shannon CN**, Broome CE, Houston AI, Reed GT, Winkler MK, Rozzelle CJ. *Abusive Head Trauma Trends and Clinical Predictors of Outcome: An Institutional Experience*. Third International Conference on Pediatric Abusive Head Trauma, July 2011
3. Arynchyna AA, Ditty BJ, Oakes WJ, Blount JP, Wellons JC, **Shannon CN**. *Evaluating representation of MOMS results: a retrospective single institution study*. 2nd World Congress in Spina Bifida, March 2012.
4. Aune K, Veselsky S, Shufflebarger E, Arynchyna A, Bey A, Wellons JC, **Shannon CN**. *Evaluating Infection Trends in Pediatric Neurosurgical Patients: A multidisciplinary process improvement initiative*. AANS/CNS Pediatric Section, December 2012
5. **Shannon CN**, Reeder R, Kulkarni AV, Limbrick DD, Riva-Cambrin J, Rozzelle CR, Tamber M, Whitehead W, Kestle J, Wellons JC. *Early Neurodevelopmental Outcomes in the Shunting Outcomes of Posthemorrhagic Hydrocephalus (SOPHH) Study*. AANS/CNS Pediatric Section Annual Meeting 2016.