

**CURRICULUM VITAE**

**6/8/2017**

**PERSONAL DATA**

**NAME:** Jay K. Riva-Cambrin, M.D.  
**BIRTHDATE:** November 28, 1972  
**BIRTHPLACE:** Edmonton, Alberta, Canada  
**CITIZENSHIP:** Canadian  
**CURRENT POSITIONS:** Associate Professor with Tenure  
Director- Neurosurgery Residency Program  
Full Member- ACH Research Institute (ACHRI)  
Department of Clinical Neurosciences  
Division of Pediatric Neurosurgery  
Department of Community Health Sciences  
University of Calgary  
Alberta Children's Hospital

**EDUCATION**

**1994 UNDERGRADUATE EDUCATION:**  
University of Alberta, Edmonton, Alberta, Canada  
B.Sc., with Specialization, Pharmacology

**1998 MEDICAL SCHOOL:**  
University of Alberta, Edmonton, Alberta, Canada  
M.D.

**2007 POST-GRADUATE SCHOOL:**  
University of Toronto, Toronto, Ontario, Canada  
M.Sc., Department of Health Policy, Management, and Evaluation  
(Clinical Epidemiology)

**1999 INTERNSHIP:**  
University of Toronto, Toronto, Ontario, Canada  
Department of Surgery

**2005 RESIDENCY TRAINING:**  
Neurosurgery, University of Toronto, Toronto, Ontario, Canada

**2006 FELLOWSHIPS:**  
Pediatric Neurosurgery, The Hospital for Sick Children, Toronto, Ontario, Canada

**ACADEMIC APPOINTMENTS**

**2006-2013** Assistant Professor Department of Neurosurgery  
Division of Pediatric Neurosurgery  
University of Utah

**2013-2015** Associate Professor with Tenure Department of Neurosurgery  
Division of Pediatric Neurosurgery  
University of Utah

Max Noorda Endowed Chair  
Pediatric Neurosurgery Fellowship Program Director  
University of Utah School of Medicine  
Medical Director, Neurotrauma Unit  
Primary Children's Hospital

**2015-Present** Associate Professor with Tenure  
Director- Neurosurgery Residency Program  
Full Member- ACHRI  
Department of Clinical Neurosciences  
Division of Pediatric Neurosurgery  
University of Calgary  
Alberta Children's Hospital

### **BOARD CERTIFICATIONS**

06/26/05 Royal College of Physicians and Surgeons of Canada 638179  
04/24/07 Royal College of Canada Clinical Investigator Program  
12/02/08 American Board of Pediatric Neurological Surgery 08-0019

### **CERTIFICATION/LICENSING**

Licentiate of the Medical Council of Canada I (1998)  
Licentiate of the Medical Council of Canada II (1999)  
Advanced Trauma Life Support (ATLS) (1999)  
Advanced Cardiac Life Support (ACLS) (1998)  
Utah State License (2006-2016)  
Utah State Controlled Substance License (2006-2016)  
DEA Certificate, Utah (2006-2016)  
College of Physicians and Surgeons of Alberta License (2015-present)

### **PROFESSIONAL SOCIETIES**

Royal College of Physicians and Surgeons of Canada, 2006  
Member of the Canadian Medical Association, 1998-2006, 2015-present  
Resident member of the Congress of Neurological Surgeons 1998 - 2006  
Resident member of the Congress of Neurological Surgeons/American  
Association of Neurological Surgeons, Section on Tumors 2001 – 2006  
Member, American Association of Neurological Surgeons, 2007  
Member, American Medical Association, 2007-2015  
Member, Utah Medical Association, 2008-2015  
Member, American Association of Neurological Surgeons Pediatric Section, 2008  
Member, Congress of Neurological Surgeons, 2010  
Member, American Society of Pediatric Neurosurgeons, 2010  
Member, Canadian Neurological Sciences Federation, 2015

### **UNIVERSITY & ADMINISTRATIVE ACTIVITIES**

## **INTERNATIONAL**

<b>2003-Present</b>	Member of the Canadian Pediatric Neurosurgery Study Group, Investigator
<b>2007-Present</b>	Hydrocephalus Clinical Research Network (HCRN) Principal Investigator University of Utah Site (2007-2015) University of Calgary Site (2015-present)
<b>2014-Present</b>	Cure Hydrocephalus Advisory Board (CHAB)
<b>2015-Present</b>	International Federation of Neuroendoscopy (IFNE) Member of the Executive Board

## **NATIONAL**

<b>2009-2013</b>	Member of AANS/CNS Pediatric Section Guidelines Committee
<b>2013-2014</b>	Member of AANS International Outreach Committee
<b>2015-present</b>	Member, Royal College of Physicians and Surgeons Neurosurgery Specialty Committee

## **UNIVERSITY OF UTAH**

<b>2010-2015</b>	Fellowship Program Director- Division of Pediatric Neurosurgery, University of Utah/Primary Children's Medical Center
<b>2012-2015</b>	Department of Neurosurgery Research Funding Committee, Co-Chair
<b>2013-2015</b>	Residency Clinical Competency Committee

## **UNIVERSITY OF CALGARY**

<b>2016-Present</b>	Director- Residency Program- Division of Neurosurgery, University of Calgary
<b>2015-2016</b>	Associate Director- Neurosurgery Residency Program
<b>2015- Present</b>	Residency Program Committee- Division of Neurosurgery, University of Calgary

## **HOSPITAL COMMITTEES**

<b>2013-2015</b>	SQIT-Surgical Quality Improvement Team Member Primary Children's Hospital
<b>2013-2015</b>	SQIT Executive Committee-Member Primary Children's Hospital
<b>2014-2015</b>	Medical Director of the Neuro-trauma unit Primary Children's Hospital
<b>2016- present</b>	ACHEWS Escalation Committee- Member Alberta Children's Hospital

## **OTHER UNIVERSITY ACTIVITIES**

<b>1994-1998</b>	Sports Director of the Medical Students Association, Faculty of Medicine, University of Alberta
<b>2000-2002</b>	Elected Representative on the Residency Program Committee, Division of Neurosurgery, University of Toronto
<b>2002-2006</b>	University of Toronto Surgeon Scientist Program, Member
<b>2002-2006</b>	Clinical Investigator Program (CIP), Member

## **JOURNAL REFEREE**

<b>2008-Present</b>	Reviewer, Journal of Neurosurgery Pediatrics
<b>2011-Present</b>	Reviewer, New England Journal of Medicine (ad-hoc)
<b>2011-Present</b>	Reviewer, Journal of Orthopaedic Surgery and Research
<b>2013-Present</b>	Reviewer, Pediatric Neurosurgery
<b>2013-Present</b>	Reviewer, Journal of Neurosurgery
<b>2015-Present</b>	Reviewer, Journal of Pediatrics (ad hoc)

## **SCIENTIFIC MEETING ABSTRACT REVIEWS**

<b>2012</b>	Annual Meeting of AANS/CNS Section on Pediatric Neurological Surgery
<b>2013</b>	Annual Meeting of AANS/CNS Section on Pediatric Neurological Surgery
<b>2015</b>	Annual Meeting of the Congress of Neurosurgery
<b>2015</b>	Annual Meeting of AANS/CNS Section on Pediatric Neurological Surgery

## **SCHOLASTIC HONORS**

<b>1990</b>	The University of Alberta Women's Club of Edmonton Scholarship
<b>1990</b>	Knights of Columbus Memorial Scholarship
<b>1990</b>	University of Alberta, Early Acceptance Scholarship
<b>1990</b>	Canada Science Scholarship, University of Alberta (4 years)
<b>1990</b>	Independent Order of Foresters Scholarship (4 years)
<b>1990</b>	First-Class Honors, University of Alberta (1990-1994)
<b>1994</b>	First Class Honors, University of Alberta, Faculty of Medicine (1994-1998)
<b>1996</b>	The Nat Christie Memorial Foundation Scholarship University of Alberta, Faculty of Medicine
<b>2001</b>	The Congress of Neurological Surgeons International Fellowship for Developing Nations (Zimbabwe)
<b>2004</b>	Hydrocephalus Association Resident Award (Best resident oral presentation at the 2004 AANS/CNS Section of Pediatric Neurological Surgery Meeting on the topic of hydrocephalus).
<b>2004</b>	Claire Bombardier Award in Clinical Epidemiology (Highest academic average and the most promising Masters' student in the Clinical Epidemiology program at the University of Toronto)
<b>2004</b>	Warren Ho Memorial Scholarship

- (Neurosurgical resident at the University of Toronto most representing research excellence and humanitarianism in that year)
- 2005** Hospital for Sick Children Clinical Research Prize-second place (Best resident clinical research project and oral presentation in any pediatric field at the HSC, Toronto)
- 2005** Kenneth G. McKenzie Clinical Research Prize  
(Best resident clinical research project in Canada relating to the field and practice of Neurosurgery)
- 2006** Hospital for Sick Children Student Humanitarian of the Year Award  
(Demonstration of compassion and humanitarianism towards patients and their families during training at the Hospital for Sick Children)
- 2015** Excellence in Faculty Teaching Award, University of Utah (chosen by the neurosurgery residents/trainees)

## **TEACHING**

- 2005-2006** Developed and conducted: Course for Functional Neuroanatomy  
University of Toronto/ Hospital for Sick Children  
Nurse Practitioners/ Nurse Managers  
Weekly (1.5 hour sessions) for 8 months
- 2006-Present** Participate in weekly departmental and divisional rounds teaching  
medical students, residents, and fellows
- 2006-Present** Daily teaching through rounds, clinic, or operating room of  
medical students, nursing students, residents, and fellow
- 2007-2015** Journal Club, Developer and Director  
Monthly, Department of Neurosurgery, University of Utah
- 2012** Grand Rounds: "Pitfalls of Managing CSF Drains"  
Primary Children's Hospital OR Staff
- September 2013** Grand Rounds: Progress of improving the care of children with  
hydrocephalus: the HCRN's impact and future studies  
Department of Neurosurgery, University of Utah
- July 2014** Grand Rounds: Hypothalamic/Chiasmatic Tumors  
Department of Neurosurgery, University of Utah
- August 2014** Grand Rounds: Posthemorrhagic Hydrocephalus in Premature  
Infants  
Division of Neonatology, University of Utah
- September 2014** Grand Rounds: Endoscopic Third Ventriculostomy  
Department of Neurosurgery, University of Utah
- 2015- Present** Journal Club, Director  
Division of Neurosurgery, University of Calgary
- December 2015** Grand Rounds: Modern Treatment for PHH Hydrocephalus in  
Premature Infants  
Division of Neonatology, University of Calgary
- April 2016** Fellows Rounds: Fetal Ventriculomegaly  
Department of Obstetrics (MFM), University of Calgary
- April 2017** Development of the University of Calgary Residents  
Neuroanatomy and Cadaver Dissection Course

## **GRADUATE STUDENTS SUPERVISED**

- 2011** Christina Sayama
- Research Resident, Department of Neurosurgery
  - MSPH, Department of Family and Preventative Medicine,
  - University of Utah
- 2014** Vijay Ravindra
- Research Resident, Department of Neurosurgery
  - MSPH, Department of Family and Preventative Medicine,
  - University of Utah

## **UNDERGRADUATE STUDENTS SUPERVISED**

- 2016** Nathalie Hader, University of Calgary
- The development of a psychosocial survey for infant hydrocephalus
  - O'Brien Centre Summer Studentship Award
- 2017** Nathalie Hader, University of Calgary
- Comparing subdural grids to depth electrode paradigms for pediatric epilepsy
  - O'Brien Centre Summer Studentship Award

## **GRANTS**

### **ACTIVE AWARDS**

#### **PEER REVIEWED**

- 2014-2018** A Randomized Control Trial of Anterior Versus Posterior Entry Site for CSF Shunt Insertion  
Principal Investigator: William Whitehead  
Direct Costs: \$1,797,600 Total Costs: \$2,514,333  
PCORI Research Contract CER-1403-13857  
Patient-Centered Outcomes Research Institute  
Role: Site Investigator
- 2014-2017** Neurodevelopment in Premature Infants  
Principal Investigator: Chevis Shannon  
Direct Costs: \$14,450 Total Costs: \$15,895  
Vanderbilt University  
Gerber Foundation Grant  
Role: Site Investigator
- 2011-2017** Ventricle Size Involvement in Neuropsychological Outcomes in pediatric Hydrocephalus  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$99,000 Total Costs: \$110,000

Hydrocephalus Association's Mentored Young Investigator Award  
Role: Principal Investigator

**NON-PEER REVIEWED**

**2012-2017** Neuroendoscopy and Hydrocephalus Program Development in Mali  
Principal Investigator: Jay Kenneth Riva-Cambrin/Oumar Diallo  
Total Costs: Complete Neuroendoscopy start-up equipment and unlimited shunts  
CURE Hydrocephalus Foundation  
Role: Principal Investigator

**PAST AWARDS**

**2014-2016** A Multi-Center Validation of the "Utah Scene" for Predicting Cerebrovascular Injury in the Pediatric Trauma Population  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$14,750 Total Costs: \$14,750  
Primary Children's Foundation Grant  
Role: Principal Investigator

**2014-2019** PCH Spina Bifida Patient Registry  
Principal Investigator: Paula Peterson  
Direct Costs: \$218,140 Total Costs: 312,970  
Disease, Disability, Injury Prevention and Control Special Emphasis Panel  
Center for Disease Control  
Role: Co-Investigator

**2012-2015** Risk Factors of Baclofen Pump Infection: A Multi-Centered Study  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$2,500 Total Costs: \$2,500  
AANS/CNS Section on Pediatric Neurological Surgery Research Grant  
Role: Principal Investigator

**2012-2013** Neurosurgery Fellowship Grant  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$50,000 Total Costs: \$50,000  
American Association of Neurological Surgeons  
Role: Principal Investigator

**2011-2014** Primary Children's Medical Center Spina Bifida Patient Registry  
Principal Investigator: Paula Peterson  
Direct Costs: \$93,022 Total Costs \$126,417  
ZCD1HMS (CDC) 1U01 DD000745-01  
Disease, Disability, and Injury Prevention and Control Special Emphasis Panel  
Role: Co-Investigator

- 2011-2012**            Neurosurgery Fellowship Grant  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$53,083    Total Costs: \$53,083  
American Association of Neurological Surgeons/NREF  
Role: Principal Investigator
- 2010-2011**            Neurosurgery Fellowship Grant  
Principal Investigator: Jay Kenneth Riva-Cambrin  
Direct Costs: \$50,000    Total Costs \$50,000  
AANS/ National Research Education Foundation (NREF)  
Role: Principle Investigator
- 2009-2011**            Hydrocephalus Clinical Research Network: A Consortium for Pediatric  
Hydrocephalus  
Principal Investigator: John R.W. Kestle  
Year 1: \$497,260.00    Year 2: \$497,440.00  
NIH (NINDS) Grant: 1RC1NS068943-01  
Role: Co-Investigator
- 2009-2011**            Molecular CSF Bacterial Shunt  
Principal Investigator(s): Tamara D. Simon  
Direct Costs: \$50,000    Total Costs: \$50,000  
Seeking Techniques Advancing Research in Shunts (STARS-kids)  
Role: Site Investigator
- 2007-2009**            VP Shunt Infections: Risk Factors and Costs  
Principal Investigator: Tamara Simon  
Direct Costs: \$50,000    Total Costs: \$50,000  
Primary Children's Foundation  
Role: Co-Investigator
- 2005**                    Brainchild Research Grant for:  
**Riva-Cambrin J, Lamberti-Pasculli M, Drake J: Phase II Clinical Study  
Examining the Safety and Efficacy of the Use of Prophylactic Third  
Ventriculostomies in Pediatric Posterior Fossa Tumor Patients at High  
Risk for Chronic Hydrocephalus**  
\$22, 450 CDN over 2 years
- 2004-2005**            Research Salary Support Award  
Johnson and Johnson Medical Products-Surgical Scientist Program  
Fellowship in Clinical Research  
\$25,000 CDN over 1 year
- 2004**                    The Physicians' Services Incorporated foundation Research Grant for:  
**Riva-Cambrin J, Lamberti-Pasculli M, Drake J: Pediatric posterior fossa  
tumors:**  
Preoperative predictors of chronic hydrocephalus.



\$20,000 CDN over 1 year

**2003-2004** Research Salary Support Award  
Government of Ontario/Wellesley Surgeons Graduate Scholarship in  
Science and Technology  
\$15,000 CDN over 1 year

## SERVICE

### INTERNATIONAL

**2008** Led a neurosurgical ten day mission in tandem with a general surgical mission to Bamako, Mali, Africa (Gabriel Toure Hospital) with the Mali Rising Foundation

- Organized medical and surgical supplies
- Gave grand rounds and daily hospital rounds
- For the purpose of teaching modern surgical care we conducted multiple clinics (over 120 patients in three days), and operated on ten patients with complex neurosurgical conditions in conjunction with the three existing Malian neurosurgeons
- Instructed Malian neurosurgeons on patient selection, anatomy, and theory of endoscopic third ventriculostomy (ETV)

**2008** Led a second seven day neurosurgical mission to Bamako, Mali with the equipment supplies for ETV

- Instructional clinics on patient selection for ETV
- Hands-on intraoperative instruction on performing ETV
- Daily rounds for instruction and guidance of postoperative care for ETV patients
- City-wide grand rounds

**2012** Obtained sustainable funding through CURE Hydrocephalus.

**2014** Founding member of CHAB

## PUBLICATIONS

### PEER-REVIEWED JOURNALS

1. Bennett TD, DeWitt PE, Dixon RR, Kartchner C, Sierra Y, Ladell D, Srivastava R, **Riva-Cambrin J**, Kempe A, Runyan DK, Keenan HT, Dean JM. Development and Prospective Validation of Tools to Accurately Identify Neurosurgical and Critical Care Events in Children With Traumatic Brain Injury. *Pediatr Crit Care Med*. 2017 Mar 1. doi: 10.1097/PCC.0000000000001120. [Epub ahead of print] PMID: 28252524.
2. Ravindra VM, **Riva-Cambrin J**, Horn KP, Ginos J, Brockmeyer R, Guan J, Rampton J, Brockmeyer DL. A 2D threshold of the condylar-C1 interval to maximize identification of patients at high risk for atlantooccipital dislocation using computed tomography. *J Neurosurg Pediatr*. 2017 Feb 3:1-6. Doi 10.3171/2016.10.PEDS16459. [Epub ahead of print] PMID: 28156214.
3. 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
4. Guan J, **Riva-Cambrin J**, Brockmeyer DL. Chiari-related hydrocephalus: assessment of clinical risk factors in a cohort of 297 consecutive patients. *Neurosurg Focus.* 2016 Nov;41(5):E2. PMID: 27798986
  5. 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.e2. doi: 10.1016/j.jpeds.2016.08.094. PMID: 27692463
  6. Flaherty BF, Moore HE, **Riva-Cambrin J**, Bratton SL. Pediatric patients with traumatic epidural hematoma at low risk for deterioration and need for surgical treatment. *J Pediatr Surg.* 2016 Sep 15. pii: S0022-3468(16)30326-8. doi: 10.1016/j.jpedsurg.2016.09.005. [Epub ahead of print] PMID: 27663125.
  7. Johns D, Anstadt E, Donato D, Kestle J, **Riva-Cambrin J**, Siddiqi F, Gociman B. Early Posterior Vault Distraction Osteogenesis for the Treatment of Syndromic Craniosynostosis. *Craniofac Trauma Reconstr.* 2016 Sep;9(3):219-23. doi: 10.1055/s-0036-1582455. Epub 2016 Apr 21. PubMed PMID: 27516836; PubMed Central PMCID: PMC4980137.
  8. Dewan MC, Ravindra VM, Gannon S, Prather CT, Yang GL, Jordan LC, Limbrick D, Jea A, **Riva-Cambrin J**, Naftel RP. Treatment Practices and Outcomes After Blunt Cerebrovascular Injury in Children. *Neurosurgery.* 2016 Jul 25. [Epub ahead of print] PubMed PMID: 27465848.
  9. 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.* 2016 Jul 25. [Epub ahead of print] PubMed PMID: 27297774.
  10. Kulkarni AV, **Riva-Cambrin J**, Holubkov R, Browd SR, Cochrane DD, Drake JM, Limbrick DD, Rozzelle CJ, Simon TD, Tamber MS, Wellons JC 3rd, Whitehead WE, Kestle JR; Hydrocephalus Clinical Research Network. Endoscopic third ventriculostomy in children: prospective, multicenter results from the Hydrocephalus Clinical Research Network. *J Neurosurg Pediatr.* 2016 Jun 3:1-7. [Epub ahead of print] PubMed PMID: 27258593.
  11. 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 May 27:1-5. [Epub ahead of print] PubMed PMID: 27231825.
  12. **Riva-Cambrin J**, Kestle J, Simon T for the HCRN. Response: Reducing the risk of shunt infection: beacons of light. *J Neurosurg Pediatr.* 2016 Apr; 17(4)379-381.

13. Spader HS, Bollo RJ, Bowers CA, **Riva-Cambrin J**. Risk factors for baclofen pump infection in children: a multivariate analysis. *J Neurosurg Pediatr.* 2016 Feb;26:1-7. [Epub ahead of print] PubMed PMID: 26919315
14. Kestle JR, Holubkov R, Douglas Cochrane D, Kulkarni AV, Limbrick DD Jr, Luerssen TG, Jerry Oakes W, **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. doi: 10.3171/2015.8.PEDS15253. Epub 2015 Dec 18. PubMed PMID: 26684763.
15. **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. doi: 10.3171/2015.6.PEDS14670. Epub 2015 Dec 4. PubMed PMID: 26636251.
16. Williams CN, **Riva-Cambrin J**, Bratton SL. Etiology of postoperative hyponatremia following pediatric intracranial tumor surgery. *J Neurosurg Pediatr.* 2016 Mar;17(3):303-9. doi: 10.3171/2015.7.PEDS15277. Epub 2015 Nov 27. PubMed PMID: 26613271
17. Lin CT, **Riva-Cambrin J**. Management of posterior fossa tumors and hydrocephalus in children: a review. *Childs Nerv Syst.* 2015 Oct;31(10):1781-9. Epub 2015 Sep 9. PMID: 26351230
18. Badhiwala JH, Hong CJ, Nassiri F, Hong BY, **Riva-Cambrin J**, Kulkarni AV. Treatment of posthemorrhagic ventricular dilation in preterm infants: a systematic review and meta-analysis of outcomes and complications. *J Neurosurg Pediatr.* 2015 Aug 28:1-11. [Epub ahead of print] PMID: 26314206
19. Johns D, Blagg R, Kestle JR, **Riva-Cambrin J**, Siddiqi F, Gociman B. Distraction Osteogenesis Technique for the Treatment of Nonsyndromic Sagittal Synostosis. *Plast Reconstr Surg Glob Open.* 2015 Aug 10;3(7): eCollection 2015 Jul. PMID: 26301163
20. Hamele M, Stockmann C, Cirulis M, **Riva-Cambrin J**, Metzger R, Bennett TD, Bratton SL. Ventilator-Associated Pneumonia in Pediatric Traumatic Brain Injury. *J Neurotrauma.* 2015 Oct 2. [Epub ahead of print] PMID: 2620370
21. Bowers CA, McMullin JH, Brimley C, Etherington L, Siddiqi FA, **Riva-Cambrin J**. Minimizing bone gaps when using custom pediatric cranial implants is associated with implant success. *J Neurosurg Pediatr.* 2015 Oct;16(4):439-44. Epub 2015 Jul 10. PMID: 26161719
22. Ravindra VM, Kraus KL, **Riva-Cambrin J**, Kestle JR. The Need for Cost-Effective Neurosurgical Innovation-A Global Surgery Initiative. *World Neurosurg.* 2015 Jun 26. pii: S1878-8750(15)00794-9. PMID:26123506
23. McAllister JP 2nd, Williams MA, Walker ML, Kestle JR, Relkin NR, Anderson AM, Gross PH, **Riva-Cambrin, J**, Browd SR; Hydrocephalus Symposium Expert Panel. An update on research priorities in hydrocephalus: overview of the third National Institutes of Health-sponsored symposium "Opportunities for Hydrocephalus Research: Pathways to Better Outcomes". *J Neurosurg.* 2015 Dec;123(6):1427-38. doi:10.3171/2014.12.JNS132352. Epub 2015 Jun 19. PubMed PMID: 26090833.

24. Limbrick DD Jr, Baird LC, Klimo P Jr, **Riva-Cambrin J**, Flannery AM; Pediatric Hydrocephalus Systematic Review and Evidence-Based Guidelines Task Force. Pediatric hydrocephalus: systematic literature review and evidence-based guidelines. Part 4: Cerebrospinal fluid shunt or endoscopic third ventriculostomy for the treatment of hydrocephalus in children. *J Neurosurg Pediatr.* 2014 Nov;14 Suppl 1:30-4. PMID: 25988780
25. Sivakumar W, Goodwin I, Blagg R, Johns D, **Riva-Cambrin J**, Siddiqi F, Gociman B. Pancraniosynostosis following endoscopic-assisted strip craniectomy for sagittal suture craniosynostosis in the setting of poor compliance with follow-up: a case report. *J Med Case Rep.* 2015 Mar 24; 9:64. PMID:25886307
26. Mazur MD, Ravindra VM, Schmidt MH, Brodke DS, Lawrence BD, **Riva-Cambrin J**, Dailey AT. Unplanned reoperation after lumbopelvic fixation with S-2 alar-iliac screws or iliac bolts. *J Neurosurg Spine.* 2015 Apr 3:1-10. [Epub ahead of print] PMID:25840042
27. Bennett TD, Bratton SL, **Riva-Cambrin J**, Scaife ER, Nance ML, Prince JS, Wilkes J, Keenan HT. Cervical spine imaging in hospitalized children with traumatic brain injury. *Pediatr Emerg Care.* 2015 Apr;31(4):243-9. doi: 10.1097/PEC.0000000000000395. PMID:25803749
28. Ravindra VM, **Riva-Cambrin J**, Sivakumar W, Metzger RR, Bollo RJ. Risk factors for traumatic blunt cerebrovascular injury diagnosed by computed tomography angiography in the pediatric population: a retrospective cohort study. *J Neurosurg Pediatr.* 2015 Mar 6:1-8. [Epub ahead of print] PMID: 25745952.
29. Williams CN, **Riva-Cambrin J**, Presson AP, Bratton SL. Hyponatremia and poor cognitive outcome following pediatric brain tumor surgery. *J Neurosurg Pediatr.* 2015 Feb 27:1-8. [Epub ahead of print] PMID: 25723724.
30. Garber ST, **Riva-Cambrin J**. Occipital aneurysmal bone cyst rupture following head trauma: case report. *J Neurosurg Pediatr.* 2015 Jan 2:1-4. PubMed PMID:25555115.
31. Spader HS, Hertzler DA, Kestle JR, **Riva-Cambrin J**. Risk factors for infection and the effect of an institutional shunt protocol on the incidence of ventricular access device infections in preterm infants. *J Neurosurg Pediatr.* 2014 Dec 5:1-5. PubMed PMID:25479576
32. Mazur MD, Sivakumar W, **Riva-Cambrin J**, Jones J, Brockmeyer DL. Avoiding early complications and reoperation during occipitocervical fusion in pediatric patients. *J Neurosurg Pediatr.* 2014 Nov;14(5):465-75. doi:10.3171/2014.7.PEDS1432. Epub 2014 Aug 29. PubMed PMID: 25171720.
33. Kulkarni AV, **Riva-Cambrin J**, Browd SR, Drake JM, Holubkov R, Kestle JR, Limbrick DD, Rozzelle CJ, Simon TD, Tamber MS, Wellons JC 3rd, Whitehead WE; Hydrocephalus Clinical Research Network. Endoscopic third ventriculostomy and choroid plexus cauterization in infants with hydrocephalus: a retrospective Hydrocephalus Clinical Research Network study. *J Neurosurg Pediatr.* 2014 Sep;14(3):224-9. doi: 10.3171/2014.6.PEDS13492. Epub 2014 Jul 4. PubMed PMID:24995823.
34. 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, Luerssen 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

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  - 2016 Pediatric Academic Societies Meeting
  - May 1, 2016, Baltimore, Maryland.

21. Simon TD, Kronman M, Whitlock K, Gove N, Browd S, Holubkov R, Kulkarni A, Langley M, Limbrick D, Luerssen T, Oakes J, **Riva-Cambrin J**, Rozzelle C, Shannon C, Tamber M, Wellons J, Whitehead W, Mayer-Hamblett N. Adherence to guidelines in treatment for first cerebrospinal fluid (CSF) shunt infection.
  - Pediatric Hospital Medicine Meeting
  - Chicago, Illinois, July 29, 2016.

### **VISITING PROFESSORSHIPS**

- Brown University, Alpert Medical School, Department of Neurosurgery, 2012
- University of Winnipeg, Max Rady College of Medicine, Department of Surgery and the Division of Neurosurgery, November 2016
- Dalhousie University, Department of Surgery and the Division of Neurosurgery, March 2017

### **INVITED LECTURES**

1. **Riva-Cambrin J.**, John C. Wellons, III, MD. Endoscopy: ETV, Loculated Ventricles, Distal Catheter Placement with Peritoneal Scarring, etc.
  - 2008 10<sup>th</sup> National Conference on Hydrocephalus, Park City, Utah
2. **Riva-Cambrin J.**, Prospective trial data collection of the HCRN.
  - 2008 10<sup>th</sup> National Conference on Hydrocephalus Park City, Utah
3. **Riva-Cambrin J.** State of the Art Management of Pediatric Tumors: Low Grade Glioma (LGG) A Review of the Literature.
  - Congress of Neurological Surgeons Annual Meeting October 5, 2011 Washington, D.C
4. **Riva-Cambrin J.** Ventricular size involvement in neuropsychological outcomes in pediatric hydrocephalus.
  - Hydrocephalus Association 12<sup>th</sup> National Conference June 29, 2012 Bethesda, MD
5. **Riva-Cambrin J.** CSF Shunt infection.
  - Hydrocephalus Association 12<sup>th</sup> National Conference June 29, 2012 Bethesda, MD
6. **Riva-Cambrin J.** Pediatric hydrocephalus: Teens and families of teens.
  - Hydrocephalus Association 12<sup>th</sup> National Conference June 29, 2012 Bethesda, MD
7. **Riva-Cambrin J.** How to choose a shunt valve in pediatric hydrocephalus
  - Pediatric Section Meeting of AANS/ Mid-Level Practitioner's Seminar December 3, 2013 Toronto, Canada

8. **Riva-Cambrin J.** Endoscopic Third Ventriculostomy (ETV) and Choroid Plexus Cauterization (CPC) in Infants with Hydrocephalus: *A Retrospective Hydrocephalus Clinical Research Network (HCRN) study.*
  - Endomilano 2014  
6<sup>th</sup> World Congress  
Milan, Italy  
April 14, 2014
9. **Riva-Cambrin J.** Hydrocephalus for Teens and Pre-Teens.
  - Hydrocephalus Association 13<sup>th</sup> National Conference on Hydrocephalus  
Portland, Oregon  
July 10, 2014
10. **Riva-Cambrin J.** HCRN Research Update.
  - Hydrocephalus Association 13<sup>th</sup> National Conference on Hydrocephalus  
Portland, Oregon  
July 11, 2014
11. **Riva-Cambrin J.** Selecting Patients for Endoscopic Third Ventriculostomy.
  - Hydrocephalus Association 13<sup>th</sup> National Conference on Hydrocephalus  
Portland, Oregon  
July 11, 2014
12. **Riva-Cambrin J.** System Changes to Reduce Shunt Infection.
  - The sixth Meeting of the International Society for Hydrocephalus and CSF Disorders  
September 7, 2014  
Bristol, England
13. **Riva-Cambrin J.** Western Neurosurgery and Africa: Who is the ‘Teacher’ and who is the ‘Student’?
  - University of Utah School of Public Health  
Salt Lake City, Utah  
February 26, 2015
14. **Riva-Cambrin J.** The past, present, and future of ETV and ETV+CPC in the management of hydrocephalus.
  - Webinar for the Hydrocephalus Association  
Salt Lake City, Utah  
March 4, 2015
15. **Riva-Cambrin J.** Pediatric hydrocephalus clinical research- 2015 and Beyond.
  - Calgary Hydrocephalus Symposium (ISHCSF)  
Calgary, Alberta, Canada  
September 17, 2015
16. **Riva-Cambrin J.** Endoscopic third ventriculostomy versus shunt outcome.
  - VII World Congress of Neuroendoscopy (IFNE)  
Puerto Vallarta, Mexico  
November 3, 2015
17. **Riva-Cambrin J.** Clinical Symposium: Why ETV is better than Shunting.
  - 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, WA  
December 8-11, 2015

18. **Riva-Cambrin J.** Have We Improved the Care of Children with Hydrocephalus? The HCRN's impact and future studies.
  - 2016 Alberta Neurological Surgery Society meeting  
Banff, AB  
April 23, 2016
19. **Riva-Cambrin J.** Treatment of Hydrocephalus: ETV and ETV+CPC.
  - 14th National Conference on Hydrocephalus  
Minneapolis, MN  
June 16, 2016
20. **Riva-Cambrin J.** Hydrocephalus and ETV: The procedure, the candidates, and the outcomes
  - 14th National Conference on Hydrocephalus  
Minneapolis, MN  
June 17, 2016
21. **Riva-Cambrin J.** Research: ETV+CPC for Infant Hydrocephalus
  - 14th National Conference on Hydrocephalus  
Minneapolis, MN  
June 18, 2016
22. **Riva-Cambrin J.** ACH's entry into the HCRN: Recent hydrocephalus success and current studies
  - ACH Anaesthesia Grand Rounds, September 9, 2016
23. **Riva-Cambrin J.** The establishment, maintenance, success, and future planning of a research network: The HCRN story
  - Neuroscience Grand Rounds, University of Calgary, October 28, 2016
24. **Riva-Cambrin J.** The resurrection of endoscopy for the treatment of infant hydrocephalus: ETV+CPC
  - Pediatric Surgery Grand Rounds, ACH, December 9, 2016
25. **Riva-Cambrin J.** The resurrection of endoscopy for the treatment of infant hydrocephalus: ETV+CPC
  - Developmental Neurosciences Grand Rounds, ACH, May 1, 2017

### **INVITED FACULTY- SURGICAL COURSES**

1. University of Toronto- Pediatric Neurosurgery/ Hydrocephalus Endoscopy Course
  - Mount Sinai Hospital, Toronto, ON
  - May 19-21, 2016
2. Annual Canadian Boot Camp for Incoming Neurosurgical Residents
  - University of Alberta, Edmonton, AB
  - July 16-19

### **ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS**

#### **INTERNATIONAL AND NATIONAL**

1. **Riva-Cambrin J, Detsky A, Lamberti-Pasculli M, Sargent M, Armstrong D, Moineddin R, Cochrane D., Drake J.:** Pediatric posterior fossa tumors: Preoperative predictors of chronic hydrocephalus.

- a. 2004 AANS/CNS Section on Pediatric Neurological Surgery (San Francisco, US)
2. **Riva-Cambrin J**, Lamberti-Pasculli M, Drake JM: Pediatric posterior fossa tumors: Preoperative predictors of chronic hydrocephalus – Proposal.
  - a. 2004 Canadian Pediatric Neurosurgical Society Meeting (Ottawa, Canada).
3. **Riva-Cambrin J**, Scales D, Granton JT, Detsky A: Prophylactic venous thromboembolism therapy for patients with traumatic intracranial hemorrhages: A decision analysis.
  - a. 2004 Canadian Congress of Neurological Sciences (Calgary, Canada).
4. **Riva-Cambrin J**, Detsky A, Lamberti-Pasculli M, Sargent M, Armstrong D, Moineddin R, Cochrane D, Drake JM: The development and validation of a preoperative prediction score for chronic hydrocephalus in pediatric patients with posterior fossa tumors.
  - 2005 Canadian Congress of Neurological Sciences (Ottawa, Canada)
  - K.G. McKenzie Prize for Clinical Research Oral Presentation
5. **Riva-Cambrin J**, Detsky A, Lamberti-Pasculli M, Sargent M, Armstrong D, Moineddin R, Cochrane D, Drake JM: The validation of a preoperative prediction score for chronic hydrocephalus in pediatric patients with posterior fossa tumors.
  - a. 2005 American Association of Neurological Surgeons (New Orleans, US)
6. **Riva-Cambrin J**, Lamberti-Pasculli M, Drake JM: Phase II Clinical study examining the safety and efficacy of the use of prophylactic third ventriculostomies in pediatric posterior fossa tumor patients at high risk for chronic hydrocephalus.
  - 2006 Children’s Oncology Group (Los Angeles, California).
7. **Riva-Cambrin J**, Kalangu K. Neurosurgery in Zimbabwe: An experience of neurosurgical challenges facing a developing country.
  - Canadian Pediatric Neurosurgery Study Group Meeting (Horseshoe Valley, Ontario, Canada)
8. **Riva-Cambrin J**, Drake J, Cochrane D. Preoperative ETVs for posterior fossa tumors and their effects on cerebellar mutism rare: A proposed multi-center trial.
  - 2007 Canadian Pediatric Neurosurgery Study Group Meeting (Horseshoe Valley, Ontario, Canada)
9. **Riva-Cambrin J**, Lamberti-Pasculli M, Armstrong D, Moineddin R, Cochrane D, Detsky A, Drake J: Predicting post operative hydrocephalus in pediatric posterior fossa tumor patients.
  - International Hydrocephalus Workshop; Progress and Controversies in Hydrocephalus. (Rhodes, Greece)
10. Simon TD, **Riva-Cambrin J**, Srivastava R., Dean M., Bratton S., Kestle J: Health care utilization, morbidity, and mortality of children with hydrocephalus in inpatient settings in the US.
  - International Hydrocephalus Workshop; Progress and Controversies in Hydrocephalus. (Rhodes, Greece)
11. **Riva-Cambrin J**, Lamberti-Pasculli M, Sargent M, Armstrong D, Moineddin R, Cochrane D, Detsky A, Drake J. Prevalence-Adjusted External Validation of the Hydrocephalus Prediction Score for Pediatric Posterior Fossa Tumor Patients.
  - International Society for Pediatric Neurosurgery Annual Meeting Liverpool, England”



12. **Riva-Cambrin J**, Drake JM, Cochrane D: Predictors of cerebellar mutism in children with posterior fossa tumors: A multi-center proposal
  - Canadian Pediatric Neurosurgery Study Group Meeting (Banff, Canada)
13. Kestle J, **Riva-Cambrin J**, Wellons J, Shannon C, Habrock-Bach T, Whitehead W, Nguyen S, Kulkarni A, O'Connor L, Simon T. The Hydrocephalus Clinical Research Network Quality Improvement Initiative.
  - 2008 Pediatric Section Meeting AANS Spokane, WA
14. **Riva-Cambrin J**, Drake J, Lamberti-Pasculli M, Cochrane D. Intraoperative and Postoperative Risk Factors for Post-Resection Hydrocephalus in Children with Posterior Fossa Tumors.
  - 2008 Pediatric Section Meeting AANS Spokane, WA
15. Simon T, Hall M, **Riva-Cambrin J**, Albert EJ, Jeffries HE, LaFleur B, Dean JM, Kestle JRW. CSF Shunt Infections Across U.S. Hospitals.
  - Pediatric Hospital Medicine Annual Meeting (Denver, Colorado)
16. **Riva-Cambrin J**, Kanikomo, Hector L, Diallo O. The Development and Implementation of a Pediatric Neuroendoscopic Surgery Program in the Developing World: Mali.
  - 2008 Pediatric Section Meeting AANS Spokane, WA
17. **Riva-Cambrin J**, Simon T, Kulkarni A, Wellons J, Whitehead W, Kestle J. The Development and Implementation of a Multi-centre Registry for Children with Hydrocephalus:  
The HCRN Core Data Project
  - 2009 American Society for Pediatric Neurosurgery Meeting  
Kona, Hawaii
18. **Riva-Cambrin J**, Simon T, Kulkarni A, Wellons J, Whitehead W, Kestle J. The Development and Implementation of a Multi-centre Registry for Children with Hydrocephalus:  
The HCRN Core Data Project
  - 2009 Canadian Pediatric Neurosurgery Research Group Meeting  
Montebello, Quebec, Canada
19. **Riva-Cambrin J**, Shannon C, Kestle J, Kulkarni A, Whitehead W, Simon T, and Wellons J. A Multi-Center Pilot Study Describing Variations in the Care of Premature Infants with IVH; Factors Influencing the Decision to Temporize and Ultimately Shunt.
  - 2009 International Society of Pediatric Neurosurgery Annual Meeting  
Los Angeles, CA, October 2009
20. Simon T, **Riva-Cambrin J**, Srivastava R, Bratton S, Dean M, Kestle JRW. Hospital care for children with hydrocephalus in the U.S.
  - 2009 Hydrocephalus 2009 Meeting (Baltimore, Maryland)
21. Simon T, Hall M, Dean JM, Kestle JRW, **Riva-Cambrin J**. Re-Infection Following Initial Cerebrospinal Fluid Shunt Infection
  - 2009 AANS/CNS Section on Pediatric Neurological Surgery (Boston, MA)
22. **Riva-Cambrin J**, Simon T, Kulkarni A, Wellons J, Whitehead W, Browd S, Oakes J, Luerssen T, Walker M, Drake J, Kestle JRW. Development and Implementation of a Multi-Center Registry for Children with Hydrocephalus: The HCRN Core Data Project.
  - 2010 Pediatric Hospital Medicine Meeting, (Minneapolis, Minnesota)

23. **Riva-Cambrin J**, Cress M, Kestle JRW, Risk Factors for Pediatric Intracranial Arachnoid Cyst Rupture/Hemorrhage: A Case-Control Study.
  - 2011 ASPN Annual Meeting  
Lanai, Hawaii
24. Tamara D. Simon, MD, MSPH, Kathryn B. Whitlock, MS, **Riva-Cambrin J**, MD, MSc, John RW Kestle, MD, MSc, Margaret Rosenfeld, MD, MPH, J. Michael Dean, MD, MBA, Richard Holubkov, PhD, Marcie Langley, BA, Nicole Mayer-Hamblett. Intraventricular hemorrhage secondary to prematurity is associated with surgical intervention in the first year following initial CSF shunt placement. Oral presentation.
  - Center for Clinical and Translational Research Scientific Symposium, June 2, 2011. Oral presentation.  
Seattle, WA
25. Williams C, Simon TD, **Riva-Cambrin J**, Bratton SL. Hyponatremia with intracranial malignant tumor resection in children.
  - 2011 Pediatric Academic Society (Denver, Colorado)
26. Simon TD, Whitlock KB, **Riva-Cambrin J**, Kestle JRW, Rosenfeld, M, Dean JM, Holbukov R, Langley M, Mayer-Hamblett, N. Association of intraventricular hemorrhage secondary to prematurity with cerebrospinal shunt surgery in the first year following initial shunt placement.
  - 2011 Pediatric Academic Society (Denver, Colorado)
27. Hertzler D, Spader H, Kestle J, **Riva-Cambrin J**. Impact of an institutional shunt protocol on the incidence of ventricular reservoir infection in preterm infants.
  - 2011 AANS Pediatric Section Meeting (Austin, Texas)
28. Sayama T, Beachy J, Holbukov R, Kestle J, **Riva-Cambrin J**. Which ventricular measure is more predictive of CSF diversion in premature neonates with Grade III/IV intraventricular hemorrhage?
  - 2011 AANS Pediatric Section Meeting (Austin, Texas)
29. Simon TD, Whitlock KB, **Riva-Cambrin J**, Kestle JR, Rosenfeld M, Dean JM, Holubkov R, Langley M, Hamblett NM. Revision surgeries are associated with significant increased risk of subsequent cerebrospinal fluid shunt infection.
  - 2012 Pediatric Academic Society Meeting (Boston, MA)
30. Bowers C, **Riva-Cambrin J**, Couldwell WT. Efficacy of clip-wrapping in treatment of complex pediatric aneurysms.
  - 2012 Rocky Mountain Neurosurgery Society Meeting (Maui)
31. Bowers C, Hertzler DA, **Riva-Cambrin J**, Walker ML. Factors and rates of bone flap resorption in pediatric patients after decompressive craniectomy for traumatic brain surgery.
  - 2012 Lende Neurosurgical Meeting (Snowbird, Utah)
32. Bowers C, Hertzler DA, **Riva-Cambrin J**, Walker ML. Factors and rates of bone flap resorption in pediatric patients after decompressive craniectomy for traumatic brain surgery.
  - 2012 AANS Annual Meeting (Miami, Florida)
33. Bowers C, Hertzler DA, **Riva-Cambrin J**, Walker ML. Factors and rates of bone flap resorption in pediatric patients after decompressive craniectomy for traumatic brain surgery.
  - 2012 Rocky Mountain Neurosurgery Society Meeting (Maui)

34. Flannery AM, Mazzola C, Klimo P, Warf B, Mandeep T, **Riva-Cambrin J**, Limbrick D, Kemp J, Choudhri A, Duhaime T, Baird L, Nikas D, Auguste K, Van Poppel M, Raymond L. Creating evidence-based recommendations for the treatment of children with hydrocephalus.
  - i. 2012 AANS Pediatric Section Meeting (St. Louis, Missouri)
35. Spader H, Bollo R, Walker ML, **Riva-Cambrin J**. Risk factors for baclofen pump infections: A multivariate analysis.
  - i. 2012 AANS Pediatric Section Meeting (St. Louis, Missouri)
36. Garber S, Bishop F, Brockmeyer D, **Riva-Cambrin J**. Fourth ventricular shunt survival comparing parietal stereotactic endoscopic transtentorial and suboccipital approaches.
  - i. 2012 AANS Pediatric Section Meeting (St. Louis, Missouri)
37. Whitehead, W, Kulkarni A, **Riva-Cambrin J**, Wellons J, Drake J, Luerssen T, Oakes J, Walker ML, Kestle J. Frontal versus parietal CSF shunts and shunt survival an HCRN study.
  - i. 2012 AANS Pediatric Section Meeting (St. Louis, Missouri)
38. Whitehead W, Holubkov R, Browd S, Drake JM, Kestle JRW, Kulkarni AV, Limbrick DD, Luerssen TG, Oakes WJ, **Riva-Cambrin J**, Simon TD, Tamber M, Walker ML, Wellons, JC for the Hydrocephalus Research Network. The utility of scheduled follow-up visits for the diagnosis of shunt failure after first-time shunt insertion.
  - 2013 36<sup>th</sup> Annual Meeting of the Society of Pediatric Neurosurgeons ( Princeville, Kauai, HI)
39. **Riva-Cambrin J**, Kestle JRW, Kulkarni AV, Whitehead WE, Wellons JC, Browd S, Limbrick DD, Tamber M, Butler J, Simon TD for the Hydrocephalus Clinical Research Network. A multi-center prospective cohort study of risk factors for CSF shunt failure in children.
  - 2013 36<sup>th</sup> Annual Meeting of the Society of Pediatric Neurosurgeons ( Princeville, Kauai, HI)
40. Simon TD, Butler J, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni A, Langley M, Limbrick DD, Hamblett MN, Tamber M, Wellons III JC, Whitehead WE, **Riva-Cambrin J**. Cerebrospinal fluid shunt revisions, far more than patient factors, confer risk of shunt infection.
  - 2013 Pediatric Academic Societies Annual Meeting  
May 4-7
41. Sivakumar W, Chamoun R, **Riva-Cambrin J**, Salzman K, Couldwell WT. Fusiform Dilatation of the Cavernous Carotid Artery in Acromegalic Patient
  - 2013 Rocky Mountain Neurosurgical Society Annual Meeting  
June 15 – 19 Sun Valley, Idaho
42. Foreman Paul, McGluggage S, Naftel RP, Griessenauer CJ, Ditty BJ, Agee B, **Riva-Cambrin J**, Wellons III, JC. Validation and Modification of a Predictive Model of Post-resection Hydrocephalus in Pediatric Patients with Posterior Fossa Tumors.
  - 2013 CNS Annual Meeting  
October 19-23, 2013  
San Francisco, California
43. Wellons III JC, Chevis S, **Riva-Cambrin J**, Kulkarni A, Limbrick D, Whitehead W, Browd S, Oakes, J, Rozzelle C, Simon T, Tamber M, Kestle J. Shunting

- Outcomes in Post-Hemorrhage Hydrocephalus (SOPHH): results of a Hydrocephalus clinical Research Network (HCRN) prospective cohort study.
- 2013 Pediatric Section Meeting AANS  
Toronto, Ontario  
December 3-6, 2013
44. **Riva-Cambrin J**, Simon T, Butler J, Whitlock K, Browd S, Holubkov R, Kestle J, Kulkarni A, Langley M, Limbrick D, Mayer-Hamblett, N, Tamber M, Wellons III J, Whitehead W. Risk Factors for First cerebrospinal fluid (CSF) shunt infection: Findings from HCRN's multi-center prospective cohort study.
- 2013 Pediatric Section Meeting AANS  
Toronto, Ontario  
December 3-6, 2013
45. Mazur M, Sivakumar W, **Riva-Cambrin J**, Jones J, Brockmeyer D. Occipital fusion in the pediatric population: Analyzing risk factors for nonunion.
- 2013 Pediatric Section Meeting AANS  
Toronto, Ontario  
December 3-6, 2013
46. **Riva-Cambrin J**. Risk factors for baclofen pump infection; A Multi-center study.
- 2013 Pediatric Section Meeting AANS  
Toronto, Ontario  
December 3-6, 2013
47. Ravindra VM, Sivakumar, **Riva-Cambrin J**, Bollo R. Risk Factors for Traumatic Carotid Injury Diagnosed by CT Angiography in the Pediatric Population.
- 2014 Richard Lende Winter Neuroscience Conference  
Salt Lake City, Utah  
February 4, 2014
48. Bowers C, McMullen J, Siddiqi F, Brimley C, Etherington E, **Riva-Cambrin J**. Minimizing Bone Gaps when Using Custom Cranial Implants is Vital to Implant Success in Pediatric Custom Cranioplasties.
- 2014 Richard Lende Winter Neuroscience Conference  
Salt Lake City, Utah  
February 4, 2014
49. **Riva-Cambrin J**, Garber S. Comparing Outcomes of Sagittal Synostosis Using Three Different Techniques: A Retrospective Study Including Cost Analysis.
- 2014 Richard Lende Winter Neuroscience Conference  
Salt Lake City, Utah  
February 4, 2014
50. Garber, S, **Riva-Cambrin J**. Comparing Outcomes and Cost of Three Surgical Treatments for Sagittal Synostosis
- Canadian Pediatric Neurosurgery Study Group Meeting  
Whistler, British Columbia, Canada  
February 27, 2014
51. **Riva-Cambrin J**. The Re-birth of ETV for Infantile Hydrocephalus: ETV+CPC.
- 2014 AANS Annual Meeting  
San Francisco, CA  
April 6, 2014

52. Ravindra, V, **Riva-Cambrin J**, Sivakumar W, Bollo R., Risk Factors for Traumatic Carotid Injury Diagnosed by CT Angiography in the Pediatric Population.
  - 2014 AANS Annual Meeting  
San Francisco, CA  
April 7, 2014
53. Garber S, Spanos S, Siddiqi F, Morales L, Schmelzer R, Gociman B, **Riva-Cambrin J**. Comparing outcomes of sagittal synostosis using three different techniques: Open strip craniectomy, total cranial vault reconstruction, and endoscopic strip craniectomy: A retrospective study including cost analysis.
  - 2014 AANS Annual Meeting  
San Francisco, CA  
April 7, 2014
54. Sivakumar W. **Riva-Cambrin J**. House P., Intravenous Acetaminophen for Postoperative Supratentorial Craniotomy Pain – A Randomized, Double-Blinded, Placebo-Controlled Trial.
  - 2014 AANS Annual Meeting  
San Francisco, CA
  - April 7, 2014
55. Abhaya Vivek Kulkarni, MD, FAANS, FRCS; **Riva-Cambrin J, MSC**; Richard Holubkov, PhD; Samuel Browd, MD; Douglas Cochrane, MD; James Drake, MBBS; David Limbrick, MD; Curtis Rozzelle, MD; Tamara Simon, MD; Mandeep Tamber, MD, PhD; John Wellons, MD, MPH; William Whitehead, MD, MPH; John Kestle, MD, MSC. Endoscopic Third Ventriculostomy (ETV) in Children: Prospective, Multicenter Results from the Hydrocephalus Clinical Research Network (HCRN)
  - 2014 AANS|CNS Section on Pediatric Neurological Surgery  
Amelia Island, Florida  
December 2-5, 2014
56. John R. W. Kestle, MD, FAANS; **Riva-Cambrin J, MD**; David Limbrick, MD, PhD; Mandeep Tamber, MD, PhD; Chevis Shannon, MBA; Curtis Rozzelle, MD; Richard Holubkov, PhD; Abhaya Kulkarni, MD, PhD; William Whitehead, MD, MPH; Tamara Simon, MD, MPH; Samuel Browd, MD, PhD; John Wellons for the HCRN. Results of a New HCRN Shunt Infection Protocol.
  - i. 2014 AANS|CNS Section on Pediatric Neurological Surgery  
Amelia Island, Florida  
December 2-5, 2014
57. Lin C, **Riva-Cambrin J**. Management of posterior fossa tumors and hydrocephalus in children: A review.
  - i. New England Neurosurgical Society Annual Meeting. Chatham, Massachusetts. June 2015
58. **Riva-Cambrin J**. Spader H. Kulkarni A. Warf B. Mugamba J. Ssenyonga P., Attitudes regarding endoscopic third ventriculostomy and chroid plexus coagulation (ETV+CPC) and the effect of training at CURE Children’s Hospital, Uganda among North American pediatric neurosurgeons.
  - i. Hydrocephalus 2015. Banff, Alberta, Canada. September 2015
59. **Riva-Cambrin J**. Kulkarni AV, David Limbrick, Mandeep Tamber, Chevis Shannon, Curtis Rozzelle, Richard Holubkov, William Whitehead, Tamara

- Simon, Samuel Browd, John Wellons, Rob Naftel, John Kestle for the HCRN. ETV CPC Success and Evolving Indications and Technique Over Time: An HCRN Study
- i. 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, Washington  
December 8-11, 2015
60. He L, Shannon C, Wellons JW, **Riva-Cambrin J**, Naftel R. Surgeon Interrater Reliability in Endoscopic Assessment of Cistern Scarring and Aqueduct Patency
- i. 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, Washington  
December 8-11, 2015
61. Sivakumar W, Mazur M, **Riva-Cambrin J**, Brockmeyer D. Atlantoaxial Fusion in the Pediatric Population: A Multicenter Analysis of Predictors of Non-Fusion
- i. 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, Washington  
December 8-11, 2015
62. Ravindra V, **Riva-Cambrin J**, Brockmeyer D. A Two Dimensional Threshold of the Condylar-C1 Interval on Computed Tomography (CT): Analysis of 578 Normal Patients with Comparison to Atlanto-Occipital Dislocation
- i. 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, Washington  
December 8-11, 2015
63. Dewan M, Ravindra V, Shannon C, **Riva-Cambrin J**, Naftel R. Treatment Practices and Outcomes Following Blunt Cerebrovascular Injury in Children
- i. 2015 AANS|CNS Section on Pediatric Neurological Surgery  
Seattle, Washington  
December 8-11, 2015
64. **Riva-Cambrin J**, Gallagher C, Hader W. A challenging case of low pressure ventriculomegaly in a post-meningitic 21-month old with leukemia.
- i. 2015 ASPN Meeting  
Aruba  
February 4, 2016
65. **Riva-Cambrin J**. A National Prospective Cohort Study of Craniosynostosis in Canada.
- i. 2016 CPNSG Meeting  
Whistler, BC  
February 18, 2016
66. Shannon C, Naftel R, **Riva-Cambrin J**, Wellons J for the HCRN. Early Neurodevelopmental Outcomes of Posthemorrhagic Hydrocephalus (SOPHH) Study.
- i. 2016 AANS|CNS Section on Pediatric Neurological Surgery  
Orlando, Florida  
December 6, 2016
67. Kulkarni A, **Riva-Cambrin J**, Kestle J for the HCRN. Prospective multicenter results of ETV with CPC and comparison to ETV alone and shunt in infant hydrocephalus: a Hydrocephalus Clinical Research Network study.
- i. 2016 AANS|CNS Section on Pediatric Neurological Surgery  
Orlando, Florida

December 6, 2016

68. 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".
  - i. 2016 AANS|CNS Section on Pediatric Neurological Surgery  
Orlando, Florida  
December 8, 2016

## LOCAL MEETINGS

1. **Riva-Cambrin J**, Pitfalls of Frontline Management of Pediatric Head and Cervical Spine Trauma. Utah Trauma Network Conference, 2006 (Oral Presentation).
2. **Riva-Cambrin J**, Pediatric Brain Tumors. Issues in Pediatric Care 2007, October 11, 2007 (Oral Presentation).
3. Simon T, **Riva-Cambrin J**, Health Care Utilization, Morbidity, and Mortality for Children with Hydrocephalus in Inpatient Settings in the United States. Intermountain Injury Control Research Center Research in Progress, March 2, 2007. (Oral presentation).
4. Simon T, **Riva-Cambrin J**, Health Care Utilization, Morbidity, and Mortality for Children with Hydrocephalus in Inpatient Settings in the United States. Child Health Research Center Research in Progress, March 20, 2007. (Oral presentation).
5. Simon T, **Riva-Cambrin J**, Health Care Utilization, Morbidity, and Mortality for Children with Hydrocephalus in Inpatient Settings in the United States. Utah Health Services Research Conference, April 6, 2007. (Oral presentation).
6. Simon T, **Riva-Cambrin J**, Health Care Utilization, Morbidity, and Mortality for Children with Hydrocephalus in Inpatient Settings in the United States. 4<sup>th</sup> Annual Pediatric Research Conference, April 18, 2007. (Poster presentation).
7. Simon T, **Riva-Cambrin J**, CSF Shunt Infections Across U.S. Hospitals. Child Health Research Center Research in Progress, January 15, 2008. (Oral presentation).
8. Simon T, **Riva-Cambrin J**, CSF Shunt Infections Across U.S. Hospitals. Utah Health Services Research Conference, April 25, 2008. (Poster presentation).
9. **Riva-Cambrin J**, Development of neuroendoscopic program in a developing world; Mali. Brown Bag Lecture Series at Primary Children's Medical Center, August 11, 2008 (Oral Presentation).
10. **Riva-Cambrin J**. "Hemicraniectomy in Traumatic Brain Injury." Trauma Update, Primary Children's Medical Center. May 1, 2012.
11. **Riva-Cambrin J**. "Neurosurgical Issues in Premature Infants with IVH." Neonatal Perinatal Conference. Primary Children's Medical Center. April 22, 2013.
12. **Riva-Cambrin J**. "State of the Art Treatment of Low Grade Gliomas." MEN/ONC/BMT Tuesday Lecture Series. Primary Children's Medical Center April 23, 2013.
13. **Riva-Cambrin J**. "Current Management of Hydrocephalus and Chiari Malformation"  
2013 Education Days – Setting the Course for Tomorrow  
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