

CURRICULUM VITAE

Beau J. Batton, MD, CPE

Associate Professor of Pediatrics
Chief, Division of Neonatology
Southern Illinois University School of Medicine

Director of Newborn Services, St. John's Children's Hospital
Co-Director, Illinois Department of Public Health South Central Illinois Perinatal Network

Springfield, Illinois

OFFICE ADDRESS:

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EDUCATION:

12/1997 B.A. Degree
 Hope College
 Holland, Michigan

06/2002 M.D. Degree
 Stritch School of Medicine, Loyola University – Chicago
 Maywood, Illinois

TRAINING:

07/2002 – 06/2005 Intern & Resident, Pediatrics
 William Beaumont Hospital
 Royal Oak, Michigan

07/2005 – 06/2008 Fellow, Neonatal-Perinatal Medicine
 Case Western Reserve University School of Medicine
 Rainbow Babies & Children's Hospital
 Cleveland, Ohio

ACADEMIC POSITIONS & HOSPITAL APPOINTMENTS:

- 03/2014 – Present Chief, Division of Neonatology, Department of Pediatrics
Southern Illinois University School of Medicine
Director, Newborn Services at St. John's Children's Hospital
Co-Director, Illinois Department of Public Health South Central Illinois Perinatal
Network
Springfield, Illinois
- 07/2013 – Present Associate Professor of Pediatrics, Division of Neonatology
Southern Illinois University School of Medicine
Springfield, Illinois
- 07/2008 – 06/2015 Adjunct Assistant Professor of Pediatrics
Case Western Reserve University School of Medicine
Rainbow Babies and Children's Hospital
Cleveland, Ohio
- 07/2008 – 06/2013 Assistant Professor of Pediatrics, Division of Neonatology
Southern Illinois University School of Medicine
Springfield, Illinois
- 02/2014 – Present Staff Neonatologist
St. Mary's Hospital
Decatur, Illinois
- 07/2008 – Present Staff Neonatologist
St. John's Children's Hospital
Springfield, Illinois
- 07/2008 – Present Staff Neonatologist
Memorial Medical Center
Springfield, Illinois

LICENSURE:

- Michigan Medical License #4301079507 (2002) – inactive
Ohio Medical License #35.086153 (2005) – inactive
Illinois Medical License #036.120844 (2008) – active

CERTIFICATION:

- American Board of Pediatrics, 2005 (maintained)
Instructor, Neonatal Resuscitation Program (NRP ID # 606-2798), 2006 (maintained)
American Board of Pediatrics, Sub-section of Neonatal-Perinatal Medicine, 2010 (maintained)
Certified Physician Executive, Certifying Commission in Medical Management, 2015 (certificate #2060)

MEMBERSHIP IN SOCIETIES & ORGANIZATIONS:

09/2002 – Present American Academy of Pediatrics (Fellow)
07/2008 – Present American Academy of Pediatrics, Section on Neonatal – Perinatal Medicine
07/2011 – Present Illinois Chapter of the American Academy of Pediatrics
10/2011 – Present Midwest Society for Pediatric Research
09/2012 – Present American Association for Physician Leadership
12/2012 – Present Society for Pediatric Research
08/2013 – Present American College of Healthcare Executives

HONORS & AWARDS:

06/2009 Teaching Service of the Year, Southern Illinois University SOM Department of Pediatrics
06/2011 Teaching Service of the Year, Southern Illinois University SOM Department of Pediatrics
06/2013 Teaching Service of the Year, Southern Illinois University SOM Department of Pediatrics
09/2015 Best Doctors in America (bestdoctors.com) 2015 – 2016
09/2015 17th Braden E. Griffin Memorial Symposium Lectureship Recipient, UMass Memorial
11/2015 Nominee, Southern Illinois University SOM Outstanding Educator of the Year Award
06/2016 Teaching Service of the Year, Southern Illinois University SOM Department of Pediatrics

EXTRACURRICULAR ACTIVITIES:

03/2010 – Present Reviewer (manuscripts): *American Journal of Perinatology, Archives of Disease in Childhood Fetal & Neonatal Edition, Early Human Development; European Journal of Obstetrics & Gynecology and Reproductive Biology, JAMA; Journal of Developmental & Behavioral Pediatrics, Journal of Pediatrics, Pediatrics, Pediatric Research, Teaching & Learning in Medicine; World Journal of Pediatrics*

10/2013 – Present Member, March of Dimes Big 5 State Perinatal Collaborative Leadership Council
06/2014 – Present Board Member, Ronald McDonald House Charities Central Illinois
06/2016 – Present Chair, Illinois Department of Public Health Perinatal Advisory Committee
01/2017 – Present Member, International Neonatal Consortium Hemodynamic Adaptation Workgroup

MEDICAL SCHOOL & HOSPITAL ACTIVITIES:

(William Beaumont Hospital)

07/2003 – 06/2005 Member, Pediatric Intensive Care Quality Assurance Committee

07/2004 – 06/2005 Administrative Chief Resident, Department of Pediatrics

(Case Western Reserve University School of Medicine / Rainbow Babies and Children's Hospital)

11/2005 – 06/2008 Member, Neonatology Fellowship Education Committee

07/2006 – 06/2007 Instructor, Neonatal Resuscitation Program

06/2007 – 03/2008 Interviewer, pediatric residency applicants, Department of Pediatrics

(Southern Illinois University School of Medicine / St. John's Children's Hospital)

07/2008 – Present Member, Newborn Patient Care Committee, St. John's Children's Hospital

10/2008 – 06/2014 Member, Research Advisory Panel, Department of Pediatrics

11/2008 – 06/2011 Chair, Pediatric Pain Management Task Force, St. John's Children's Hospital

11/2008 – 06/2011 Member, Resident Recruitment Committee, Department of Pediatrics

07/2009 – 06/2013 Course Director, fourth year medical student NICU sub-internship rotation

07/2009 – 06/2013 Course Director, third year medical student Newborn Nursery rotation

07/2009 – 06/2015 Member, Pharmacy & Therapeutics Committee, St. John's Hospital

07/2010 – 06/2011 Member, Resident Promotion & Evaluation Committee, Department of Pediatrics

07/2010 – 06/2012 Member, Graduate Medical Education Committee, SIU School of Medicine

07/2010 – 06/2013 Member, Faculty Council, SIU School of Medicine

07/2010 – 03/2014 Coordinator, Neonatal Research Activities, Department of Pediatrics

07/2010 – 03/2014 Course Director, pediatric and family medicine resident NICU rotation

07/2010 – 03/2014 Course Director, family medicine resident Newborn Nursery rotation

07/2010 – Present Member, Program Evaluation & Education Committee, Department of Pediatrics

07/2010 – Present Instructor, Pediatric Resident Board Review, Department of Pediatrics

05/2011 – 06/2013 Member, Executive Committee, SIU School of Medicine

07/2011 – 06/2012 President, Faculty Council, SIU School of Medicine

07/2012 – Present Member, Grant Review Committee, SIU School of Medicine

07/2013 – 03/2014 Course Director, pediatric resident Newborn Nursery rotation

07/2013 – 06/2014 Course Director, pediatric resident Research and Scholarly Activity rotation

03/2014 – Present Member, Perinatal Operations Committee, St. John's Hospital

07/2014 – Present Co-Director, Committee for Research & Quality Initiatives, Department of Pediatrics

10/2014 – Present Member, Children's Hospital Committee to the Board, St. John's Hospital

11/2014 – Present Member, Finance Committee, SIU Healthcare

07/2015 – Present Member, Research & Policy Committee, SIU School of Medicine

09/2015 – Present Member, Women & Children's Center Service Council, St. John's Hospital

04/2016 – Present St. John's Hospital Physician Advisory Council

ORIGINAL ARTICLES:

1. Batton B, Amanullah A, Main C, Fivenson D, Jamil S. Cutaneous T-cell lymphoma in a 21-year-old male with Wolf-Hirschhorn Syndrome. *Am J Med Genet* 2004; 127A: 81 – 85.
2. Rifenburg N, Batton B, Vade A. Unusual presentation of a ruptured retroperitoneal lymphangioma in an infant. *Comput Med Imag Graphic* 2006; 30: 61 – 63.
3. Batton B, Batton D, Riggs T. Blood pressure during the first seven days in 23-25 week premature infants. *Am J Perinatol* 2007; 24: 107 – 115.
4. Batton B, Zhu X, Fanaroff J, Kirchner H, Berlin S, Wilson-Costello D, Walsh M. Blood pressure, antihypotensive therapy, and neurodevelopment in extremely preterm infants. *J Peds* 2009; 154: 351 – 357.
5. Batton B, Burnett C, Verhulst S, Batton D. Extremely preterm infant mortality rates and Cesarean deliveries in the United States. *Obstet and Gyn* 2011; 118: 43-48.
6. Batton B, Verhulst S, Davis A, Collin M, Walsh M, Batton D. Perspectives of physician parents in the neonatal ICU. *Children's Health Care* 2011; 40: 326-343.
7. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Van Meurs K, Carlo W, Higgins R, Walsh M. Feasibility study of early blood pressure management in extremely preterm infants. *J Peds* 2012; 161: 65-69.e1.
8. Batton B, Batton E, Weigler K, Aylward G, Batton D. In utero anti-depressant exposure and neurodevelopment in preterm infants. *Am J Perinatol* 2013; 30: 297-302.
9. Batton B, Nubani R, Burnett C, Verhulst S, Batton D. National variance in infant mortality rates following extremely preterm birth. *J Neonat Bio* 2013; 2:113 (doi:10.4172/2167-0897.1000113).
10. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Van Meurs K, Carlo W, Poindexter B, Bell E, Sánchez P, Ehrenkranz R, Goldberg R, Laptook A, Kennedy K, Frantz I, Shankaran S, Schibler K, Higgins R, Walsh M. Prospective study of blood pressure management in extremely preterm infants. *Pediatrics* 2013; 131: e1865-e1873.
11. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Evolving blood pressure dynamics for extremely preterm infants. *J Perinatol* 2014; 34: 301-305.
12. Szyld E, Aguilar A, Musante G, Vain N, Prudent L, Fabres J, Carlo W, Delivery Room Ventilation Devices Trial Group. Comparison of devices for newborn ventilation in the delivery room. *J Peds* 2014; 165: 234-239.
13. Majjiga V, Kavarianian A, Bhatt N, Brandt G, Batton B. A newborn with catastrophic intra-abdominal hemorrhage. *BMJ Case Rep* 2015; doi:10.1136/bcr-2015-211279.
14. Balgi S, Singhal S, Mueller G, Batton B. Feeding intolerance and poor growth in infants with gastroschisis: longitudinal experience with consecutive patients over thirteen years. *J Neo Surg* 2015; 4:42.
15. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Early blood pressure, anti-hypotensive therapy & neurodevelopment in extremely preterm infants. *ADC Fetal Neonat Ed* 2016; 101: F201-F206.
16. Heitzer A, Piercy J, Peters B, Mattes A, Klarr J, Ofen N, Batton B, Raz S. Kindergarten Readiness and Early Biological Risk in Preterm-Born Preschoolers. *J Int Neuropsych Soc* 2016; 22: 865-877.

CHAPTERS, COMMENTARIES, LETTERS, & EDITORIALS:

1. Batton B. Healing hearts. *JAMA* 2010; 304:1303-1304.
2. Batton B. Sudden unexpected infant death – creating a safe sleep environment. *The Perinatal Monitor* 2012; 1 (3): 1-4.
3. Batton B. Blood pressure management in extremely preterm infants. www.nicuniversity.org/video. December 3, 2012.
4. Batton D, Batton B. Advocating for equality for preterm infants. *CMAJ* 2013; 185: 1557 – 1558.
5. Janvier A, on behalf of the Parents from the Other Side of Treatment. Ethics and etiquette in neonatal intensive care. *JAMA Peds* 2014; 168: 857 – 858.
6. Batton B. Longitudinal trends in NICU admission rates (commentary). www.medpagetoday.com/Pediatrics/GeneralPediatrics/52796; July 27, 2015.
7. Batton, Beau J. eLetter: Clinical Report: Antenatal counseling regarding resuscitation and intensive care before 25 weeks of gestation, *Pediatrics* (October 13, 2015), http://pediatrics.aappublications.org/content/136/3/588.full/reply#pediatrics_el_70252.
8. Janvier A, Lantos J, and the POST investigators. Stronger and more vulnerable: Impact of the NICU experience on parents. *Pediatrics* 2016; 138: e20160655.
9. Batton B. Etiology, clinical manifestations, evaluation, and management of low blood pressure in extremely preterm infants. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed on December 7, 2016.)
10. Batton B. Etiology, clinical manifestations, evaluation, and management of neonatal shock. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed on December 7, 2016.)

GRANTS & CONTRACTS AWARDED:

1. Prospective Observational Study of Heart Rate Variability Monitoring in Preterm Infants. \$15,000. Role: Principal Investigator; 2012 Southern Illinois University SOM Research Seed Grant.
2. Cerebral Oxygenation and Autoregulation in Preterm Infants: Association with Morbidity and Mortality. \$7,800. Role: Principal Investigator for Southern Illinois University SOM; Covidien.
3. Phase Ib/IIa Randomized, Placebo Controlled Study of the Safety & Efficacy of Once Daily Dosing of STP206 in Premature Very Low Birth Weight & Extremely Low Birth Weight Neonates. \$81,031. Role: Principal Investigator for Southern Illinois University SOM; Sigma-Tau Pharmaceuticals.
4. AztraSeneca Pharmaceuticals. AZ Pediatric Trial D3720C00009. \$5,000. Role: Co-Investigator for Southern Illinois University SOM.
5. HSHS St. John's Foundation. Home Nursing Intervention for Very Preterm Infants. \$200,000. Role: Principal Investigator and Project Director.

ABSTRACTS:

1. Batton D, Swails T, Batton B. Is permissive hypercarbia related to severe intraventricular hemorrhage (IVH) in extremely premature babies? *Pediatr Res* 1997; 41: 817.
2. Batton D, Swails T, Batton B. Why do some premature babies with a germinal matrix hemorrhage (GMH) develop a severe intraventricular hemorrhage (IVH) while others do not? *Pediatr Res* 1997; 41: 818.
3. Batton D, Swails T, Batton B. Early versus late, isolated germinal matrix hemorrhage (GMH) in premature babies. *Pediatr Res* 1997; 41: 819.
4. Batton D, Swails T, Batton B. Prenatal steroids and outcome at the border of viability. *Pediatr Res* 1997; 41: 1131.
5. Batton B, Swails T, Batton D. "Normal" systemic blood pressure during the first 7 days in infants born at 23-25 wks estimated gestational age (EGA). *PAS* 2005: 586.
6. Batton B, Swails T, Batton D. What makes us treat extremely premature infants for hypotension? *PAS* 2005: 587.
7. Batton B, Zhu X, Kirchner L, Wilson-Costello D, Walsh M. Blood pressure (BP) related acute and 18-22m outcomes in 23-25 wk GA infants with and without treatment for hypotension. *E-PAS* 2007: 7934.
8. Batton B, Zhu X, Kirchner L, Wilson-Costello D, Walsh M. Blood pressure, anti-hypotensive therapy, and acute 18 – 22 month outcomes in extremely premature infants. *Pediatr Res* 2007; 62: 516.
9. Batton B, Verhulst S, Collin M, Walsh. Gaining perspective: physician parents in the neonatal ICU. *E-PAS* 2009: 2840.
10. Batton B, Di Fiore J, Walsh M. Does it really help? Impact of blood pressure therapy in infants ≤ 25 weeks gestation. *E-PAS* 2009: 5511.
11. Batton B, Burnett C, Verhulst S, Batton D. United States variance in infant mortality after extremely preterm birth, 1995 – 2005. *E-PAS* 2010: 3724.
12. Batton B, Burnett C, Batton D. Despite more C-sections, the mortality rate for extremely preterm infants in the United States is not improving. *E-PAS* 2010: 2760.
13. Batton B, Batton E, Weigler K, Aylward G, Batton D. In utero SSRI anti-depressant exposure and neurodevelopment in preterm infants. *E-PAS* 2011: 2914.
14. Nubani R, Burnett C, Verhulst S, Batton D, Batton B. National variance in infant mortality following extremely preterm birth. *Pediatr Res* 2011; 70: 430.
15. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Prospective observational study of blood pressure management in infants 23 – 26 weeks gestation. *E-PAS* 2012: 750841.
16. Batton B, Li L, Newman N, Thomas S, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Blood pressure values in the first 24 hours for infants 23 – 26 weeks gestation *E-PAS* 2012: 751408.
17. Hoefgen E, Batton B, Weigler K, Verhulst S, Batton B. Inborn and outborn very preterm infant outcomes within a rural regional perinatal network in Illinois. *E-PAS* 2012: 751410.
18. Singhal S, Batton B, Verhulst S, Batton B. In-hospital morbidity and longitudinal growth for infants with gastroschisis. *E-PAS* 2012: 751409.
19. Batton B, Ahmad A, Scaife S, Verhulst S, Mueller G, Batton D. Decline in the number and healthcare costs of higher order multiple births in the United States, 2003 – 2007. *E-PAS* 2013: 4502.57.

ABSTRACTS (CONTINUED):

20. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Early blood pressure patterns, anti-hypotensive therapy and neurodevelopment in infants ≤ 26 weeks gestation. *E-PAS* 2014:1175.5
21. Batton B, Nicolas L, Wold B, Mueller G, Spenner A, Batton D. How do we think? Analysis of decision making fatigue in the Neonatal ICU. *E-PAS* 2014:2380.11
22. Japitana M, Batton D, Mueller G, Batton B. Does violating a feeding protocol for extremely premature infants matter? *E-PAS* 2014:4132.435
23. Jean-Louis M, Majjiga V, Dina P, Gupta B, Batton B. How well do physicians comply with CDC Guidelines for GBS prevention? *E-PAS* 2015: 2907.470.
24. Batton B, Mueller-Luckey G, Spenner A, Stein P. Changes in heart rate variability with hands-on nursing care in preterm infants. *E-PAS* 2016: 2881.622.
25. Batton B, Mueller-Luckey G, Spenner A, Stein P. Evolution of heart rate variability during maturation in infants born before 32 weeks gestation. *E-PAS* 2016: 3860.559.
26. Rodriguez M, Vargas L, Gupta B, Mueller-Luckey G, Chaudhary S, Batton B. Low frequency of CMV testing in infants who failed the hearing screen: potential public health implications. *E-PAS* 2016: 4104.43.
27. Majjiga V, Nimavat D, Dina P, Batton B. What makes us evaluate infants for sepsis in the NICU? *E-PAS* 2016: 4101.15.

PRESENTATIONS AT SCIENTIFIC MEETINGS:

1. Batton D, Swails T, Batton B. Prenatal steroids and outcome at the border of viability. Poster Session I, Annual Meeting of the Society of Pediatric Research, May 2, 1997, Washington DC.
2. Batton D, Swails T, Batton B. Is permissive hypercarbia related to severe intraventricular hemorrhage (IVH) in extremely premature babies? Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 5, 1997, Washington DC.
3. Mansour M, Batton B, Kang S, Labropoulos N, Littooy F, Greisler H, Baker W. Minor abnormalities on intraoperative carotid duplex are not associated with a worse clinical outcome. Joint Annual Meeting of the North American Chapter of the International Society for Cardiovascular Surgery and Society for Vascular Surgery, January 15, 2001, Chicago, Illinois.
4. Mansour A, Batton B, Kang S, Labropoulos N, Littooy F, Baker W. Should Minor Abnormalities on Intraoperative Carotid Duplex be Repaired? Annual Meeting of the Western Surgical Association, November 5, 2000, Laguna Niguel, California.
5. Batton B, Swails T, Batton D. "Normal" systemic blood pressure during the first 7 days in infants born at 23-25 wks estimated gestational age (EGA). Poster Session I, Annual Meeting of the Society of Pediatric Research, May 14, 2005, Washington DC.
6. Batton B, Swails T, Batton D. What makes us treat extremely premature infants for hypotension? Poster Session I, Annual Meeting of the Society of Pediatric Research, May 14, 2005, Washington DC.
7. Batton B, Zhu X, Kirchner L, Wilson-Costello D, Walsh M. Blood pressure related acute and 18-22m outcomes in 23-25 wk GA infants with and without treatment for hypotension. Poster Session III, Annual Meeting of the Society of Pediatric Research, May 7, 2007, Toronto, Ontario.
8. Batton B. Blood pressure related outcomes in 23 to 25 week EGA infants with and without treatment for hypotension. Oral presentation – Annual Meeting of the Ohio Neonatology Club, April 19, 2007, Cherry Valley, Ohio.
9. Batton B, Walsh M, Yoder B, Faix R, Watterberg K. Early blood pressure management and neurodevelopmental outcomes at 18-22 months in extremely preterm infants: a proposed randomized control trial. Quarterly meeting of the National Institute of Child Health and Human Development Neonatal Research Network, October 15, 2007, Bethesda, Maryland.
10. Batton B. Blood pressure, anti-hypotensive therapy, and neurodevelopment in extremely preterm infants. Oral presentation – 48th Annual Meeting of the Midwest Society for Pediatric Research, Indianapolis, IN, October 18, 2007.
11. Batton B, Walsh M, Yoder B, Faix R, Watterberg K. Feasibility study of early blood pressure management in extremely preterm infants. Quarterly meeting of the National Institute of Child Health and Human Development Neonatal Research Network, April 14, 2008, Bethesda, Maryland.
12. Batton B, Verhulst S, Collin M, Walsh. Gaining perspective: physician parents in the neonatal ICU. Poster Session I, Annual Meeting of the Society of Pediatric Research, May 2, 2009, Baltimore, Maryland.
13. Batton B, Di Fiore J, Walsh M. Does it really help? Impact of blood pressure therapy in infants ≤ 25 weeks gestation. Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 5, 2009, Baltimore, Maryland.
14. Batton B, Walsh M, Newman N. Feasibility study of early blood pressure management in extremely preterm infants – time limited data collection. Quarterly meeting of the National Institute of Child Health and Human Development Neonatal Research Network, February 12, 2010, Bethesda, Maryland.

PRESENTATIONS AT SCIENTIFIC MEETINGS (CONTINUED):

15. Burnett C, Batton B, Batton D. Despite more C-sections, the mortality rate for extremely preterm infants in the United States is not improving. Platform Session II, Annual Meeting of the Society of Pediatric Research, May 2, 2010, Vancouver, British Columbia, Canada.
16. Batton B, Burnett C, Verhulst S, Batton D. United States variance in infant mortality after extremely preterm birth, 1995 – 2005. Poster Session III, Annual Meeting of the Society of Pediatric Research, May 3, 2010, Vancouver, British Columbia, Canada.
17. Batton B, Batton E, Weigler K, Aylward G, Batton D. In utero SSRI anti-depressant exposure and neurodevelopment in preterm infants. Poster Session II, Annual Meeting of the Society of Pediatric Research, May 1, 2011, Denver, Colorado.
18. Nubani R, Batton B. National Variance in Infant Mortality Following Extremely Preterm Birth. Oral presentation – 52nd annual meeting of the Midwestern Society for Pediatric Research, Madison, WI, October 6, 2011.
19. Batton B. Randomized Trial of Dopamine for Low Blood Pressure in Infants ≤ 26 Weeks Gestation. Quarterly meeting of the National Institute of Child Health and Human Development Neonatal Research Network, October 26, 2011, Bethesda, Maryland.
20. Batton B. Prospective observational study of blood pressure management in infants 23 – 26 weeks gestation. Oral Platform Presentation, Annual Meeting of the Society of Pediatric Research, April 28, 2012, Boston, Massachusetts.
21. Batton B. Blood pressure values in the first 24 hours for infants 23 – 26 weeks gestation. Poster Session III, Annual Meeting of the Society of Pediatric Research, April 30, 2012, Boston, Massachusetts.
22. Hoefgen E, Batton B, Weigler K, Verhulst S, Batton B. Inborn and outborn very preterm infant outcomes within a rural regional perinatal network in Illinois. Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 1, 2012, Boston, Massachusetts.
23. Singhal S, Batton B, Verhulst S, Batton B. Gastroschisis: impact of preterm birth and Cesarean delivery on in-hospital outcomes. Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 1, 2012, Boston, Massachusetts.
24. Batton B, Ahmad A, Scaife S, Verhulst S, Mueller G, Batton D. Decline in the number and healthcare costs of higher order multiple births in the United States, 2003 – 2007. Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 7, 2013, Washington, D. C.
25. Batton B, Li L, Newman N, Das A, Watterberg K, Yoder B, Faix R, Laughon M, Stoll B, Higgins R, Walsh M. Early blood pressure patterns, therapy for hypotension, and neurodevelopment in extremely preterm infants. Platform Presentation, Annual Meeting of the Society of Pediatric Research, May 3, 2014, Vancouver, British Columbia, Canada.
26. Batton B, Nicolas L, Wold B, Mueller G, Spenner A, Batton D. How do we think? Analysis of decision making fatigue in the Neonatal ICU. Poster Symposium, Annual Meeting of the Society of Pediatric Research, May 4, 2014, Vancouver, British Columbia, Canada.
27. Japitana M, Batton D, Mueller G, Batton B. Does violating a feeding protocol for extremely premature infants matter? Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 6, 2014, Vancouver, British Columbia, Canada.
28. Jean-Louis M, Majjiga V, Dina P, Gupta B, Batton B. How well do physicians comply with CDC Guidelines for GBS prevention? Poster Session II, Annual Meeting of the Society of Pediatric Research, April 26, 2015, San Diego, California.

PRESENTATIONS AT SCIENTIFIC MEETINGS (CONTINUED):

29. Koch B, Batton B. How do we think? Analysis of decision making fatigue in the Neonatal ICU. Oral presentation – 56th annual meeting of the Midwestern Society for Pediatric Research, Kansas City, MO, October 30, 2015.
28. Jean-Louis M, Majjiga V, Dina P, Gupta B, Batton B. How well do physicians comply with CDC Guidelines for GBS prevention? Poster Presentation, Annual Meeting of the Illinois Perinatal Quality Collaborative; Chicago, IL, November 18, 2015.
29. Batton B, Mueller-Luckey G, Spenner A, Stein P. Changes in heart rate variability with hands-on nursing care in preterm infants. Poster Session II, Annual Meeting of the Society of Pediatric Research, May 1, 2016, Baltimore, Maryland.
30. Batton B, Mueller-Luckey G, Spenner A, Stein P. Evolution of heart rate variability during maturation in infants born before 32 weeks gestation. Poster Session III, Annual Meeting of the Society of Pediatric Research, May 2, 2016, Baltimore, Maryland.
31. Rodriguez M, Vargas L, Gupta B, Mueller-Luckey G, Chaudhary S, Batton B. Low frequency of CMV testing in infants who failed the hearing screen: potential public health implications. Poster Session II, Annual Meeting of the Society of Pediatric Research, May 1, 2016, Baltimore, Maryland.
32. Majjiga V, Nimavat D, Dina P, Batton B. What makes us evaluate infants for sepsis in the NICU? Poster Session IV, Annual Meeting of the Society of Pediatric Research, May 3, 2016, Baltimore, Maryland.
33. Majjiga V, Jean-Louis M, Darling G, Stewart D, Hopkins E, Mueller-Luckey G, Batton B. Reduction in Non-Central Line Associated CONS Bacteremia in the NICU. ILPQC 4th Annual Conference, November 3, 2016, Lombard, Illinois.

GENERAL PRESENTATIONS:

(William Beaumont Hospital)

1. Cardiac dysfunction in the Twin Twin Transfusion Syndrome. Chairman's Conference, Department of Pediatrics. May 26, 2005.
2. Management of hypotension in extremely premature infants. William Beaumont Hospital Resident Research Forum. June 8, 2005.

(Rainbow Babies and Children's Hospital)

1. Use of restrictive guidelines for red blood cell transfusion in preterm infants. Neonatology Conference. November 7, 2005.
2. New insights into the pathophysiology of the Twin Twin Transfusion Syndrome. Perinatology Conference. February 14, 2006.
3. Talking up about Down? Conveying the diagnosis of Down syndrome to parents. Perinatology Conference. October 27, 2006.
4. Blood pressure related outcomes in 23 to 25 week gestational age infants with and without treatment for hypotension. CASE Research Showcase. April 12, 2007.
5. Blood pressure in 23 – 25 week infants, treatment for hypotension, and outcome. Annual Fellows Research Day. June 15, 2007.
6. Caffeine therapy for preterm infants. Neonatology Conference. December 7, 2007.
7. What happens to good children with bad hearts? Physiology Conference. February 29, 2008.
8. Antenatal steroid therapy for 23 – 25 week infants enhances early viability without increasing long term survival. 38th Annual Science Day. June 6, 2008.

(Outside Rainbow Babies and Children's Hospital)

1. Blood pressure, anti-hypotensive therapy, and neurodevelopment in infants ≤ 25 weeks gestation. NEO Neonatology Meeting. May 29, 2008.

(St. John's Children's Hospital and Southern Illinois University School of Medicine)

1. Necrotizing enterocolitis in the preterm infant. Pediatric Morbidity and Mortality Conference. August 22, 2008.
2. Gaining perspective: physician parents in the NICU. Pediatric Journal Club. April 21, 2009.
3. Pulmonary hypertension and hydrocolpos in a preterm infant. Pediatric Morbidity and Mortality Conference. October 30, 2009.
4. Talking up about Down? Conveying the diagnosis of Down syndrome to parents. Pediatric Grand Rounds. November 19, 2009.
5. Impact of age at Kasai operation on its results in late childhood and adolescence: A rational basis for biliary atresia screening. Pediatric Journal Club. April 20, 2010.
6. Prenatal consultation at extremely preterm gestations. Pediatric Morbidity and Mortality Conference. May 28, 2010.
7. A newborn girl with massive hepatomegaly and respiratory failure. Pediatric Morbidity and Mortality Conference. July 26, 2010.
8. A newborn infant with apnea and seizures. Pediatric Morbidity and Mortality Conference. October 25, 2010.
9. Cesarean section and infant mortality rates for extremely preterm infants. St. John's Children's Hospital Quarterly Perinatal Morbidity and Mortality Conference. December 2, 2010.
10. Neonatal resuscitation in the 21st Century. Pediatric Grand Rounds. February 10, 2011.

GENERAL PRESENTATIONS (CONTINUED):

(St. John's Children's Hospital and Southern Illinois University School of Medicine)

11. The incidence of neonatal asphyxia in Springfield. St. John's Children's Hospital Quarterly Perinatal Morbidity and Mortality Conference. September 1, 2011.
12. A case of neonatal malrotation. Pediatric Morbidity and Mortality Conference. September 26, 2011.
13. Sudden unexpected infant death. Pediatric Grand Rounds. April 12, 2012.
14. Case presentation: A newborn with a Vein of Galen malformation. Pediatric Grand Rounds. October 18, 2012.
15. A physician's guide to the Affordable Care Act. Pediatric Grand Rounds. October 25, 2012.
16. Giving bad news to parents: Does what we say matter? Pediatric Grand Rounds. December 13, 2012.
17. Communicating bad news before delivery: Does what we say matter? Obstetrics and Gynecology Grand Rounds. March 15, 2013.
18. Perinatal management of gastroschisis. St. John's Children's Hospital Quarterly Perinatal Morbidity and Mortality Conference. May 1, 2013.
19. Congenital heart disease outcomes in the 21st century. Pediatric Grand Rounds. October 17, 2013.
20. Preterm infant with a pulmonary embolism. Pediatric Morbidity and Mortality Conference. January 27, 2014
21. Twin twin transfusion syndrome: mortality and neurodevelopment. Perinatal Morbidity and Mortality Conference. July 3, 2014
22. Preterm infant with multiple congenital anomalies, including a giant omphalocele. Pediatric Morbidity and Mortality Conference. August 25, 2014
23. Spitting versus Reflux: When does an infant have GER versus GERD? Pediatric Grand Rounds. December 4, 2014.
24. An extremely preterm infant with cardiac tamponade. Pediatric Morbidity and Mortality Conference. August 31, 2015.
25. The Right to Exist. Pediatric Grand Rounds. November 5, 2015.
26. Patient Rights at 23 Weeks Gestation. HSHS St. John's Hospital Quarterly Perinatal Morbidity and Mortality Conference. June 2, 2016.
27. Pediatric Morbidity & Mortality Conference (necrotizing enterocolitis and enterococcus bacteremia in a term infant); August 29, 2016.
28. Pediatric Grand Rounds (LEAN: Postnatal growth in preterm infants); September 29, 2016.
29. Pediatric Grand Rounds (Preterm infant care in Springfield: yesterday, today, and tomorrow); December 8, 2016.

(Outside St. John's Children's Hospital and Southern Illinois University School of Medicine)

1. Twin twin transfusion syndrome: epidemiology, pathophysiology, outcome. The 2008 Neonatal and Pediatric Critical Care Conference. Springfield, IL; October 16, 2008.
2. Giving bad news to parents: Does what we say matter? Conference on Common and not so Common Problems with the Fetus and Newborn. Springfield, IL; September 22, 2010.
3. Neonatal asphyxia in Springfield, Illinois. Memorial Medical Center Quarterly Perinatal Conference. Springfield, IL; October 19, 2011.
4. Blood pressure management in extremely preterm infants. 12th Annual Conference on Neonatal Pharmacology. Washington, D. C.; June 7, 2012.
5. Case based patent ductus arteriosus treatment. 12th Annual Conference on Neonatal Pharmacology. Washington, D. C.; June 7, 2012.

GENERAL PRESENTATIONS (CONTINUED):

(Outside St. John's Children's Hospital and Southern Illinois University School of Medicine)

6. Outcomes of outborn preterm infants in a rural perinatal network. Illinois Department of Public Health Perinatal Advisory Committee – Statewide Quality Council Meeting. Chicago, IL; October 10, 2012.
7. Blood pressure management for extremely preterm infants. Hot Topics in Neonatology 2012. Washington, D. C.; December 3, 2012.
8. What to do about blood pressure in our smallest most fragile infants. 38th Annual Illinois March of Dimes Perinatal Symposium. Lisle, IL; March 8, 2013.
9. Communicating bad news to parents: Is there an optimal way to do it? 38th Annual Illinois March of Dimes Perinatal Symposium. Lisle, IL; March 8, 2013.
10. The complex hemodynamics of twin twin transfusion syndrome. VII Neonatal International Symposium. Buenos Aires, Argentina; May 21, 2014.
11. Life in the NICU from the parents' perspectives. VII Neonatal International Symposium. Buenos Aires, Argentina; May 23, 2014.
12. Antenatal corticosteroid therapy: Are we doing as well as we should be? March of Dimes 40th Annual Perinatal Nursing Conference. Lombard, IL; March 10, 2015.
13. Delivering Bad News. Illinois AWHONN Section Conference. Peoria, IL; April 24, 2015.
14. The right to exist. New England Association of Neonatologists Griffin Symposium. Marlborough, MA; September 18, 2015.
15. Why ACT?: Antenatal Corticosteroid Treatment (ACT) Initiative. Illinois Perinatal Quality Collaborative. Chicago, IL; October 5, 2015.
16. Neurodevelopment and disability in infants born preterm. Central Illinois Psychological Society. Springfield, IL; October 15, 2015.

STUDENT & RESIDENT MENTORING:

(Undergraduate Student Research Program at Southern Illinois University School of Medicine)

1. Christopher Burnett (June, 2009 – August, 2010): Extremely preterm infant mortality rates and Cesarean deliveries in the United States
2. Emily Batton (June, 2010 – August, 2010): In utero SSRI anti-depressant exposure and neurodevelopment in preterm infants
3. Reem Nubani (October, 2010 – June, 2012): United States variance in infant mortality after extremely preterm birth, 1995 to 2005
4. Tisha Spence (December, 2010 – April, 2011): Neonatal neuroblastoma case report
5. Erik Hoefgen (February, 2011 – June, 2012): Very preterm infant outcomes within a rural regional perinatal network
6. Aysha Ahmad (July, 2011 – May, 2012): Health care costs of triplets and higher order multiples in the United States, 1999 – 2007
7. Melissa Bradley (November, 2011 – May, 2013): Timing of identification and treatment of intestinal malrotation and volvulus
8. Brittany Koch (June, 2014 – June, 2015): Decision making during rounds in the Neonatal ICU
9. Rae Gumayan (January, 2015 – August, 2015): Enhancing health care access for at-risk newborns

(Undergraduate Medical Students, Third or Fourth Year Curriculum Advisor)

- 2009 – 2010 Sarah Falcon, Shaun Hayes, Benjamin Luong, Adam Vanderwaal
2010 – 2011 Matthew Abel, Shannon Curry, Erik Hoefgen
2011 – 2012 Anton Grash, Adam Henke, Gretchen Kopek
2012 – 2013 Robert Tennill, Ashley Leverenz, Jake Varney
2013 – 2014 Andrew Barfield, Ross Moore, Mike Buzzard
2014 – 2015 Brad Restivo, Jessica Healey, Kevin McDaniel
2015 – 2016 Christopher Burnett, Sean Murray
2016 – 2017 Dan Ansbros, Kristin Terry, Krista Hartline

(Pediatric Residents, Research Mentor)

1. Sarita Singhal (July, 2010 – June, 2012): Longitudinal growth and cholestatic jaundice in newborns with abdominal wall defects
2. Jane Taylor (July, 2010 – June, 2011): The incidence of neonatal asphyxia in Springfield, Illinois
3. Finney George, (October, 2010 – June, 2011): Fetal growth patterns in a contemporary population of newborns in Springfield, Illinois
4. Marion Japitana (December, 2011 – June, 2013): Effect of a standardized feeding protocol on the incidence of necrotizing enterocolitis
5. Lara Nicolas (April, 2012 – June, 2013): Decision making in the NICU
6. Saloni Balgi (January, 2013 – June, 2015): 13.5 year review of gastroschisis patients
7. Nicole Carmichael (December, 2013 – June, 2016): Unusual genotype and neonatal presentation of Shwachman-Diamond Syndrome; Therapeutic hypothermia in a regional perinatal network
8. Brittany Wold (March, 2014 – Present): Decision making in the NICU

(Pediatric Resident, Residency & Education Mentor)

1. Sarita Singhal (July, 2009 – June, 2012)
2. Joshua Burkhardt (July, 2012 – December, 2015)
3. Brittany Wold (March, 2014 – June, 2016)

MISCELLANEOUS ACADEMIC ACTIVITIES:

1. Course on Functional Echocardiography in the Neonate. Women's & Children's Hospital, University of South California. Los Angeles, California, September 2007.
2. Yearbook of Neonatal and Perinatal Medicine 2008 (Contributing Editor). Philadelphia: Elsevier Mosby, 2008.
3. Application Reviewer, Mentor Professional Enrichment Experience, Southern Illinois University SOM (07/2009)
4. Principal Investigator, "Early Blood Pressure Management in Extremely Preterm Infants Feasibility Pilot Study" (a multicenter pilot randomized controlled trial of dopamine and hydrocortisone versus placebo for management of low blood pressure in infants born 23 to 26 weeks gestation). *Eunice Kennedy Shriver* National Institute of Child Health and Human Development Neonatal Research Network; ClinicalTrials.gov #NCT00874393.
5. Principal Investigator for St. John's Children's Hospital for the multicenter study "Newborn Ventilation in the Delivery room: Can it be improved with a T-piece Resuscitator?" FUNDASAMIN, Buenos Aires, Argentina; ClinicalTrials.gov # NCT00443118.
6. Principal Investigator for SIU School of Medicine for the multicenter study "Cerebral Oxygenation and Autoregulation in Preterm Infants: Association with Morbidity and Mortality." Stanford University, Palo Alto, CA and Covidien, Boulder, CO; ClinicalTrials.gov #NCT02147769.
7. Principal Investigator for SIU School of Medicine for the multicenter study, "A Phase Ib/IIa Randomized, Placebo Controlled Study of the Safety and Efficacy of Once Daily Dosing of STP206 in Premature Very Low Birth Weight and Extremely Low Birth Weight Neonates." Sigma-Tau Pharmaceuticals, Gaithersburg, MD; ClinicalTrials.gov # NCT0195401.
8. Co-Investigator for SIU School of Medicine for the multicenter study, "AZ Pediatric Trial D3720C00009." AztraSeneca Pharmaceuticals, Gaithersburg, MD; ClinicalTrials.gov# NCT02424734.
9. Abstract Reviewer & Poster Facilitator, 2016 Pediatric Academic Society Annual Meeting
10. *Change Leader*, HSHS Lean Six Sigma training course (green belt)