

This document contains all publications, invited talks, abstracts and presentations for Neonatal-Perinatal faculty for 2016-2018.
Rev 7/2/2019

Original Peer-Reviewed Journal Articles

2018

- Adams-Chapman I, Heyne RJ, DeMauro SB, et al. Neurodevelopmental Impairment Among Extremely Preterm Infants in the Neonatal Research Network. *Pediatrics*. 2018 May;141(5). PMID: 29666163
- Babata K, Bright HR, Allred EN, et al. Socioemotional dysfunctions at age 10 years in extremely preterm newborns with late-onset bacteremia. *Early Hum Dev*. 2018 Jun;121:1-7. PMID: 29702395
- Babata K, McGuirl J. Are we ready to modify our definition of bronchopulmonary dysplasia (BPD) to improve prognostication? *J Perinatol*. 2018 Mar;38(3):203-205. PMID: 29288253
- Babu ST, Niu X, Raetz M, Savani RC, Hooper LV, Mirpuri J. Maternal high-fat diet results in microbiota-dependent expansion of ILC3s in mice offspring. *JCI Insight*. 2018 Oct 4;3(19). PMID: 30282818
- Bajaj M, Natarajan G, Shankaran S, Wyckoff M, et al., Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Brion LP). Delivery Room Resuscitation and Short-Term Outcomes in Moderately Preterm Infants. *J Pediatr*. 2018 Apr;195:33-38.e2. PMID: 29306493
- Biobaku F, Babata K, Friedman H, Goddard A, Yen E Case 3: A Term Newborn with Intrauterine Growth Restriction and Severe Fetal Brain Anomalies *NeoReviews* 2018;19(10): e616-e61.
- Chalak LF, Nguyen KA, Prempunpong C, Heyne R, et al. Prospective research in infants with mild encephalopathy identified in the first six hours of life: neurodevelopmental outcomes at 18-22 months. *Pediatr Res*. 2018 Dec;84(6):861-868. PMID: 30250303
- Feng L, Li H, Oishi K, Mishra V, Song L, Peng Q, Ouyang M, Wang J, Slinger M, Jeon T, Lee L, Heyne R, Chalak L, Peng Y, Liu S, Huang H. Age-specific gray and white matter DTI atlas for human brain at 33, 36 and 39 postmenstrual weeks. *Neuroimage*. 2018 Jun 26. pii: S1053-8119(18)30576-7. PMID: 29959046
- French H, Gray M, Gillam-Krakauer M, Bonachea EM, Carbajal M, Payne A, Vasquez MM, Rubinos L, Falck A, Izatt S, Dadiz R. Flipping the classroom: a national pilot curriculum for physiology in neonatal-perinatal medicine. *J Perinatol*. 2018 Oct;38(10):1420-1427. PMID: 30087455
- Hintz SR, Vohr BR, Bann CM, Taylor HG, Das A, Gustafson KE, Yolton K, Watson VE, Lowe J, DeAnda ME, Ball MB, Finer NN, Van Meurs KP, Shankaran S, Pappas A, Barnes PD, Bulas D, Newman JE, Wilson-Costello DE, Heyne RJ, et al. Preterm Neuroimaging and School-Age Cognitive Outcomes. *Pediatrics*. 2018 Jul;142(1). PMID: 29945955
- Ibrahim J, Pavageau L, Miller J, Timmons C, Wickiser J, Piper H, Dariya V, Brion LP. A large prenatally undiagnosed mass in a preterm infant, what could it be? *NeoReviews* 2018;19(7): e413-417.
- Isayama T, Dawson JA, Roehr CC, Rabi Y, Weiner GM, Aziz K, Kapadia VS, et al., Wyckoff MH. Initial oxygen concentration for term neonatal resuscitation [Internet] Brussels, Belgium: International Liaison Committee on Resuscitation (ILCOR) Neonatal Life Support Task Force, November 12, 2018.
- Kapadia V, Rabi Y, Oei JL. The Goldilocks principle. Oxygen in the delivery room: When is it too little, too much, and just right? *Semin Fetal Neonatal Med*. 2018 Oct;23(5):347-354. PMID: 29983332
- Kapadia V, Wyckoff MH. Oxygen Therapy in the Delivery Room: What Is the Right Dose? *Clin Perinatol*. 2018 Jun;45(2):293-306. PMID: 29747889
- Lagatta JM, Hysinger EB, Zaniletti I, Wymore EM, Vyas-Read S, Yallapragada S, Nelin LD, Truog WE, Padula MA, Porta NFM, Savani RC, et al. The Impact of Pulmonary Hypertension in Preterm Infants with Severe Bronchopulmonary Dysplasia through 1 Year. *J Pediatr*. 2018 Dec;203:218-224.e3 PMID: 30172426
- Lane SR, Miller H, Ames E, Garber L, Kibbe DC, Schneider JH, Lehmann CU; DirectTrust Clinicians' Steering Group. Consensus Statement: Feature and Function Recommendations to Optimize Clinician Usability of Direct Interoperability to Enhance Patient Care. *Appl Clin Inform*. 2018 Jan;9(1):205-220. PMID: 29564850
- Laptook AR, Bell EF, Shankaran S, Boghossian NS, Wyckoff MH, Kandefor S, Walsh M, Saha S, Higgins R; Generic and Moderate Preterm Subcommittees of the NICHD Neonatal Research Network (Brion LP). Admission Temperature and Associated Mortality and Morbidity among Moderately and Extremely Preterm Infants. *J Pediatr*. 2018 Jan;192:53-59.e2. PMID: 29246358
- Markasz L, Savani RC, Sedin G, Sindelar R. The receptor for hyaluronan-mediated motility (RHAMM) expression in neonatal bronchiolar epithelium correlates negatively with lung air content. *Early Hum Dev*. 2018 Dec;127:58-68. PMID: 30312861

- Mink R, Schwartz A, Carraccio C, et al; Steering Committee of the Subspecialty Pediatrics Investigator Network (Brion LP, Green M, Journeycake J, Yen K, Quigley R). Creating the Subspecialty Pediatrics Investigator Network. *J Pediatr*. 2018 Jan;192:3-4.e2. PMID: 29246355
- Mink RB, Schwartz A, Herman BE, et al; the Steering Committee of the Subspecialty Pediatrics Investigator Network (SPIN) (Brion L, Green M, Journeycake J, Yen K, Quigley R). Validity of Level of Supervision Scales for Assessing Pediatric Fellows on the Common Pediatric Subspecialty Entrustable Professional Activities. *Acad Med*. 2018 Feb;93(2):283-291. 287004862
- Mir I, Chalak L, Liao J, Johnson-Welch S, Brown L, Longoria C, Savani R, Rosenfeld C. Fetal-placental crosstalk occurs through fetal cytokine synthesis and placental clearance. *Placenta*. 2018 Sep;69:1-8. PMID: 30213477
- Morgan JL, Kogutt BK, Meek C, Stehel EK, et al. Pharmacokinetics of amlodipine besylate at delivery and during lactation. *Pregnancy Hypertens*. 2018 Jan;11:77-80. PMID: 29523279
- Natarajan G, Shankaran S, Saha S, et al., Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Wyckoff M, Brion LP). Antecedents and Outcomes of Abnormal Cranial Imaging in Moderately Preterm Infants. *J Pediatr*. 2018 Apr;195:66-72.e3. PMID: 29395186
- Oei JL, Finer NN, Saugstad OD, Wright IM, Rabi Y, Tarnow-Mordi W, Rich W, Kapadia V, et al. Outcomes of oxygen saturation targeting during delivery room stabilisation of preterm infants. *Arch Dis Child Fetal Neonatal Ed*. 2018 Sep;103(5):F446-F454. PMID: 28988158
- Ortigoza EB, Cagle J, Chien JH, et al. Electrogastrography, Near-infrared Spectroscopy, and Acoustics to Measure Gastrointestinal Development in Preterm Babies. *J Pediatr Gastroenterol Nutr*. 2018 Jun;66(6):e146-e152. PMID: 29287010
- Pappas A, Adams-Chapman I, Shankaran S, McDonald SA, Stoll BJ, Laptook AR, Carlo WA, Van Meurs KP, Hintz SR, Carlson MD, Brumbaugh JE, Walsh MC, Wyckoff MH, et al. Neurodevelopmental and Behavioral Outcomes in Extremely Premature Neonates With Ventriculomegaly in the Absence of Periventricular-Intraventricular Hemorrhage. *JAMA Pediatr*. 2018 Jan 1;172(1):32-42. PMID: 29181530
- Pavageau L, Rosenfeld CR, Heyne R, Brown LS, Whitham J, Lair C, Brion LP. Valid serial length measurements in preterm infants permit characterization of growth patterns. *J Perinatol*. 2018 Dec;38(12):1694-1701. PMID: 30267002
- Phelps DL, Watterberg KL, Nolen TL, et al., Brion L, et al; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Effects of Myo-inositol on Type 1 Retinopathy of Prematurity Among Preterm Infants <28 Weeks' Gestational Age: A Randomized Clinical Trial *JAMA*. 2018 Oct 23;320(16):1649-1658. PMID: 30357297
- Prempunpong C, Chalak LF, Garfinkle J, et al. Prospective research on infants with mild encephalopathy: the PRIME study. *J Perinatol*. 2018 Jan;38(1):80-85. PMID: 29095433
- Sarkar S, Shankaran S, Barks J, et al., Wyckoff MH, Stoll BJ, Carlo WA; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Heyne RJ, Brion LP, Rosenfeld CR). Outcome of Preterm Infants with Transient Cystic Periventricular Leukomalacia on Serial Cranial Imaging Up to Term Equivalent Age. *J Pediatr*. 2018 Apr;195:59-65.e3. PMID: 29398046
- Sisman J, Chalak L, Heyne R, Pritchard M, Weakley D, Brown LS, Rosenfeld CR. Lenticulostriate vasculopathy in preterm infants: a new classification, clinical associations and neurodevelopmental outcome. *J Perinatol*. 2018 Oct;38(10):1370-1378. PMID: 30115968
- Temple MW, Sisk B, Krams LA, Schneider JH, Kirkendall ES, Lehmann CU. Trends in Use of Electronic Health Records in Pediatric Office Settings. *J Pediatr*. 2018 Dec 5. pii: S0022-3476(18)31546-4. PMID: 30527749
- Vohr BR, Heyne R, Bann CM, Das A, Higgins RD, Hintz SR; Eunice Kennedy Shriver National Institute of Child Health, and Development Neonatal Research Network (Rosenfeld CR, Brion L). Extreme Preterm Infant Rates of Overweight and Obesity at School Age in the SUPPORT Neuroimaging and Neurodevelopmental Outcomes Cohort. *J Pediatr*. 2018 Sep;200:132-139.e3. PMID: 29793869
- Vohr BR, Heyne R, Bann C, et a. High Blood Pressure at Early School Age Among Extreme Preterms. *Pediatrics*. 2018 Aug;142(2). PMID: 30054344
- Zhao T, Mishra V, Jeon T, Ouyang M, Peng Q, Chalak L, Wisnowski JL, Heyne R, et al. Structural network maturation of the preterm human brain. *Neuroimage*. 2018 Jun 18. pii: S1053-8119(18)30554-8. PMID: 29913282

2017

- Adhikari EH, Nelson DB, Johnson KA, et al. Infant outcomes among women with Zika virus infection during pregnancy: results of a large prenatal Zika screening program. *Am J Obstet Gynecol* 2017;216:292 e1- e8. PMID: 28153665
- Badawy SM, Rossoff J, Yallapragada S, Liem RI, Sharathkumar AA. Successful medical management of a neonate with

- spontaneous splenic rupture and severe hemophilia A. *Hematol Oncol Stem Cell Ther* 2017;10:29-32. PMID: 27178624
- Boghossian NS, Do BT, Bell EF, Dagle JM, Brumbaugh JE, Stoll BJ, Vohr BR, Das A, Shankaran S, Sanchez PJ, Wyckoff MH, et al. Efficacy of pharmacologic closure of patent ductus arteriosus in small-for-gestational-age extremely preterm infants. *Early Hum Dev* 2017;113:10-7. PMID: 28697406
 - Cao M, He Y, Dai Z, Liao X, Jeon T, Ouyang M, Chalak L, Bi Y, Rollins N, et al. Early Development of Functional Network Segregation Revealed by Connectomic Analysis of the Preterm Human Brain. *Cereb Cortex* 2017;27:1949-63. PMID: 26941380
 - Chalak LF, Tian F, Adams-Huet B, et al. Novel Wavelet Real Time Analysis of Neurovascular Coupling in Neonatal Encephalopathy. *Sci Rep* 2017;7:45958. PMID: 28393884
 - Chalak LF, Zhang R. New Wavelet Neurovascular Bundle for Bedside Evaluation of Cerebral Autoregulation and Neurovascular Coupling in Newborns with Hypoxic-Ischemic Encephalopathy. *Dev Neurosci* 2017;39(1-4):89-96. PMID: 28355608
 - Chawla S, Natarajan G, Shankaran S, Carper B, Brion L, et al. Markers of Successful Extubation in Extremely Preterm Infants, and Morbidity After Failed Extubation. *J Pediatr* 2017 Oct;189:113-119.e2. PMID: 28600154
 - DeVries LB, Heyne RJ, Ramaciotti C, Brown LS, Jaleel MA, Kapadia VS, Burchfield PJ, Brion LP. Mortality among infants with evolving bronchopulmonary dysplasia increases with major surgery and with pulmonary hypertension. *J Perinatol* 2017 Sep;37(9):1043-1046. PMID: 28617427
 - Di Fiore JM, Martin RJ, Li H, et al, SUPPORT Study Group of the Eunice Kennedy Shriver National Institute of Child Health, and Human Development Neonatal Research Network (Rosenfeld CR). Patterns of Oxygenation, Mortality, and Growth Status in the Surfactant Positive Pressure and Oxygen Trial Cohort. *J Pediatr* 2017 Jul;186:49-56.e1. PMID: 28279433
 - Duncan AF, Frankfurt JA, Heyne RJ, Rosenfeld CR. Biomarkers of adiposity are elevated in preterm very-low-birth-weight infants at 1, 2, and 3 y of age. *Pediatr Res* 2017;81:780-6. PMID: 28099428
 - Halling C, Sparks JE, Christie L, Wyckoff MH. Efficacy of Intravenous and Endotracheal Epinephrine during Neonatal Cardiopulmonary Resuscitation in the Delivery Room. *J Pediatr* 2017 Jun;185:232-236 PMID: 28285754
 - Mir IN, Chalak L. Placenta – ‘The Least Understood Human Organ’ – From Animistic Origins to Human Placental Project. *SciMedCentral* (2017) 2(2):1013.
 - James J, Munson D, DeMauro SB, et al, Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Wyckoff M, Brion LP, Heyne RJ) Outcomes of Preterm Infants following Discussions about Withdrawal or Withholding of Life Support. *J Pediatr* 2017 Nov;190:118-123.e4. PMID: 28647272
 - Jensen EA, Dysart KC, Gantz MG, et al, Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Brion LP). Association between Use of Prophylactic Indomethacin and the Risk for Bronchopulmonary Dysplasia in Extremely Preterm Infants. *J Pediatr* 2017 Jul;186:34-40.e2. PMID: 28258737
 - Kapadia VS, Lal CV, Kakkilaya V, Heyne R, Savani RC, Wyckoff MH. Impact of the Neonatal Resuscitation Program-Recommended Low Oxygen Strategy on Outcomes of Infants Born Preterm. *J Pediatr*. 2017 Dec;191:35-41. PMID: 29173319
 - Kapadia VS, Wyckoff MH. Epinephrine Use during Newborn Resuscitation. *Front Pediatr* 2017;5:97. PMID: 28507983
 - Laptook AR, Shankaran S, Tyson JE, Munoz B, Bell EF, Goldberg RN, Parikh NA, Ambalavanan N, Pedroza C, Pappas A, Das A, Chaudhary AS, Ehrenkranz RA, Hensman AM, Van Meurs KP, Chalak LF, Hamrick SEG, Sokol GM, Walsh MC, Poindexter BB, Faix RG, Watterberg KL, Frantz ID 3rd, Guillet R, Devaskar U, Truog WE, Chock VY, Wyckoff MH, et al. Effect of Therapeutic Hypothermia Initiated After 6 Hours of Age on Death or Disability Among Newborns With Hypoxic-Ischemic Encephalopathy: A Randomized Clinical Trial. *JAMA*. 2017 Oct 24;318(16):1550-1560. PMID: 29067428
 - Muller JJ, Schwab M, Rosenfeld CR, et al. Fetal Sheep Mesenteric Resistance Arteries: Functional and Structural Maturation. *J Vasc Res* 2017;54:259-71. PMID: 28810262
 - Murthy K, Porta NFM, Lagatta JM, Zaniletti I, Truog WE, Grover TR, Nelin LD, Savani RC. Inter-center variation in death or tracheostomy placement in infants with severe bronchopulmonary dysplasia. *J Perinatol* 2017;37:723-7. PMID: 28181997
 - Oei JL, Vento M, Rabi Y, Wright I, Finer N, Rich W, Kapadia V, et al. Higher or lower oxygen for delivery room resuscitation of preterm infants below 28 completed weeks gestation: a meta-analysis. *Arch Dis Child Fetal Neonatal Ed* 2017;102:F24-F30. PMID: 27150977
 - Ouyang M, Liu P, Jeon T, Chalak L, Heyne R, Rollins NK, et al. Heterogeneous increases of regional cerebral blood flow during preterm brain development: Preliminary assessment with pseudo-continuous arterial spin labeled perfusion MRI. *Neuroimage* 2017;147:233-42. PMID: 27988320
 - Puopolo KM, Mukhopadhyay S, Hansen NI, Cotten CM, Stoll BJ, Sanchez PJ, Bell EF, Das A, Hensman AM, Van Meurs KP, Wyckoff MH; NICHD Neonatal Research Network. Identification of Extremely Premature Infants at Low Risk for Early-Onset

Sepsis. *Pediatrics*. 2017 Nov;140(5). PMID: 28982710

- Ross SA, Ahmed A, Palmer AL, Michaels MG, Sanchez PJ, Stewart A, et al. Newborn Dried Blood Spot Polymerase Chain Reaction to Identify Infants with Congenital Cytomegalovirus-Associated Sensorineural Hearing Loss. *J Pediatr* 2017;184:57-61 e1. PMID: 28237380
- Schindel DT, Twickler D, Frost N, et al. Prognostic significance of an antenatal magnetic resonance imaging staging system on airway outcomes of fetal craniofacial venolymphatic malformations. *J Surg Res* 2017 Sep;217:187-190. PMID: 28583755
- Shankaran S, Laptook AR, Pappas A, McDonald SA, Das A, Tyson JE, Poindexter BB, Schibler K, Bell EF, Heyne RJ, Pedroza C, Bara R, Van Meurs KP, Huitema CMP, Grisby C, Devaskar U, Ehrenkranz RA, Harmon HM, Chalak LF, et al. Effect of Depth and Duration of Cooling on Death or Disability at Age 18 Months Among Neonates With Hypoxic-Ischemic Encephalopathy: A Randomized Clinical Trial. *JAMA* 2017;318:57-67. PMID: 28672318
- Sheehan JW, Pritchard M, Heyne RJ, Brown LS, Jaleel MA, Engle WD, Burchfield PJ, Brion LP. Severe intraventricular hemorrhage and withdrawal of support in preterm infants. *J Perinatol* 2017;37:441-7. PMID: 27977011
- Sheibani L, Lechuga TJ, Zhang H, Hameed A, Wing DA, Kumar S, Rosenfeld CR, et al. Augmented H2S production via cystathionine-beta-synthase upregulation plays a role in pregnancy-associated uterine vasodilation. *Biol Reprod* 2017;96:664-72. PMID: 28339573
- Tian F, Morriss MC, Chalak L, Venkataraman R, Ahn C, Liu H, Raman L. Impairment of cerebral autoregulation in pediatric extracorporeal membrane oxygenation associated with neuroimaging abnormalities. *Neurophotonics* 2017;4:041410. PMID: 28840161
- Vali P, Chandrasekharan P, Rawat M, Gugino S, Koenigsnecht C, Helman J, Jusko WJ, Berkelhamer S, Nair J, Wyckoff MH, et al. Evaluation of Timing and Route of Epinephrine in a Neonatal Model of Asphyxial Arrest. *J Am Heart Assoc* 2017;6. PMID: 28214793
- Vali P, Chandrasekharan P, Rawat M, Gugino S, Koenigsnecht C, Helman J, Mathew B, Berkelhamer S, Nair J, Wyckoff M, et al. Hemodynamics and gas exchange during chest compressions in neonatal resuscitation. *PLoS one* 2017;12:e0176478. PMID: 28441439
- Watterberg KL, Fernandez E, Walsh MC, Truog WE, Stoll BJ, Sokol GM, Kennedy KA, Fraga MV, Beauman SS, Carper B, Das A, Duncan AF, Buss WF, Gauldin C, Lacy CB, Sanchez PJ, Chawla S, Lakshminrusimha S, Cotten CM, Van Meurs KP, Poindexter BB, Bell EF, Carlo WA, Devaskar U, Wyckoff MH, et al. Barriers to enrollment in a randomized controlled trial of hydrocortisone for cardiovascular insufficiency in term and late preterm newborn infants. *J Perinatol* 2017 Nov;37(11):1220-1223. PMID: 28880260
- Younge N, Goldstein RF, Bann CM, et al, Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network (Brion LP, Rosenfeld CR, Heyne RJ). Survival and Neurodevelopmental Outcomes among Periviable Infants. *N Engl J Med* 2017;376:617-28. PMID: 28199816

2016

- Ali N, Sawyer T, Barry J, Grover T, Ades A. Resuscitation practices for infants in the NICU, PICU and CICU: Results of a national survey. *J Perinatology*. 2016. In press
- Bedgood M, Cortelyou C, Blanco C, Fonseca R & Moreira A. (2016, Dec) Scrotal Rupture in a Premature Neonate with Cystic Fibrosis as a Consequence of Meconium Periorchitis. *Medical Student Research Journal*. doi:10.15404/msrj/11.2016.0008.
- Cao M, He Y, Dai Z, Liao X, Jeon T, Ouyang M, Chalak L, Bi Y, Rollins N, Dong Q, Huang H. Early Development of Functional Network Segregation Revealed by Connectomic Analysis of the Preterm Human Brain. *Cereb Cortex*. Mar 03 2016.
- Chalak L*, Tian F, Tarumi T, Zhang R. Cerebral Hemodynamics in Asphyxiated Newborns Undergoing Hypothermia Therapy: Pilot Findings Using a Multiple-Time-Scale Analysis. *Pediatr Neurol*. Feb 2016;55:30-36. 4748172
- Duryea EL, Nelson DB, Wyckoff MH, Grant EN, Tao W, Sadana N, Chalak L, McIntire DD, Leveno KJ. The impact of ambient operating room temperature on neonatal and maternal hypothermia and associated morbidities: a randomized controlled trial. *Am J Obstet Gynecol*. Apr 2016;214(4):505 e501-507.
- Duryea E, Nelson DB, Wyckoff M, Chalak L, McIntire DD, Leveno KJ The impact of operating room temperature on neonatal hypothermia and morbidity. *American Journal of Obstetrics and Gynecology* 214(1):S31. 2016
- Fontanez-Nieves TD, Frost MS, Anday E, Davis D, Cooperberg D, Carey AJ. Prevention of unplanned extubations in neonates through process standardization. *Journal of Perinatology*. January 2016
- Liu P, Chalak L, Krishnamurthy LC, Mir I, Peng SL, Huang H, Lu H. T1 and T2 values of human neonatal blood at 3 Tesla: Dependence on hematocrit, oxygenation, and temperature. *Magn Reson Med*. Apr 2016;75(4):1730-1735. 4651862.
- Rubinos LH, Brown M, Bahrami L, Christ L, Hurt H. "The story behind NICU reading programs." *J Perinatol*. 2016

Nov;36(11):930-931.

- Shankaran S, Sánchez PJ, Morris BH, Frantz ID 3rd, Van Meurs KP, Cotten CM, Ehrenkranz RA, Bell EF, Watterberg KL, Higgins RD, Duara S; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Growth Outcomes of Preterm Infants Exposed to Different Oxygen Saturation Target Ranges from Birth. *J Pediatr*. 2016 Sep;176:62-68.e4. doi: 10.1016/j.jpeds.2016.05.070. Epub 2016 Jun 22.
- Song J, Wilhelm CL, Wangdi T, Maira-Litran T, Lee SJ, Raetz M, Sturge CR, Mirpuri J, Pei J, Grishin NV, McSorley SJ, Gewirtz AT, Bäumlér AJ, Pier GB, Galán JE, Yarovinsky F. Absence of TLR11 in mice does not confer susceptibility to Salmonella Typhi. *Cell* 2016 Feb 25. PMID: 26919416
- Ouyang M, Liu P, Jeon T, Chalak L, Heyne R, Rollins NK, Licht DJ, Detre JA, Roberts TP, Lu H, Huang H. Heterogeneous increases of regional cerebral blood flow during preterm brain development: Preliminary assessment with pseudo-continuous arterial spin labeled perfusion MRI. *Neuroimage*. Dec 14 2016;147:233-242.
- Tian F, Tarumi T, Liu H, Zhang R, Chalak L*. Wavelet coherence analysis of dynamic cerebral autoregulation in neonatal hypoxic-ischemic encephalopathy. *NeuroImage*. Clinical. 2016;11:124-132. 4753811.

Reviews

2018

- Chalak LF. Best practice guidelines on management of mild neonatal encephalopathy: Is it really mild? *Early Hum Dev*. 2018 May;120:74. PMID: 29459085
- Chalak L, Latremouille S, Mir I, Sánchez PJ, Sant'Anna G. A review of the conundrum of mild hypoxic-ischemic encephalopathy: Current challenges and moving forward. *Early Hum Dev*. 2018 May;120:88-94. PMID: 29506900
- DuPont T, Chalak L. Future alternative therapies in the pipeline for mild neonatal encephalopathy: Review of evidence of neuroprotection with erythropoiesis stimulating agents. *Early Hum Dev*. 2018 May;120:95-98. PMID: 29471979
- Hooper SB, Te Pas AB, Polglase GR, Wyckoff M. Animal models in neonatal resuscitation research: What can they teach us? *Semin Fetal Neonatal Med*. 2018 Oct;23(5):300-305. PMID: 30001819
- Ibrahim J, Mir I, Chalak L. Brain imaging in preterm infants <32 weeks gestation: a clinical review and algorithm for the use of cranial ultrasound and qualitative brain MRI. *Pediatr Res*. 2018 Dec;84(6):799-806. PMID: 30315272

2017

- Perkins GD, Neumar R, Monsieurs KG, Lim SH, Castren M, Nolan JP, Nadkarni V, Montgomery B, Steen P, Cummins R, Chamberlain D, Aickin R, de Caen A, Wang TL, Stanton D, Escalante R, Callaway CW, Soar J, Olasveengen T, Maconochie I, Wyckoff M, et al. The International Liaison Committee on Resuscitation-Review of the last 25 years and vision for the future. *Resuscitation*. 2017 Dec;121:104-116. PMID: 28993179

2016

- Chalak L*. Inflammatory Biomarkers of Birth Asphyxia. *Clin Perinatol*. Sep 2016;43(3):501-510. NIHMS801035.
- Chalak L*. Perinatal Asphyxia in the Delivery Room: Initial Management and Current Cooling Guidelines. *Neoreviews* 2016. Vol. 17 No. 8.
- Heyne R. Gestational Age, Fetal Growth, Management of LGA/SGA; Discharge of the NICU Graduate. In: Engle W, ed. *Housestaff Nursery Manual*. UTSW, 2016
- Chawla S, Foglia EE, Kapadia V, Wyckoff MH. Perinatal management: What has been learned through the network? *Seminars in perinatology*. 2016;40(6):391-397
- Shankaran S, Chalak L, Pappas A, McDonald SA, Laptook AR. Hypothermia for neonatal hypoxic-ischemic encephalopathy: NICHD Neonatal Research Network contribution to the field. *Semin Perinatol*. Oct 2016;40(6):385-390. 5065734
-

Chapters

2018

- Foglia EE, Wyckoff MH (2018). Delivery Room Resuscitation of the Newborn infant. In: Kline MW, Blaney SM, Giardino AP, Oange JS, Penny DJ, Schutze GE, Shekerdemian LS (Eds.), *Rudolph's Pediatrics* (23rd ed., pp. 190-196). New York, NY: McGraw-Hill Education.

- Savani RC. Modulators of inflammation in Bronchopulmonary Dysplasia. In: *Seminars in Perinatology*, “BPD – Emerging Concepts” 2018 Nov;42(7):459-470. Elsevier, Inc. (PMID: 30446300)
- Weiner G, Hooper S, Davis PG, Wyckoff MH (2018). Respiratory and Cardiovascular Support in the Delivery Room. In: Bancalari E, Keszler M, Davis PG (Eds.), *The Newborn Lung*, (3rd ed., pp. 173-196). Philadelphia, PA: Elsevier.
- Wu S, and Savani RC (2018). Molecular Basis for Lung Development, Injury and Repair. In: Bancalari E, Keszler M, Davis PG (Eds.), *The Newborn Lung*, (3rd ed., pp. 3-29). Philadelphia, PA: Elsevier.
- Wyckoff MH (2018). The Newborn. In: Cunningham FG, Leveno KJ, Bloom SL, Dashe JS, Hoffman BL, Casey BM, Spong CY (Eds.), *Williams Obstetrics (25th ed., pp. 606-618)*. New York, NY: McGraw-Hill Education.
- Wyckoff MH (2018). The Preterm Newborn. In: Cunningham FG, Leveno KJ, Bloom SL, Dashe JS, Hoffman BL, Casey BM, Spong CY (Eds.), *Williams Obstetrics (25th ed., pp. 636-643)*. New York, NY: McGraw-Hill Education.

2016

- Rosenfeld CR, Regulation of the Placental Circulation, In: Fetal and Neonatal Physiology, 5th Edition. Polin RA, Fox WW and Abman SH, Editors. W.B. Saunders Co., Philadelphia, 2016. Chapter 12, pp.

Invited Talks

2018

- Chalak L. Grand Rounds, Birmingham, AL, January 2018. “New Frontiers in HIE Stratification and Management”
- Chalak L. Grand Rounds, Nationwide Children’s Hospital, Columbus, OH, September 2018. “New Frontiers in HIE Research”
- NEURONICU Advanced Conference-Advanced Applications of NIRS in Asphyxia, Stanford Medical Center, Stanford, CA, September 2018
 - “Mild HIE Updates”
 - “NIRS Wavelet Clinical and Research Applications”
 - “NIRS and EEG Case Series”
- Chalak L. Swan Conference, Temple, TX, September 2018. “SWAN Risk Factors, Clinical Aspects and Biomarkers of Neonatal Encephalopathy”
- Chalak L. Research Grand Rounds, University of San Francisco, San Francisco, CA, October 2018. “Mild HIE: Should We Cool?”
- Heyne R. University of Dallas, Dallas, TX, March & October 2018. “Ethical Ramifications of Human Embryology and Fetal Development”
- Mirpuri J. Pediatric Grand Rounds, Department of Pediatrics, Children’s Health, Dallas, TX, November 2018. “The Neonatal Gut Microbiome: Development and Consequences”
- Rubinos L. Aghia Sofia Children’s Hospital, Athens, Greece, May 2018. “Nutritional Strategies in Late Preterm Infants”
- Rubinos L. Universidad Autonoma de Nuevo Leon, Monterrey, Mexico, May 2018. “Strategies to Improve Neurodevelopmental Outcomes of Premature Infants”
- Rubinos L. Hospital Infantil Privado, Mexico City, Mexico, June 2018. “Strategies to Improve Neurodevelopmental Outcomes of Premature Infants”
- Rubinos L. Baylor University, Waco, TX, October 2018. “Premie Talk: The Effects of Maternal-Infant Separation and Neurodevelopment in Preterm Infants”
- Rubinos L. XV Congreso Internacional Temas Selectos de Neonatología, Tuxtla Gutierrez, Chiapas, Mexico, October 2018.
 - “The Effects of Sedation on Neurodevelopmental Outcomes in Premature Infants”
 - “Management of Congenital Diaphragmatic Hernia: An Update on Management”
 - “Strategies to Improve Neurodevelopmental Outcomes of Premature Infants”
- Rubinos L. XIII Congreso Internacional de Neonatología, Puebla, Puebla, Mexico, October 2018. “Language Development in Premature Infants”
 - “The Golden Hour”
 - “The Effects of Sedation on Neurodevelopmental Outcomes in Premature Infants”
- Savani R. 1st Federation of European Biochemistry Societies (FEBS), Patras, Greece, September-October 2018 Advanced Lecture Course on Extracellular Matrix: “Cell Regulation, Epigenetics and Modeling” Extracellular Superoxide Dismutase (EC-SOD) knockout mice have worse alveolarization, inflammation and cytokine elaboration after neonatal hyperoxia exposure
- Schneider J. Association of Medical Directors of Information Systems, Ojai, CA, June 2018 “Newborn Screening: Moving from

the Stone Age to an Informatics Paradigm” “Financial Reporting: Why CMIOs Need to Understand this Stuff?”

- Sisman J. Scott & White Annual Neonatal Conference, Temple, TX, September 2018. “Basal Ganglia and Thalamic Injuries in Preterm Infants”
- Sisman J. Conference on Medical Imaging and Case Reports, Baltimore, MD, October 2018. “Lenticulostriate Vasculopathy in Preterm Infants: A New Classification, Clinical Associations and Neurodevelopmental Outcome”
- Wan-Huen P. No Pain Labor and Delivery Global Health Initiative, Fushan and Suzhou, China, January-February 2018 “NRP education with No Pain Labor and Delivery Medical Mission Group “
- Wyckoff M. 2018 NeoPREP Conference, Atlanta, GA, January 2018
 - “Asphyxia and Resuscitation”
 - “Exploring Ethical Dilemmas – Genetic Testing and Care of Infants with Congenital Anomalies”
 - “Current Controversies in the Delivery Room”
- Wyckoff M. Cochrane Neonatal Webinar, March 2018. “Grading the Quality and Strength of the Evidence. How ILCOR Utilizes GRADE to Formulate International Resuscitation Guidelines”
- Wyckoff M. New Zealand Resuscitation Council NZ Resus-2018 Conference, Wellington, New Zealand, April 2018
 - “What’s the Science and Should We Even Do It?”
 - “State of the Art Science in Support of Medications During Neonatal Resuscitation”
- Wyckoff M. Grand Rounds, Ohio State University Nationwide Children’s Hospital, Columbus, OH, October 2018. “Resuscitation of the Newly Born Preterm Infant: The Golden Minutes”

2017

- Chalak L. Chair, Speaker, Scientific Symposium - PAS - San Francisco, CA, May 2017. “The Conundrum of Mild Neonatal Encephalopathy: Reviewing the Evidence”
- Chalak L. Invited Speaker - Neuro NICU Advanced Conference - Stanford University, Palo Alto, CA, May 2017. “Advanced Application of NIRS in Asphyxia”
- Chalak L. Invited Speaker – Saban Research Institute and Children’s Hospital Los Angeles, Los Angeles, CA, June 2017.
 - “Autoregulation Advanced Wavelet Methodologies and Clinical Applications”
 - “Management of Mild NE.”
- Chalak L. International Perinatal Collegium Meeting, Edinburgh, Scotland, July 2017. “Prospective Study of Infants with Mild Encephalopathy: The PRIME Study”
- Chalak L. 10th International Conference on Brain Monitoring and Neuroprotection in the Newborn, Killarney, Ireland, October 2017. “Long-term Outcomes of the Prime Collaborative Cohort: Is it Really Mild?”
- Chalak L. 1ST Gulf International Quality Conference and Neuro NICU Workshop, Muscat, Oman, November-December, 2017.
 - “NIRS Application, Amplitude-integrated EEG Interpretation: What Do the Wiggles Mean?”
 - “Neuroprotection and HIE”
- Ennis B. Baylor Medical Center Emergency Department Staff, Dallas, TX, May 2017. “NRP Update”
- Ennis B. Mother Francis Hospital NICU Staff, Tyler, TX, June 2017 “Very Low Birth Weight Education and Simulation (Preterm infant with pulmonary hemorrhage)”
- Heyne R. University of Dallas, Dallas, TX, April 2017. “Ethical Ramifications of Human Embryology and Fetal Development”
- Kapadia V. 2nd Congress of Joint European Neonatal Societies, Venice, Italy, September 2017. “BradyPrem Study: Is Heart Rate the Most Vital of All Vital Signs During Preterm Resuscitation?”
- Rosenfeld C. International Perinatal Collegium Meeting, Edinburgh, Scotland, July 2017. “Biomarkers of Adiposity Are Elevated in Preterm Very-low-birth-weight Infants at 1, 2 and 3 Years of Age”
- Rubinos L. International Neonatology Meeting, Puebla, Mexico, September 2017.
 - “Management of the Difficult Airway”
 - “Strategies to Improve Neurodevelopmental Outcomes of Premature Neonates”
- Savani R. 6th Federation of European Biochemical Societies Advanced Lecture Course, Spetses, Greece, May 2017. “Regulation of Inflammation by the Hyaluronan Receptor RHAMM: Studies in Knockout and Transgenic Mice”
- Savani R. German Society for Neonatology & Critical Care Medicine, Dresden, Germany, June 2017. “Inflammasome/Caspase-1 Pathways as Therapeutic Targets for Preventing BPD”
- Savani R. 11th International Conference on Hyaluronan, Cleveland, OH, June 2017.
 - Session Chair, “HA in Immunity and Inflammation”
 - “Hyaluronan and Immune responses: A Complex Balancing Act of Structure, Function, Location and Context.”

International Perinatal Collegium Meeting, Edinburgh, Scotland, July 2017. "Regulation of Inflammation by the Hyaluronan Receptor RHAMM: Studies in Knockout and Transgenic Mice"

- Savani R. 7 Lakes Proteoglycans Conference, Varese, Italy, September 2017. "Receptor for Hyaluronan Mediated Motility (RHAMM) is Indispensable for VEGF-stimulated Src and eNOS Activation and Angiogenesis"
- Savani R. Visiting Professor, The University of Siena, Siena, Italy, September 2017. "BPD in the 21st Century"
- Savani R. The No Name Conference on Perinatal Vascular Biology, Tampa, FL, October 2017. "The Receptor for Hyaluronan Mediated Motility (RHAMM) is Indispensable for VEGF-stimulated Src and eNOS Activation and Angiogenesis"
- Schneider J. Association of Medical Directors of Information Systems, Ojai, CA, June 2017.
 - "Nothing About Me Without Me: A CHIO's Journey Through Medical Identity Mix-up"
 - "Financial Reporting: Why CMIOs Need to Understand this Stuff"
- Sisman J. International Conference on Clinical Pediatrics, London, UK, June 2017. "New Perspectives in Lenticulostriate Vasculopathy in Neonates"
- Stehel E. National Institute for Children's Health Quality, throughout Texas, August 2017. "Texas Hospital Leadership Meeting on Breastfeeding Outcomes"
- Wyckoff M. 2017 Neonatal Nutrition Conference, Albany Medical College, Tarrytown, NY.
 - "The Science Behind Neonatal Delivery Room CPR"
 - "Delivery Room Stabilization of the ELBW Infant: The Golden Minute"
- Wyckoff M. 11th International Spark of Life Conference, Adelaide, Australia, May 2017. "ILCOR Consensus on the Science of Resuscitation with Treatment Recommendations – What Are We Looking at Next?"
- Wyckoff M. 25th Annual International Middlesbrough Neonatal Conference, Middlesbrough, UK, June 2017.
 - "Resuscitation of ELBW Infants: State of the Art or State of Confusion?"
 - "Oxygen Use During Neonatal Delivery Room Stabilization"
 - "Neonatal CPR: What's the Science and Should We Even Do It?"
- Wyckoff M. 3rd Biennial United South African Neonatal Association Conference, Johannesburg, South Africa, September 2017
 - "Cutting Edge Delivery Room Practice in 2017"
 - "Advances in Thermoregulation"

2016

- Ali, N. "Updates on Neonatal Resuscitation Program," Neonatal Grand Rounds, Department of Neonatology, University of Colorado Acschutz Medical Campus, 2016
- Brion, L. "Respiratory Physiology, Mechanics and Ventilator Strategy in Newborns" Critical Care Lecture Series, Department of Pediatric Surgery, Dallas, TX, 2016
- Chalak, L. "Workshop Topic- Perinatal Asphyxia: The critical role of early evaluation," Ramathibodi Hospital, Bangkok, February 2016
- Chalak, L. "AEEG and hypothermia workshops," Chiang Mai, Thailand and UCLA, USA, February 2016
- Heyne, R. "Ethical Ramifications of Human Embryology and Fetal Development" University of Dallas April 15, 2016, and 10/31/2016
- Jaleel, M., "Nutritional Emergencies in the NICU." Texas Association of NNPs Annual Conference, Houston, TX, Jan 27, 2016
- Johnson, K., "It's Always Something: an Infectious Disease Paradigm" UTSW Department of Pediatrics Multidisciplinary Conference, Dallas, TX, 4/26/2016
- Kapadia, V., "Neonatal Resuscitation Program Changes in Guidelines" Innovations in Neonatal Care Conference, San Antonio, TX, 2016
- Kapadia, V., "New NRP Guidelines Explained" Sick Newborn Conference, South Carolina, 2016
- Mir, I., "Placental Pathology and Neurodevelopmental Outcome in neonates with Encephalopathy" Video Conference Lecture: International Neuro-placentology group, George Washington University, Washington, DC, 2016
- Rosenfeld, C., "Addressing New Challenges in Neonatal Care: Effects of Neonatal Care on Adult Disease" Presented at SWAN Conference, Scott & White Baylor Medical Center, Temple, TX, 2016
- Savani, R., Invited speaker, Matrix Biology Europe, Athens, Greece, 2016

Abstracts and Presentations

2018

Pediatric Academic Societies Meeting, Toronto, Canada, May 2018

- Abbey N, Mashruwala V, Ramon E, Ibrahim J, Weydig H, Mir I, Wyckoff M, Kapadia V. Poster, “Heart Rate Evaluation and Resuscitation Trial in Preterm Neonates (HEART) – A Randomized Trial”
- Chalak L, Nguyen KA, Heyne R, Sanchez P, et al. Poster, “Neurodevelopmental Outcomes at 18-22 Months of The PRIME Infants with Mild Hypoxic-ischemic encephalopathy: Is it Really “Mild”?” SIGG Neuronicu Symposium, “The Conundrum of Mild NE: Reviewing the Evidence”
- Chalak L, Nguyen KA, Heyne R; Laptook A, Shankaran S, et al. Poster, “Prospective Outcomes in Infancy Following Mild Hypoxic-ischemic Encephalopathy (PRIME): A Contemporary Cohort”
- Cortelyou C, Mir I, Brown L, Chalak L. Poster, “Placental Pathology, Cerebral Blood Flow and Brain Injury in Preterm Infants: Is there a Link?”
- Foglia E, Jensen E, Wyckoff M, Sawyer T, Topijan A, Ratcliffe S. Poster, “Gestational-Age Specific Survival Following Delivery Room Cardiopulmonary Resuscitation: Results from a National Registry”
- Frost M, Brion LP. Poster, “Validity of Pooled Faculty Evaluations in a Neonatal-Perinatal Fellowship Program”
- Frost M, Scarborough A, Austin A, Brion LP. Platform Presentation, “Comparing Combined Weighted Ordered Rank Lists to Traditional Evaluation Methods for Creation of Rank Lists for Neonatal Fellowship Applicants”
- Frost M, Scarborough A, Austin A, Brion LP. Platform Presentation, “A Quality Improvement Project to Improve Timeliness of Submission of Fellow Evaluations by Neonatology Faculty”
- Heyne T, Heyne R. Poster Symposium, “Diagnosing the Moche: Pre-Colombian Portraits of Pediatric Disease”
- Hoge M, Hoppe E, Clark H, Walker K, Fevrier J, Bollers L, Ramon E, Fink M, David Lee D, Frost M. Poster, “A Quality Improvement Project to Improve Assessment of Parental Stress in NICU”
- Ibrahim J, Frost M. Poster Symposium, “How Baby Side-shows in Fairs and Amusement Parks Helped Warm Our “Weaklings”
- Ibrahim J, Liao J, Cheong N, Longoria C, Grayck E, Savani R. Poster, “Extracellular Superoxide Dismutase (EC-SOD) Knockout Mice have Worse Alveolarization, Inflammation and Cytokine Elaboration After Neonatal Hyperoxia Exposure”
- Kakkilaya V, MD, Clark H, Thompson T, Graffeo A, Tharayil S, Walker K, Ambia A, Brown LS, Brion LP. Poster, “Determining Early Predictors of Longer Length of Treatment for Infants with Neonatal Abstinence Syndrome”
- Kakkilaya V, Jubran I, Bautista S, Mangona KL, He H, Brown LS, Savani R, Kapadia V. Poster, “Development of a Predictive Model for Failure of Continuous Positive Airway Pressure (CPAP) in Preterm (PT) Infants with Respiratory Distress Syndrome (RDS)”
- Kapadia V, Oei JL, Saugstad O, Rabi Y, Finer N, Wright I, Tarnow-Mardi W, Rich W, Rook D, Vermeulen M, Smyth J, Lui K, Brown L, Vento M. Platform, “BradyPrem Study: Heart Rate is Most Vital of Vital Signs During Resuscitation of Preterms”
- Mir I, Brown LS, Heyne R, Rosenfeld C, Kapadia V. Poster, “Impact of Placental Histopathology on Bronchopulmonary Dysplasia (BPD) and Neurodevelopmental Impairment (NDI) in Preterm (PT) Infants < 29 weeks Gestational Age (GA)”
- Mir I, Chalak L, Rosenfeld C. Poster, “Reference Levels and Placental Clearance of Neurobiomarkers UCH-L1 and GFAP in Umbilical Cord Blood of Healthy Term Neonates and Those with Neonatal Encephalopathy (NE)”
- Mirpuri J, Thomas S, Kumar D, Hooper L, Savani R. Poster, “Empiric Antibiotics Increase Susceptibility to K. pneumoniae Induced Sepsis Through an Expansion of Proteobacteria and Suppression of ILC type 3 Cells in Neonatal Mice”
- Pavageau L, Chalak L, Brown L. Poster, “Can the Neurological Exam Forms Designed to Screen for Neuroprotective Therapies in Term Infants Be Used in Preterm Infants Born 32 to 35 Weeks Gestation? A Validation Study”
- Savani R. Symposium Chair: “The Inflammation Superhighway: Tolls, Signals & Pathways”
- Savani R. Invited Science Presentation, “IL-1RA in the Therapy of BPD: An Update”
- Savani R. Symposium Presentation, “Inflammasome Blockade for the Prevention of BPD”
- Sisman J, Chalak L, Brown L, Pritchard M, Weakley D, Rosenfeld C. Poster, “Low Gestational Age (GA) and Respiratory Distress Syndrome (RDS) Are Associated with Progression of Lenticulostriate Vasculopathy (LSV) in Preterm Infants”
- Smithhart W, Wyckoff M, Kapadia V, Jaleel M, Kakkilaya V, Brown L, Brion L. Poster, “Association of Symptomatic Pneumothorax in Term and Late-Preterm Infants with Continuous Positive Airway Pressure (CPAP) in the Delivery Room”
- Strand M, Simon W, Wyllie J, Wyckoff M, Weiner G. Poster, “Consensus Outcome Rating for International Neonatal Resuscitation Guidelines”
- Weydig H, Frost M, Mambarambath J, Burchfield P, Brion L. Poster, “Interaction Between Prophylactic Indomethacin (Plndo) and Antenatal Steroids (ANS) Leading to Spontaneous Intestinal Perforation (SIP)”

- Weydig H, Jaleel M, Frost M, Burchfield P, Brion L. Poster, “A Quality Improvement (QI) Project to Reduce Severe Intraventricular Hemorrhage (IVH)”
- Williams J, Frost N, Frost M. Poster, “Providing a Brief “Reflection Period” After Prenatal Consultation: Effects on Parental Recall and Self-Reported Comprehension”
- Wyckoff M. Invited Science Presentation, “Targeted Goals and Monitoring During Neonatal Resuscitation”
- Yallapragada S, Murthy K, Lagatta J, Porta N, Savani R, et al. Poster, “Exploring Potential Indications for Tracheostomy and Chronic Mechanical Ventilation in Patients with Severe Bronchopulmonary Dysplasia”

Other conferences

- Babata K, Bright H, Allred E, Erdei C, Kuban K, et al. Eastern Society for Pediatric Research Pennsylvania and New England Perinatology Society, Massachusetts, March 2018. Oral Presentation, “Socio Emotional Outcomes of Extremely Low Gestational Age Newborns with Late-onset Bacteremia at 10 Years of Age “
- Brion LP, Rosenfeld CR, Heyne R, Brown LS, Lair C, Burchfield P. AAP National Conference & Exhibition, Section on Neonatal-Perinatal Medicine, Orlando, FL, November 2018. Poster Presentation, “Quality Improvement Project Designed to Decrease Weight-Length Disproportion at Discharge in Very Preterm Infants”
- Cortelyou C, Mir I, Chalak L. Southern Society for Pediatric Research (SSPR), Southern Regional Meeting, New Orleans, LA, February 2018. Platform Presentation, “Cerebral Blood Flow and Brain Injury of Preterm Infants <32 Weeks”
- DeSpain K, Song J, Rosenfeld, CR, Carlson D, Wolf S. American Burn Association, Chicago, IL, April 2018. Oral Presentation, “Vascular Smooth Muscle Dysfunction After Burn”
- Ennis B. Texas College of Emergency Physicians Connect Conference, Houston, TX, April 2018. Lab Moderator, “Neonatal Resuscitation Skills”
- Frost M. Association of Pediatric Program Directors Spring Meeting, Atlanta, GA, March 2018.
 - Invited Speaker, “Improving Timeliness of Submission of Fellow Evaluations by Neonatology Faculty.” Poster, “Validity of Pooled Faculty Evaluations in a Neonatal-Perinatal Fellowship Program”
 - Poster, “Comparing Combined Weighted Ordered Rank Lists to Traditional Evaluation Methods for Creations of Rank Lists for Neonatal Fellowship Applicants”
 - Workshop, “Getting the most out of ERAS for your best recruitment season ever!”
- Frost M, Austin A, Scarborough A, Brion LP. Association of Pediatric Program Directors (APPD), Orlando, FL, November 2018 Oral Presentation, “A Quality Improvement Project to Improve Timeliness of Submission of Fellow Evaluations by Neonatology Faculty”
- Frost M, Brion LP. Association of Pediatric Program Directors (APPD), Orlando, FL, November 2018. Poster Presentation, “Validity of pooled faculty evaluations in a neonatal-perinatal fellowship program”
- Frost M, Scarborough A, Austin A, Brion LP. Association of Pediatric Program Directors (APPD), Orlando, FL, November 2018 Poster Presentation, “Comparing Combined Weighted Ordered Rank Lists to Traditional Evaluation Methods for Creation of Rank Lists of Neonatal Fellowship Applicants”
- Itriago E, Rubinos L. Children’s Hospital Neonatal Consortium Annual Symposium (CHNC), Columbus, OH, October 2018. Poster Presentation, “Optimizing Pain and Sedation Practices for Neonates and Infants in the NICU”
- Pavageau L, Brion L, Brown LS, Rosenfeld CR, Jaleel MA. Southern Society for Pediatric Research (SSPR), Southern Regional Meeting, New Orleans, LA, February 2018. Oral Presentation, “Consensus Guidelines for Patent Ductus Arteriosus(PDA) Treatment Decreases Need for Treatment: A 15-year Experience”
- Rubinos L, Dariya V, Packard C, Heyne R. Children’s Hospital Neonatal Consortium Annual Symposium (CHNC), Columbus, OH, October 2018. Poster Presentation, “Increasing Follow Up Rates for Tertiary and Quaternary Level NICU Patients: A Quality Improvement Initiative”
- Rubinos L, Lanehart K, Gaines J, Barnett A, Tidwell J. Children’s Hospital Neonatal Consortium Annual Symposium (CHNC), Columbus, OH, October 2018. Poster Presentation, “Implementing a NICU Discharge Bundle to Enhance Family Engagement and Decrease Discharge Delays in a Level IV NICU”
- Savani, R. 2018 Telemedicine Summit for Hospitals, Las Vegas, NV, September 2018. “New Approaches to Telemedicine within Neonatal Care”
- Savani, R. 2018 Children’s Hospitals Neonatal Consortium Meeting, Columbus, OH, October 2018. “TeleNICU: Extending the Reach of Level IV Care and Optimizing the Triage of Patient Transfers”
- Savani, R. 2018 American Society for Matrix Biology, Las Vegas, NV, October 2018. “Extracellular Superoxide Dismutase (EC-SOD) Knockout Mice Have Worse Alveolarization, Inflammation and Cytokine Elaboration After Neonatal Hyperoxia Exposure”

2017

Pediatric Academic Societies Meeting, San Francisco, CA, May 2017

- Adams-Chapman I, Heyne R, Peralta-Carcelen M, Purdy I, McDonald S, Duncan A. Poster, “Changing Prevalence and Severity of Cerebral Palsy Among Extremely Preterm Neonates in NICHD NRN Over Ten Years”
- Blanco V, Rosenfeld CR, Brown LS. Poster, “Blood Pressure Measurements in Preterm Infants in the NICU: Reliability and Effects of Feeding and State”
- Blanco V, Kakkilaya V, Renfro S, Martinez A, Metoyer G, Brown C, Wharton M. Poster, “Decreasing Nasal Breakdown in Infants Receiving Nasal Continuous Positive Airway Pressure (nCPAP)”
- Chalak L, Inder T. Platform Presentation Co-chairs, “The Conundrum of Mild Neonatal Encephalopathy (NE): Should They Be Cooled?”
- Chalak L, Tian F, Zhang R. Poster, “Wavelet Real Time Analysis of Neurovascular Coupling in Neonatal Encephalopathy: A New Approach”
- Deramo J, Jaleel MA, Frost M. Poster, “Kangaroo Care in the Parkland NNICU: Improving Patient Participation”
- Heyne R, Heyne T. Poster, “Rediscovering the Discoverer of Trisomy-21: Jerome Lejeune, Father of Modern Genetics”
- Heyne R, Heyne T, Lin AE. Poster, “The Earliest Known Examples of PIK3CA-ROS? Two Adolescents with Limb Anomalies in 17th and 18th Century Woodcuts”
- Hokanson J, Frost M. Poster, “The Impact of Moving from an Open Bed NICU to a Single Bed Layout on Parent-Provider Communication”
- Ibrahim J, Mir I. Poster, “Maggots: History from Just Being Insects to FDA Approved Medical Devices”
- Kakkilaya V, Marshall M, Jubran I, Mashruwala V, Kapadia V, Ramon E, Simcik V. Poster, “Quality Improvement (QI) Resuscitation Bundle to Decrease Delivery Room (DR) Intubation in Premature Newborns”
- Kumar D, Thomas S, Raetz M, Hooper LV, Savani R, Mirpuri J. Poster, “Empiric Antibiotic Exposure in Neonatal Mice Results in Translocation of Proteobacteria across the Intestinal Barrier, Increased Expression of Antimicrobial Proteins, and an Increase in Paneth Cells in the Lamina Propria”
- Lagatta JM, Hysinger EB, Zaniletti I, Wymore E, Vyas-Read S, Nelin LD, Truog WE, Padula M, Porta N, Murthy K, Yallapragada S, Savani R, Grover TR. Poster, “The Impact of Pulmonary Hypertension in Preterm Infants with Severe BPD: A Multi-center Comparison of NICU and Readmission Outcomes”
- Naeun Cheong, Jie Liao, Christopher Longoria, Qian Wu, Ivan Yuhanna, Philip Shaul, Rashmin C. Savani. Poster, “Low Molecular Weight Hyaluronan (LMW HA) Uses the HA receptor RHAMM to Phosphorylate and Activate Akt and eNOS to Stimulate Endothelial Cell Migration”
- Ortigoza E, Cagle J, Chien JH, Neu J, Oh S, Brown LS. Poster, “Electrogastrography, Near-infrared Spectroscopy, and Acoustics to Measure Gastrointestinal Development in Preterm Babies”
- Pavageau L, Jaleel M, Brion L, Rosenfeld C, Brown L. Poster, “Consensus Guidelines for Patent Ductus Arteriosus (PDA) Treatment Decreases Need for Treatment: A 15-year Experience”
- Scheid L, Brown LS, Clark C, Rosenfeld CR. Oral, “Are Data Extracted from Electronic Medical Records Valid for Research Purposes?”
- Shafer G, Scheid L, Rosenfeld CR, Brown LS. Oral, “Serial Neutrophil Values Do Not Aid in the Evaluation for Late-onset (LOS) Sepsis in the Intensive Care Unit (NICU)”
- Sisman J, Heyne R, Brown LS, Pritchard M, Weakley D, Chalak L, Rosenfeld CR. Poster, “Developmental Outcome of Preterm Infants with Lenticulostriate Vasculopathy on Cranial Ultrasound”
- Thomas S, Raetz M, Savani RS, Mirpuri J. Oral, “Maternal High Fat Diet Results in Microbiota-Dependent Expansion of Type 3 Innate Lymphoid Cells (ILC3s) and Susceptibility to Inflammation in Neonatal Mice”
- Vohr B, Heyne R, Bann C, Das A, Higgins R, Hintz S. Oral, “Extreme Preterm Risk of Overweight and Obesity at Early School Age”
- Vohr B, Heyne R, Bann C, Das A, Higgins R, Hintz S. Poster, “Extreme Preterm Risk of Prehypertension and Hypertension at Early School Age”

Other Conferences

- Ali N. Poster, Children’s Hospital Neonatal Consortium, Columbus, OH, October 2017 “Resuscitation of Neonates Beyond the Delivery Room”
- Cheong N, Liao J, Longoria C, Wu Q, Yuhanna I, Shaul P, Savani RC. Poster, 11th International Conference on Hyaluronan,

Cleveland, OH, June 2017 “LMW Hyaluronan Uses RHAMM to Phosphorylate and Activate AKT and eNOS to Stimulate Endothelial Cell Migration”

- Foldes AE. Poster, Southern Regional Meeting, Society for General Internal Medicine, New Orleans, LA, February 2017 “Four Month-old Infant with Terminal Ileum Duplication Cyst”
- Liao J, Lal CV, Cheong N, Longoria C, Pure E, Savani RC. Poster, 11th International Conference on Hyaluronan, Cleveland, OH, June 2017 “Endothelial CD44 Mediates Neonatal Hyperoxia-induced Lung Injury”
- Mir I, Chalak L, Rosenfeld CR. Poster, Society for Reproductive Investigation 64th Annual Meeting, Orlando, FL, March 2017 “Placental Clearance Modulates Circulating Levels of Fetal Pro-inflammatory but Not Anti-inflammatory Cytokines During Term Parturition and May Contribute to Histological Chorioamnionitis”
- Monaco-Brown M, Pike K, Frost M, Dickenson B, Calaman S. Workshop, Association of Pediatric Program Directors Annual Spring Meeting, Anaheim, CA, April 2017 “Helping the Eaglet to Soar: How to Prepare Your Trainees for Life After Residency”
- Pavageau L, Rosenfeld C, Heyne R, Brown LS, DeLeon M, Chacko S, Caraig M, Brion LP. Oral, AAP Western Conference on Perinatal Research, Indian Wells, CA, January 2017 “Validation of Serial Length Measurements in Preterm Infants in the Neonatal Intensive Care Unit (NICU)”
- Savani RC, Cui Z, Liao J, Cheong N, Longoria C, DeLisser HM. Poster, 11th International Conference on Hyaluronan, Cleveland, OH, June 2017 “Regulation of Inflammation by RHAMM: Studies in Knockout and Transgenic Mice”
- Turley EA, Luyt LG, Savani RC, McCarthy JB, Cowman MK. Poster, 11th International Conference on Hyaluronan, Cleveland, OH, June 2017 “Hyaluronan Receptor and Hyaluronan Fragment Peptide Mimetics as Therapeutic Approaches for Reducing Tissue Inflammation and Fibrosis”

2016

- Blanco, V., Ramon, E., Ramos, E., Ochieng, J., Jaleel, M., Creation of a Team to Reduce Blood Culture Contaminants in the NICU, Poster Presentation at PAS, Baltimore, MD, April 2016
- Blanco, VM, Brown, LS, Rosenfeld, CR. Blood Pressure Measurements in Preterm Infants in the NICU: Reliability and Effects of Feeding and State. AAP Western Conf. Perinatal Research, Jan 11-13, 2017 (Oral presentation) and Annual Meeting Pediatric Academic Societies, San Francisco, CA; May 6-6, 2017.
- Chalak, L., Non Invasive Cerebral Hemodynamics in Neonatal Brain Injury: Are We There Yet? Platform presentation at PAS, Baltimore, MD, 5/1/2016
- Chalak, L., Cerebral Hemodynamics in Asphyxiated Newborns Undergoing Hypothermia, Platform presentation at PAS, Baltimore, MD, 5/1/2016
- DeVries LD, Jaleel M, Kapadia V, Heyne R, Brion LP. Relationship between Pulmonary Hypertension and Outcomes among Infants with Bronchopulmonary Dysplasia Who Undergo Surgery, Poster Presentation at the 2016 Southern Regional Meeting, New Orleans, LA, 2/18/2016
- DeVries LD, Jaleel M, Kapadia V, Brown LS, Heyne R, Brion LP. Relationship between Pulmonary Hypertension and Outcomes among Infants with Bronchopulmonary Dysplasia Who Undergo Surgery. Poster presentation at Baltimore, MD, PAS, 5/3/2016
- Frost, M., “Your Clinical Competency Committees are busy, but what does everyone else think?” Workshop at APPD Spring Meeting, New Orleans, LA, 2016
- Frost, M., “Are you Lean? Equip yourself: Enhancing Quality and Improving Processes with LEAN methodologies!” Workshop at PAS, Baltimore, MD, 2016
- Frost, M., “Making your Quality Improvement Effort Count Twice! Designing and Executing your Improvement Project as Scholarly Activity”, Workshop at PAS, Baltimore, MD, 2016
- Mirpuri J, Thomas S, Raetz M, Hooper LV, Savani RS, Yarovinsky F, “IFN-gamma production by CD4 CD8 double positive cells is essential for expansion of Proteobacteria in the neonatal murine intestine” Presented at Immunology Conference, Seattle, WA, 2016
- O'Neill Buck C, Wyckoff MH, Brown S, Kapadia V. Predicting the Need for Significant Neonatal Resuscitation Following the Delivery of Late Preterm Neonates. Paper presented at Pediatric Academy Society 2016, Baltimore, MD.
- Shuler, J., Jaleel, M., Frost, M., Kangaroo Care in the Parkland NNICU, Pediatric Resident Poster Day, Dallas, TX, 5/31/2016
- Sisman J, Pritchard M, Weakley D, Chalak L, Rosenfeld CR. Inter-rater reliability of neonatal cranial ultrasound readings for the presence of lenticulostriate vasculopathy before and after introducing a new classification system. Annual Meeting of Pediatric Academic Societies, Baltimore, MD, April 30-May 3, 2016
- Srinivasakumar, P., Blanco, V., Weydig, H., Jaleel, M., Reducing Coagulase Negative Staphylococcus Aureus (CoNS) contamination of blood cultures in the Neonatal Intensive Care Unit (NICU) – A Quality Improvement Initiative, Platform and

Poster presentation, University of Texas Shared Vision Conference, San Antonio, TX, 4/21/2016

- Weydig, H., Simcik, V., McGuire, G., Ramon, E., Marshall, M., Nguyen, J., Renfro, S., Stewart, A., Jaleel, M., Kakkilaya, V., Improving the Golden Hour Care of Extremely Low Gestational Age Neonates by Streamlining the Processes Involved From the Delivery Room to Isolette Closure, Presented at VON 2016 Annual Quality Congress, Chicago, IL, September 2016