

FELLOWSHIP IN NEONATAL-PERINATAL MEDICINE
UT Southwestern Medical Center at Dallas
SCHOLARSHIP 2000-2009

This document contains all publications and abstracts during fellowship or from work
accomplished during fellowship, as well as grants from past fellows

The names of the fellows are underlined

Revised November 3, 2009

JOURNAL ARTICLES

Original Peer-Reviewed Manuscripts

2000

Salhab WA, Shaul PW, Cox BE, Rosenfeld CR. Regulation of types I and III nitric oxide synthases in ovine uterine arteries by daily and acute estrogen exposure. *Am J Physiol Heart Circ Physiol* 278:H2134-H2142, 2000

2001

Laptook A, Shalak L, Corbett RT. Differences in brain temperature and cerebral flow during selective head versus whole body cooling. *Pediatrics*. 108:1103- 1110, 2001

Wyckoff MH, Chambliss KL, Mineo C, Yuhanna IS, Mendelsohn ME, Mumby SM, Shaul PW. Plasma membrane estrogen receptors are coupled to eNOS through Gai. *J Biol Chem* 276:27071-76, 2001

2002

Ihionkhan CE, Chambliss KL, Gibson LL, Hahner LD, Mendelsohn ME, Shaul PW. Estrogen causes dynamic alterations in endothelial estrogen receptor expression. *Circ. Res.* 91:814-820, 2002

Shalak L, Laptook A, Jafri H, Ramillo O and Perlman J. Clinical chorioamnionitis, elevated cytokines and brain injury in term infants. *Pediatrics* 110: 673-680, 2002

Velaphi SC, Roy T, DeSpain K, Rosenfeld CR. Differential responses to systemic and local angiotensin II infusions in postnatal sheep. *Pediatr Res* 52:33-341, 2002.

2003

Mikati M, Werner S, Shalak L. Stages of status epilepticus in the developing brain. *Epilepsy Research.* 55:9-19, 2003

Engle WD, Jackson GL, Sendelbach DM, Stehel EK, Ford DM, McHugh KM, Norris MR, Vedro DA, Velaphi S, Michelow IC, Olsen KD. Pneumonia in term neonates: laboratory studies and duration of antibiotic therapy. *J. Perinatol.* 23:372-377, 2003

Shalak L, Laptook A, Perlman J. Amplitude Integrated EEG (aEEG) is a valuable addition to the early neurological assessment of newborns candidates for early therapeutic interventions. *Pediatrics*. 111: 351-357, 2003

2004

Karimi P, Ramus R, Urban J, Perlman JM. Extensive brain injury in a premature infant following a relatively minor maternal motor vehicle accident with airbag deployment. *J. Perinatology* 24:454-457, 2004

Kaiser JR, Tilford JM, Simpson PM, Salhab WA, and Rosenfeld CR. Hospital survival of very-low birth-weight neonates from 1977 to 2000. *J Perinatol* 24:343-350, 2004.

2005

Nagar D, Liu X-t, Rosenfeld CR. Estrogen regulates the β 1-subunit of the BKCa channel in uterine vascular smooth muscle. *Am J Physiol: Heart Circ Physiol* 289: H1417-H1427, 2005

Shalak LF. Perlman JM, Jackson GL. Luptook AR. Depression at birth in term infants exposed to maternal chorioamnionitis: does neonatal fever play a role? *J Perinatology* 25:447-452, 2005

Shalak L, Perlman J. Chorioamnionitis and neonatal encephalopathy in term infants with fetal acidemia: Histopathological correlations. *Pediatric Neurology* 33:162-165, 2005

Velaphi SC, Roy T, DeSpain K, Rosenfeld CR. Hemodynamic responses to systemic and hind limb infusions of α -agonist and arginine vasopressin in conscious postnatal sheep. *Pediatr Res* 58:58-65, 2005.

Woldesenbet M, Perlman JM. Histologic chorioamnionitis: An Occult Marker of Severe Pulmonary Hypertension in the Newborn. *J Perinatol* 25:189-192, 2005

2006

Barber CA, Wyckoff MH. Endotracheal versus intravenous epinephrine during neonatal cardiopulmonary resuscitation in the delivery room. *Pediatrics* 118:1028-34, 2006

Jeyarajah D.R., Kielar M, Saboorian H., Karimi P., Frantz N., Lu C. Impact of bile duct obstruction on hepatic E. Coli infection: Role of IL10. *Am J Physiol Gastrointest Liver Physiol* 291: G91-G94, 2006

Koch, J, Hensley, G, Roy, L, Brown, S. Ramaciotti, C, Rosenfeld, CR. Prevalence of spontaneous closure of the ductus arteriosus in neonates \leq 1000 gm birth weight. *Pediatrics* 117: 1113-1121, 2006.

Simon D, Vyas S, Prachand N, David R and Collins JW. Relation of maternal low birth weight to infant growth retardation and prematurity. *Mat and Child Health Journal* 10: 1-7, 2006

Velaphi SC, DeSpain K, Roy T, and Rosenfeld CR. The renin-angiotensin system in conscious newborn sheep: metabolic clearance rate and activity. *Pediatr Res*, 61: 681-686, 2007.

Vyas-Read S, Shaul PW, Willis BC: Nitric oxide attenuates epithelial-mesenchymal transition in alveolar epithelial cells. *Am. J. Respir. Cell Molec. Biol.* 293:L212-L221, 2007

2008

Chalak L, Wyckoff M, Luptook A, Perlman J. Selective inflammatory cytokine response after asphyxia and volume resuscitation in a neonatal piglet model. *Journal of Neonatal Perinatal*

Medicine, 1:69-75, 2008

Chiruvolu A, Engle WD, Sendelbach DM, Manning MD, Jackson GL. Serum calcium values in term and late-preterm neonates receiving gentamicin, *Pediatric Nephrology* 23; 569-74, 2008

Duncan AF, Rosenfeld CR, Morgan JS, Ahmad N, Heyne RJ. Inter-rater reliability and effect of state on blood pressure measurements in infants 1-3 years of age. *Pediatrics* 122(3):e590-4, 2008

Miao DC, Velaphi SC, Roy T, DeSpain K, Rosenfeld CR. Metabolism and synthesis of arginine vasopressin in conscious newborn sheep. *Am J Physiol Endocrinol Metab*, 295(3):E672-7, 2008

Woldesenbet M, Rosenfeld CR, Ramilo O, Johnson-Welch S, and Perlman JM. Severe neonatal hypoxic respiratory failure correlates with histologic chorioamnionitis and elevated concentrations of IL-6, IL-8 and CRP. *Arch Dis Child Fetal Neonatal Ed*. Jan 11, 2008

2009

Kapadia V, Embers D, Wells E, Lemler M, Rosenfeld CR. Prenatal Closure of the Ductus Arteriosus and Maternal Ingestion of Anthocyanins. *J Perinatol*, in press

Reviews

Shalak L, Perlman J. Inflammatory markers and neonatal encephalopathy in newborns. Mental retardation and developmental disabilities *MRDD* 8:14-19, 2002

Shalak L, Perlman JM. Hemorrhagic ischemic cerebral injury in the preterm infant: current concepts. *Clinics in Perinatology*. 29: 1-19, 2002

Shalak L, Perlman J. Hypoxic Ischemic brain injury in the term infant-current concepts. *Early Human Development* 80 (2):125-141, 2004

Ennis B, Anderson JM. Visual diagnosis: No visible fetal stomach bubble and elevated amniotic fluid index. *Neoreviews*;6:e244, 2005

Karimi P, Anderson, J. Visual diagnosis: A newborn who has denuded areas of skin. *NeoReviews*, 6: e 104, 2005

Barber C, Karimi P, Anderson JM. Educational perspectives: Changes in the neonatal resuscitation program. *NeoReviews*, 7; e449-e453, 2006

Jeyarajah D.R., Kielar M, Saboorian H., Karimi P., Frantz N., Lu C. Impact of bile duct obstruction on hepatic E.Coli infection: Role of IL10. *Am J Physiol Gastrointest Liver Physiol.*, 291: G91-G94, 2006

Chiruvolu A, Anderson JM. A term newborn with congenital dwarfism. *Neoreviews*, Visual diagnosis; 7:e280, 2006

Chiruvolu A, Jaleel MA. Pathophysiology of patent ductus arteriosus in premature neonates. *Early Hum Dev*. 2009 Mar;85(3):143-6

Chiruvolu A, Jaleel MA. Therapeutic management of patent ductus arteriosus. *Early Hum Dev*. 2009 Mar;85(3):151-5

Chiruvolu A, Punjwani P, Ramaciotti C. Clinical and echocardiographic diagnosis of patent ductus arteriosus in premature neonates. *Early Hum Dev.* 2009 Mar;85(3):147-9

ABSTRACTS

2000

Shalak L, Laptook A, Perlman J. The Amplitude Integrated EEG is a valuable addition to the Early Neonatal Neurological Assessment for Neuroprotective Therapies. *Annals of Neurology.* 2000;48:3. Oral presentation at Annual Meeting of Child Neurology Society, St Louis, October 2000

Shalak L, Salhab W, Perlman J. Quality of perinatal care prior to delivery of extremely low birth weight Infants (ELBW) infants modifies the risk for severe intraventricular hemorrhage and neonatal mortality. *J Perinatology* 20: 479, 2000. Poster presentation at AAP Meeting, San Francisco, CA, October 2000

Shalak L. Amplitude integrated EEG. Presentation at Mead Johnson Nutritionals South Central Conference on Perinatal Research, Austin, TX 2000.

Wyckoff MH, Chambliss KL, Mineo C, Yuhanna IS, Mendelsohn ME, Mumby SM, Shaul PW. Acute activation of eNOS by estrogen is G protein-mediated. Presentation at Mead Johnson Nutritionals South Central Conference on Perinatal Research, Austin, TX 2000.

Yunis K, Hassan N, Shalak L. Asymptomatic hypoglycemia (Hyp) in exclusively breastfed (BF) newborns (NB). *Pediatric Research.* 2000.47; 4: 441A. Poster presentation at Pediatric Academic Societies Meeting, Boston, MA, 2000

2001

Shalak L, Laptook A, Jafri H, Ramillo O and Perlman J. Clinical Chorioamnionitis, Elevated Cytokines and Brain Injury in Term Infants. *Annals of Neurology.* 50; 3: S99, 2001. Oral presentation at Annual Meeting of Child Neurology Society, Victoria, BC, October 2001

Shalak L, Laptook A, Jafri H, Ramillo O and Perlman J. Clinical Chorioamnionitis, Elevated Cytokines and Brain Injury in Term Infants. *Pediatric Research.* 2001.49; 4: 433A. Platform presentation at Pediatric Academic Societies Meeting, Baltimore MD, April 2001

Shalak L, Perlman J, Jackson G, Velaphi S, Laptook A. Depressed term infants born to mothers with clinical chorioamnionitis: Is fever the missing link? *Pediatric Research,* 2001.49; 4:433A. Poster presentation at Pediatric Academic Societies Meeting, Baltimore MD, April 2001

Shalak L, Laptook A, Perlman J. The amplitude integrated EEG (aEEG) coupled with an early neurologic exam is an important adjunct method for enrollment of high risk term infants in neuroprotective strategies. *Pediatric Research.* 2001; 49: 304A. Platform presentation at Pediatric Academic Societies Meeting, Baltimore MD, 2001

Shalak L, Laptook A, Jafri H, Ramillo O and Perlman J. Elevated cytokines and brain injury in term infants with chorioamnionitis. *J Perinatology* 2001; 21: 476-484. Platform presentation at Annual meeting of the American Academy of Pediatrics, Chicago, IL, October 2001

Velaphi S, Gard J, Shalak L, Sanchez P. Development of a nomogram for once daily dosing for Gentamycin in term and near term newborns. *Pediatric Research.* 2001; 49: 235A. Poster presentation at Pediatric Academic Societies Meeting, Baltimore MD, 2001

Wyckoff MH, Chambliss KL, Mineo C, Yuhanna IS, Mendelsohn ME, Mumby SM, Shaul PW. Plasma membrane estrogen receptors are coupled to eNOS through Gai. Presentation at

Pediatric Academic Societies Meeting, Baltimore MD, 2001

2002

Brown S, Liu X, Ramaekers F, and Rosenfeld CR. Differential maturation in ductus arteriosus (DA) and umbilical artery (UmA) smooth muscle during ovine development. Presentation at Pediatric Academic Societies Meeting, May 4-7, 2002, Baltimore, MD.

Karimi P, Mancao M. Clinical experience with acute appendicitis at the University of South Alabama Childrens' and Womens' Hospital. University of South Alabama, Mobile, AL. Presentation at Southern Regional Meeting, February 2002, New Orleans, LA

Simon D, Vyas S, Pierce M, Prachand N, David R, Collins, J. Testing a fetal origins model for the racial disparity in adult reproductive outcome: A population – based study. Poster Presentation at Society for Maternal – Fetal Medicine, February 2002

Velaphi S, Gard J, Jackson G, Stehel E, Frawley W, Shalak L, Martin K, Sanchez P. Development and validation of a nomogram for once-daily dosing of gentamicin in term and near-term newborns. *Pediatr Res* 51:303A, 2002. Poster presentation at Pediatric Academic Societies Meeting, May 4-7, 2002, Baltimore, MD.

2003

Barber CA, Green JW, Just EG, Becton DL. Plasma exchange in children with purpura fulminans. Presented at Southern Society for Pediatric Research. New Orleans, LA. February 2003

Nagar D, Liu X, and Rosenfeld CR. Daily and acute estradiol-17 β (E2 β) do not modify expression of calcium-dependent potassium channels (BKCa) in uterine vascular smooth muscle (VSM). Society for Gynecologic Investigation, Washington, DC (Poster Presentation). March 27-30, 2003

Rosenfeld CR, Velaphi S, DeSpain K, and Roy T. Metabolic clearance rate (MCR_{ANG II}) in conscious newborn sheep. Society for Gynecologic Investigation, March 27-30, 2003, Washington, DC. (Poster Presentation)

Rosenfeld CR, Velaphi S, DeSpain K, and Roy T. Changes in the renin-angiotensin system (RAS) in conscious postnatal sheep during the first month after birth. Pediatric Academic Societies, May 3-6, 2003, Seattle, WA. (Poster presentation)

2004

Barber CA, Sikes NC, Norton JD, Lowery CL, Kaiser JR. Effects of mode of delivery on mortality and severe brain injury in extremely low birthweight Infants. Presented at Southern Society for Pediatric Research. New Orleans, LA. February 2004

Karimi P, Lu CY. Ineffective macrophage response in the peritoneal cavity of neonatal mice may lead to cerebral Listeriosis. Oral Platform presentation at the Eleventh Annual South Central Conference on Perinatal Research. September 2004, Austin, Texas

Nagar D, Rosenfeld CR. Estrogen increases expression of the β 1-subunits of the large conductance calcium activated potassium channel in ovine uterine vascular and visceral smooth muscle. Southern Society for Pediatric Research, February 13-15, 2004, New Orleans, LA (Young Investigator Award for Basic Research)

Nagar D, Liu X and Rosenfeld CR. Estradiol-17 β (E2 β) Selectively regulates β 1-subunit expression in large conductance calcium-activated potassium channels (bkca) in ovine uterine vascular and visceral smooth muscle (SM). Society for Gynecologic Investigation, March 24-27,

2004, Houston, TX (Poster Presentation)

Shalak LF, Wyckoff MH, Laptook AR, Jafri HS, Ramilo O, Perlman JM. Selective inflammatory cytokine response after asphyxia and volume resuscitation in a neonatal piglet model. *Pediatr Res* 2004;55 (4),455A. Platform presentation at Pediatric Academic Societies Meeting. San Francisco, CA, 2004

Shalak L, Perlman J. Histological chorioamnionitis is a poor predictor of neonatal encephalopathy in term infants with severe fetal acidemia. *Pediatric Research*, 2004.55 (4): 415A. Poster presentation at Pediatric Academic Societies Meeting. San Francisco, CA, May 2004

Shalak L, Wyckoff M, Laptook A, Perlman J. Selective inflammatory cytokine response after asphyxia and volume resuscitation in a neonatal piglet model. *J Perinatology* 24: 577, 2004. Platform presentation at American Academy of Pediatrics. October 2004, San Francisco, CA

Woldesenbet M, Perlman JM. Histologic chorioamnionitis is an occult marker of more severe persistent pulmonary hypertension of the newborn in the term Infants. *American Academy of Pediatrics*. October 2004, San Francisco. (Poster presentation)

Woldesenbet M, Perlman JM. Histologic chorioamnionitis: An occult marker of severe pulmonary hypertension in the newborn. *Eleventh Annual South Central Conference on Perinatal Research*. September 2004, Austin, Texas (Podium Presentation)

2005

Anderson JM, Woldesenbet M, Rosenfeld CR. A population-based study of persistent pulmonary hypertension of the neonate: impact of infection, meconium aspiration and congenital anomalies on survival. *21st Annual Children's National Medical Center Symposium: ECMO and the Advanced Therapies for Respiratory Failure*. Keystone, CO. February 22, 2005. Role: Co-investigator. (Poster presentation)

Barber CA, Wyckoff MH. Evaluation of endotracheal vs. intravenous administration of epinephrine during neonatal cardiopulmonary resuscitation. *American Academy of Pediatrics Meeting*. San Francisco, CA, October 2005 (Presented)

Bomela HN, Rosenfeld CR, Bober M, and Salhab WA. Prevalence and impact of congenital anomalies on neonatal intensive care (NICU). *American Academy of Pediatrics 2005 National Conference and Exhibition*, October 8-12, 2005 (Poster Presentation, AAP Travel Award)

Jeyarajah DR, Kielar ML, John R, Karimi P, Lu CY. Impact of bile duct ligation on portal venous infection with E.coli: role of interleukin-10. *American Hepato-Pancreato-Biliary Association*, April 2005, Fort Lauderdale, Florida

Karimi P, Jeyarajah R, Kielar M, John R, Chen L, Bhagat V, Lu CY. Ineffective macrophage response in the peritoneal cavity of neonatal mice may lead to cerebral Listeriosis: Role of monocyte chemoattractant protein-1. *Southern Society of Pediatric Research*, February 2005, New Orleans, LA

Karimi P, Jeyarajah R, Bhagat V, Keilar M, Bennett M, Gokaslan T, Lu C. Ineffective macrophage response in the peritoneal cavity of neonatal mice may lead to cerebral listeriosis: Role of monocyte chemoattractant protein-1. *2005 UT Southwestern Postdoctoral Poster Presentation*, February 2005, Dallas, Texas

Karimi P, Jeyarajah R, Kielar M, John R, Chen L, Bhagat V, Lu CY. Ineffective macrophage response in the peritoneal cavity of neonatal mice may lead to cerebral listeriosis: Role of monocyte chemoattractant protein-1. *Pediatric Academic Societies*, May 2005, Washington, DC

Karimi P, Jeyarajah R, Lu CY. Defect in monocyte chemoattractant protein-1 in the peritoneal cavity of neonatal mice may lead to cerebral listeriosis. Academy of Pediatrics, October 2005, Washington, DC

Marinescu RC, Ashraf Q, Delivoria-Papadopoulos M. Ca⁺⁺-Influx dependent mechanism of apoptotic proteins expression (Bax, Bcl2, Bcl-xl) in the mitochondrial and cytosolic fractions in the cerebral cortex of newborn piglets. SPR:A1054, 2005

Miao D, Salhab W, Rosenfeld CR. Characteristics and outcome of infants with gastroschisis: A 16 years review. Presented at the SPR/PAS 2005 meeting Washington, DC (poster) as well as a presentation at the 2004 Mead-Johnson South Central Conference on Perinatal Research, Austin, TX

Miao D, Salhab W, and Rosenfeld CR. Characteristics and outcome of infants with gastroschisis: A 16 years review. Pediatric Academic Societies, May 14-17, 2005, Washington DC (Poster Presentation)

Vyas – Read S, Willis B, Shaul P. Nitric Oxide Attenuates TGF- β 1 Induced EMT in alveolar epithelial cells: Potential role in BPD. Presented at the Mead-Johnson 67th Perinatal and Developmental Medicine Symposium, November 2005

Woldesenbet M, Rosenfeld CR, Perlman JM, and Ramilo O. The role of inflammation in the genesis of persistent pulmonary hypertension of the newborn. American Academy of Pediatrics 2005 National Conference and Exhibition, October 8-12, 2005 (Oral Presentation, AAP Travel Award)

2006

Barber CA, Shalak LF, Wyckoff MH. End-tidal CO₂ (ETCO₂) detection of an audible heart-rate during neonatal cardiopulmonary resuscitation following asystole in piglets. Poster presentation at Pediatric Academic Societies Meeting. San Francisco, CA, 2006

Barber CA, Shalak LF, Wyckoff MH. End-tidal CO₂ detection of an audible heart-rate during neonatal cardiopulmonary resuscitation following asystole in piglets. Presented at 68th Perinatal & Developmental Medicine Symposium. Aspen, CO, June 2006

Barber CA, Shalak LF, Garcia D, Wyckoff MH. Correlation of end-tidal CO₂ with return of an audible heart-rate during neonatal cardiopulmonary resuscitation following asystole in piglets. Presented at 13th Annual South Central Conference on Perinatal Research. Austin, TX, October 2006

Bomela H, Rosenfeld CR, Bober M, and Salhab W. “The prevalence and impact of congenital anomalies (CA) on neonatal intensive care (NICU).” Pediatric Academic Societies’ 2006 Annual Meeting. April 29 – May 2, 2006. (Poster Presentation)

Ennis B, Rosenfeld C. Cortisol values do not correlate with blood pressure in preterm neonates. *Pediatr Res* 2006 60: 491-e, Oct 2006, Midwest Society for Pediatric Research Indianapolis, IN (Platform presentation)

Rosenfeld CR, Liu X, and Nagar D. “Increased expression of the regulatory β 1-subunit of large-conductance K⁺ channels (BKCa) in uterine artery vascular smooth muscle (VSMUa) during ovine pregnancy”. Society for Gynecological Investigation, March 21 – 25, 2006 (Poster Presentation)

Vyas-Read S, Willis B, Shaul P. Nitric oxide attenuates epithelial-mesenchymal transition in alveolar epithelial cells. Pediatric Academic Societies’ Annual Meeting 2006 (Presented)

2007

Barber CA, Shalak LF, Garcia D, Wyckoff MH. Neonatal Cardiac Compressions Following Asystole from Asphyxia: Beneficial or Futile? Presentation at Pediatric Academic Societies Meeting. Toronto, Canada, May 2007

Barber CA, Wyckoff MH. Randomized Controlled Trial of Endotracheal Versus Intravenous Administration of Epinephrine During Neonatal Cardiopulmonary Resuscitation in Asphyxiated Piglets. Presentation at American Heart Association Scientific Sessions. Orlando, FL, November 2007

Chiruvolu A, Engle WD, Jackson GL. Serum calcium values in term and late preterm neonates receiving gentamicin. Submitted to AAP Meeting San Francisco, CA, October 2007

Duncan AF, Morgan JS, Ahmad, N, Rosenfeld CR, Heyne RJ. Inter-rater reliability of manual blood pressure (BP) measurements in children 1-3 years of age. Presentation at AAP Meeting San Francisco, CA, October 2007.

Ennis B, Roy L, Rosenfeld C. Total and free cortisol values are decreased in preterm neonates exposed to antenatal steroids (AS). May 2007, Pediatric Academic Societies Annual Meeting, Toronto, Canada (Poster presentation)

Ennis B, Roy L, Rosenfeld C. Basal total and free cortisol measurements are unrelated to blood pressure (BP) in the first postnatal week in neonates 28-32 weeks gestation. Pediatric Academic Societies Annual Meeting, May 2007, Toronto, Canada (Platform presentation)

Ennis B, Roy L, Rosenfeld CR. Basal total and free cortisol levels are unrelated to blood pressure in the first postnatal week in neonates 28-32wks gestation. American Academy of Pediatrics National Conference and Exhibition. October 2007, San Francisco, CA (Platform presentation, Klaus Awardee)

Foster L, Anderson J. The inter-rater reliability of Apgar scores at one and five minutes. Presentation at Pediatric Academic Societies Meeting. Toronto, Canada, May 2007

Marinescu RC, DeLisser HM, Savani RC. The hyaluronan (HA) receptor RHAMM is required for VEGF-stimulated endothelial cell migration and angiogenesis. Mead Johnson Meeting, "Genetics - In-roads into Neonatology", Marco Island, FL, 11/15/2007

Miao D, Velaphi S, Roy T, and Rosenfeld CR. Mechanisms regulating blood pressure in conscious newborn sheep: Metabolic clearance of arginine vasopressin (MCRAVP). Presentation at Pediatric Academic Societies Meeting. Toronto, Canada, May 2007

Miao D, Velaphi S, Roy T, and Rosenfeld CR. Mechanisms regulating blood pressure in conscious newborn sheep: Metabolic clearance of arginine vasopressin (MCRAVP). Presentation at AAP Meeting, San Francisco, CA, October 2007

2008

Barber CA, Garcia D, Wyckoff MH. Randomized Controlled Trial of Endotracheal Versus Intravenous Administration of Epinephrine During Neonatal Cardiopulmonary Resuscitation in Asphyxiated Piglets. Poster presentation at: PAS-SPR, Honolulu, Hawaii, May 2008

Bennett K, Dravis C, Henkemeyer M, Schwarz M. Inhibition of Ephrin B2 reverse signaling alters distal alveolar morphogenesis. Presentation at Fifteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/21-23/08

Chalak L, Kaiser J. Amplitude EEG trends and effects of neonatal interventions in elbw infants within 48 hours of life: can we use it to predict severe intracranial hemorrhage? Poster

presentation at: European Academy of Paediatrics. EAP, Nice, France, 10/24-28/08

Duncan A, Rosenfeld CR, Morgan JS, Ahmad N, Heyne R. Systolic blood pressure (SBP) in very low birth weight infants (VLBW) exceeds a reference population in the first 3 yr of life. Poster symposium presentation at PAS-SPR, Honolulu, Hawaii, 5/04/08 (PAS Young Investigator's Travel Awards Program)

Foster LR, Hardy DB, Mendelson CR. Maternal progesterone treatment retards labor in mice by antagonizing inflammatory response pathways and SP-A secretion by the fetal lung. Oral Presentation at the Society for Gynecologic Investigation 55th Annual Scientific Meeting, 3/29/2008.

Foster L, Mendelson C. Maternal Progesterone Treatment Inhibits Fetal Lung SP-A Expression and Antagonizes Inflammatory Response Pathways Associated with Delayed Labor. Poster presentation at PAS-SPR, Honolulu, Hawaii, 5/03/08

Foster L. Fifteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/21-23/08

Khan L, Rosenfeld CR. Uterine artery (UA) expression OF Ca⁺⁺-activated K⁺ Channels (BKCa) and the cGMP-dependent pathway are increased during the ovine estrus cycle. Poster presentation at AAP Meeting, 10/10/08

Lam D, Jiang H, Savani RC. Toll-Like Receptor 2 (TLR2) ligation results in increased TGF and stimulates macrophage migration using hyaluronan and its receptor RHAMM. Poster presentation at PAS-SPR, Honolulu, Hawaii, 5/06/08

Lam D. Fifteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/21-23/08

Marinescu RC, DeLisser HM, Cao G, Savani RC. Hyaluronan (HA) and the HA receptor RHAMM are required for VEGF-stimulated endothelial cell migration and angiogenesis. Platform presentation at PAS-SPR, Honolulu, Hawaii, 5/05/08

Miao D, DeSpain K, Rosenfeld CR. Vascular reactivity in newborn sheep is vessel and agonist dependent. Poster presentation at PAS-SPR, Honolulu, Hawaii, 5/04/08

Miao D, DeSpain K, Rosenfeld CR. Vascular sensitivity to angiotensin II (ANG II) and α -stimulation increases after the first month postnatal in conscious newborn sheep. Poster presentation at PAS-SPR, Honolulu, Hawaii, 5/04/08

Marinescu RC. Hyaluronan (HA) and the HA receptor RHAMM are required for VEGF-stimulated endothelial cell migration and angiogenesis. Poster presented at Proteoglycan Gordon Research Conference, Proctor Academy, Handover, New Hampshire, 7/6/08

St. John L, Wyckoff M. Risk Factors for the Development of Hypothermia in Preterm Neonates. Poster presentation at AAP Meeting, October 2008

St. John L, Wyckoff M. Risk Factors for the Development of Hypothermia in Preterm Neonates. Presentation at Fifteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/21-23/08

2009

Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Ephrin B2 modulates distal alveolar morphogenesis. Platform presentation at PAS-SPR, Baltimore, MD, 5/2/09

Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Inhibition of Ephrin B2 Reverse Signaling Alters Distal Alveolar Morphogenesis. Oral presentation at American Thoracic Society (ATS) International Conference, San Diego, 5/20/09

Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Alterations in Ephrin B2 Reverse Signaling Modulate Distal Alveolar Morphogenesis. Oral presentation at AAP Meeting, Washington, DC, 10/17/09

Duncan AF, Heyne R, Morgan JS, Ahmad N, Rosenfeld CR. Systolic blood pressure (SBP) in very low birth weight infants (VLBW) exceeds a reference population in the first 3 yr of life. Oral presentation at AAP Meeting, Washington, DC, 10/17/09

DuPont T, Sanchez P. Implementation of Systemic Hypothermia for Hypoxic-Ischemic Encephalopathy (HIE): What's the Outcome? Poster presentation at PAS-SPR, Baltimore, MD, 5/3/09

DuPont TL, Chalak LF, Morris M, Heyne R, Sanchez PJ. Implementation of systemic hypothermia for hypoxic-ischemic encephalopathy (HIE). Oral presentation at Sixteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/27-29/09

Kapadia VS, Christie L, Wyckoff M. Early Hyperoxemia Following Acute Asphyxia is Associated with Moderate/Severe Hypoxic Ischemic Encephalopathy: Does 100% Oxygen during Resuscitation put Newborns at Risk? Oral presentation at 16th South Central Conference on Perinatal Research, Austin, TX, 10/27-29/09

Khan L, Rosenfeld CR. The cGMP-PKG-Dependent Pathway and Large Conductance Ca²⁺-Activated K⁺ Channels (BKCa) Are Up-Regulated in Uterine Artery Smooth Muscle (UASM) during the Ovine Ovarian Cycle (OC). Oral presentation, Society for Gynecologic Investigation 56th Annual Scientific Meeting, Glasgow, Scotland, 3/17-21/09.

Lam D, Jiang H, Savani RC. Toll-Like Receptor 2 (TLR2) Activation Results in ERK- and Src-Dependent Increase in TGF[β] Which in Turn Stimulates Macrophage Chemotaxis Using Hyaluronan (HA) and the HA Receptor RHAMM. Poster presentation at PAS-SPR, Baltimore, MD, 5/4/09

St.John LT, Christie LH, Wyckoff MH. Delivery room risk factors for the development of hypothermia in preterm neonates. Oral presentation at Sixteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/27-29/09

AWARDS, HONORS AND GRANTS

Awards:

- *Young Investigator Award for Basic Research, Southern Society for Pediatric Research: D. Nagar.* Estrogen increases expression of the β 1-subunits of the large conductance calcium activated potassium channel in ovine uterine vascular and visceral smooth muscle. February 13-15, 2004, New Orleans, LA
- *Young Investigator Award, American Academy of Pediatrics, Section on Perinatal Pediatrics: Prameela Karimi.* Defect in monocyte chemoattractant protein-1 in the peritoneal cavity of neonatal mice may lead to cerebral listeriosis. October 2005, Washington, DC
- *President's Presenters Award, Society for Gynecologic Investigation, sponsored by Wyeth: LaKeitha Foster.* Maternal progesterone treatment retards labor in mice by antagonizing inflammatory response pathways and SP-A secretion by the fetal lung. 2008
- *Teaching Fellow of the Year Award (2005-06). Arpitha Chiruvolu:* Dept. of Pediatrics, University of Texas Southwestern Medical Center, Children's Medical Center
- *Travel Awards:*
 - Lina Shalak, AAP 2001 & 2004, Ross Nutritional 2000;
 - Prameela Karimi, PAS 2005;
 - Hlwelekazi Bomela: AAP 2005 ;
 - Chad Barber: Mead Johnson 2006, AAP 2005;
 - Mesfin Woldesenbet: AAP 2005;
 - Shilpa Vyas-Read 2006 PAS;
 - Becky Ennis, Mead Johnson 2005, AAP 2007;
 - Darryl Miao, AAP 2007;
 - Andrea Duncan: PAS 2008;
 - Liaqat Khan: AAP 2008
 - Katherine Bennett., PAS 2009, American Thoracic Society 2009, AAP (NCE SOPPe Travel Grant) 2009

Funding during fellowship (1998-present classes):

Name	Sponsor	Award/Grant	Title	Years
Becky Ennis	American Academy of Pediatrics	Klaus Perinatal Research Award	Mechanisms modulating blood pressure in neonates \leq 1000gm birth weight	2005-06
Chad Barber	American Academy of Pediatrics	NRP Research Grant & Young Investigator Award Program	Randomized controlled trial of endotracheal versus intravenous administration of epinephrine during neonatal cardiopulmonary resuscitation in asphyxiated piglets	2006
Andrea Duncan	American Academy of Pediatrics	Klaus Perinatal Research Award	Effects of very-low- birth-weight, prematurity and postnatal growth on blood pressure during the first 3 years of life.	2007-08
Nathan	University of	Physician	-	2008-11

Sundgren	Texas Southwestern University	Scientist Training Program		
Lilian St.John	American Academy of Pediatrics	NRP Research Grant & Young Investigator Award Program	Effectiveness of Plastic Lined Hats for Prevention of Hypothermia in Preterm Newborns in the Delivery Room,	2008-10
Katherine Bennett	American Academy of Pediatrics	Klaus Perinatal Research Award	The role of ephrin B2 reverse signaling in lung morphogenesis	2009-10

Promotion to senior rank

Myra Wyckoff, M.D.: Promoted to Associate Professor July 2008

Grants from graduates (1998 and beyond)

Name	Sponsor	Support years	Title	Amount
Chalak (Packer - PI)	NIH/NCRR	9/17/07-5/31/12	5 KL2 RR024983-02; North and Central Texas Clinical and Translational Science Initiative	\$50,000
Salhab (PI)	CAS Medical Systems, and Cosco	2001-2003	A prospective randomized assessment of very low birth weight infants in car seat and car bed prior to discharge	
Salhab (Co-Investigator; 5% effort. (PI: Abbot Laptook ,2001-2003; Charles Rosenfeld, 2004-2006)	NIH	1999-2006	NIH Cooperative Multicenter Neonatal Research Grant	
Salhab, Co-PI. (Pablo Sanchez, PI)		2006-2007	NIH Cooperative Multicenter Neonatal Research Grant	
Wyckoff (PI)	AAP, Neonatal Resuscitation Program	2002-2003	A randomized controlled trial of albumin versus normal saline administration on resuscitation in an asphyxiated, hypotensive neonatal model.	\$25,000
Wyckoff (PI)	Children's Medical Center of Dallas Clinical Research Grant.	2002-2003	Use of non-invasive ETCO2 and compliance monitoring to prevent early hypocarbia in VLBW neonates requiring intubation in the delivery room.	\$10,000
Wyckoff (Collab.) Idris (PI)	NIH	2004-2009	Clinical Research Consortium to Improve Resuscitation Outcomes	\$2,443,349
Wyckoff (PI)	AAP, Neonatal Resuscitation Program	2005-2006	A randomized controlled trial of end-tidal CO2 guided cardiopulmonary resuscitation in an asphyxiated neonatal model	\$25,000
Wyckoff (PI)	Thermotek, Inc.	2005	Animal study to evaluate a new body cooling system for induction of therapeutic hypothermia in newborns with hypoxic- ischemic encephalopathy	\$15,561

Wyckoff (Co-Investigator; Mentor)	AAP, Neonatal Resuscitation Program Young Investigator Grant.	2006-2007	Randomized controlled trial of endotracheal versus intravenous administration of epinephrine during neonatal cardiopulmonary resuscitation in asphyxiated piglets	\$10,000
Wyckoff (PI)	AAP, Neonatal Resuscitation Program	2008-2009	The ergonomics of neonatal cardiac compressions	\$71,030