This document contains all publications and abstracts related to work accomplished during fellowship, as well as grants from past fellows, for 2010-2015. The names of the fellows are underlined. Rev 6/19/2015

JOURNAL ARTICLES

Original Peer-Reviewed Manuscripts

2015


Lopez-Medina E, Cantey JB, Sánchez PJ. The Mortality of Neonatal Herpes Simplex Virus Infection. The Journal of pediatrics 04/2015; DOI: 10.1016/j.jpeds.2015.03.004


2014


Cantey JB, Wozniak PS, Sánchez PJ. Prospective Surveillance of Antibiotic Use in the Neonatal Intensive Care Unit: Results from the SCOUT Study. The Pediatric Infectious Disease Journal. PMID: 25191849


PMID:24619875


Sen SK, Mayor R, Engle WD, Blumenschein SD, Brion LP. Index of suspicion. Hyperbilirubinemia without jaundice in a neonate. NeoReviews, in press


2013


2012


Frankfurt JA, Duncan AF, Heyne RJ, Rosenfeld CR. Renal Function and Systolic Blood Pressure in Very-Low-Birth-Weight Infants 1-3 Years of Age. Pediatric Nephrology 2012; 27(12):2285-91, PMID: 22832668

2011


2010

Khan L, Rosenfeld CR, Liu X, Magness RR. Regulation of the cGMP-cPKG pathway and large-conductance Ca2+-activated K+ channels uterine arteries during the ovine ovarian cycle. Am J Physiol Endocrin Metabol, 298: E222-E228, 2010

Reviews

2015


2014

Mir IN, Chalak LF. Serum biomarkers to evaluate the integrity of the neurovascular unit. Early Human Development, 2014 Oct;90(10):707-11.

2012

Chapters

2014


2013

2012
ABSTRACTS

2015


Cantey JB. Screening for Neonatal Herpes Simplex Virus (HSV) Infection with Serum Alanine Aminotransferase (ALT): How Good Is It? Poster presentation at Pediatric Academic Societies Annual Meeting, San Diego, CA, 4/28/15


Cantey JB. Is Prolonged Rupture of Membranes a Risk Factor for Early-Onset Sepsis in Preterm Infants? Poster presentation at Pediatric Academic Societies Annual Meeting, San Diego, CA, 4/28/15


Weydig HM, Jaleel MA, Frost M, Brion LP. Parkland QI Bundle: Reducing Mortality and Morbidity in Extremely Low Gestational Age Neonates (ELGANs) at Parkland. Poster presentation at AAP National Conference and Exhibition, Washington DC, 10/23/2015

2014


DeVries, Kakkilaya V. Oxygen Targeting for Preterm Infants. Oral presentation at Levine Children’s Hospital Quality Improvement Coaching Conference (LCH QuICC), Charlotte, NC, September 17-19, 2014


Lal CV, Liao J, Cheong N, Longoria C, Cuna A, M. Faye-Petersen O, Kelly DR, Ambalavanan N, Savani RC. CD44 is necessary for increased lung IL1β/TGFβ and decreased alveolarization in mice exposed to neonatal hyperoxia, and is elevated in
preterm infants with BPD. Platform presentation at Pediatric Academic Societies Annual Meeting, Vancouver, May 4, 2014


**Mayor RS. Maternal Diet Impairs Fetal Lung Development.** Platform presentation at American Academy of Pediatrics (AAP) National Conference and Exhibition, San Diego, CA, October 11, 2014


**Mir IN, Welch SJ, Brown LS, Lal CV, Rosenfeld CR, Chalak LF. Placental Pathology is Associated with Severity of Neonatal Encephalopathy and Neurodevelopmental Outcome at 18-24 Months of Age.** Platform presentation at: Section on Perinatal Pediatrics, 21st South Central Conference on Perinatal Research, Lakeway Resort, Austin, Texas, October 27-29, 2014


Weydig H. Presentation at Levine Children’s Hospital Quality Improvement Coaching Conference (LCH QuICC), Charlotte, NC, September 17-19, 2014

White NO, Cantey JB, Dulaurier M, Mejias A, Sanchez PJ. Management of newborns delivered to women with active genital herpes simplex virus (HSV) lesions: is current guidance optimal? Platform presentation at Pediatric Academic Societies Annual Meeting 2014


2013


Lal CV, Awasthi N, Xu H, Schwarz AM, Savani RC, Schwarz Re, Schwarz MA. Endothelial Monocyte Activating Polypeptide II (EMAP II) Induces Bronchopulmonary Dysplasia (BPD)-Like Phenotype in Uninjured Mice, and Hyperoxia-induced BPD is Improved by an EMAP II Blocking Antibody. Platform Presentation at Pediatric Academic Societies Annual Meeting, 2013 (Washington DC)


Levan J, Brion LP, Wragge LA, on behalf of the NICHD NRN. Changes in therapy and outcomes associated with the SUPPORT Trial. Poster presentation at PAS, Washington DC, May 5, 2013

Mayor R, Finch K, Davis K, Zehr J, Neinast M, Bills J, Savani RC, Clegg D. In Utero Exposure to Maternal High Fat Diet Increases Fetal Lung Inflammation Impairing Lung Development. Poster presentation at American Academy of Pediatrics (AAP) National
Motta CL, Wyckoff MH. Does NRP Need a New Rule for Appropriate Endotracheal Tube (ETT) Depth for Newborns < 1000g? Poster Presentation at Pediatric Academic Societies Annual Meeting, 2013 (Washington DC)

Motta CL, Scott W, Mahony L, Koch J, Wyckoff MH, Reisch J, Brion LP. Association of Congenital Heart Disease and Necrotizing Enterocolitis in Preterm Infants.
- Poster presentation at 82nd Perinatal & Developmental Medicine Symposium “The Microbiome in Perinatal Health and Disease,” Aspen, Colorado, June 6-9, 2013
- Poster presentation at American Academy of Pediatrics (AAP) National Conference and Exhibition, Orlando, FL, 10/25/13
- Platform presentation at Section on Perinatal Pediatrics, 20th South Central Conference on Perinatal Research, Lakeway Resort, Austin, Texas, 10/29/13


Frankfurt J, Duncan A, Heyne R, Rosenfeld, CR. Growth Patterns in Preterm Very-Low-Birth-Weight (PT-VLBW) Infants at 1-3yrs Correlate with Elevated Serum Leptin. Platform Presentation at Pediatric Academic Societies and Asian Society for Pediatric Research (PAS/ASPR) in Boston, Massachusetts, April 28-May 1, 2012

Frankfurt J, Duncan A, Heyne R, Rosenfeld, CR. Growth Patterns in Preterm Very-Low-Birth-Weight (PT-VLBW) Infants at 1-3yrs Correlate with Elevated Serum Leptin. Platform Presentation at CTSA- Consortium-Child Health Oversight Committee in Boston, Massachusetts, April 27, 2012

Jeyaraj J, Liao J, Cheong N, Savani RS. RHAMM Knockout Mice Have Delayed Alveolarization, Have Worse Phenotype in Hyperoxia, and Do Not Increase Alveolarization in Response to Exogenous VEGF. Platform presentation at PAS, Boston, MA, 4/29/2012


Mikhael M, Brown LS, Rosenfeld CR. Do 1979 neutrophil reference ranges accurately diagnose the presence or absence of early onset sepsis? Poster Presentation at AAP National Conference and Exhibition Meeting, New Orleans, LA, October 2012


Stumpf KA, Burchfield J, Sanchez PJ. Urinary Tract Infection (UTI) among Preterm Infants. Perinatal Developmental Medicine Symposium, AAP, Section on Perinatal Pediatrics (SoPPe), Aspen, Colorado, 6/7/2012

2011

Afanador M, Bennett KM, Legan S, Xu H, Dravis C, Williams O, Savani RC, Henkemeyer M, Schwarz MA. Mice lacking Ephrin B2 reverse signaling have increased lung fibronectin deposition and compromised pulmonary function. Platform presentation at PAS, Denver, CO, 4/30-5/2/11; PAS Travel Award


Frankfurt J, Duncan A, Heyne R, Rosenfeld CR. Studies of renal function and systolic blood pressure in preterm very-low-birth-weight infants at 1-3 years chronologic age. Presentation at PAS, Denver, CO, 4/30-5/2/11


Sparks JE, Jaleel MA, Christie L, Brion LP, Wyckoff, MH. Impact Of Changes In The 2006 Neonatal Resuscitation Program (NRP) Recommendations For Delivery Room Epinephrine Use. Platform Presentation at PAS, Denver, CO, 5/1/11

Sparks JE, Chalak LF, Perlman JM, Wyckoff MH. Ergonomics of neonatal CPR: Cardiac compressions from the patient’s side versus head of bed. Platform Presentation at PAS, Denver, CO, 4/30-5/2/11

St.John LT, Christie LH, Burchfield J, Wyckoff MH. Effectiveness of Plastic Lined Hats for Prevention of Hypothermia in Premature Newborns in the Delivery Room. Poster presentation at PAS, Denver, CO, 4/30-5/2/11

St.John LT, Christie LH, Burchfield J, Chalak LF, Wyckoff MH. Admission Hyperthermia in Preterm Newborns ≤ 34 wks Gestation: Risk Factors and Morbidities. Poster presentation at PAS, Denver, CO, 4/30-5/2/11

2010


Afanador M, Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Role of EphrinB2 in Distal Pulmonary Epithelial Formation. Presentation at: AAP South Central Perinatal Conference, Austin, TX, 10/26-28/10

DuPont TL, Chalak LF, Morriss MC, Heyne R, Sánchez PJ. Short-term outcomes of infants who did not qualify for hypothermia therapy for hypoxic ischemic encephalopathy. Poster presentation at PAS-SPR, Vancouver, Canada, 5/10

DuPont TL, Chalak LF, Heyne R, Morriss MC, Sánchez PJ. Short-term outcomes of infants who did not qualify for hypothermia therapy for hypoxic ischemic encephalopathy. Presentation at: AAP South Central Perinatal Conference, Austin, TX, 10/26-28/10

Frankfurt J, Duncan A, Heyne R, DeSpain K, Rosenfield CR. Studies of Renal Function and Blood Pressure in Preterm Very-low-birth-weight Infants at 1-3yrs Chronologic Age. Presentation at: AAP South Central Perinatal Conference, Austin, TX, 10/27/10
Kapadia VS, Chalak LF, Dupont TL, Christie L, Burchfield J, Brion LP, Wyckoff MH. Hyperoxemia within the 1st hour of life following perinatal asphyxia and subsequent development of moderate-severe hypoxic ischemic encephalopathy (HIE). Platform presentation at PAS-SPR, Vancouver, Canada, 5/10

Sparks JE, Jaleel MA, Christie L, Brion LP, Wyckoff MH. Impact of Changes in the 2006 Neonatal Resuscitation Program Recommendation for Epinephrine Usage in the Delivery Room. Oral presentation at Seventeenth Annual South Central Conference on Perinatal Research, Austin, TX, 10/26-28/10

St John L, Christie LH, Huan R, Wyckoff MH. Risk factors for the development of hypothermia in preterm infants in the delivery room. Poster presentation at PAS-SPR, Vancouver, Canada, 5/10

Sundgren NC, Mineo C, Shaul PW. C-Reactive Protein Antagonizes Endothelial NO Synthase via FcγRI and Src Kinase-dependent Activation of FcγRIIB. Presentation at Am Heart Association, Chicago, IL, 11/15/10

INVITED PRESENTATIONS

2012
Lal CV, Wyckoff M - NRP Current Issues Seminar- AAP National Conference and Exhibition, New Orleans, Louisiana 10/19/12

Lal CV, NRP Workshop - “Full Throttle NRP”. SWAN (Scott & White Annual Neonatal) Conference, Temple, Texas 10/5/12

Stine, CN, NRP Workshop - “Full Throttle NRP”. SWAN (Scott & White Annual Neonatal) Conference, Temple, Texas 10/5/12

2011
Sparks JE. 2010 ILCOR and NRP Guidelines Update. Presented at: Annual Respiratory Care Symposium, Texas Society of Respiratory Care, Plano, TX, 4/15/11

2010
Sparks JE. Current Concepts in Neonatal Resuscitation. Presented at: Annual Respiratory Care Symposium, Texas Society of Respiratory Care, Plano, TX, 4/23/10

UTSW COMMITTEES

Joseph B Cantey:
2013-2015 Parkland Memorial Hospital, Infection Prevention Committee
2013-2014 CMC Clinical practice guideline committee: Pancreatitis

Heather Weydig:
2014-15 Representative of the subspecialty trainees in the Department of Pediatrics on the GME Residency Advisory Committee (RAC)

Lindsay DeVries
2015-16 Housestaff Wellness and Health Initiative 2015-16
EXTRAMURAL COMMITTEES

Joseph B Cantey:
2014-15  Society for Healthcare Epidemiology in America (SHEA) Pediatric Steering Committee

John Sparks:
2010-present  Fetus and Newborn Committee, Texas Pediatric Society

Shawndip Sen:
2014-16  District VII Fellow TECaN Representative
2014-16  Participation in the AAP Section on Young Physicians Leadership Alliance (YPLA)

EDITORIAL RESPONSIBILITIES

Joseph B Cantey:

Board member  Pediatric Infectious Disease Society – Publications Committee

AWARDS, HONORS AND GRANTS

Awards:

- Young Investigator Award, American Academy of Pediatrics (AAP): Reina Mayor
  Maternal Diet Impairs Fetal Lung Development, 2014


- Pediatric Infectious Disease Society: *PIDS Antimicrobial Stewardship Award*: Joseph Cantey 2014

- Southern Society of Pediatric Research: *Finalist for the Basic Science Young Investigator Award*: Lal CV 2013

- Society for Pediatric Research (SPR) and the SPR Fellow Research Award Committee: *Fellow Basic Research Award: Lal CV*: for abstract “Dysplasia (BPD)-Like Phenotype in Uninjured Mice, and Hyperoxia-Induced BPD Is Improved by an EMAP II Blocking Antibody” 2013

- Young Investigator Award, American Academy of Pediatrics (AAP): Charitharth V. Lal
  Role of EMAP II in the pathogenesis of BPD in a neonatal mouse model. 2012

- Annual Senior Fellows’ Research Day Awards, UTSW, Department of Pediatrics:
  - Sundgren N: Best Abstract and Presentation, 2011
  - LeVan J: Best Poster Presentation, 2012
  - Reina Mayor: Best Abstract and Presentation, 2014

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

Travel Awards:
- Cantey JB: PAS Travel Awards Program for Young Investigator's 2015
- Charitharth (Vivek) Lal: PAS Travel Awards Program for Young Investigator's 2014
- Charitharth (Vivek) Lal: AAP Neo Conference 2014
- Charitharth (Vivek) Lal: AAP (NCE SOPPe Travel Grant) 2013
- Charitharth (Vivek) Lal: AAP (NCE SOPPe Travel Grant) 2012
- Jenitha Jeyaraj: PAS 2012
- Joshua Frankfurt: PAS Travel Award awarded by PAS CTSA Consortium- Child Health Oversight Committee (CC-CHOC), 2012
- Mari Afanador: PAS 2011
- Vishal Kapadia: PAS 2010

Fellows’ Section of Membership in the Society for Pediatric Research (SPR):
- Joseph B Cantey 2012
- Charitharth V Lal 2012

Member of the Society for Pediatric Research (SPR):
- Joseph B Cantey 2012

Accepted to the Duke MBA program, Olutoye Osunbunmi: 2013

### Funding during fellowship

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Award/Grant</th>
<th>Title</th>
<th>Years</th>
</tr>
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<tbody>
<tr>
<td>Joseph Cantey</td>
<td>Gerber Foundation</td>
<td>Novice Researcher Award ; #5200762201</td>
<td>Use and Misuse of Antibiotic Therapy in the Neonatal Intensive Care Unit</td>
<td>2012-13</td>
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<td>Christina Stine</td>
<td>American Academy of Pediatrics</td>
<td>NRP Research Grant &amp; Young Investigator Award Program</td>
<td>End tidal carbon dioxide (ETCO2) prediction of return of spontaneous circulation (ROSC) during CPR in asystolic and bradycardic neonates</td>
<td>2013-14</td>
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<td>Reina Mayor</td>
<td>American Academy of Pediatrics</td>
<td>Marshall Klaus Perinatal Research Award</td>
<td>In utero maternal high fat diet increases fetal lung inflammation impairing lung development</td>
<td>2013-14</td>
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<td>John</td>
<td>American</td>
<td>NRP Research</td>
<td>Randomized, Controlled Pilot Study</td>
<td>2011-12</td>
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<tr>
<td>Name</td>
<td>Institution</td>
<td>Grant Type</td>
<td>Project Description</td>
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<td>Sparks</td>
<td>Academy of Pediatrics</td>
<td>Grant &amp; Young Investigator Award Program</td>
<td>of Asynchronous Compression and Ventilation Cycles vs Standard NRP CPR for Resuscitation in a Neonatal Swine Asphyxia Model</td>
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<td>Michel Mikhael</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Peri-operative Assessment of the Hypothalamic-Pituitary-Adrenal Axis Predicts Outcome in Neonates Undergoing Cardiac Surgery</td>
<td>2011-13</td>
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<td>Vishal Kapadia</td>
<td>Children's Medical Center Foundation</td>
<td>North and Central Texas Clinical and Translational Science Initiative (NCTCTSI) Pilot Grant Award Program</td>
<td>Randomized Trial of a Limited versus Traditional Oxygen Strategy During Resuscitation to Prevent Oxidative Stress in Premature Newborns</td>
<td>2010-11</td>
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<td>Nathan Sundgren</td>
<td>NIH</td>
<td>Loan Repayment Program (LRP)</td>
<td>Role of Fc Receptors in High Fat Diet-Induced Hypertension</td>
<td>2010-11</td>
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<tr>
<td>Nathan Sundgren</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Role of Fc Receptors in High Fat Diet-Induced Hypertension</td>
<td>2010-11</td>
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<tr>
<td>John Sparks</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Randomized Controlled Pilot Study of Asynchronous Compression and Ventilation Cycles vs. Standard NRP CPR for Resuscitation in Neonatal Swine Asphyxia Model</td>
<td>2010-11</td>
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<td>Katherine Bennett</td>
<td>American Academy of Pediatrics</td>
<td>Marshall Klaus Perinatal Research Award</td>
<td>The role of Ephrin B2 reverse signaling in lung morphogenesis</td>
<td>2009-10</td>
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<td>Natalie Frost</td>
<td>Ikaria</td>
<td>Advancing Newborn Medicine Grant Program</td>
<td>Estrogen and Estrogen Receptor Modulation of BPD</td>
<td>2009-10</td>
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<tr>
<td>Lilian St. John</td>
<td>American Academy of Pediatrics</td>
<td>NRP Research Grant &amp; Young Investigator Award Program</td>
<td>Effectiveness of Plastic Lined Hats for Prevention of Hypothermia in Preterm Newborns in the Delivery Room,</td>
<td>2008-10</td>
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Previous Graduates: Promotion to senior rank
UTSW Neonatal-Perinatal Fellow Scholarship

Myra Wyckoff, M.D.: Promoted to Associate Professor July 2008
Andrea Duncan, MD: Promoted to Associate Professor June 2014

University of Texas Southwestern Clinical Research Scholar, UT Southwestern Center for Translational Medicine and the Department of Clinical Sciences at UTSW
Lina Chalak, MD. 2007-12
Vishal Kapadia, MD. 2013-16

Selected for the SPR Young Investigator Coaching Program
Vishal Kapadia, MD, 2014; mentor: Ola D. Saugsteg, MD.

Grants obtained by graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Support years</th>
<th>Title</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Kapadia (PI: Robert Toto)</td>
<td>Center for Translational Medicine at UTSW KL2TR001103</td>
<td>2013-2015</td>
<td>NIH/NCATS, KL2 Award</td>
<td>$90,000</td>
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<td>Kapadia (PI)</td>
<td>American Academy of Pediatrics/AHA NRP Research Award</td>
<td>2014</td>
<td>Novel Transitional Goal Saturations for Preterm Resuscitation in the Delivery Room: A Randomized Control Trial</td>
<td>$50,000</td>
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<td>Chalak (PI)</td>
<td>NIH-National Institutes of Health K23 HD069521</td>
<td>7/1/12 – 6/30/15</td>
<td>Cerebrovascular Dysfunction with HIE During Hypothermia and Rewarming</td>
<td>$350,525</td>
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<td>Chalak (PI)</td>
<td>Gerber Foundation 11PH-011-1302-2996-01</td>
<td>1/1/2012-12/31/2014</td>
<td>Rewarming Phase of Hypothermia Therapy to Optimize Outcomes in Hypoxic-ischemic Encephalopathy</td>
<td>$120,545</td>
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<td>Chalak (PI)</td>
<td>Gerber Foundation</td>
<td>11/17/2011-10/16/2013</td>
<td>Rewarming Phase of Hypothermia Therapy to Optimize Outcomes in Hypoxic-ischemic Encephalopathy</td>
<td>$131,604</td>
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<td>Chalak (PI)</td>
<td>NIH-National Institutes of Health 1 RO1 MH092535-02</td>
<td>9/15/11 – 5/31/15</td>
<td>Structural development of human fetal brain</td>
<td>$267,538</td>
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<td>Wyckoff (PI)</td>
<td>Ikaria Investigator Initiated Grant</td>
<td>Nov 2010-Nov 2012</td>
<td>Inhaled NO in neonatal asphyxia</td>
<td>$119,492</td>
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<td>Wyckoff (Site PI)</td>
<td>NICHD Cooperative Multicenter NRN: 8 U10</td>
<td>4/1/2014 - 3/31/2016</td>
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<td>$1,000,000 (2011-16)</td>
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<td>HD040689-12</td>
<td>Chalak (PI)</td>
<td>North and Central Texas Clinical and Translational Science Initiative (NCTCTSI) Pilot Grant Award Program</td>
<td>2010-2011</td>
<td>Optimizing Hypothermia Therapy: A Pilot Study for Evaluation of the Rewarming Phase in Newborns with Hypoxic-Ischemic Encephalopathy (HIE)</td>
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<td>KO8</td>
<td>Vyas-Reed Shilpa (PI)</td>
<td>AAP, Neonatal Resuscitation Program</td>
<td>8/1/2010 - 5/31/2015</td>
<td>The role of reactive oxygen species in alveolar epithelial-mesenchymal transition</td>
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<td>AAP, Neonatal Resuscitation Program</td>
<td>Wyckoff (PI)</td>
<td>2008-2009</td>
<td>The ergonomics of neonatal cardiac compressions</td>
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<td>Chalak (Packer - PI)</td>
<td>9/17/07-5/31/12</td>
<td>5 KL2 RR024983-02; North and Central Texas Clinical and Translational Science Initiative</td>
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<td>NIH</td>
<td>Wyckoff (Collab.) Idris (PI)</td>
<td>2004-2009</td>
<td>Clinical Research Consortium to Improve Resuscitation Outcomes</td>
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