



2007 Pediatric Academic Societies' Annual Meeting

May 5–May 8 ~ Toronto, Canada

**Daily Schedule:
Tuesday, May 8**

Legend: TCC=Toronto Convention Center

FRY=Fairmont Royal York

(as of April 30, 2007)

8:00am–10:00am

8020 Cesarean Delivery and Its Impact on Neonatal Outcome

PAS Topic Symposium ~ TCC, Hall F

Target Audience: Neonatologists and pediatricians.

Objective:

- The impact of Cesarean delivery on neonatal outcome

Chairs: Lucky Jain, Emory University, Atlanta, GA; and Alan H. Jobe, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

This symposium seeks to address the impact of mode of delivery, particularly Cesarean section delivery, on neonatal outcome. The last decade has seen a dramatic increase in the Cesarean section rate in the US and worldwide. This increase applies to both preterm and term gestations, and there is a recent trend towards allowing Cesarean delivery at maternal request. There are conflicting data about the impact of Cesarean delivery on the VLBW fetus and fetuses with certain types of congenital anomalies. However, infants delivered operatively without being exposed to labor have a higher occurrence of respiratory distress, largely attributable to delayed transition. This symposium will address these issues from a neonatal perspective.

8:00 Introduction

Lucky Jain, Emory University, Atlanta, GA

Alan H. Jobe, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

8:05 Cesarean Birth Trends and Outcomes: A Review of National Statistics

Fay Menacker, National Center for Health Statistics, Centers for Disease Control and Prevention, Hyattsville, MD

8:20 Does Cesarean Delivery of the VLBW Infant Improve Neonatal Outcomes?

Michael H. Malloy, University of Texas Medical Branch, Galveston, TX

8:40 Impact of Cesarean Delivery on Transmission of Infectious Agents

Paul W. Spearman, Emory University School of Medicine, Atlanta, GA

9:00 Neonatal Outcome for Primary Cesarean and Vaginal Births to Women with No Indicated Risk

Marian MacDorman, National Center for Health Statistics, Centers for Disease Control and Prevention, Hyattsville, MD

9:15 Neonatal Transition and Respiratory Outcome after Elective Cesarean Delivery

Lucky Jain, Emory University, Atlanta, GA

9:35 Discussion

8:00am–10:00am

8025A Pathobiology of Pediatric Nephrotic Syndrome

ASPN Symposium ~ TCC, Room 713AB

Target Audience: Clinicians and researchers interested in learning and discussing cutting edge concepts regarding the pathobiology and mechanisms that potentially underlie primary, idiopathic nephrotic syndrome in children. The workshop will specifically focus on recent genetic and pathophysiologic findings of interest.

Objective:

- Participants should be better able to understand the types of research underway regarding the pathobiology of nephrotic syndrome

Chairs: William E. Smoyer, University of Michigan, Ann Arbor, MI; and Robert Woroniecki, Children's Hospital at Montefiore and Albert Einstein College of Medicine, Bronx, NY

Nephrotic syndrome is the leading pediatric glomerular disease and an important cause of pediatric end stage renal disease. Recurrence after transplantation remains an enigma, and negatively impacts the burden on chronic dialysis and organ allocation resources. Although many non-curative therapeutic options exist to treat nephrotic syndrome, none are based on mechanistic understanding of nephrotic syndrome and all incur significant side effects. Furthermore, nephrotic syndrome is likely a heterogeneous group of related but distinct disorders. The diverse nature of nephrotic syndrome underscores the importance of discovering mechanism-guided therapeutic protocols in preference to treatment algorithms that are based on histopathology. This session will include genetic aspects of nephrotic syndrome, novel zebrafish models of nephrotic syndrome, insights gained from cytokine studies, and mechanistic studies of pharmacologic action in podocytes.

8:00 Genetics of Nephrotic Syndrome

Friedhelm Hildebrandt, University of Michigan, Ann Arbor, MI

8:30 Zebrafish Models of Nephrotic Syndrome

Asher Schachter, Children's Hospital and Harvard Medical School, Boston, MA

- 9:00 The Role of Cytokines in Proteinuria and Progression**
H. William Schnaper, Northwestern University, Feinberg School of Medicine, Chicago, IL
- 9:30 Mechanisms of Glucocorticoid and Cyclosporine Action in Podocytes**
Michelle N. Rheault, Mount Sinai School of Medicine, New York, NY

8:00am–10:00am

8030 ADHD: Attention Deficit Hyperactivity Disorder

PAS Platform Session ~ TCC, Room 716B

Chairs: Charles W. Ralston and Jerry L. Rushton

- 8:00 The Developmental Course of Attention-Deficit/Hyperactivity Disorder (AD/HD) and Co-Morbid Learning Disorder (LD): Results from a Population-Based Birth Cohort Study.** William J. Barbaresi, Slavica K. Katusic, Robert C. Colligan, Amy L. Weaver, Robert G. Voigt. *Publication 8030.1*
- 8:15 * Does Connection to Primary Care Matter for Children with ADHD?** Sara L. Toomey, Jonathan Finkelstein, Karen Kuhlthau. *Publication 8030.2*
- 8:30 Treatment and Follow-Up of Children Newly Diagnosed with Attention-Deficit/Hyperactivity Disorder (ADHD).** Colin M. Sox, Jonathan A. Finkelstein. (Sponsored by Tracy A. Lieu)*Publication 8030.3*
- 8:45 Treatment Decision Making among Adolescents with ADHD: The Transition from Family to Self Management.** William Brinkman, Susan Sherman, April Rast, Marty Visscher, Kieran Phelan, Lori Crosby, Edward Donovan. *Publication 8030.4*
- 9:00 Dopamine Transporter Genotype (DAT1) and Stimulant Side Effects in ADHD Youth.** Mark A. Stein, Reut Gruber, Christian P. Zeni, Edwin H. Cook, Luis Rohde, Natalie Grizenko, Ridha Joobar. *Publication 8030.5*
- 9:15 Outpatient Medication Errors in the Treatment of Pediatric Attention Deficit Hyperactivity Disorder.** David G. Bundy, Michael L. Rinke, Marlene R. Miller. *Publication 8030.6*
- 9:30 * Controlled Trial of *Hypericum perforatum* for Attention Deficit Hyperactivity Disorder in Children and Adolescents.** Wendy Weber, Ann VanderStoep, Rachelle McCarty, Noel S. Weiss, Joseph Biederman, Jon McClellan. *Publication 8030.7*
- 9:45 * Effect of Phospholipids Enriched with omega-3 Fatty Acids on Symptoms of Attention Deficit and Hyperactivity Disorder (ADHD) in Children.** Nachum Vaisman, Nehemia Kaysar, Yahalomit Zaruk-Adasha, Dori Pelled. *Publication 8030.8*

8:00am–10:00am

8035 Alveolarization & Its Impairment

PAS Platform Session ~ TCC, Room Hall G

Chairs: Vineet Bhandari and Robert P. Jankov

- 8:00 PDA Ligation and Alveolar Growth.** L.Y. Chang, D. McCurnin, B. Yoder, J. Coalson, R. Clyman. *Publication 8035.1*
- 8:15 * Pulmonary Capillary Embolization Disrupts Alveolarization.** Caitlin E. Filby, Megan J. Wallace, Stuart B. Hooper. (Sponsored by Paul G. Ekert) *Publication 8035.2*
- 8:30 Chronic Hypercapnia Accelerates Alveolar Formation and Maturation in the Neonatal Mouse.** Alfin G. Vicencio, Zhongfang Du, Bernice Morrow. (Sponsored by Philip Ozuah)*Publication 8035.3*
- 8:45 Inhibition of JNK Pathway Enhances TGF- β 1-Dependent Smad-Specific CTGF Gene Expression and Branching Inhibition in Mouse Embryonic Lung Explants.** Kalyani Kasisomayajula, Jinghong Peng, Eduardo Bancalari, Shu Wu. *Publication 8035.4*
- 9:00 Erythropoietin Enhances Alveolar Growth and Decreases Inflammation in Hyperoxia Induced Lung Injury in Newborn Rat Pups.** Jang Hoon Lee, Dong Kyung Sung, Saem Kang, Soo Hyun Koo, Ga Won Jeon, Bong Kyung Shin, Yun Sil Chang, Chang Sung Son, Won Soon Park, Munhyang Lee. *Publication 8035.5*
- 9:15 Role of Interferon- γ (IFN- γ) in Murine Lung Development.** Anantha Harijith, Rayman Choo-Wing, Robert Homer, Vineet Bhandari. *Publication 8035.6*
- 9:30 Co-Culture of Fetal Ovine Alveolar Type II Cells with Lung Mesenchymal Cells Enhances Responsiveness to Vascular Endothelial Growth Factor (VEGF) *In Vitro*.** Gregory J. Seedorf, Neil Markham, Jason Gien, Vivek Balasubramaniam, Steven H. Abman. *Publication 8035.7*
- 9:45 * Vitamin D (1 α ,25(OH)2D3) and Its 3-Epimer Promote Pulmonary Alveolar Epithelial-Mesenchymal Interactions and Inhibit Alveolar Interstitial Fibroblast Apoptosis.** Laura M. Cerny, Reiko Sakurai, Ying Wang, G.S. Reddy, John S. Torday, Virender K. Rehan. *Publication 8035.8*

8:00am–10:00am

8040 Cardiopulmonary Critical Care

PAS Poster Symposium ~ TCC, Room 717AB

Viewing: 8:00am - 8:30am

Discussion: 8:30am - 10:00am

Chairs: Jonathan M. Dean and Jeffrey R. Fineman

- 1* **Early Elevations in B-Type Natriuretic Peptide (BNP) Are Associated with Poor Clinical Outcomes in Pediatric Acute Lung Injury (ALI).** Bhupinder Reel, Jeffrey Fineman, Heidi Flori. *Publication 8040.1*
- 2* **Nitric Oxide and CGMP Are Differentially Altered in Patients with Congenital Cardiac Defects after Surgery.** Eniko Sajti, Jong-Hau Hsu, Cynthia T. Harmon, Omar Chikovani, Peter E. Oishi, Jeffrey R. Fineman. *Publication 8040.2*
- 3* **Neuroendocrine Deficiency Is Common in Pediatric Septic Shock and Portends Vasopressor Requirement.** Kiran Hebbbar, James D. Fortenberry, Eric Felner, Mark R. Rigby. *Publication 8040.3*
- 4 **Ventilator Associated Lung Injury in the Pediatric Intensive Care Unit in Infants without Acute Lung Injury on Admission: The Role of Tidal Volume.** F.J.J. Halbertsma, P. Pickkers, H. Hoeven van der, S. Bambang. (Sponsored by Carlos E. Blanco) *Publication 8040.4*
- 5 **A Single Recruitment Maneuver in Ventilated Critically Ill Children Translocates Cytokines into the Circulation.** F.J.J. Halbertsma, P. Pickkers, H. Hoeven van der, S. Bambang Oetomo. (Sponsored by Carlos E. Blanco) *Publication 8040.5*

SPR Fellow Clinical Award Recipient
Michael H. Stroud

- 6* **Near-Continuous Blood Pressure (BP) Monitoring during Transport Improves Outcomes in P.I.C.U. Patients: A Randomized Controlled Trial.** Michael H. Stroud, R.T. Fiser, P. Prodhan, M.M. Moss, K.J.S. Anand. *Publication 8040.6*
- 7* **Near Infrared Spectroscopy Predicts Blood Lactate Level in Children Following Cardiac Surgery.** Sujata B. Chakravarti, Jason C. Katz, Alexander Mitnacht, Khanh Nguyen, Umesh Joashi, Barry A. Love, Shubhika Srivastava. (Sponsored by Bruce Gelb) *Publication 8040.7*
- 8 **Brain Natriuretic Peptide Levels Correlates with Left Atrium/Aortic Root Ratio in Preterm Infants with Patent Ductus Arteriosus.** Ruben J. Acherman, Gabriel Diaz, Alicia Marquez, Claudia Alarcon, William N. Evans, Gary A. Mayman, Abraham Rothman, Carlos F. Luna, Juan C. Collazos, Humberto Restrepo. *Publication 8040.8*
- 9 **A Pilot Trial of Neurally Adjusted Ventilatory Assist (NAVA) in Preterm Neonates.** Jennifer Beck, Maureen Reilly, Arthur S. Slutsky, Michael Dunn, Christer Sinderby. *Publication 8040.9*
- 10* **Anterior Pituitary (AP) Function Acutely Following Cardiopulmonary Bypass (CPB) in Children.** David J. Marquardt, W.J. Frazier, Andrew R. Yates, Jennifer A. Muszynski, Timothy M. Hoffman, Mark W. Hall. *Publication 8040.10*
- 11 **Is Refractory Hypotension in Preterm Infants a Manifestation of Early Ductal Shunting?** S. Sarkar, R. Dechert, R.E. Schumacher, S.M. Donn. *Publication 8040.11*
- 12 **Slow-Responders to IV β 2-Adrenergic Receptor Agonist Therapy: Defining A Novel Phenotype in Pediatric Status Asthmaticus.** Christopher L. Carroll, Craig M. Schramm, Aaron R. Zucker. *Publication 8040.12*

8:00am–10:00am

8045 Epidemiology II

PAS Platform Session ~ TCC, Room 701B

Chairs: ~~Elizabeth A. Edgerton and David B. Nelson~~ Changed to: Sharon B. Meropol

- 8:00 * **Valuing Reduced Antibiotic Use for Pediatric Acute Otitis Media.** Sharon B. Meropol, David A. Asch. *Publication 8045.1*
- 8:15 **Why Are Children Still Being Infected with HIV in the United States?: Experience in Prevention of Mother to Child HIV Transmission in Las Vegas.** Echezona E. Ezeanolue, Cynthia Schenauer, Kanayo Ezeanolue, Rick Reich. *Publication 8045.2*
- 8:30 **Does the Pediatric Clerkship Increase Medical Students' Risk of Becoming MRSA Carriers?** Vanthaya N. Gan, Angela P. Mihalic, Robert D. Hardy, Jane D. Siegel. *Publication 8045.3*
- 8:45 **Early Infant Death vs Fetal Death: Classification Impact on 6-Year Infant Mortality Rate in North Carolina.** Charles R. Woods. *Publication 8045.4*
- 9:00 **Risk Factors for Salmonellosis in Children in Washington State.** Donna M. Denno, Jeffrey S. Duchin, Paul Chudek, Marianne Patnode, William E. Keene, Phillip I. Tarr. *Publication 8045.5*
- 9:15 * **QI: HIV Testing of the Children of Adult Patients in a HIV Treatment Program.** Jamal C. Harris, Janet Giddy, Monty Thomas. *Publication 8045.6*
- 9:30 **Racial Disparities in Term and Post-Term Induction Rates in Illinois.** Karna Murthy, William Grobman, Todd Lee, Jane Holl. *Publication 8045.7*
- 9:45 **Population-Based Incidence of Medically Treated Thyroid Disease in Children with Down Syndrome Enrolled in a State Health Insurance Plan.** K.N. Carroll, P.G. Arbogast, J. Dudley, W.O. Cooper. *Publication 8045.8*

8:00am–9:45am

8050 Genetic Basis of Disease: From Gene Discovery to Disease Pathogenesis

PAS Platform Session ~ TCC, Room 703

Chairs: Joel N. Hirschhorn and Jeffrey A. Towbin

- 8:00** **Altered Wnt Signaling Causes Robinow Syndrome.** A. Person, S. Beiraghi, C. Sieben, S. Hermanson, A. Neumann, M. Robu, J. Schleiffarth, H. van Bokhoven, J. Mazzeu, A. Petryk, H. Brunner, S. Ekker, J. Lohr. *Publication 8050.1*
- 8:15 *** **Mutations in *CRTAP* or *P3H1* Cause Dysregulation of Prolyl-3-Hydroxylation and Recessive Osteogenesis Imperfecta.** Dustin M. Baldridge, Roy Morello, Terry K. Bertin, Francis H. Glorieux, David R. Eyre, Peter H. Byers, Deborah Krakow, Daniel H. Cohn, David L. Rimoin, Brendan F. Boyce, Brendan Lee. *Publication 8050.2*
- 8:30** **Tbx1, DiGeorge Syndrome and Ash2l: A New Interacting Cofactor.** Jason Z. Stoller, Jonathan A. Epstein. *Publication 8050.3*
- 8:45 *** **Phosphatase-Defective *PTPN11* Mutations Causing LEOPARD Syndrome Have Gain-of-Function Effects during *Drosophila* Development.** Cindy J. Wang, Fitnat Topbas, Huiwen Ying, Kimihiko Oishi, Bruce D. Gelb. *Publication 8050.4*

SPR Student Research Award Recipient
In-Kyong Kim

- 9:00 *** **Noonan Syndrome/Leukemia Causative Gain-of-Function *PTPN11* Mutations Induce Apoptosis during *Drosophila* Hematopoiesis.** In-Kyong Kim, Kimihiko Oishi, Bruce D. Gelb. *Publication 8050.5*
- 9:15 *** **Type 2 Long QT Syndrome (LQT2) and Seizures: Evidence for a Novel Genotype-Phenotype Relationship.** Jonathan N. Johnson, Carla M. Haglund, Michael J. Ackerman. *Publication 8050.6*
- 9:30** **Genome-Wide Oligonucleotide-Based Array Comparative Genome Hybridization Analysis of Non-Isolated Congenital Diaphragmatic Hernia.** Daryl A. Scott, Merel Klaassens, Ashley M. Holder, Kevin P. Lally, Caraciolo J. Fernandes, Robert-Jan Galjaard, Annelies de Klein, Dick Tibboel, Brendan Lee. *Publication 8050.7*

8:00am–10:00am

8055 Health Services Research III

PAS Platform Session ~ TCC, Room 715B

Chairs: William O. Cooper and Simon J. Hambidge

SPR Student Research Award Recipient
Kevin Downes

- 8:00 *** **The Impact of Kinship Care on Behavioral Well-Being among Children in Foster Care.** Kevin Downes, Amanda O'Reilly, Xianqun Luan, A. Russell Localio, David M. Rubin. *Publication 8055.1*
- 8:15** **The Impact of Emergency Department Strategies on Return Visits by Children with Asthma: A Population-Based Study.** Astrid Guttman, Brandon Zagorski, Asma Razzaq, Geoffrey Anderson. *Publication 8055.2*
- 8:30** **Determinants of Decisions by Primary Care Physicians on Referral to Specialists: Childhood Short Stature.** Leona Cuttler, D. Marinova, R. Meehan, A. Connors, J.B. Silvers. *Publication 8055.3*
- 8:45** **Implementation of a Ventilator Associated Pneumonia (VAP) Prevention Bundle in a Tertiary PICU Results in near Eradication of VAP and Significant Reduction in Hospital Cost.** Richard J. Brill, Dan Wells, Julie Shaw, John Butcher, Karen Sparling. (Sponsored by Thomas Boat) *Publication 8055.4*
- 9:00** **An EHR Can Change Clinician Behavior and Improve Pediatric Asthma Care.** William G. Adams, Christopher W. Shanahan. *Publication 8055.5*
- 9:15 *** **Can a Patient-Driven, Information Technology Solution Influence the Safe Prescribing of Medications?.** Stephen Porter, Rainu Kaushal, Donald Goldmann, Leslie Kalish. *Publication 8055.6*
- 9:30** **Afraid in the Hospital: Parental Concern for Errors during a Child's Hospitalization.** Beth A. Tarini, Paula Lozano, Dimitri A. Christakis. *Publication 8055.7*
- 9:45** **Time & Motion Study in a Pediatric Emergency Department (PED) before & after Computer Physician Order Entry (CPOE).** Kenneth Yen, Elizabeth L. Shane, Sachin S. Pawar, Nicole D. Schwendel, Robert J. Zimmanck, Marc H. Gorelick. *Publication 8055.8*

8:00am–10:00am

8060 Medical Education Potpourri

PAS Platform Session ~ TCC, Room 715A

Chairs: Joel Forman and Rani S. Gereige

- 8:00** **Direct Observation of Competencies (DOCs) in Ambulatory Settings.** Hans B. Kersten, Nancy D. Spector, Shareen Kelly, Robert L. Bonner, Harry Salvati, Pierre P. Chanoine, Paul S. Matz, Shoshana Melman, Laura E. Smals, Dan Taylor, Cynthia Warren. (Sponsored by Robert Shayne McGregor) *Publication 8060.1*

- 8:15 *** **Do Pediatric Fellows Recognize the Importance and Contribution of the Competencies to Their Training?** Dorene Balmer, DeeAnn Lisby, Mary Catherine Harris, Gail Slap. *Publication 8060.2*
- 8:30** **Evaluating Medical Knowledge in Pediatric Residents; What Do We Really Know?** Laura L. Sells, Jaime D. Bruse, Howard M. Corneli, James F. Bale. *Publication 8060.3*
- 8:45 *** **Resident Knowledge and Comfort with Pediatric Pain Management.** Kathryn Scharbach, Iman Sharif, Catherine C. Skae. *Publication 8060.4*
- 9:00** **Acquiring Intubation Skills in the Intensive Care Nursery: Past and Present.** D. Tanaka, L. Katakam, R. Goldberg, C.M. Cotten. *Publication 8060.5*
- 9:15** **Is Research Requirement during Residency a Predictor of Future Publications?** Philip O. Ozuah, Marina Reznik. *Publication 8060.6*
- 9:30** **Using Fasting Lipid Profiles, Body Mass Index, and Health Behavior Questionnaires To Assess the Health of Housestaff during Medical Training.** John H. Bartley, Kathryn McLeod. *Publication 8060.7*
- 9:45** **Measuring Faculty Productivity and Career Satisfaction.** Dawn Bragg, Deborah Simpson, Karen Marcdante. *Publication 8060.8*

8:00am–10:00am

8065 Molecular Basis of Inflammation in Neonatal Diseases

PAS Poster Symposium ~ TCC, Room 801B

Viewing: 8:00am–8:30am

Discussion: 8:30am–10:00am

Chairs: Joaquim M.B. Pinheiro and Rashmin C. Savani

- 1*** **Inactivated *Lactobacillus rhamnosus* (LGG) Decreases Intestinal Epithelial IL-8 Production by a Different Mechanism Than Live LGG.** Mariela Lopez, Nan Li, Josef Neu. *Publication 8065.1*
- 2*** **Probiotic Conditioned Media Improves Barrier Function in Human Intestinal Epithelial Cells.** Jeanette D. Hoenig, Elaine O. Petrof, Erika C. Claud. *Publication 8065.2*
- 3** **NF- κ B p50-Deficient Mice Are Protected from Platelet-Activating Factor-Induced Intestinal Hypoperfusion and Injury.** Isabelle G. De Plaen, Shirley X.L. Liu, Runlan Tian, Wei Hsueh, Heather Baskind. *Publication 8065.3*
- 4** **Transforming Growth Factor Beta and Erythropoietin Improve NF- κ B Inhibition in Immature Enterocytes.** Jeanette D. Hoenig, Xiaoqiong Zhang, Elaine O. Petrof, Jun Sun, Erika C. Claud. *Publication 8065.4*
- 5** **Reduction of Necrotizing Enterocolitis in IL-18 Knockout Mice.** Melissa D. Halpern, Ludmila Khailova, Dania Molla Hosseini, Kelly Arganbright, Bohuslav Dvorak. *Publication 8065.5*
- 6*** **Inhibition of Apoptosis at Birth in a Model of Bronchopulmonary Dysplasia (BPD) Induced by IL-1 β in Transgenic Mice.** Heikki Lukkarinen, Urpo Lappalainen, Kristina Bry. *Publication 8065.6*
- 7** **Fetal Lambs Showed Increased Oxidative Stress to Intra-Amniotic Endotoxin in a Chorioamnionitis Model.** Fook-Choe Cheah, Suhas G. Kallapur, Timothy J. Moss, John P. Newnham, Alan H. Jobe. *Publication 8065.7*
- 8*** ***In Vitro* Wound Healing Capacity of Bronchoalveolar Lavage Fluid Is Decreased in Preterm Infants Exposed to Chorioamnionitis.** Jasper V. Been, Anne Debeer, Freek J. van Iwaarden, Nico Kloosterboer, Luc J.I. Zimmermann. *Publication 8065.8*
- 9*** **Effect of Tracheal Aspirate Fluid from Preterm Infants on FGF-10 Expression and Saccular Airway Branching.** John T. Benjamin, Brian Halloran, Namasivayam Ambalavanan, Lawrence S. Prince. (Sponsored by Namasivayam Ambalavanan) *Publication 8065.9*
- 10** **Hyaluronan Binding Peptide Treatment Improves Pulmonary Function in a Primate Model of Bronchopulmonary Dysplasia (BPD).** Rashmin C. Savani, Bradley A. Yoder, Donald C. McCurnin. *Publication 8065.10*
- 11** **KL4 Surfactant (Surfaxin®) Is Associated with a Reduction in Bone Morphogenetic Protein (BMP) Gene Expression in a Cell Culture-Based Assay of Lung Inflammation.** De-Ann M. Pillers, Paul Nkadi, Jiaqing Pang, T. Allen Merritt. *Publication 8065.11*
- 12*** **Identification of Signaling Pathways Involved in Human Metapneumovirus-Infected Epithelial Cells.** Xiaoyong Bao, Mala Sinha, Bruce Luxon, Chao Hong, Antonella Casola. *Publication 8065.12*

8:00am–10:00am

8070 Neonatal Infectious Disease - Host Defense

PAS/PIDS Platform Session ~ TCC, Room 801A

Chairs: Upton D. Allen and Douglas S. Swanson

- 8:00 *** **Toll-Like Receptor 8 (TLR8) Agonists Trigger a Distinct, Robust Pattern of Monocyte Activation in Neonatal Humans and Rhesus Macaques.** Victoria J. Philbin, Eugenie E. Suter, Amity M. Paye, Richard L. Miller, Keith Mansfield, Ariel Shuckett, Ofer Levy. *Publication 8070.1*

- 8:15 Neuroprotection by Inhibition of NF- κ B in Hypoxic-Ischemic Brain Damage: Timing Is a Crucial Factor in Determining Life or Death.** Cora H.A. Nijboer, Floris Groenendaal, Annemieke Kavelaars, Michael J. May, Cobi J. Heijnen, Frank van Bel. *Publication 8070.2*
- 8:30 Categorical Selection of the Antibody Repertoire in Splenic B Cells.** Robert L. Schelonka, Jason Tanner, Michael Zemlin, Harry W. Schroeder. *Publication 8070.3*
- 8:45 Differential Gene Expression and Protein Production during Maturation of Neonatal Versus Adult Peripheral Blood (APB) Monocyte (Mo) into Dendritic Cells (DC).** Hong Jiang, Cheryl Wade-Harris, Megan Lim, Laxmi Baxi, Mitchell S. Cairo. *Publication 8070.4*
- 9:00 * Human Neonatal Cord Blood Monocytes Express High Basal and Inducible Amounts of Immunomodulatory Adenosine A3 Receptors That Inhibit Toll-Like Receptor2-Mediated TNF- α Production.** John M. Kelly, Palanivel Vellupillai, Khoa Nguyen, Bruce Cronstein, Ofer Levy. *Publication 8070.5*
- 9:15 The Stress-Responsive Two-Component System *ciaR/H* Is a Positive Regulator of Virulence in Group B *Streptococcus*.** David C. Klinzing, Derek L. Yesucevitz, Karen M. Puopolo. *Publication 8070.6*
- 9:30 * (Withdrawn) Interruption of the CXCL13: CXCR5 Immune Pathway during *Chlamydia trachomatis* Infection Increases Urogenital Inflammation and Sets the Stage for Preterm Birth.** Maria King, Su-yin Kok, Ann Chan, Kathleen A. Kelly. (Sponsored by Sherin Devaskar) *Publication 8070.7*
- 9:45 * Comparison of Lysostaphin vs. Vancomycin Against Methicillin Resistant *Staphylococcus aureus* (MRSA) in the Suckling Mouse.** Frank X. Placencia, Lingkun Kong, Travis Markham, Pham Don, Leonard E. Weisman. *Publication 8070.8*

8:00am–10:00am

8075 Public Health and Prevention III PAS Platform Session ~ TCC, Room 712

Chairs: Donna Halloran and Wendy Lane

- 8:00 Vitamin D Status in an Urban Population of Newly-Delivered Mothers and Infants in Boston, MA.** Anne Merewood, Supriya D. Mehta, Kimberly N. Newton, Jessica Abrams, Tai Chen, Michael Holick, Howard Bauchner. *Publication 8075.1*
- 8:15 * Smoking Exacerbates the Risk of Small for Gestational Age in Hypertensive Pregnant Women.** Kerri Fitzgerald, Jinwen Cai, Gerald L. Hoff, Paul C. Dew, Felix A. Okah. *Publication 8075.2*
- 8:30 * Exposure to Movie Smoking among U.S. Adolescents Aged 10-14: A Population-Based Estimate.** Auden McClure, James Sargent, Jennifer Gibson, Susanne Tanski. *Publication 8075.3*
- 8:45 The Impact of Cyberspace on Teen and Young Adult Social Networks.** Jonathan D. Klein, Caryn GraffHavens, Randall S. Thomas, Kathleen Wania, Grant Morris. *Publication 8075.4*
- 9:00 Can the CRAFFT Questions Identify Adolescents Engaging in High Risk Sexual Activity?** Sharon Levy, Lydia Shrier, Lon Sherritt, John R. Knight. *Publication 8075.5*
- 9:15 * Maternal Factors and Risk of Late Preterm Delivery.** Jessica L. Kalia, Paul Visintainer, Jordan Kase, Heather L. Brumberg. *Publication 8075.6*
- 9:30 * Childhood Cancer Incidence Is Not Higher in Hispanic Children Who Live in the Rio Grande Valley of South Texas.** Amy R. Spelman, M. Fatih Okcu, Joseph S. Nichols, Melissa L. Bondy. *Publication 8075.7*
- 9:45 Racial Disparity and Excess Deaths among Black Infants: Still in the Non-Supine Position for Sleep.** E.R. Colson, L.A. Smith, T. Colton, G. Lister, D. Rybin, M.J. Corwin. *Publication 8075.8*

8:00am–10:00am

8130A Global Childhood Diseases Which Can Impair Development—Part I PGPR Symposium ~ TCC, Room 701A

Target Audience: Researchers and clinicians interested and/or involved in all aspects of the study of childhood diseases which can impair development, and outcome research relating to long-term follow-up of children who have been affected by disease, in any setting.

Objective:

- Participants should be better able to understand childhood diseases in developing countries that can impair development, what research is being done and what research needs to be done

Chairs: Zulfiqar Bhutta, The Aga Khan University, Karachi, Pakistan; and Alvin Zipursky, The Programme for Global Paediatric Research, The Hospital for Sick Children, Toronto, Ontario, Canada

The Programme for Global Paediatric Research (PGPR) includes paediatric researchers, societies, and other organizations committed to child health. It was formed in January 2004 to address the disparity between the scientific research resources available in high-income countries and the quantity of scientific research focused on the health of children in mid- and low-income countries. PGPR works at the centre of a global network to inform, educate and facilitate international research cooperation and collaboration, and acts as an advocate for research to improve the health of all children.

This three-part symposium will focus on childhood diseases in mid- and low-income countries which can impair development.

Parts 1 and 3 will be comprised of expert presentations providing an overview of such diseases, instances of work being done to help children and region-specific information. Part 2 will feature platform presentations from selected abstracts on the topic of global childhood diseases which can impair development.

At the related PGPR workshop on May 9 colleagues from high-, mid-, and low-income countries will meet in order to examine the critical issues and establish clear plans for collaborative study and other action regarding research into outcomes for children in mid- and low-income countries who have been affected by disease.

8:00 Introduction – Including an Overview of Factors Affecting Child Development in Developing Countries

Sally Grantham McGregor, Centre for International Child Health, London, UK

8:30 The Challenge of Neurodevelopmental Outcomes Among High Risk Children in Developing Countries

Naila Zaman Khan, Dhaka Shishu (Children's) Hospital, Dhaka, Bangladesh

9:00 The Legacy of Childhood Malnutrition in Barbados: 35 Years Later

Janina R. Galler, Boston University School of Medicine, Boston, MA

9:30 Micronutrient Deficiencies and Child Development in Developing Countries

Maureen Black, University of Maryland, Baltimore, MD

8:00am–12:00pm

8135 Preventing Child Abuse: Is There Evidence that Anything Really Works?

PAS Topic Symposium ~ TCC, Room 716A

Target Audience: Clinicians and researchers seeking to understand, implement and evaluate child abuse prevention programs.

Objectives:

Participants will learn about

- New research and implementation of shaken baby prevention programs
- Strategies for clinicians to prevent physical and sexual violence
- New response to infant crying available for parents
- What home visiting programs can and cannot do to prevent maltreatment

Chair: Vincent J. Palusci, Children's Hospital of Michigan, Detroit, MI

Several paradigms have been proposed to prevent child abuse and neglect, yet evidence supporting many efforts is lacking, or at best, limited. Home visiting, nurse-family partnerships, school-based bullying programs, sexual abuse education, infant crying/SBS education for new parents, and several other parenting programs have all offered opportunities to reduce or eliminate one or more types of maltreatment, yet clinicians and researchers need more information to understand their aims, target populations and expected outcomes. This session will discuss the public health approach to prevention and review the available evidence to answer practical questions for the clinician and researcher seeking to implement and replicate 'proven' child abuse prevention strategies in their community.

8:00 Prevention of Violence and Physical Abuse

Robert D. Sege, Tufts-New England Medical Center, Boston, MA

9:00 Home Visiting

David L. Olds, University of Colorado, Denver, CO

10:00 Preventing Abusive Head Injuries Through Hospital Based Parent Education

Mark S. Dias, Penn State University College of Medicine, Hershey, PA

11:00 Framing SBS Prevention by Infant Development: The Period of PURPLE Crying

Ronald G. Barr, Child and Family Research Institute, University of British Columbia, Vancouver, BC, Canada

Sponsored jointly by the American Academy of Pediatrics Section on Child Abuse, American Professional Society on the Abuse of Children and the Pediatric Academic Societies

8:00am–5:00pm

8137 Educational Scholars Program, 2007

PAS Workshop ~ TCC, Room 709

Chair: Constance D. Baldwin, University of Rochester, Rochester, NY

This is an annual education and networking session for scholars who have been admitted to the PAS Educational Scholars Program.

8:00 Welcome/Orientation

Constance Baldwin, University of Rochester, Rochester, NY

David M. Keller, University of Massachusetts Medical School, Worcester, MA

Jeffrey M. Kaczorowski, University of Rochester, Strong Memorial Hospital, Rochester, NY

9:00 Program Evaluation

Wanessa Risko, Children's Hospital, Boston, MA

Dorene Balmer, The Children's Hospital of Philadelphia, Philadelphia, PA

Larrie W. Greenberg, The George Washington School of Medicine, Washington, DC.

12:00 Lunch, Project Discussions

Latha Chandran, State University of New York at Stony Brook, Stony Brook, NY
Jeffrey M. Kaczorowski, University of Rochester, Strong Memorial Hospital, Rochester, NY

2:00 Instructional Strategies

Daniel Rauch, New York School of Medicine, New York, NY
Maryellen E. Gusic, Pennsylvania State University College of Medicine, Hershey, PA
David M. Keller, University of Massachusetts Medical School, Worcester, MA

8:45am–11:45am

8138 An Introduction to Child Health Systematic Reviews: The Cochrane Collaboration

PAS Workshop ~ TCC, Room 206E

Target Audience: All levels welcome.

Objective:

- Confidence with doing a Cochrane systematic review

Leader: Terry Klassen; Co-leaders: Martin Offringa, Virginia Moyer

This will be a highly interactive, hands-on, fun workshop that will save you time and effort, and will foster the successful publication of your child-relevant systematic reviews in the Cochrane Library. The teachers will take you through to the process of doing a Cochrane review. At each step of the process, we will cover not only the mechanics of doing the review itself, but will include a brief session on the requirements of The Cochrane Collaboration, and how Cochrane Review Groups can assist authors with getting reviews done. The participants will be divided into small groups; there will be a teacher for each group.

8:45am–11:45am

8140 Decreasing Parallel Play in the Medical Home: Improving PCP-Specialist Communication Using a QI Approach

PAS Workshop ~ TCC, Room 802A

Target Audience: Faculty and organizational leaders interested in system changes to benefit CYSHCN.

Objectives:

- Discuss the impact of PCP-specialist communication on clinical outcomes
- Name three elements of a "communication change package" useful for improvements in participants' institutions
- Name two system changes that participants can test upon return to their institution to improve PCP-specialist collaboration

Leader: Christopher Stille; Co-leaders: Jennifer Marks, Lawrence Vogel

Communication between primary care (PCP) and specialty physicians is often difficult in the co-management of children and youth with special health care needs (CYSHCN). The American Academy of Pediatrics and the Shriners Hospitals for Children (SHC) have developed a 7-element quality improvement (QI) "change package" to improve communication, based on a project in one SHC hospital in 2005-6. After a brief discussion of the intervention and a brief tutorial on QI techniques, we will discuss cases provided by participants from their own institutions, working with them to adapt existing change package elements to improve communication in their own practice setting. Leaders will also provide resources and tools to facilitate communication improvements.

8:45am–11:45am

8144 I Can Do That! Preparing Residents to Perform Minor Procedures

PAS Workshop ~ TCC, Room 205B

Target Audience: Residents and all levels of faculty likely to perform or teach common minor procedures.

Objectives:

- Develop simple, effective practice models for teaching minor procedures
- Develop competence with teaching and using the latest equipment
- Reduce the need for outside consultants

Leader: John Loiselle; Co-leaders: Joel Fein, Magdy Attia, Jonathan Bennett, Joseph Zorc, Nicolas Tsarouhas

This workshop will convey specific techniques and instruction methods for minor office procedures. This hands-on workshop will demonstrate skills and afford practice as participants rotate through the following stations: 1) New concepts in wound repair- tissue glue, staples; 2) Remove foreign bodies from ears, nose, eyes; reimplant an avulsed tooth; 3) Troubleshoot gastrostomy tube and tracheostomy complications; 4) Skin extractions: fishhook, subungual hematomas, hair tourniquet; 5) Vascular access: intraosseous infusions; new needleless systems and safety devices for IV; 6) Genital issues: paraphimosis, zipper entrapment, rectal prolapse; 7) Workshop leaders will underscore the importance of learning technical skills in pediatrics. Participants should become adept at several procedures and will be able to teach them to others.

8:45am–11:45am

8146 Insider Tips on Career (K) Awards at the NICHD/NIH

PAS Workshop ~ TCC, Room 705

Target Audience: Postdoctoral fellows, junior, midlevel, and senior researchers.

Objectives:

- Learn about the types of career awards available at the NICHD/NIH – Learn about the NIH review process
- Meet and interact with NICHD program and review staff members, and grantees

Leader: Lynne Haverkos; Co-leaders: Marita Hopmann, Howard Bauchner, Eliana Perrin, Marita Hopmann, Whitney Witt

This educational workshop will begin with a didactic session describing career (K) awards and the application process at the National Institute of Child Health and Human Development. Insider tips will be provided on the grant review process, on strategies to select an appropriate K award (or research project grant), and on ways to structure the application or resubmission. Interact with NICHD program and review staff members, and current career awardees. Ask questions that are relevant to your career development. Come, listen, learn, and leave prepared to seek NIH funding.

Designed to meet elements of the core curriculum for pediatric fellowship subspecialty training.

8:45am–11:45am

8148 Neonatal and Pediatric Emergencies: Management of Sudden Collapse Using High Fidelity Patient Simulation

PAS Workshop ~ TCC, Room 704

Target Audience: Emergency room staff, pediatricians, transport team members, RNs, RRTs.

Objectives:

- Understand the common causes of sudden collapse in neonatal & pediatric patients
- Understand the management decisions required in neonatal & pediatric emergencies and be able to implement them in a timely fashion
- Recognize the need for urgent transport to tertiary/quaternary care and initiate steps in stabilization prior to transport

Leader: Kyong-Soon Lee; Co-leaders: Kristin Comar, Patrick McNamara, Hilary Whyte, Kevin King, Angelo Mikrogianakis, Andrea Farkas, Lorraine Henderson

This workshop will provide a hands-on opportunity for practitioners to work through a variety of scenarios and practice their skills. In addition to dealing with the initial steps of resuscitation in the neonate or child who presents in extremis, there will also be an opportunity to discuss diagnosis and ongoing management of these children in a moulage setting and through the use of patient simulators. Topics such as late presentation of congenital heart disease, overwhelming sepsis, trauma, and respiratory emergencies will be discussed. This session will prepare the practitioner to obtain vascular access, treat hypoglycemia, review support drugs, perform emergency thoracentesis and chest tube insertion, and attain hemodynamic stability. Additionally, this workshop will focus on pre-transport stabilization and will provide the practitioner with guidelines as to when the transport team should be called for assistance with both stabilization and transport.

8:45am–11:45am

8150 Produce, Present, Publish—Do Not Perish! An Interactive Workshop for Clinical Researchers and Statistical Consultants

PAS Workshop ~ TCC, Room 711

Target Audience: Student, residents, junior faculty, and mid-level/senior faculty.

Objective:

- Provide tools and strategies to develop and sustain successful collaborations with statistical consultants that result in scientific and professional success

Leader: Jennifer Marsh; Co-leaders: Ivor Horn, Maureen Lyon

At academic medical centers, faculty development depends on funding, research productivity, and publications. Collaborations are a key tool for achieving academic success. Working with a statistical consultant can be a rewarding and intellectually challenging experience. This interactive workshop will use a case-based format to discuss consultant collaboration. Participants, including trainees, junior faculty, and mid-level/senior faculty, will discuss 3 topics: 1) Establishing achievable goals for collaborative relationships with statistical consultants; 2) Working effectively with consultants to plan and implement research ideas and adequately fund studies; and 3) Identifying and responding to collaborative challenges and difficulties.

8:45am–11:45am

8152 Reducing Errors in Ambulatory Pediatrics

PAS Workshop ~ TCC, Room 206F

Target Audience: Trainees, fellows and all levels of faculty interested in teaching, implementation, and research in medical error reduction in ambulatory pediatrics.

Objectives:

- Understand types and reasons for medical errors in ambulatory pediatrics
- Learn about effective models and practical approaches to reduce errors in this setting
- Gain knowledge about research needs and methods in this area

Leader: Daniel Neuspiel; Co-leaders: Julie Johnson, Rainu Kaushal, Donna Woods

Faculty will discuss epidemiology of errors in ambulatory pediatrics, experience with effective clinical models to reduce them, and research needs and methods in this area. Participants will then join small groups to design either an implementation or research project in this area. The workshop will conclude with reports from small groups and discussion.

8:45am–11:45am

8154 Responding to Unprofessional Behavior and Promoting the Growth and Development of Professionalism of Medical Students

PAS Workshop ~ TCC, Room 206A

Target Audience: All faculty (all levels) plus residents who supervise medical students.

Objectives:

- Learn a model/tool to respond to unprofessional behavior that promotes the growth of professionalism in students
- Acquire sufficient knowledge and skills to use the model/tool in your own clerkship

Leader: Paula Algranati; Co-leader: Lindsey Lane

Clerkship directors encounter unprofessional behaviors in medical students. Participants will discuss and reflect on ways they and colleagues respond to unprofessional behavior. We will describe a framework that acknowledges the developmental process by which medical students acquire moral and professional attributes and will present a model/tool to respond to unprofessional behaviors in a way that promotes the professional growth and development of students. Participants will apply our model to real cases in large and small group discussion and role-play and, will leave with knowledge, skills and confidence to use our model/tool in their own clerkships.

8:45am–11:45am

8156 Teaching and Learning the Business of Medicine: Designing an Effective Practice Management Curriculum for Residents

PAS Workshop ~ TCC, Room 206B

Target Audience: Residents and faculty, at all levels, who are interested in teaching and learning practice management.

Objectives:

- Participants will review ACGME guidelines for competency in practice management
- Participants will explore the literature that documents residents' perceptions and understanding of the business of medicine
- Participants will develop strategies to implement a resident curriculum for practice management and develop tools to assess competency in this realm

Leader: Elaine Schulte; Co-leaders: Maryellen Gusic

Although the Accreditation Council for Graduate Medical Education requires that pediatric residents receive training in practice management, the literature suggests that residents believe they do not receive the appropriate amount of exposure to this topic. This workshop is designed to help participants develop a teaching curriculum and to integrate teaching about practice management into the daily operations of a busy resident continuity practice. Participants will work in small groups to explore innovative teaching strategies and to develop objective criteria and evaluation tools to assess resident competency in practice management.

8:45am–11:45am

8158 Teaching Effective and Efficient Physician Sign-out

PAS Workshop ~ TCC, Room 206C

Target Audience: Student, residents and faculty interested in improving patient care hand-offs to improve communication and patient safety.

Objectives:

- Learn how to assess patient sign-outs
- Learn methods to teach sign-out Learn how to use technology to enhance sign-out

Leader: Stephen M. Borowitz; Co-leader: Linda A. Waggoner-Fountain; Panelists: Sara D. Walker, Jeremy Middleton

Since failures in communication account for most medical mishaps, it is critical to teach physicians how to effectively & efficiently sign-out to promote safe & effective patient care. After this workshop, participants will be able to evaluate the

effectiveness of sign-out, identify opportunities to improve sign-out, teach physicians to effectively & efficiently sign-out, assess effectiveness of changes made to sign-out processes, & identify computer technologies that may enable sign-out including web-based databases promoting cooperative documentation & creation of sign-out worksheets & daily progress notes.

8:45am–11:45am

8160 Telemedicine and its Applications in Pediatrics: Improving Quality and Addressing Access Barriers

PAS Workshop ~ TCC, Room 205D

Target Audience: Specialists at referral centers interested in telemedicine, practitioners in remote facilities particularly in rural and/or underserved communities, as well as for hospital and program administrators interested in telemedicine.

Objectives:

- Understand the basic technology involved in telemedicine
- Understand the use of telemedicine in the inpatient and outpatient settings
- Recognize the alternative applications of telemedicine

Leader: Kouros Parsapour; Co-leader: James Marcin; Panelists: Anita Moon-Grady, Kristen J. MacLeod, Jaun C. Trujano, Ulfat Shaikh

This workshop will provide an overview of telemedicine and demonstrate its utility in the care of pediatric patients in various settings. Interactive lectures will be given on the critical components of a successful telemedicine program. Examples, such as video clips of consultations and interviews with parents and providers will be shown to provide an understanding of telemedicine consultations from various perspectives. A step-by-step process will be laid out to help participants evaluate the possibility of using telemedicine for their services. Discussions will also focus on the effects of telemedicine on quality of care, financial viability, sustainability, and benefits to rural communities.

8:45am–11:45am

8162 When the Honeymoon Ends: Strategies for Junior Faculty

PAS Workshop ~ TCC, Room 205A

Target Audience: Junior faculty and fellows interested in careers in academic medicine.

Objectives:

- Identify the challenges of the early phase of an academic career and recommended strategies for these challenges
- To present scenarios and roadblocks that can affect junior faculty and develop solutions and strategies for success

Leader: Elena Fuentes-Afflick; Co-leader: Shari Barkin

The early phase of a junior faculty member's career can be a complex amalgamation of opportunities and challenges. After the initial honeymoon, what happens after a junior faculty member's start-up package has been exhausted? During this vulnerable period, many faculty members face competing priorities such as grant and manuscript submissions, clinical work, and teaching responsibilities. This workshop will identify common challenges and generate potential strategies and solutions. The first half of the session will focus on elements of successful academic careers: 1) assembling a productive team; 2) responding to changes and transitions; 3) identifying meaningful mentors; and 4) establishing a manageable timeframe. During the second half we will form small groups to discuss common dilemmas and develop potential strategies and solutions.

8:45am–11:45am

8164 Writing a Scientific Paper

PAS Workshop ~ TCC, Room 707

Target Audience: Residents, clinical fellows, post-doctoral fellows, and junior faculty.

Objectives:

- Review the principles of critical evaluation
- Discuss the principles of clear writing
- Discuss the organization of a clear scientific manuscript

Leader: Kurt H. Albertine

This workshop will provide practical guidance for writing a clear scientific paper. Emphasis will be placed on concepts about principles, composition, and organization. The objectives are to review the principles of critical evaluation, discuss the principles of clear writing, and discuss the organization of a clear scientific paper. The approach will be lecture, discussion, question-and-answer, critique of examples of scientific writing. Principles of critical evaluation will be discussed. Guidance will be provided about grammar, composition, and organization.

Designed to meet elements of the core curriculum for pediatric fellowship subspecialty training.

8:45am–11:45am

8166 You CAN Do Research Within Your Continuity Clinics: A CORNET Primer

PAS Workshop ~ TCC, Room 810

Target Audience: Faculty who supervise residents within continuity clinics who are interested in doing clinical and educational research.

Objectives:

- Gain an understanding of the structure and function of CORNET
- Gain an understanding of the process of conducting research in continuity clinic settings

Leader: William Stratbucker; Co-leaders: Janet Serwint, Sue Feigelman, Nui Dhepyasuwan, Scott Krugman, John Olsson

CORNET, the Continuity Research Network of the APA's Continuity SIG, has as its mission to provide a framework for the completion of clinical and educational research within the pediatric resident continuity clinic setting. Come see how rewarding and easy it can be for you and those within your continuity clinic to be a active participant in research projects within CORNET. Research ideas generated by the group will be used in small group collaborative sessions focusing on the role of the site leader, practical office-based study design and motivating office staff and residents. Be prepared with your ideas for a project within your own continuity clinic and meet others who have the same interest!

8:45am–11:45am

8172 Health Services Research IV

APA Special Interest Group ~ TCC, Room 809

Chair: Lawrence C. Kleinman, kleinman@qmresearch.com

8:45am–11:45am

8174 Obesity

APA Special Interest Group ~ TCC, Room 205C

Chairs: Jennifer Bass, yenbass@aol.com; and Sandra Hassink, shassink@nemours.org

Treatment of Childhood Obesity: A discussion of some of the key components of successful treatment.

The session will lead off with a presentation focused on understanding family based systems in context of obesity treatment. There will also be a more in depth look at the group of morbidly obese adolescents and the considerations for bariatric surgery, including the evaluation process and treatment. Each didactic session will follow with an interactive panel discussion of interesting and challenging cases submitted by SIG members.

8:45am–11:45am

8176 Quality Improvement

APA Special Interest Group ~ TCC, Room 206D

Chairs: David Link, david_link@hms.harvard.edu; and Daniel Neuspiel, dneuspie@chpnet.org

The Quality Improvement SIG is pleased to announce an exciting meeting in Toronto, on Tuesday, May 8, from 8:45-11:45 a.m. Our main speaker will be Doug Opel from the University of Washington, who will be speaking to us about ethical issues in quality improvement work, including the role of Institutional Review Boards, "The Ethics of Quality Improvement: Provider Obligations and the Role of External Oversight". Other discussion will include updates on SIG activities and plans for the future.

10:00am–12:00pm

8200A Pediatric Dialysis—Not Just Little Adults

ASPN Workshop ~ TCC, Room 713AB

Target Audience: Pediatric nephrologists, trainees, pediatric nephrology nurse practitioners.

Objectives:

- Define the clinical measures that will be used to determine reimbursement for pediatric dialysis procedures
- Identify the utility of fistulas as vascular access in the pediatric hemodialysis population
- Identify the nutritional needs of the child receiving dialysis
- Recognize various dialysis management styles while maintaining financial solvency in a pediatric dialysis unit

Chairs: Kevin McBryde, Children's National Medical Center, Washington, DC; and Hiren P. Patel, Children's Hospital, Columbus, OH

The goal of this workshop is to review current adult guidelines in the management of patients with CKD and examine their applicability to pediatrics. With the introduction of pay for performance and the lack of pediatric specific guidelines, the question of which standards pediatric nephrologists should be held accountable for lingers. Many pediatric nephrologists have

argued that these guidelines are not applicable to children; however, the data must be examined to determine what specific guidelines should be used to manage pediatric nephrology patients. Also discussed will be ancillary services that should be considered in dialysis units such as recreational therapy/child life, tutoring, psychology/psychiatry, echocardiograms, etc. Funding considerations/maximizing profitability will also be discussed.

10:00 Clinical Measures of Adequacy of Dialysis in Children: The Linkage of Quality of Care to Reimbursement of Care

Alicia M. Neu, Johns Hopkins University School of Medicine, Baltimore, MD

10:25 Achieving Vascular Access Goals

Rudolph P. Valentini, Children's Hospital of Michigan, Detroit, MI

10:50 Nutritional Needs of the Child with CKD – The New NIDDK Nutritional Information

Bethany Foster, McGill University, Montreal Children's Hospital, Montreal, Quebec, Canada

11:15 Pediatric Dialysis Utopia: Can It Exist?

Deepa H. Chand, The Children's Hospital at the Cleveland Clinic, Cleveland, OH

11:40 Discussion

Supported by an unrestricted educational grant from Fresenius Medical Care

10:00am–2:00pm

Posters Available for Viewing (Posters only / Exhibits closed)

TCC, Hall E

Posters Available for Viewing: 10:00am–2:00pm

Author Attendance: 12:15pm–2:00pm

10:15am–12:15pm

8205 Making and Fixing the Lung: New Insights into Lung Development, Injury and Repair

PAS State of the Art Plenary ~ TCC, Hall F

Target Audience: Neonatologists, pulmonologists and basic scientists involved in the study/care of patients with acute and chronic lung injury characterized by alveolar damage.

Objectives:

- Understand early genetic signaling underlying normal lung development
- Understand cellular mechanisms of lung development
- Understand how disruption of normal signaling leads to BPD
- Understand how stem or progenitor cell therapy may enhance lung growth and recovery after injury

Chairs: Richard Bland, Stanford University School of Medicine, Stanford, CA; and John Torday, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, CA

This session will focus on new approaches and recent advances in understanding the molecular and cellular events that regulate lung development, the response to lung injury and lung repair, which are especially important in the pathogenesis and treatment of several diseases, such as lung hypoplasia, bronchopulmonary dysplasia and others. Presentations will include: 1) a break-through in defining the genetic program of mammalian lung development; 2) evolving insights into lung cell transformation in development and disease; 3) insights into molecular mechanisms that disrupt normal lung development that lead to BPD; and 4) exploring issues underlying potential stem or progenitor cell treatment to repair lung injury. This program will provide exciting new information that links mechanisms of basic lung development with lung disease in children.

10:15 Elucidating the Genetic Program of Mammalian Lung Development

Mark Krasnow, Stanford University School of Medicine, Stanford, CA

10:45 Current Concepts on Lung Cell Plasticity in Development and Disease

Zea Borok, University of Southern California, Los Angeles, CA

11:15 Molecular Basis of Chronic Lung Disease

Saverio Belluscio, Saban Research Institute of Children's Hospital of Los Angeles, University of Southern California, Los Angeles, CA

11:45 Exploring Stem Cell Treatment to Repair Lung Injury

Bernard Thebaud, University of Alberta, Edmonton, Alberta, Canada

Supported by an unrestricted educational grant from Dey, L.P.

10:15am–12:15pm

8210 Influenza Pandemic Issues

PAS/PIDS Hot Topic ~ TCC, Room 801A

Target Audience: General pediatricians and subspecialists.

Objectives:

- Have a historical understanding of infectious diseases epidemics with a particular emphasis on their impact in children

- Be aware of the infrastructure and public policy implications of pandemic influenza in children
- Have an understanding of the moral and ethical implications of providing care during an influenza pandemic
- Appreciate a physician's obligation and duty to provide care in the setting of a pandemic

Chairs: Philip M. Rosoff and Samuel L. Katz, Duke University Medical Center, Durham, NC

The potential for an avian influenza pandemic raises grave issues of importance for moral decision-making in the practice of clinical medicine. The anticipated shortage of critical resources will have an impact on the ability to save all lives, but will have special poignancy for the very young and the very old. A forthright and honest discussion of the moral dilemmas that will arise from the mismatch between what we would like to do and what we are able to do is both timely and extremely relevant. How we will decide who should live and who should die are profound questions that have implications not only for the potential crisis but for the future as well. An influenza pandemic would also be anticipated to have profound impact on health care delivery and health care economic infrastructure at many levels. This pervasive impact of pandemic influenza on society will also be considered.

10:15 Overview of Lessons from Other Epidemics in Children

Samuel L. Katz, Duke University Medical Center, Durham, NC

10:25 Public Health Ethics in a Pandemic

James C. Thomas, University of North Carolina at Chapel Hill, Chapel Hill, NC

10:50 Moral Decision-Making in an Influenza Pandemic

Philip M. Rosoff, Duke University Medical Center, Durham, NC

11:15 The Duty to Care (Physicians and Caring for Patients)

Ross Upshur, University of Toronto, Toronto, Ontario, Canada

11:40 Setting Priorities for Pandemic Influenza Vaccines: How Do Children Fit

Andrew T. Pavia, University of Utah, Salt Lake City, UT

Sponsored jointly by the Pediatric Infectious Diseases Society and the Pediatric Academic Societies

10:15am–12:15pm

8215 General Pediatrics IV (Health Disparities)

PAS Platform Session ~ TCC, Room 715B

Chairs: Gary A. Emmett and Jill S. Halterman

10:15 The Injurious Burden of Poverty: Analysis of Socioeconomic and Racial/Ethnic Disparities in Injury Rates. Eric Flegler, Peter Forbes, Lois Lee, Karen Olson, David P. Mooney. *Publication 8215.1*

10:30 * Differences in Accessing Sick Care for Children in Latino Families. Lisa R. DeCamp, Michelle Hernandez. *Publication 8215.2*

10:45 Racial and Ethnic Disparities in Preventable Adverse Drug Events among Pediatric Outpatients. Stephanie O. Zandieh, Donald A. Goldmann, Carol A. Keohane, Catherine Yoon, David W. Bates, Rainu Kaushal. *Publication 8215.3*

11:00 Impact of Maternal Language on Infant Hospitalizations for Bronchiolitis. A. Bialostozky, F. Mukarakate, R. Enriquez, M. Griffin, P. Minton, K. Woodward, K. Carol, T. Hartert. *Publication 8215.4*

11:15 * Is Caregiver Depression Associated with Children's ADHD Symptoms and Overall Functioning? Laura C. Bauer, James P. Guevara, David Mandell, Thomas Power, Jacqueline Grupp-Phelan. *Publication 8215.5*

11:30 * Literacy in At-Risk Mothers of Young Infants: A Mediating Factor in Parenting Attitudes and Developmental Stimulation. Cori M. Green, Samantha B. Berkule, Benard P. Dreyer, Arthur H. Fierman, Harris S. Huberman, Perri Klass, Leyla Almanza-Peek, Virginia Flynn, Alan L. Mendelsohn. *Publication 8215.6*

11:45 Weight and Lifestyle Improvement in an Open Access Family Weight Management Program (FWMP) for Inner City Youth. Adriana E. Groisman-Perelstein, Pamela M. Diamantis, Martha L. Seminatore, Cindy Sizemore, Lydia Vazquez, Ellen J. Silver, Carmen R. Isasi. *Publication 8215.7*

12:00 Can Telemedicine for Children in Inner-City Child Care Be Integrated in the Primary Care Medical Home? Kenneth M. McConnochie, Neil E. Herendeen, Nancy E. Wood, Larry Denk, Cynthia B. tenHooopen, Judith S. Neuderfer. *Publication 8215.8*

10:15am–12:15pm

8220 Infectious Diseases III

PAS Poster Symposium ~ TCC, Room 801B

Viewing: 10:15am–10:45am

Discussion: 10:45am–12:15pm

Chairs: Judith R. Campbell and Anne H. Rowley

1* The Response of Preterm Infants to the Conjugate Pneumococcal Vaccine (7VCPnc) When Immunised at 2, 3 and 4 Months of Age. Samantha J. Moss, Alan C. Fenton, Jenny Toomey, Angela Grainger, Julie Smith, Andrew R. Gennery. (Sponsored by Richard Cooke) *Publication 8220.1*

- 2 **Further Evaluation of the Immunogenicity of a Vaccine Candidate Against *Helicobacter pylori*.** Rodolfo E. Begue, Alyson Moll. *Publication 8220.2*
- 3* **(Withdrawn) Murine Model To Study Invasion of the CNS by *Mycobacterium tuberculosis*.** Nicholas A. Be, Jacques Grosset, Sandeep Tyagi, Kwang S. Kim, William R. Bishai, Sanjay K. Jain. *Publication 8220.3*
- 4* **Over-Expression of Innate Immunity and Suppression of B and T Cell Responses Define the Transcriptional Profiles Induced by Acute *Staphylococcus aureus* (SA) Infections.** M. Ardura, A. Mejias, E. Torres, J. Banchereau, D. Chaussabel, O. Ramilo. *Publication 8220.4*
- 5 **The *VraS/VraR* Two-Component Regulatory System Required for Methicillin Resistance in Community-Acquired Methicillin-Resistant *Staphylococcus aureus*.** Susan Boyle-Vavra, Shaohui Yin, Robert S. Daum. *Publication 8220.5*
- 6 **Six Years of Surveillance of Streptococcal Pharyngitis *emm* Types and Macrolide Resistance in North America.** Stanford T. Shulman, Robert R. Tanz, William Kabat, Kathleen Kabat, Bernard Beall, James B. Dale. *Publication 8220.6*
- 7* **Disease Manifestations in Young and Elderly Mice Infected with Pneumonia Virus of Mice.** Nicholas J. Bennett, Cynthia A. Bonville, Caroline M. Percopo, Helene F. Rosenberg, Joseph B. Domachowske. *Publication 8220.7*
- 8* **Mice Inoculated with Live Respiratory Syncytial Virus (L-RSV) but Not Inactivated RSV Demonstrate Long-Term RNA Persistence and Pulmonary Function Abnormalities.** Dora Estripeaut, Cynthia Somers, Asuncion Mejias, Steve Grube, Aneta Wozniakowski, Ana Gomez, Irene Mate, Qamar Zaman, Octavio Ramilo, Hasan S. Jafri. *Publication 8220.8*
- 9 **Phase 3 Trial of Motavizumab (MEDI-524), an Enhanced Potency Respiratory Syncytial Virus (RSV) Specific Monoclonal Antibody (Mab) for the Prevention of Serious RSV Disease in High Risk Infants.** Xavier Carbonell, Losonsky Genevieve, Hultquist Micki, Connor Edward, the Motavizumab Study Group. *Publication 8220.9*
- 10* **CMV Infection Has a Pro-Inflammatory, 'Priming' Effect on Endothelium.** T.D. Soltau, M. Fallon, R.P. Patel, L. Tang, W.W. Andrews, W.J. Britt, A. Maheshwari. *Publication 8220.10*
- 11* **Human Papillomavirus Genotypes in Adolescents with Atypical Cervical Cytology.** Roshan P. George, Dorothy L. Rivette, Janice M. Matthews-Greer, Joseph A. Bocchini. *Publication 8220.11*
- 12 **Pathophysiology of Fatal *Bordetella pertussis* Infection in Infants.** Christopher D. Paddock, Claire Langston, Anthony A. Gal, Sherif R. Zaki, James D. Cherry. *Publication 8220.12*

10:15am–12:15pm

8225 Neonatal Randomized Clinical Trials 2

PAS Platform Session ~ TCC, Hall G

Chairs: De-Ann M. Pillers and Seetha Shankaran

- 10:15 **Prenatal Magnesium Sulfate (MgSO₄) and Follow up at Two Years of Age in Preterm Infants: The Randomised Controlled PREMAG Trial.** Stephane Marret, Loic Marpeau, Dominique Astruc, Gilles Cambonie, Christelle Follet, Jacques Benichou. (Sponsored by Pierre Gressens, Sr) *Publication 8225.1*
- 10:30 **Clonidine in Combination with Diluted Tincture of Opium (DTO) Versus DTO Alone for Opioid Withdrawal in Newborn Infants: A Blinded Randomized Clinical Trial.** Alexander G. Agthe, Kay B. Mathias, Craig W. Hendrix, Lauren Jansson, Myron Yaster, Tamorah R. Roark, Estelle B. Gauda. *Publication 8225.2*
- 10:45 **Does Conditioning Influence the Effectiveness of Repeated Administration of Sucrose in Newborn Infants?** Anna Taddio, Vibhuti Shah, Derek Stephens, Arne Ohlsson, Bonnie Stevens, Joseph Beyene, Joel Katz. *Publication 8225.3*
- 11:00 **The Effects of Two Different Doses of Amino Acid Administration on Growth and Blood Amino Acids in Premature Neonates Admitted to the NICU: A Randomized Controlled Trial.** Reese H. Clark, Donald H. Chace, Alan R. Spitzer, The Pediatrix Amino Acid Study Group. *Publication 8225.4*
- 11:15 **Multicenter, Randomized Trial on Prophylactic Fluconazole in Preterm Neonates in NICU.** Paolo Manzoni, I. Stolfi, L. Pagni, L. Decembrino, D. Farina. (Sponsored by David A. Kaufman) *Publication 8225.5*
- 11:30 **Incidence and Severity of Retinopathy of Prematurity (ROP) Is Reduced in Extremely Low Gestational Age (GA) Newborns (ELGANS) Treated with Recombinant Human Cu/Zn Superoxide Dismutase (rhSOD).** Richard B. Parad, Elizabeth Allred, Warren Rosenfeld, Jonathan Davis, the North American rhSOD Study Group. *Publication 8225.6*
- 11:45 * **Significant Risk Factors Affecting School-Readiness for Premature Infants.** Athena I. Patrianakos, Michael E. Msall, Jeremy D. Marks, Dezheng Huo, Michael D. Schreiber. *Publication 8225.7*
- 12:00 **Use of Nasal Ventilation (NV) Is Associated with Significantly Decreased Bronchopulmonary Dysplasia (BPD) and/or Death in Babies of 500-750 Grams Birth Weight (BW).** Vineet Bhandari, Neil N. Finer, Richard A. Ehrenkranz, NICHD on Behalf of the Benchmarking Subcommittee of the Neonatal Research Network (NRN). *Publication 8225.8*

10:30am–12:30pm

8315 Global Childhood Diseases Which Can Impair Development—Part II

PAS/PGPR Platform Session ~ TCC, Room 701A

Chairs: Chifumbe Chintu and Shoo K. Lee

- 10:15 Childhood Disability in Low and Middle Income Countries: A Review.** Pallab K. Maulik, Gary L. Darmstadt.
Publication 8315.1
- 10:30 The Impact of Emollient Therapy during the Neonatal Period on Neurodevelopmental Outcomes.** Summer Rosenstock, Naila Z. Khan, Humaira Muslima, Nasreem Begum, Shamim Ferdous, Yoonjoung Choi, Gary L. Darmstadt.
Publication 8315.2
- 10:45 Perinatal Outcomes in India: A Community-Based Study.** S.S. Goudar, V.D. Patil, E.M. McClure, S.M. Dhaded, LL Wright, W.A. Carlo.
Publication 8315.3
- 11:00 Long-Term Cognitive Impairment in Children with Cerebral Malaria.** Chandy C. John, Paul Bangirana, Robert O. Opoka, Justus Byarugaba, Richard Idro, Baolin Wu, Anne M. Jurek, Michael J. Boivin. *Publication 8315.4*
- 11:15 Follow up for 12-15 Months of Children Resuscitated at Delivery with 21% or 100% Oxygen.** Adrian Ioan Toma, Dinu Florin Albu, Ruxandra Mitu, Eugen Matu. *Publication 8315.5*
- 11:30 Utilization of a Culturally Relevant Milestone Chart for Children in Underdeveloped Areas.** Alfred L. Scherzer.
Publication 8315.6
- 11:45 Ventilation of Late Preterm Neonates at Birth: A Brazilian Prospective Multicenter Study.** Ruth Guinsburg, M. Fernanda B. de Almeida, Jose O. da Costa, Leni M. Anchieta, Lincoln M.S. Freire, Dioclecio Campos, Jr, Brazilian NRP Investigators.
Publication 8315.7
- 12:00 Admission Hypothermia Predicts Neonatal Mortality in a Low Resource Setting.** Yvonne E. Vaucher, Margaret Nakakeeto.
Publication 8315.8

10:30am–12:30pm

8315 Global Childhood Diseases Which Can Impair Development—Part II

PAS/PGPR Platform Session ~ TCC, Room 701A

Chairs: Chifumbe Chintu, University of Zambia, Lusaka, Zambia; and Shoo Lee, University of Alberta, Edmonton, Alberta, Canada

The Programme for Global Paediatric Research (PGPR) includes paediatric researchers, societies, and other organizations committed to child health. It was formed in January 2004 to address the disparity between the scientific research resources available in high-income countries and the quantity of scientific research focused on the health of children in mid- and low-income countries. PGPR works at the centre of a global network to inform, educate and facilitate international research cooperation and collaboration, and acts as an advocate for research to improve the health of all children.

This three-part symposium will focus on childhood diseases in mid- and low-income countries which can impair development. Parts 1 and 3 will be comprised of expert presentations providing an overview of such diseases, instances of work being done to help children and region-specific information. Part 2 will feature platform presentations from selected abstracts on the topic of global childhood diseases which can impair development.

At the related PGPR workshop on May 9 colleagues from high-, mid-, and low-income countries will meet in order to examine the critical issues and establish clear plans for collaborative study and other action regarding research into outcomes for children in mid- and low-income countries who have been affected by disease.

12:15pm–2:00pm

8400 Poster Session IV

TCC, Exhibit Hall E

Author Poster Set Up: 7:30am–10:00am

Poster Removal: 2:00pm–2:30pm

Available for Viewing: 10:00am–2:00pm

Author Attendance: 12:15pm–2:00pm

General Pediatrics

8400 Obesity

- 1 Treating Obesity in Primary Care.** Ellen R. Wald, Stacey C.L. Moyer, Jens C. Eickhoff, Linda J. Ewing.
Publication 8400.1
- 2 Developing a Curriculum for Primary Care Providers (PCPs) To Reduce Risk for Childhood Obesity among a Somali Population.** Suzinne Pak-Gorstein, Lesley Steinman, Elinor Graham, Aliya Haq, Donna Johnson, Gina Keppel, Paul Spicer, Mark Doescher.
Publication 8400.2

- 3* **3 Month Assessment Following Intensive Family Based Nutritional Counseling by Physicians and Nutritionist in a Pediatric Obesity Program.** Judy Marshel, Ruby Mehta, Chika Iwuchukwu, Josephine Daniel, Vipin Agarwalla, Rosemarie St. Victor, Sarita Dhuper. *Publication 8400.3*
- 4 **Prevalence of Overweight and At-Risk of Overweight among 2- and 3-Year Old Preschoolers.** Amanda R. Kerr, Carrie Ward, Noreen Clarke-Sheehan, Jan Shacks, Hope Wills, Larry Yin. (Sponsored by Robert Adler) *Publication 8400.4*
- 5 **Evaluation of the Gold Medal Schools Program.** K.K. Clarke, R. Cox, E. Carlson, E. Heap, M. Friedrichs, L.J. Moyer-Mileur, S. Shen, N.L. Mihalopoulos. *Publication 8400.5*
- 6 **Are Primary Care Providers Properly Identifying Obese Children at Risk for Obstructive Sleep Apnea?.** Daniela Levanon, Denise Serebrisky. (Sponsored by Jeffrey C. Gershel)*Publication 8400.6*
- 7 **Perceived Response Efficacy for Four Recommended Obesity Prevention Health Messages among Mothers with Preschool Children.** Ihuoma U. Eneli, John Hayes. *Publication 8400.7*
- 8 **Outcome of a Multi-Disciplinary Hospital/Community Based Lifestyle Modification Program Serving an Inner City High Risk Population.** Sarita Dhuper, Vipin Agarwalla, Sherry Sakowitz, Rosemarie St. Victor, Josephine Daniel, Michelle B. Elliot, Sanjay Arora, Judy Marshel. *Publication 8400.8*
- 9 **An Intervention To Improve Frequency of Growth and Blood Pressure Interpretations and Management of Overweight Patients in a Pediatric Resident Primary Care Clinic.** Chloe E. Rowe, Adolfo J. Ariza, Helen J. Binns. *Publication 8400.9*
- 9A **Widening Gap of Incremental Charges Associated with Obesity as a Comorbidity in Common Pediatric Hospitalizations.** S.J. Woolford, A. Gebremariam, S.J. Clark, M.M. Davis. *Publication 8400.9A*
- 10 **Obesity Risks and Parental Motivations To Make Changes.** Ardis L. Olson, Pamela Lee. *Publication 8400.10*
- 11 **The Elementary School Years: It's Never Too Early To Screen for Obesity.** Michael A. Gittelman, Wendy J. Pomerantz, David Klein, Talicia McNealy, Lauren Frey. *Publication 8400.11*
- 12* **The Effect of Social Influences and Self-Efficacy on Latino Preadolescent's Reported Activity Level.** E. Reynolds, Edward H. Ip, S. Barkin. *Publication 8400.12*
- 13 **Self-Efficacy in Overweight Latino Youth.** G.M. Cohen, E.H. Ip, S. Barkin. *Publication 8400.13*
- 14 **Recognition and Management of Overweight and Obesity at a Residents' Clinic.** Sudipta Misra, Farhan Khan. (Sponsored by Subrata Sarkar) *Publication 8400.14*
- 15* **Change in Prevalence of Overweight in Young Children over 15 Years and Predictive Value of Overweight in Young Children on Weight in Adolescence.** MaryJo Messito, Arthur H. Fierman, Elizabeth Schneider, Alan L. Mendelsohn. *Publication 8400.15*
- 16 **Auxologic and Cardiovascular Outcomes of a Children's Hospital Based Weight Management Program.** Frank Diamond, Kellie Gilmore, Sarah Krieger, Steve Luther, Lisa Simpson. (Sponsored by Dorothy Shulman) *Publication 8400.16*
- 17 **Improvement in Alanine Aminotransferase Levels Seen in Overweight Children with a Decrease in Body Mass Index (BMI) in an Outpatient Weight Management Program.** Maria Sequeira, Karen Young, Chan-Hee Jo, Samiya Razzaq, Deane Peck, Pippa Simpson. *Publication 8400.17*
- 18 **Obesigenic Behaviors of Women Bringing Newborns for Primary Care.** Gina M. French, Theresa Skybo, Lisa M. Murray, Patricia Schwirian, Judith A. Groner. *Publication 8400.18*
- 19 **Youth Knowledge of Unhealthy Lifestyle Choices and Obesity Vary by Gender and Behavior.** H.L. Brumberg, B. Reyna, C. Hunter-Grant, V. Allen, D. Faulkner. *Publication 8400.19*
- 20 **Measuring Effects of Treatment of Overweight Young Children.** J.L. Wiczorek, K.R. Welch, A.J. Ariza, H.J. Binns. *Publication 8400.20*
- 20A **(Moved from Poster Session I, Saturday Poster 149) Mediating Factors and Psychological Effects of Obesity in Children.** Michelle M. Humi, Charles Swencionis, Deborah DeSantis, Susan Beren, Lisa Altshuler. (Sponsored by Steven Shelov) *Publication 5877.1*

840I Nutrition

- 21 **Factors Associated with Successful Breastfeeding in a Developing Country.** Ma. Esterlita T. Villanueva-Uy, Enrique M. Ostrea, Jr, Essie Ann M. Ramos, Patrocinio D. Mateo, Abner M. Hornedo. *Publication 8401.1*
- 22 **Infant Outcomes and Successful Breastfeeding in a Developing Country.** Ma. Esterlita T. Villanueva-Uy, Enrique M. Ostrea, Jr, Essie Ann M. Ramos, Patrocinio D. Mateo, Abner M. Hornedo. *Publication 8401.2*
- 23 **The Effect of Vitamin D Supplementation in Breast-Fed Infants in Korea.** Mi-Jung Kim, Bomi Na, Heunsuk Han, Wonkuk Lee, Younghee Han, Taisun Hyeun. (Sponsored by Soo-Young Pi)*Publication 8401.3*
- 24* **Dietary Diversity and Consumption of Fruits and Vegetables in a Statewide Sample of WIC Infants.** Kristen M. Hurley, Brian C. Merry, Maureen M. Black. *Publication 8401.4*
- 25 **To Breastfeed or Not: How Do Mothers' Feel?.** Cynthia R. Howard, Ann M. Dozier, Carol Podgorski, Cynthia K. Childs, Ruth A. Lawrence. *Publication 8401.5*
- 27* **Breastfeeding and Improved Infant Growth in Laos.** Sayuri Sukigara, Yuho Horikoshi, Erika Kitazato, Keiko Hikino, Nobuaki Michihata, John I. Takayama. *Publication 8401.7*

- 28* **Increasing Breastfeeding Research Capacity in Romania: A Role for Undergraduate Students.** Florin Oprescu, Anne B. Wallis, Razvan Chereches, Alexandra Branzaniuc, Claibourne I. Dungy. *Publication 8401.8*
- 29 **The Association between Iron Deficiency and Febrile Seizures in Childhood.** Dawn S. Hartfield, Jonathan Tan, Jerome Y. Yager, Rhonda Rosychuk, Don Spady, Craig William. *Publication 8401.9*
- 30 **Individual Barriers vs Perceptions of Community Barriers to Breastfeeding.** Ganga L. Srinivas, Lindsay A. Thompson. *Publication 8401.10*
- 31 **Barriers and Facilitators to Prolonged and Exclusive Breastfeeding among Mexican Immigrant Mothers.** Margaret Kersey, Laura Duckett, Mary Story, Diana Cutts. *Publication 8401.11*
- 32* **Caregiver Knowledge and Perception of Iron Deficiency Anemia.** Danielle Goetz, Marina Celanovic, Debra Bogen. *Publication 8401.12*
- 34 **CDC vs. WHO Growth Charts: How Do US and Canadian Infants Fare?.** Nirvarthi Maharaj, Susan H. Mitmesser, Paul W. Ferguson, Carol L. Berseth. *Publication 8401.14*

8402 Immunizations

- 35 **Assessing Extrimmunization among US Children Using Immunization Information Systems.** Laura A. Zimmerman, Diana L. Bartlett, Warren G. Williams, Tammy A. Santibanez, Barbara C. Canavan, Kyle S. Enger. (Sponsored by Jeanne Santoli) *Publication 8402.1*
- 36 **Influenza Vaccination Coverage among Children Aged 6-23 Months, 2005-2006 – Data from Immunization Information Systems.** Laura Zimmerman, Diana Bartlett, Barbara Canavan, Warren Williams. (Sponsored by Jeanne Santoli) *Publication 8402.2*
- 37* **Immunization Rates among Children of Adolescent Mothers.** Makia E. Powers, Joanne Cox, Ronald C. Samuels. *Publication 8402.3*
- 38* **Mothers' Practices and Attitudes Regarding Analgesia during Routine Immunizations.** Jennifer Manley, Leah Potash, Vibhuti Shah, Anna Taddio, Michael Sgro, Moshe Ipp. *Publication 8402.4*
- 39 **Efficacy of a Skin Surface Pressure Device in Reducing Pain during Immunization.** Bruce A. Bernstein, Neil L. Schechter, Frederick J. Bogin, Hillary D. O'Donnell. *Publication 8402.5*
- 40 **Cost-Effectiveness of Cold-Adapted Influenza Vaccine, Trivalent (CAIV-T) in Preventing Influenza in Young Children Attending Daycare Centers.** Kimmie K. Mclaurin, Clare L. Hibbert, Josephine Mauskopf, Pedro A. Piedra, Parthiv J. Mahadevia. *Publication 8402.6*
- 41 **The Impact of Immunization at Sick Visits on Subsequent and Overall Well-Child Care.** Alexander G. Fiks, Robert W. Grundmeier, Lisa M. Biggs, A.R. Localio, Evaline A. Alessandrini. *Publication 8402.7*
- 42 **Distance-Based QI for Immunization Delivery: Feasible? Effective?.** Eric J. Slora, Jennifer M. Steffes, Donna L. Harris, Herbert W. Clegg II, David Norton, Paul M. Darden II, Susan A. Sullivan, Richard C. Wasserman. *Publication 8402.8*
- 43* **Potential Benefit of Accelerating Pertussis Vaccination in Infants.** Myrick C. Shinall, Timothy R. Peters, Yuwei Zhu, Qingxia Chen, Katherine A. Poehling. *Publication 8402.9*
- 44 **Characteristics of Pediatricians Who Plan To Be Early Adopters of Rotavirus Vaccine.** A. Kempe, M.F. Daley, U.D. Parashar, L.A. Crane, B.L. Beaty, S. Stokley, J. Barrow, C. Babel, M.A. Widdowson, J.P. Alexander, S. Berman. *Publication 8402.10*
- 45 **National Survey Assessing Pediatricians' Adoption of New Tdap (Adacel/Boostrix) and MCV4 (Menactra) Vaccines for Adolescents.** David Wood, Karen O'Connor, Maureen Kolasa, Denia Varrasso, Olivia Thomas, Abigail Shefer. *Publication 8402.11*
- 46 **National Survey of Pediatricians' Willingness To Offer Human Papilloma (HPV) Vaccine to Adolescents.** David Wood, Karen O'Connor, Allison Kempe, Denia Varrasso, Maureen Kolasa, Olivia Thomas, Abigail Shefer. *Publication 8402.12*
- 47* **Hospital Utilization and Charges among Children with Influenza – United States, 2003.** F. Hassan, T.C. Lewis, M.M. Davis, A. Gebremariam, K. Dombkowski. *Publication 8402.13*
- 48 **Physician Attitudes Regarding Annual Influenza Vaccination among Children with Asthma.** Kevin J. Dombkowski, Sonia W. Leung, Sarah J. Clark. *Publication 8402.14*
- 49 **Measuring Practice Immunization Rates Quickly, Accurately and Confidentially: A Study from South Carolina Pediatric Practice Research Network (SCPPRN).** Henry M. Lemon, Paul M. Darden. *Publication 8402.15*

8403 Literacy & Communication

- 50 **Assessment of Literacy Orientation of Families in a Reach out and Read Program: Implications for Practice.** Jonna M. McRury, Constance Shriner, Sandra Puczynski. *Publication 8403.1*
- 51 **Parent Depression and Low Health Literacy: Synergistic Risk Factors for Child Health Disparities?.** Lee M. Sanders, Laura P. Shone, Kelly M. Conn, Maria Fagnano, Jill S. Halterman. *Publication 8403.2*
- 52 **Low Maternal Health Literacy: A Risk Factor for Infant Health Disparities?.** L.M. Sanders, V. Franco, F. Ahmed. *Publication 8403.3*

SPR Student Research Award Recipient
Disha Kumar

- 53* **Literacy, Numeracy, and the Pediatric Health Activities Test (PHAT).** Disha Kumar, Lee Sanders, Nicole L. Lokker, Barron L. Patterson, Veronica L. Gunn, Matthew S. Miller, Eliana M. Perrin, Russell L. Rothman. *Publication 8403.4*
- 54 **The Relationship of Parental-Provider Language Concordance and the Quality of Pediatric Primary Health Care.** Alexy Arauz Boudreau, Christina Fluet, Colleen Rueland, Karen Kuhlthau. *Publication 8403.5*
- 55* **Parental Health Literacy and Adherence to a Daily Infant Multi-Vitamin Regimen.** Kari Hironaka, Howard Bauchner, Alan Meyers, Paul Geltman. *Publication 8403.6*
- 57* **Kids on Kids' Health: Creating a Child Health Magazine with Students from an Urban, Multicultural, Low Income Elementary School.** C. Lam, J.F. Huber, M. Porepa, H. Au, C.S. Birken. *Publication 8403.8*

8404 Mental Health/Behavior/Development

- 58 **Barriers for Pediatricians To Identifying Mothers At-Risk for Postpartum Depression.** Craig F. Garfield. *Publication 8404.1*
- 59 **Correlates of Mental Health Consultation and Referral among Primary Care Pediatricians.** James Guevara, Paul E. Greenbaum, David Shera, Laura Bauer, Donald Schwarz. *Publication 8404.2*
- 60 **Practitioner Assessment of Familial Mental Illness.** Susan A. Fisher-Owens, Suma Viswanadha. *Publication 8404.3*
- 61* **Maternal Depression in an At-Risk Population: The Contribution of Low Literacy and Housing and Financial Difficulties.** Cynthia B. Cutler, Samantha B. Berkule, Benard P. Dreyer, Lori A. Legano, Cori M. Green, Harris S. Huberman, Alan L. Mendelsohn. *Publication 8404.4*
- 62 **Maternal Depressive Symptoms: A Closer Look at the Influence of Childhood Experiences.** Esther K. Chung, Leny Mathew, Irma T. Elo, James C. Coyne, Virginia A. Rauh, Jennifer F. Culhane. *Publication 8404.5*
- 63 **What Is Associated with Child Rearing Anxiety in Japan?.** John I. Takayama, Hiroki Mishina, Nao Tsuchida, Reiko Takashima, Shiyu Aizawa, Seiichi Sugama. *Publication 8404.6*
- 64* **Risk Factors for Postpartum Depression and Knowledge of Basic Newborn Care.** Erika Abramson, Deepa Sekhar, Shirley Y. Huang, Mary J. Ward. *Publication 8404.7*
- 65 **ADHD Management in Hispanic and Caucasian Patients from a Large Health Plan.** Eugenio M. Rothe, Huabin F. Zhang, Aylin A. Riedel, Feng Cao. (Sponsored by Harriette Lynn Starr)*Publication 8404.8*
- 66* **Under-Treatment of Minority Children with Attention Deficit Hyperactivity Disorder.** Evelyn Berger, Mary McKay, Jeffrey Newcorn, William Bannon, Danielle Laraque. *Publication 8404.9*
- 67 **Parental Decision Making for Treatment of Their Child with ADHD: A Long and Winding Road.** William Brinkman, Susan Sherman, April Rast, Marty Visscher, Kieran Phelan, Lori Crosby, Edward Donovan. *Publication 8404.10*
- 68 **Parents with High Levels of Comfort with Managing Childhood Aggression Still Benefit from Clinic Intervention.** S.J. Scholer, A.B. Mukherjee, K.I. Gibbs, S.S. Memon, K.L. Jongeward. *Publication 8404.11*
- 69 **PEDS Developmental Milestones: A New Tool for Screening and Surveillance in Primary Care.** Frances P. Glascoe, Nicholas S. Robertshaw, Michelle M. Macias, Lynn M. Wegner, Kyle B. Brothers. *Publication 8404.12*
- 70 **Changes in Identification of and Referral for Behavioral and Developmental Concerns after Implementation of Routine Validated Screening.** Alison Schonwald, Eugenia Chan, Noelle Huntington, Wanessa Risko, Carolyn Bridgemohan. *Publication 8404.13*
- 71* **High Prevalence of Expressive Language Delay (ELD) in a Latino Pediatric Clinic.** Hilary Hewes, Tammy Smith, Karen Buchi. *Publication 8404.14*
- 72* **Hospitalizations for Adolescents with and without Comorbid Disruptive Behavior Disorders - United States, 2003.** C. Umez, A. Gebremariam, J. Gurney, M. Davis. *Publication 8404.15*
- 73 **Resiliency in the Face of Adversity: A Study of 535 Pregnant African American Women.** Jill Joseph, Marie Gantz, Michele Kiely, Nabil El-Khorazaty. *Publication 8404.16*

Epidemiology

8405 Underserved

- 74 **Are Adverse Maternal Exposures in Pregnancy Related to LBW and Pregnancy Outcome in Urban African-American Women? A Study 1044 Women in Washington DC.** Jill Joseph, Marie Gantz, Nabil EL-Khorazaty. *Publication 8405.1*
- 75 **Effects of Neighborhood Characteristics on Timing and Use of Prenatal Care: The Case of Milwaukee City, Wisconsin.** Emmanuel M. Ngui, Jacqueline K. Gosz, Kathleen Blair. *Publication 8405.2*
- 76 **Central City Immunization Disparities, 2000-2004.** Sally E. Findley, Matilde Irigoyen, Melissa S. Stockwell, Shaofu Chen. *Publication 8405.3*
- 77 **Effects of Urban Neighborhood Built Environment and Safety on Child Physical Activity.** Xingyou Zhang, Maryann Mason, Patty Meleedy-Rey, Katherine Kaufer Christoffel. *Publication 8405.4*

- 78 **Nationwide Analysis of Perinatal and Infant Health Outcomes among Neonates Born to Aborigines in Taiwan, 2000-2003.** Yu H. Chang, Wu S. Hsieh, Pau C. Chen, Suh F. Jeng, Tsu F. Yeh. *Publication 8405.5*

8406 Nutrition & Feeding

- 79 **Serum Zinc Status of Low-Income Children in a Major U.S. City.** Conrad R. Cole, Charletta Thomas, Tom Sternberg, Dexter Thompson, Christine Clewes, Kathleen Caldwell, Dawn Swaby-Ellis, Ann Jacques, Joy Smith, Benjamin Gold, Thomas Ziegler. *Publication 8406.1*
- 80 **Relationship of Endogenous Sex Hormones and Gonadotropins to Soy Formula Diet in Infants.** David Umbach, Terry Phillips, Holly Davis, Janet Archer, Beth Ragan, Judy Bernbaum, Walter Rogan. *Publication 8406.2*
- 81 **Formula Freebies from the Hospital: Patterns of Discharge Pack Distribution in the North Eastern US.** Anne Merewood, Tina Navidi, Stephanie Love, Simone Neuwelt, Reginald Fonrose. (Sponsored by Lori Feldman-Winter) *Publication 8406.3*
- 82 **The Relationship among 100% Juice Consumption, Nutrient Intake, and Weight of Children 2-11 Years.** Carol E. O'Neil, Theresa A. Nicklas, Ronald E. Kleinman. (Sponsored by William C. Heird) *Publication 8406.4*
- 83 **Ready-to-Eat Cereal Consumption Is Associated with Improved Nutrient Intake Status and Body Weight Measures in American Children: Results from NHANES, 1999-2002.** Theresa A. Nicklas, Carol E. O'Neil, Susan S. Cho. (Sponsored by William C. Heird) *Publication 8406.5*
- 83A **Correlates of Maternal Infant Feeding Practices.** Eugene Dinkevich, Janell Mensinger, Lucy Leid, Stephanie Heard, Naarah Williams. *Publication 8406.5A*
- 84 **Determinants of Human Milk Volumes in a Highly Motivated Cohort of Breastfeeding Mothers.** Sheela R. Geraghty, Barbara S. Davidson, Meredith E. Tabangin, Ardythe L. Morrow. *Publication 8406.6*
- 85 **Determinants of the Metabolic Syndrome in a Population-Based National Sample of Youths: Caspian Study.** Roya Kelishadi, Gelayol Ardalan, Khosrow Adeli. *Publication 8406.7*

8407 Epidemiology & Prevention

- 86* **Neighbourhood Sociocultural Demographics and Bicycle Helmet Use in Children.** Heather L. White, Harvey Low, Alison K. Macpherson. (Sponsored by Astrid Guttman)*Publication 8407.1*
- 87* **Regional Variation in Childhood Neurotrauma: A Population-Based Epidemiological Analysis.** Heather L. White, Alison K. Macpherson. (Sponsored by Astrid Guttman)*Publication 8407.2*
- 88* **Working Mothers and Early Childhood Outcomes: Lessons from the Canadian National Longitudinal Study on Children and Youth.** Rebecca L. Sherlock, Anne R. Synnes. (Sponsored by Philippe Chessex) *Publication 8407.3*
- 89 **Prenatal Syphilis Screening Rates Measured Using Linked Medicaid Claims and Electronic Medical Records Data.** Marc B. Rosenman, Barbara E. Mahon, Kinga A. Szucs, Jane Wang, Roberta Ambuehl. *Publication 8407.4*
- 90 **Lead in Pregnancy: A Universal Screen - Is It Necessary.** Tatyana Gabinsky, Asha Ittoop, Claudia Cosmineanu, Gospodin Stefanov, Melvin Gertner. (Sponsored by Jing Lin)*Publication 8407.5*
- 91* **Increasing Trend in Infectious Syphilis: Experience in Las Vegas, Clark County, Nevada.** Kanayo A. Ezeanolue, Rick Reich, Echezona E. Ezeanolue. *Publication 8407.6*
- 92* **Children's Walking and Biking in Their Neighborhoods: A Single-City Cross-Sectional Survey.** June M. Tester, Irene H. Yen, William A. Satariano. *Publication 8407.7*
- 93* **Challenges To Implementing Second Dose Varicella Vaccination during an Outbreak in the Absence of a Routine Two-Dose Vaccination Requirement - Maine, 2006.** Amy A. Parker, Meredith Reynolds, Jessica Leung, Meredith Anderson, Araceli Rey, Ismael R. Ortega-Sanchez, D. Scott Schmid, Dalya Guris, Kathleen F. Gensheimer. (Sponsored by James P. Alexander) *Publication 8407.8*
- 94 **Developing Strategies To Address Static Post-Neonatal Death Rates in One State: Diagnostic Shifting and Rates of SIDS and Related Causes of Death in Michigan (MI).** James S. Kemp, Sandra Frank, Mary Adkins. *Publication 8407.9*
- 95 **Population-Based Incidence of Down Syndrome in Newborns in British Columbia.** Jill Hoube, Naznin Virji-Babul, Sara Lisonkova. *Publication 8407.10*
- 96 **Multicentre Research in Pediatric Palliative Care: Navigating through Multiple Research Ethics Boards.** Greenly Ho, Susan Cadell, Betty Davies, Hal Siden, Rose Steele, Lynn Straatman, Lisa Jacques. (Sponsored by Ronald Barr) *Publication 8407.11*
- 97 **(Withdrawn) Epidemiology of Asthma in Alberta Children.** Donald W. Spady, Lawrence W. Svenson, Donald P. Schopflocher. (Sponsored by Thierry Lacaze-Masmonteil)*Publication 8407.12*
- 98* **Factors Influencing Hospital Length of Stay and Hospital Charges of Motor Vehicle Crash-Related Hospitalizations among Children in the United States.** Ricky L. Gardner, Gary A. Smith, Anne-Marie L. Chany, Soledad A. Fernandez, Lara B. Trifiletti. *Publication 8407.13*
- 99* **Pediatric Hospitalizations for Bicycle-Related Injuries in the United States.** Summit Shah, Sara A. Sinclair, Gary A. Smith, Huiyun Xiang. *Publication 8407.14*

- 100 **Injuries among Canadian Adolescents: A Population-Based Analysis of ED Visits in Ontario.** Hala Tamim, Alison Macpherson. (Sponsored by Astrid Guttman) *Publication 8407.15*
- 101 **Increased Maternal Preeclampsia in Mothers Delivering Very Low Birth Weight Infants (VLBW).** David A. Paul, Amy Mackley, Robert G. Locke, Deborah Ehrenthal, Matthew Hoffman, Charlan Kroelinger. *Publication 8407.16*
- 102* **Cluster of *Burkholderia cenocepacia* in Patients without Cystic Fibrosis in a Pediatric Intensive Care Unit-Chicago, 2006.** Cynthia Lucero, A. Cohen, I. Trevino, A. Hammer, M. Harris, J. Noble-Wang, B. Jensen, A. Peterson, M. Arduino, S. Gerber, A. Srinivasan. *Publication 8407.17*
- 103 **Psycho-Social and Behavioral Risk Associations for Recurrence of Intimate Partner Violence (IPV) during Pregnancy and Postpartum (PP): Effect of an Integrated Behavioral Intervention.** Ayman A.E. El-Mohandes, Nabil El-Khorazaty, Marie G. Gantz, Michele Kiely. *Publication 8407.18*
- 104 **Risky Behaviors among Teen Motor Vehicle (MV) Occupants.** Eliot Nelson, K. Keating, E. Hunt, S. McEwing, T. Delaney, J. Shaw. *Publication 8407.19*
- 105* **Is Parental Knowledge of Water Safety Education a Good Predictor of Parental Supervision of Their Children in and around the Water?** Sabine Johnson, Joe Baker, Alison Macpherson. (Sponsored by Astrid Guttman) *Publication 8407.20*
- 106 **Validation of a Questionnaire To Evaluate Water Exposures in Children.** Marc H. Gorelick, Duke Wagner, Sandra McLellan. *Publication 8407.21*

8408 Health Services Research

- 107 **Uniform Application of Neonatal Guidelines without Adequate Evidence: The Illusion of Knowledge?.** Augusto Sola, Ben Lee. *Publication 8408.1*
- 108* **Trends in Healthcare Utilization Due to Diarrhea in Tennessee Medicaid Children, 1995-2004.** S.J. Pont, L.R. Carpenter, M.R. Griffin, T. Jones, W. Schaffner, J.A. Dudley, P.G. Arbogast, W.O. Cooper. *Publication 8408.2*
- 109 **Interactions with the Internet in Families of Children Enrolled in Florida Medicaid.** June Nogle, Lindsay A. Thompson, Ross Jones, Elizabeth Shenkman. *Publication 8408.3*
- 110 **End of Life Expenditure Patterns for Infants and Children.** Caprice A. Knapp, Lindsay A. Thompson, Elizabeth A. Shenkman. *Publication 8408.4*
- 111* **National Rates of Diarrhea-Related Ambulatory Visits in Children.** S.J. Pont, C.G. Grijalva, M.R. Griffin, J.A. Dudley, W.O. Cooper. *Publication 8408.5*
- 112 **The Increasing Burden of Bronchiolitis-Related Health Care Visits during the First Year of Life.** K.N. Carroll, T. Gebretsadik, M.R. Griffin, E. Mitchel, P. Wu, R. Enriquez, T.V. Hartert. *Publication 8408.6*
- 113 **Prescriber Medication Error Review Useful in Facilitating Computerized Order Entry Implementation in Pediatric Intensive Care.** Amy L. Mitchell, Melanie DeFusco, Javier L. Sanchez. (Sponsored by Michael J. Horgan) *Publication 8408.7*
- 114 **Validation of a Health Administrative Data Algorithm for Assessing the Epidemiology of Diabetes in Canadian Children.** Astrid Guttman, Xuesong Wang, Kelvin Lam, Baiju Shah, Jan Hux. *Publication 8408.8*

8409 General Pediatrics

- 115 **Telephone Triage Services: A Powerful Tool for Patient Recruitment.** Jane Garbutt, Randall Sterkel, Christina Banister, Julie Bruns, Suzanne Wells, Lisa Swerczek, Jay Epstein, Kara Carstensen, Gordon Bloomberg. *Publication 8409.1*
- 116 **Indoor Climate and Wheezing in Children.** Maria Regina A. Cardoso, Anderson S. Nedel, Fabio L.T. Goncalves, Shirley L. Dias, Alexander R. Precioso, Wheezing Project Research Group. (Sponsored by Celso Moura Rebello) *Publication 8409.2*
- 117* **Comparative Performance of Clinical Judgment Versus a Diagnostic Algorithm for Serious Bacterial Infection (SBI) in Children with Fever.** Miriam Codarini, Jonathan C. Craig, Mike P. Jones, Gabrielle Williams, FEVER Study Group. (Sponsored by Virginia Moyer) *Publication 8409.3*

8410 Children with Special Health Care Needs

- 118 **(Withdrawn) Prevalence, Characteristics and Access to Care among US Children with Disabilities.** Carissa J. Scurlock, Huiyun Xiang. *Publication 8410.1*
- 119 **The Effect of Regulatory Warnings on Antidepressant Prescribing for Children and Adolescents.** B.T. Kurian, W.A. Ray, P.G. Arbogast, D.C. Fuchs, J.A. Dudley, W.O. Cooper. *Publication 8410.2*
- 120* **Use of Natural Health Products and Dietary Modification in Children with Fetal Alcohol Spectrum Disorder.** Meghan Clare, Melinda Edmonds, Brenda Stade, Pauline Darling, Kirsten McFadyen. (Sponsored by Gideon Koren) *Publication 8410.3*
- 121 **The Effectiveness of Toilet Training Methods: A Systematic Review.** Kelly Russell, Carol Spooner, Ben Vandermeer, Darcie Kiddoo, Mia E. Lang, Terry P. Klassen. *Publication 8410.4*
- 122 **Who Are We Missing? Children in the NSCH Not Identified by the CSHCN Screener.** Ruth E.K. Stein, Ellen J. Silver. *Publication 8410.5*
- 123 **Morbidity and Mortality for Children with Hydrocephalus in the U.S..** T.D. Simon, J. Riva-Cambrin, R. Srivastava, J. Kestle. *Publication 8410.6*

841 | Global Pediatrics

- 124* **Does National Economic Growth Improve Maternal and Child Health Mortality Indices in India?**. Ramesh Vidavalur, Praveen Vijayakumar. (Sponsored by Naveed Hussain) *Publication 8411.1*
- 124A **(Moved from Poster Session II, Sunday, Poster 38) Neurological Exam at 40 Weeks Postmenstrual Age – Predictor for Developmental Outcome at 2 Years Corrected Age.** Adrian Ioan Toma, Iulia Petrescu, Ruxandra Mitu, Eugen Matu. *Publication 6280.41*
- 125* **Smoking in Teenagers: Prevalence and Influences in a Developing Country.** Purva Grover, Deepak Kamat, Ronald Thomas. *Publication 8411.3*

Emergency Medicine

8412 Emergency Medicine

- 126 **Significant Adverse Events with Ketamine during Procedural Sedation.** Elliot Melendez, Richard Bachur. *Publication 8412.1*
- 127 **Evaluation of a Rapid Nucleic Hybridization Test in Detecting Group A Streptococcal Pharyngitis and Comparison to Throat Culture in a Pediatric Emergency Department.** Benoit Bailey, Caroline Ouellet, Carole Scrivo, Celine Laferriere. (Sponsored by Anne-Claude Bernard-Bonnin) *Publication 8412.2*
- 128 **Characteristics of Children with Headache Two Weeks after a Minor Head Injury.** Benoit Bailey, Martin H. Osmond, Terry P. Klassen, Ian G. Stiell, Rhonda Corell, the CATCH Study Group. *Publication 8412.3*
- 129 **Interobserver Agreement in Assessment of Clinical Variables in Children with Blunt Head Trauma.** M.H. Gorelick, S. Atabaki, J. Hoyle, P.S. Dayan, J.F. Holmes, R. Holubkov, D. Monroe, J. Callahan, N. Kuppermann, PECARN. *Publication 8412.4*
- 130* **Post-Discharge Adverse Behavioral Events in Children Receiving Fentanyl/Midazolam vs. Ketamine in a Pediatric Emergency Department.** Alisa McQueen, Robert Wright, Baruch Krauss. *Publication 8412.5*
- 131 **Comparison of Four Pain Scales in Children with Acute Abdominal Pain in a Pediatric Emergency Department.** Benoit Bailey, Sylvie Bergeron, Jocelyn Gravel, Raoul Daoust. (Sponsored by Anne-Claude Bernard-Bonnin) *Publication 8412.6*
- 132* **Retinal Hemorrhages and Their Association with Intracranial Abnormalities in Shaken Baby Syndrome.** Cara B. Doughty, Ulas E. Saz, David K. Coats, Donna R. Mendez. *Publication 8412.7*
- 133* **Mortality and Child Abuse in Children Presenting with Apparent Life-Threatening Events.** Kala N. Parker, Raymond Pitetti, Noel Zuckerbraun. *Publication 8412.8*
- 134 **A Single Versus Multiple Doses of Oral Dexamethasone in Outpatients with Acute Bronchiolitis.** Suzanne Schuh, Allan Coates, Paul Dick, Amina Lalani, Derek Stephens, Upton Allen. *Publication 8412.9*
- 135 **TGFB1 SNP c.-1347C>T Is Associated with Asthma Severity in African American Children.** Robert J. Freishtat, Dinesh Pillai, Terence Ahern, Joseph M. Devaney, Stephen J. Teach, Eric P. Hoffman. *Publication 8412.10*
- 136* **Is Obesity an Independent Risk Factor of Adverse Events during Procedural Sedation in Children?** Francesca M. Bullaro, Raymond D. Pitetti, Noel Zuckerbraun, Anne Slater. *Publication 8412.11*
- 137* **(Moved to Poster Session III, Monday, Poster 150A) Is Shock Index Predictive of Trauma Team Activation and Severity of Injury in a Pediatric Population?** Camilo Gutierrez, Kathryn Nuss, John Hayes. *Publication 8412.12*
- 138 **Mental Health Needs of Children Following Hurricane Katrina: The Role of School-Based Health Centers.** Paula Madrid, Richard Garfield, Maureen Daly, Roy Grant, Irwin Redlener. (Sponsored by Arturo Brito) *Publication 8412.13*
- 139* **A Description of Management of Pediatric Septic Shock in a Tertiary Care ED Setting and Adherence to the Septic Shock Guidelines.** Stacey K. Noel, Andrew Wong, Jonie Hsiao, Rachel Stanley. *Publication 8412.14*
- 140 **A Novel Pediatric Measure of Emergency Department Overcrowding.** Marion R. Sills, Steven J. Weiss, Amy A. Ernst, Bruce Quinn, Todd G. Nick. *Publication 8412.15*
- 141* **Impact of Pediatric Telemedicine Consultations on Quality of Care.** Madan Dharmer, James P. Marcin, Nathan Kuppermann, Emily R. Andrada, Cheryl Vance, Patrick S. Romano. *Publication 8412.16*
- 142 **Evaluation, Management and Outcome of Focal Bacterial Infections in Non-Toxic Infants under Two Months of Age.** Gurpreet S. Vidwan, Gary L. Geis. *Publication 8412.17*
- 143 **Referral and Utilization Patterns for Psychiatric Related Visits to the Pediatric Emergency Department.** J. Grupp-Phelan, P. Mahajan, E. Jacobs, M. Tunik, M. Sonnett, P. Dayan, S. Miller, G. Foltin, and the Pediatric Emergency Care Applied Research Network (PECARN). *Publication 8412.18*
- 145 **Accidental and Non-Accidental Poisonings as a Cause of Apparent Life-Threatening Events in Children.** Raymond D. Pitetti, Emily Whitman, Abigail Zaylor. *Publication 8412.20*
- 146* **A Novel Method To Better Estimate Weight among Children in the Emergency Room.** Kopal Jain, Irene Tien, Carine Lenders, Sigmund Kharasch. *Publication 8412.21*
- 147 **Nursemaid's Elbow: Internal Rotation – A Simple and Less Painful Reduction Maneuver.** Emir Q. Haxhija, Johannes Schalamon, Michael E. Hollwarth. (Sponsored by Richard J. Martin) *Publication 8412.22*

- 149 **When a Headache Is More Than a Headache: ED Triage Complaints and Mental Illness.** Joel A. Fein, Megan Pailler. *Publication 8412.24*
- 150 **Screening Sexually Abused Children for STD's: Have Things Changed in the Era of Nucleic Acid Amplification?** Lisa S. Kresnicka, David M. Rubin, Kevin J. Downes, Robert Grundmeier, Jane Lavelle, Karin McGowan, Richard L. Hodinka, Cindy W. Christian. *Publication 8412.25*
- 151 **Evaluation of the Febrile Infant (≤ 180 Days) – Has Practice Changed after PCV7?.** Prashant Mahajan, X. Chen, S. Knazik, M. Hamre. *Publication 8412.26*
- 152* **Reliable and Safe Pediatric Prolonged Procedural Sedation Using Propofol and a Dedicated Sedation Service.** M.R. Rigby, K.N. Patel, C. Stockwell, J.A. Stockwell, P.L. Roerig, M.A. DeGuzman, H.K. Simon. *Publication 8412.27*
- 153* **Comparison of Two Clinical Scores in the Evaluation of Acute Asthma in Pre-School Children.** I. Robidas, S. Gouin, J. Gravel, C. Guimont, G. Chaput, D. Chalut, D. Amre. (Sponsored by H. Patel) *Publication 8412.28*
- 154* **Predicting Cardiac and Pulmonary Causes of Pediatric Chest Pain.** Kimberly P. Stone, Lois K. Lee. *Publication 8412.29*
- 155* **Does Parental Perception of the Quality of Their Primary Care Matter in the Decision Whether To Use the Pediatric Emergency Department for Episodic Illness?.** Kimberly A. Bleier, Andrew D. Racine, Jeffrey R. Avner, Elizabeth M. Alderman. *Publication 8412.30*
- 156* **Assessment of House Staff Physician Knowledge and Use of SARS Infection Control Practices in an Urban Medical Center.** Jessica C. Foltin, Teresa Y. Smith, James Kim, Michael G. Tunik. *Publication 8412.31*
- 157 **Cerebrospinal Fluid Xanthochromia in Newborns Is Associated with Maternal Labor Prior to Delivery.** Lise E. Nigrovic, Michelle Trivedi, Mark I. Neuman. (Sponsored by Richard Bachur) *Publication 8412.32*
- 158* **Developing Culturally Appropriate Depression Screening in the Emergency Department: Adolescents' and Caregivers' Explanatory Models of Depression.** Megan E. Pailler, Frances K. Barg, Peter F. Cronholm, Matthew B. Wintersteen, Guy S. Diamond, Joel A. Fein. *Publication 8412.33*
- 159 **Gastrointestinal Decontamination in the Pediatric Emergency Department: Does Age Influence Time to Administration of Activated Charcoal?.** Rachel E. Tuuri, Leticia M. Ryan, Robert J. McCarter, Jianping He, Joseph L. Wright. *Publication 8412.34*
- 160* **Are Antibiotics Indicated in Uncomplicated Epididymo-Orchitis in Childhood?.** Stephen C. Crotty, Elizabeth Powell, Jennifer L. Trainor. *Publication 8412.35*
- 161* **Why Do They Leave? A Case Control Study of Patients Who Leave the Pediatric Emergency Department without Receiving Care.** Alana M. Harrington, Alison K. Macpherson, Lutfi Haj-Assaad, Vivian Koval, Ran D. Goldman. *Publication 8412.36*
- 162 **Improving the Documentation of Physical Child Abuse in the Emergency Department Setting.** E. Guenther, S. Knight, J.M. Dean, L.M. Olson. *Publication 8412.37*

Medical Education / Potpourri

8413 International Medical Education

- 164 **Evaluating Newborn Care Practices Following Essential Newborn Care (ENC) Training.** Shivaprasad S. Goudar, V.D. Patil, S.M. Dhaded, R.M. Bellad, Elizabeth M. McClure, Hillary Harris, Linda L. Wright, Waldemar A. Carlo. *Publication 8413.2*
- 165 **Change in Participant Knowledge of Neonatal Resuscitation Following the Introduction of a Neonatal Training Course in Ghana.** Christabel Emweronu-Laryea, Cyril Engmann, Lu Tsui-shan, Medge Owen, Catherine Segbefia, Alexandra Osafo, Carl Bose. *Publication 8413.3*
- 166* **Improving Neonatal Resuscitation in Rural Mexico.** Juan Acosta, Sarah Stelzner, Laura Cornejo, David Castelan, Diane Lorant. *Publication 8413.4*
- 168 **Improving Education for Health Care Providers of Neonatal Care in Developing Countries: A Needs Assessment.** Khu Thi Khanh Dung, John C. Partridge, Leakhena Neou, Alma M. Martinez. *Publication 8413.6*

8414 Faculty Development

- 169 **Implementing a Program of Direct Observation of Resident Skills in Continuity Clinic: Does Faculty Development Make a Difference?.** Dale A. Coddington, Sandra S. Cuzzi, Ellen K. Hamburger, Angela Allevi, Clifton Yu, Joseph O. Lopreiato, J. Lindsey Lane, Rachel Moon. *Publication 8414.1*
- 170 **Do Increases in Supply Lead to Improvements in the Distribution of Pediatric Subspecialty Care.** Michelle L. Mayer. *Publication 8414.2*
- 171 **Education Faculty Reflections on Their Online Experiences in Teaching Medical Professionals.** Kadriye O. Lewis, Raymond C. Baker. *Publication 8414.3*

8415 Medical Student Evaluation

- 172 **Medical Student Identification of Maternal Depression and Intimate Partner Violence during a Standardized Patient Interview.** Sarah E. Winters, David Rubin, Debra Hillman, Denise LaMarra, Judy Shea. *Publication 8415.1*

- 175 **Peer-Facilitated Virtual Action Learning Groups Enhance Learning and Reflective Thinking on a Pediatric Clerkship.** Margaret Plack, Maryanne Driscoll, Maria Marquez, Larrie Greenberg. *Publication 8415.4*
- 176 **How Much Do Our Students Know about Obesity? A Collaborative Approach in Medical Education.** Paola A. Palma Sisto, Ann Maguire, Douglas Bower, Laura Curry, Jeff Morzinski. *Publication 8415.5*
- 177 **Evaluation of an Injury Prevention Workshop in a Pediatrics Clerkship.** James Graham, Hope Mullins, Beverly Miller, Virginia Lancaster, Mary E. Aitken. *Publication 8415.6*
- 178 **Changes in Career Choice Preferences during Medical School.** Martin E. Weisse, Lesley Cottrell, Renee S. Moore. *Publication 8415.7*
- 179* **A Brief Educational Tool Teaches Medical Students about Childhood Aggression.** Peter A. Brokish, Joseph Gigante, Seth J. Scholer. *Publication 8415.8*
- 180* **Using Parent Educators and Video To Teach Students about Chronic Illness in Children.** Blair S. Hammond, Jennifer Koestler, Leora Mogilner, Betti Weimersheimer, Dana Wyles. *Publication 8415.9*
- 181 **Effects of a Collaborative School Based Health Clinic Curriculum Experience on Medical Student and Resident Attitudes.** Steve Paik, Amy Hsieh, Arthur Fierman, Doris Pastore, Linda Juszczyk, Karen Soren, Adina Kalet. *Publication 8415.10*
- 182 **Quality and Quantity of Patient Contact Correlates with Performance on a Clinical Skills Exam.** Linda R. Tewksbury, Paik Steve, Richter A. Regina, Gillespie C. Colleen, Kalet L. Adina. *Publication 8415.11*
- 183 **Impact of the USMLE Examination Score on the Pediatric Residency Application.** Charles A. Pohl, Bernard L. Lopez. *Publication 8415.12*

8416 Other Education

- 185 **Pediatric Residents' Perception of Autonomy Varies by Work Environment and Is Affected by Perceived Supervisor Support.** Hilary M. Haftel. *Publication 8416.2*
- 186 **How Well Are We Teaching Cultural Competency? Use of Standardized Patients To Assess Cultural Communication Skills.** Hilary M. Haftel, Jennifer L. Meyers, Lois Hauck, Mary Ellen Bozynski. *Publication 8416.3*
- 187 **Resident and Hospitalist Perceptions of Pediatric Inpatient Team Roles.** H. Barrett Fromme. *Publication 8416.4*
- 188 **Assessment of an Educational and Motivational Tool in Children with Acute Asthma.** Richard Lichenstein, Ashish Joshi, Keyvan Rafei, Mohit Arora. *Publication 8416.5*
- 189 **How Much Do Pediatric Residents Know about Cultural Competence?.** Lawrence M. Noble, Anita Noble, Donna M. Geiss, Ivan L. Hand. *Publication 8416.6*
- 190 **Pediatric Residents' Preparedness for End of Life Discussions.** Janet R. Ninnis, Sharon Riesen, Grenith Zimmerman. *Publication 8416.7*
- 191 **Chart Abstraction by Residents vs. Trained Abstractors.** Terry C. Wall, Elizabeth C. Benton, Thomas K. Houston. *Publication 8416.8*
- 192 **The Ethical Use of Children in Medical Education.** Robert Hilliard. *Publication 8416.9*
- 193* **Education and Experiences of Pediatric Residents with Discussing Limitation or Withdrawal of Life-Sustaining Therapy.** Megan E. McCabe, Betsy A. Hunt, Janet R. Serwint. *Publication 8416.10*
- 195 **Measuring Knowledge Structure in Medical Education: Reliability of Concept Mapping Assessment.** Matthew MacElvany, Malathi Srinivasan, Jane Shay, Richard J. Shavelson, Daniel C. West. *Publication 8416.12*
- 196 **Oops: The Accuracy of Caretaker Predictions of Death for Ventilated NICU Infants Does Not Improve with Level of Training or Experience.** Melissa White, Donna Lemmenes, Kim Foster, Madhu Subramanian, Stephanie Papillon, Jessica Carney, William Meadow. *Publication 8416.13*
- 197 **Pediatric Residents Knowledge of Evidence-Based Medicine.** Hasan A. Alshabanah, Rafat Mosalli, Moyez Ladhani. *Publication 8416.14*
- 198* **Resident Perspectives on Professionalism: A Qualitative Study on the Influence of Pediatric Emergency Medicine (PEM) Experiences.** Christine S. Cho, Fran K. Barg, Jill C. Posner. *Publication 8416.15*
- 199 **Learning Styles (LS) in Pediatric Residents – Are LS Types Related to USMLE Results and Are Residents Ready To Apply Their LS to Their Individualized Learning Plans (ILP's)?.** John D. Mahan, Cyndy Ferrell, Anne M. Mortensen, Luara L. Sells, James Bale, Martha Wright, Lynn Campbell, Ann Burke, Satid Thammasitboon, Melanie Minor, Kathy Lake, Robert M. McGregor. *Publication 8416.16*
- 200 **Who's Teaching What? What Subspecialists Believe Is Taught in Continuity Clinic.** Wendy L. Hobson, Deirdre A. Caplin, Jaime D. Bruse, James F. Bale. *Publication 8416.17*
- 201 **Can Continuity Clinic Patient Data Be Accurately Entered into the ACGME Case Log by a Third Party? One Program's Experience.** Nancy R. Kelly, Patricia J. Hicks. *Publication 8416.18*
- 202* **Family Psychosocial Screening at Well-Child Care Visits: Pediatric Residents' Attitudes and Behaviors.** Arvin Garg, Arlene Butz, Paul Dworkin, Rooti Lewis, Janet Serwint. *Publication 8416.19*
- 203 **Does Marketing Internet Curricula as Knowledge Versus Behavior-Based Affect Enrollment, Completion or Impact?.** Kathi J. Kemper, Paula Gardiner, Charles Woods. *Publication 8416.20*

- 204*** **Educational Enrichment Programs To Increase Under-Represented Minorities in Health Professions: A Systematic Review.** Tarik D. Walker, John R. Meurer. *Publication 8416.21*
- 205*** **A Review of 5 Years of Clinical Medical Ethics Consults: Contrasts between Neonatal, Pediatric, Obstetric, and Adult Concerns.** Naomi Laventhal, Lainie Ross, Tracy Koogler, Mark Siegler, John Lantos, William Meadow. *Publication 8416.22*

Critical Care

8417 Ethics

- 206*** **A Simple Technique for Obtaining Consent for Future Retrospective Chart Reviews in the ICU – It Works Great, but Is It Ethical?.** Naomi Laventhal, Jenn Liedel, Melody Taboada, Shamsur Chowdhury, Lynn Kahana, William Meadow. *Publication 8417.1*
- 207*** **The Effect of Patient Age on Pediatricians' Attitudes about Withholding and Withdrawing Life-Sustaining Treatment.** Karen L. Bauer, Caleb Alexander, William Meadow, Madelyn Kahana, John Lantos. *Publication 8417.2*
- 208** **The Experience of Fathers in the Neonatal Intensive Care Unit.** Susan Albersheim, Liisa Holsti, Vincent Arockiasamy. (Sponsored by Philippe Chessex) *Publication 8417.3*

8418 Outcomes & Scoring

- 209** **Development of a Quantitative Functional Status Scale (FSS).** Murray M. Pollack, the NICHD Collaborative Critical Care Research Network (CPCCRN). *Publication 8418.1*
- 210*** **Impact of Premorbid Conditions on Multiple Organ Dysfunction Syndrome in the PICU.** K. Typpo, N. Petersen, D.M. Hallman, B. Markovitz, M.M. Mariscalco. *Publication 8418.2*
- 211*** **Prolonged Emergency Department (ED) Length of Stay (LOS) Does Not Have Adverse Effects on PICU LOS, Resources or Mortality.** Cynthia L. Gibson, James M. Chamberlain, Murray M. Pollack. *Publication 8418.3*
- 212*** **SNAP II™ Index: An Alternative to the COMFORT Scale in Assessing the Level of Sedation in Mechanically Ventilated Pediatric Patients.** Federico I. Fernandez-Nievas, Kenneth J. Banasiak, Clifford W. Bogue. *Publication 8418.4*
- 213** **Survival Tradeoffs: Altered Standards of Hospital Care in Disasters.** Robert K. Kanter. *Publication 8418.5*
- 214*** **Empiric Antibiotic Therapy and Outcomes from Severe Community Acquired Bacterial Pneumonia.** Nina L. Knatz, Cheryl L. Sargel, Jennifer A. Muszynski, David J. Marquardt, Mark W. Hall. *Publication 8418.6*
- 215** **Clinical Outcomes and Characteristics of Readmissions to a Pediatric Intensive Care Unit.** Fola O. Odetola, Sarah J. Clark, Ronald E. Dechert, Thomas P. Shanley. *Publication 8418.7*
- 216** **Under Five Mortality (UFM) in a Pediatric Intensive Care Unit (PICU) Serving Urban and Rural Population in India.** D. Ranganath, P. Seeta Rao, N. Beligere, D. Vidyasagar. *Publication 8418.8*
- 217** **Pediatric Critical Care Telemedicine in Rural Underserved Areas: A Pilot Program.** Richard Salerno, Jeremy Hertzog, Michael Caputo, Barry Heath. (Sponsored by Lewis First)*Publication 8418.9*
- 218*** **Outcome and Prediction of Mortality in Oncology Patients Admitted to the Pediatric Intensive Care Unit.** Roel J. Bolt, Esther M. te Poele, Eveline S.J.M. de Bont, Marcel J.I.J. Albers. *Publication 8418.10*

8419 Sedation

- 219** **Propofol Sparing Effect of Fentanyl for Invasive Oncology Procedures in Children.** Meredith M. Cechvala, Jens C. Eickhoff, Devon K. Christenson, Gregory A. Hollman. (Sponsored by Aaron L. Carrel) *Publication 8419.1*
- 220** **Propofol/Fentanyl vs Propofol Alone for Lumbar Puncture Sedation in Children with Acute Leukemia: A Randomized Double Blind Crossover Study.** Meredith M. Cechvala, Jens C. Eickhoff, Devon K. Christenson, Gregory A. Hollman. (Sponsored by Aaron L. Carrel) *Publication 8419.2*
- 221*** **Efficacy of Postoperative Ketorolac in Children Undergoing Cardiac Surgery.** Miho Inoue, Christopher A. Caldarone, Peter N. Cox, Shinya Ito, Helena Frndova, Anna Tadio, Anne-Marie Guerguerian. *Publication 8419.3*
- 222** **Variability of ASA Physical Status Class Assignment among Pediatric Sedation Practitioners.** Philip A. Bernard, Carrie E. Makin, Dai Hongying. (Sponsored by Henrietta Bada)*Publication 8419.4*
- 223*** **Prospective Evaluation of Safety and Efficacy of Dexmedetomidine as a Sedative Agent for MRI in Children.** Madelyn Kahana, Shamsur R. Chowdhury, Heather Fagan, Suanne Daves, Jamie Harrison. *Publication 8419.5*
- 224*** **Etomidate Affects the Cortisol Response to ACTH Stimulation in Children.** Nestor J. Martinez, Marc A. Linares, Barbara Pena. *Publication 8419.6*
- 225*** **An Evaluation of Propofol Sedation for Nonpainful Procedures in Patients with Cerebral Palsy.** John W. Taylor, Pelin Cengiz, Jens C. Eickhoff, Gregory A. Hollman. *Publication 8419.7*

8420 Basic Aspects

- 226 **Impact of Perfluorochemical (PFC) Physicochemical Properties on Lipid Membranes.** M.R. Wolfson, B. Venegas, P.L. Chong. *Publication 8420.1*
- 227 **An Animal Model for the Study of Lung Protective Therapies during One Lung Ventilation (OLV) in Children.** Thomas L. Miller, Doyle J. Lim, Alicia Olivant, Andrew Costarino, Thomas H. Shaffer, Mary C. Theroux. *Publication 8420.2*
- 228 **MAP Kinase Phosphatase (MKP)-1 Plays an Important Role in the Anti-Inflammatory Action of Glucocorticoids.** Xianxi Wang, Leif D. Nelin, Xiaomei Meng, Joshua R. Kuhlman, Yusen Liu. *Publication 8420.3*
- 229* **Analysis of In-Hospital Pediatric Resuscitation.** Erika Kitazato, Tsutomu Matsumoto, Katsunori Kamimura, Naoki Shimizu, John I. Takayama. *Publication 8420.4*
- 230 **In Vivo Measurement of Oxygen Gradients in Muscle by Optical Spectroscopy.** Lorilee S.L. Arakaki, Wayne A. Ciesielski, Brett D. Thackray, Kenneth A. Schenkman. *Publication 8420.5*
- 231* **Mechanisms of Bax Dependent Activation of Caspase-9 during Hypoxia in the Cerebral Cortex of the Newborn Piglets.** Ming-Chou Chiang, Jahan Ara, Qazi M. Ashraf, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8420.6*
- 232* **Isolation of Endothelial Precursor Cells from Blood as a Potential Cell Source for Tissue Engineered Heart Valves.** Christine Vohwinkel, Howard Matthews, Henry Walter, Jeff Clark. *Publication 8420.7*
- 233 **Aldose Reductase (AR) and Receptor for Advanced Glycation Endproduct (RAGE) Axis Following Caecal Ligation and Puncture (CLP) in Mice.** Thyar M. Ravindranath, Radha Anathakrishnan, George Ofori-Amanfo, Masakatsu Goto, Qing Li, Teodoro Gomez, Nosirudeen Quadri, Soliman Bakr, Charles Schleien, Ann Marie Schmidt, Ravi Ramasamy. *Publication 8420.8*

8421 Clinical Problems

- 234* **Pediatric Patients with Myocarditis: A Multi-Institutional Analysis.** Darren Klugman, John T. Berger, Bassem N. Mora, Jianpeng He, Sachin G. Khandelwal, Anthony D. Slonim. *Publication 8421.1*
- 235* **Comparison of Pediatric Intensive Care Unit Admissions from Referring Hospitals Versus In-House Admissions.** Christopher J. Gregory, Farid Nasrollahzedah, Madan Dharmar, Kourosh Parsapour, James P. Marcini. *Publication 8421.2*
- 236* **NHLBI 2004 Blood Pressure Normative Values and Critically Ill Children.** Luan Chuen, Donald H. Shaffner, Anne-Marie Guerguerian. *Publication 8421.3*
- 237* **Equine-Related Critical Injuries in Children.** Roel J. Bolt, Marcel J.I.J. Albers. *Publication 8421.4*
- 238 **Decrease Mortality in Severe Enterovirus 71 Infection with a New Cardiovascular Medication Protocol.** Jeng S. Chang, Chien H. Lin, Shiou J. Lin, Bai H. Su, Tsu F. Yeh. *Publication 8421.5*
- 239* **Continuous Renal Replacement Therapy during Extracorporeal Membrane Oxygenation Is Not an Independent Risk Factor for Development of Chronic Renal Failure.** Matthew L. Paden, Barry L. Warsaw, Micheal L. Heard, James D. Fortenberry. *Publication 8421.6*
- 240 **Utility of PIVKA-II Assay in Differentiating the Etiology of Intracranial Bleeding in Infants.** Paul J. Bellino, Frank A. Maffei. *Publication 8421.7*
- 241* **Critical Illness Diabetes: High Prevalence in a Pediatric ICU and Successful Restoration of Normoglycemia with Insulin Using a Protocolized Approach.** Catherine M. Preissig, Pei-Ling Roerig, Atul Vats, Mark R. Rigby. *Publication 8421.8*

Infectious Diseases (PAS/PIDS)

8422 Staphylococcus

- 242* **Prevalence of Methicillin-Resistant *Staphylococcus aureus* (MRSA) Nasal Colonization (NC) in Children/Youth with Perinatally Acquired (PA) HIV Infection.** Eberechi Nwaobasi, Helen Kest, Echezona Ezeanolue, Beverly Nieves, Barry Dashefsky. *Publication 8422.2*
- 243* **Clinical Implications of Drug Resistance among Hospitalized Children with Community-Associated Staphylococcal Infections in Mid-Missouri.** Kristin Koehn, Amanda Schondelmeyer, Sayonara Mato. *Publication 8422.3*
- 244 **USA300 Is Prevalent among Hospital Acquired *Staphylococcus aureus* Isolates at Texas Children's Hospital.** Kristina Hulten, Linda Lamberth, Sheldon Kaplan, Wendy Hammerman, Jeffrey Starke, James Versalovic, Edward Mason. *Publication 8422.4*
- 245* ***Staphylococcus aureus* Nasal Colonization and Disease: Six Month Results from a Longitudinal Study.** Stephanie A. Lutter, Emma K. Epplin, Gregory A. Storch. *Publication 8422.5*
- 246* **Recurrent Community-Onset *Staphylococcus aureus* Infections in Children.** Claire E. Bocchini, Edward O. Mason, Kristina G. Hulten, Wendy A. Hammerman, Sheldon L. Kaplan. *Publication 8422.6*
- 247* **Defining Epidemic Methicillin-Resistant *Staphylococcus aureus* (MRSA) in the Community and Healthcare Environment; Death of the Risk-Factor Based Definition.** Daniel Glikman, Michael Z. David, Susan E. Crawford, Jie Peng, Kimberly King, Mark A. Hostetler, Susan Boyle-Vavra, Robert S. Daum. *Publication 8422.7*

- 248* **Methicillin Resistant Staph Aureus Infections in the First Year of Life: A Ten-Year Lookback of Cases at a Large US Birthing Center.** Ana Krishnan, Karen R. Carpenter. *Publication 8422.8*
- 249* **Pericarditis and Other Severe Community-Acquired Methicillin-Resistant Staphylococcus aureus Infections in Neonates and Infants at Driscoll Children's Hospital.** Tristan Flatt, Maria Ibarra, Jaime Fergie, Kevin Purcell. *Publication 8422.9*
- 250* **Molecular Characterization of Methicillin Resistant Staphylococcus aureus Strains (MRSA).** Matthew S. Pieper, Archana Chatterjee, Meera Varman, Daniel J. Wolter, Richard V. Goering. *Publication 8422.10*
- 251 **Staphylococcus aureus Toxins Associated with Impetigo.** Tatiana C.P. Cardenas, Richard V. Snyder, Patricia Mertz, Lisa R.W. Plano. *Publication 8422.11*
- 252 **Basis for Low Incidence of Methicillin Resistant S. aureus (MRSA) in a Pediatric Intensive Care Unit (PICU).** Philip Toltzis, Mary Ann O'Riordan, Michael Dul, Jeffrey Blumer. *Publication 8422.12*
- 253 **Molecular Epidemiology of Colonization and Disease-Causing Isolates of Community-Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA).** C. Buddy Creech, Isaac Thomsen, Andrew Alsentzer, Douglas S. Kernodle, Kathryn M. Edwards. *Publication 8422.13*
- 254* **Molecular and Clinical Epidemiology of Pediatric Staphylococcus aureus(SA) Disease in the National Capital Area.** Deena E. Sutter, Amy M. Summers, Margaret C. Bash. (Sponsored by Martin G. Ottolini) *Publication 8422.14*
- 255 **Incidence of Positive D-Tests (Inducible Clindamycin Resistance) in Community-Acquired and Hospital-Acquired Methicillin-Resistant Staphylococcus aureus (CA-MRSA, HA-MRSA) Isolates from Skin and Soft Tissue Infections and the Impact on Clinical Outcomes.** Virginia Hsu, Annie Chi, Xiaotian Zheng, Tina Q. Tan. *Publication 8422.15*
- 256 **Increase of USA300 among Community-Acquired Methicillin Susceptible Staphylococcus aureus.** Michelle McCaskill, Edward Mason, Wendy Hammerman, Linda Lamberth, Sheldon Kaplan, Kristina Hulten. *Publication 8422.16*
- 257* **Maternal Human Immunodeficiency Virus (HIV) Infection and Vertical Transmission of Cytomegalovirus (CMV).** E. Duryea, P.J. Sanchez, J. Sheffield, G. Jackson, G. Wendel, B. McElwee, L. Boney, M. Mallory, W. Engle, E. Stehel. *Publication 8422.17*

8423 Streptococcus

- 258* **Early Onset Group B Streptococcal (EOGBS) Infection in the Era of Intrapartum Antibiotic Prophylaxis (IAP) Is Associated with Negative Maternal Screens.** Laurie S. Pulver, Mindy McCurry, Gregory J. Stoddard, Paul C. Young, Carrie L. Byington. *Publication 8423.1*
- 259* **Invasive Group A Streptococcal Infections in a Large Tertiary Center: Epidemiology and Outcome.** Shruti Kant, Echezona E. Ezeanolue, Meena Vohra, Pisespong Patamasucon. *Publication 8423.2*
- 260* **Group A Streptococcal Bacteremia in Children.** Stefanie Koch, Asim Ahmed, Elizabeth Pfoh, Michael R. Wessels, Grace M. Lee. *Publication 8423.3*
- 261* **Group A Streptococcal Types and Acute Rheumatic Fever in a Highly Endemic Area: American Samoa.** Anna DODD, Guliz Erdem, Sandra Sinclair, Anita Tuua, Benjamin Tuua, Tagiilima F. I'atala, James R. Marrone, Amor Gonzales, Freida Taumua, Seini Biukuto, Edward L. Kaplan. *Publication 8423.4*
- 262* **Treatment Practices for Children Hospitalized with Invasive Group A Streptococcal Infections.** Aaron M. Burnett, Joseph B. Domachowske. *Publication 8423.5*
- 263* **Adherence Properties of Group A Streptococci Isolated from Acute Rheumatic Fever Patients in Hawaii.** Guliz Erdem, Carla Mizumoto, David Esaki, Noah Heilbrun, Lucienne Abe, Karen Yamaga, Edward L. Kaplan. *Publication 8423.6*

8424 Gram – Negative Infections

- 264 **Extended-Spectrum β -Lactamases: A Problem in Pediatrics?.** Anne J. Blaschke, Kent Korgenski, Judy Daly, Carrie L. Byington. *Publication 8424.1*
- 265 **Risk of Hemolytic Uremic Syndrome (HUS) after Antibiotic Treatment of Escherichia coli (E. coli) O157:H7 Infections: Interim Observations from a Continuing Prospective Cohort Study.** Craig S. Wong, Jody Mooney, John R. Brandt, Sandra L. Watkins, Phil I. Tarr. *Publication 8424.2*
- 266* **Identification of a New Genetic Locus That Controls Alginate Overproduction in a Cystic Fibrosis Isolate of Pseudomonas aeruginosa and Its Significance in the Resistance to the Host Defenses.** April E. Kilgore, Hongwei Yu. (Sponsored by Bobby Lynn Miller) *Publication 8424.3*
- 267* **An In Vivo Model of Human Lactobacillus and Neisseria Gonorrhoea Interactions.** Dawn F. Muench, Hong Wu, Afrin A. Begum, Ann E. Jerse. (Sponsored by Martin Ottolini) *Publication 8424.4*

8425 Meningitis

- 268* **Lyme Disease as a Cause of Aseptic Meningitis in Children in a Lyme-Endemic Region.** Kari Simonsen, Maia Rutman, Aris Garro, Gregory Lockhart, Jenifer Jaeger. (Sponsored by Penelope H. Dennehy) *Publication 8425.1*
- 269* **CSF Parameters in Neonates with Ventriculoperitoneal Shunts.** Robert W. Lenfestey, P. Brian Smith, M. Anthony Moody, C. Reese Clark, C. Michael Cotten, Patrick C. Seed, Daniel K. Benjamin, Jr. *Publication 8425.2*
- 270* **Serum Procalcitonin and Other Biologic Markers To Distinguish between Bacterial and Aseptic Meningitis in Children: A European Validation Study.** Francois Dubos, Bartosz Korczowski, Denizmen Aygun, Alain Martinot, Cristina Prat, Annick

Galetto-Lacour, Juan Casado-Flores, Francis Leclerc, Carlos Rodrigo, Alain Gervais, Gerard Breart, Dominique Gendrel, Martin Chalumeau. (Sponsored by Alexandre Lapillonne) *Publication 8425.3*

- 271*** **Avoiding Unnecessary Hospitalization and Antibiotic Treatment in Children with Aseptic Meningitis: Sensitivity of a Clinical Decision Rule in 890 Patients with Bacterial Meningitis.** Francois Dubos, France De la Rocque, Corinne Levy, Edouard Bingen, Yannick Aujard, Robert Cohen, Gerard Breart, the Bacterial Meningitis Study Group, Dominique Gendrel, Martin Chalumeau. *Publication 8425.4*

8426 Molecular Diagnostics

- 273*** **Development of Loop Mediated Isothermal Amplification Assay for Rapid Detection of Escherichia coli.** Tripti Singh, Joshua J. Hill, Chandra Ishwad, Ankur Goyal, Vinod K. Paul, Aarti Kapil, Philip Tarr, Shubham Gupta, Robert M. Wadowski, James R. Johnson, Abhay Vats. *Publication 8426.2*
- 274*** **Utilization of 16S Ribosomal DNA PCR Establishes an Etiologic Diagnosis in Pediatric Culture-Negative Infective Endocarditis.** Bazak Sharon, Chandy C. John, Patricia Ferrieri, K. Yeon Choi, Cindy M. Khan, Mark R. Schleiss. *Publication 8426.3*
- 275*** **Real-Time PCR of the Gene for 16 S rRNA Used for Detection of Bacteremia in a Material of Neonates with Suspected Neonatal Sepsis.** Andreas Ohlin, Jens Schollin. (Sponsored by Hugo Lagercrantz) *Publication 8426.4*
- 276*** **Effect of Antibiotics on Postnatal Gastrointestinal (GI) Bacterial Colonization in Term Newborns, Assessed Using Comparative Analysis of 16S rRNA Genes.** Rodica Turcu, Maria Patterson, Walid Khalife, Terry Marsh, Said Omar. *Publication 8426.5*

8427 Pharmacology

- 277** **Pharmacokinetics of Daptomycin in Pediatric Patients.** Gregory L. Kearns, Richard F. Jacobs, Hasan S. Jafri, Erica Fischer Hong, David P. Benziger. *Publication 8427.1*
- 278** **Pharmacokinetics (PK) & Safety of Caspofungin (CAS) in Children Ages 3 to 24 Months.** M. Neely, H. Jafri, N. Seibel, K. Knapp, P. Adamson, S. Bi, S. Bradshaw, X. Li, J. Stone, N. Kartsonis. *Publication 8427.2*
- 279** **Safety of Azithromycin in Neonates.** Hubert O. Ballard, Lori A. Shook. (Sponsored by Henrietta S. Bada) *Publication 8427.3*
- 280*** **Improving the Restricted Antibiotic Approval Process: A Web-Based Solution.** Allison L. Agwu, Carlton K.K. Lee, Sanjay K. Jain, Kara Murray, Jason Topolski, Robert E. Miller, Timothy Townsend, Christoph U. Lehman. *Publication 8427.4*

8428 Miscellaneous

- 281** **Apparent Increase in Kawasaki Disease (KD) Cases Refractory to Intravenous Immune Globulin (IVIG).** Negar Ashouri, Wilbert H. Mason. (Sponsored by Roberta Williams) *Publication 8428.1*
- 282*** **Do Bands Only Belong at Weddings? A Closer Look at Febrile Infants (Neonates) Less Than Twenty-Eight Days Old.** Shirley Delair, Helen Kest. *Publication 8428.2*
- 283*** **Microbial Products That Bind Toll-Like Receptors Promote T Cell Activation and Turnover.** Angel A. Luciano, Nicholas Funderburg, Wei Jang, Scott Sieg, Michael Lederman. *Publication 8428.3*
- 284*** **Alternating Antipyretics: Antipyretic Efficacy of Acetaminophen Versus Acetaminophen Alternated with Ibuprofen in Children.** Amy Thompson, Lynne C. Kramer, Peaches A. Richards, David Harper, Mary Fairchok. *Publication 8428.4*
- 285** **Unilateral Otitis Media (UOM) Versus Bilateral Otitis Media (BOM): Are There Etiological and Demographic Associations?.** Lara C. Aguilar, Ana-Carolina Soley, Adriano Arguedas. *Publication 8428.5*
- 286** **Tympanometric Findings in Young Children during URI with and without Acute Otitis Media.** Krystal Revai, Janak A. Patel, James J. Grady, Tasnee Chonmaitree. *Publication 8428.6*
- 287** **Modulation of IgE Production in Peripheral Blood Mononuclear Cells (PBMC) of Patients with Allergic Asthma by Chlamydomydia pneumoniae (Cpn).** Stephan A. Kohlhoff, Rauno Joks, Tara Kamath, Andrei Kutlin, Tamar Smith-Norowitz, Maja Nowakowski, Martin H. Bluth, Helen Durkin, Margaret R. Hammerschlag. *Publication 8428.7*
- 288*** **Characterization of Pulmonary Tuberculosis in Cotton Rats over 12 Months.** Robert L. Elwood, Val G. Hemming. *Publication 8428.8*
- 289** **Pulmonary Nontuberculous Mycobacterial Infections in Otherwise Healthy Children.** Alexandra F. Freeman, Andrew Demidowich, Thomas T. Rubio, Kenneth N. Olivier, Steven M. Holland. *Publication 8428.9*
- 290*** **Pediatric Neurocysticercosis – A Twenty Year Review.** Melanie Makhija, Jason Brophy, Dat Tran, Lee Ford-Jones, Jay Keystone. *Publication 8428.10*
- 291** **(Withdrawn) Update on Anthelmintics.** Peter J. Hotez. *Publication 8428.11*

Gastroenterology

8429 Intestine

- 292** **Saturable Intestinal Metabolism of Itraconazole (ITZ) Contributes to a Decrease in Bioavailability (F) of ITZ at Therapeutic Doses.** Robert E. Kimura, Sara K. Quinney, Raymond E. Galinsky, Stephen D. Hall. *Publication 8429.2*

- 293 **Decreased Ornithine Decarboxylase Activity in Infants with Chronic Diarrhea.** Chuan-Hao Lin, Vasundhara Tolia, Hernando Lyons. *Publication 8429.3*
- 294 **(Moved to Course 6430, Sunday 3:30pm) A Meta-Analysis of the Therapeutic Effects of Oral Zinc in Acute and Persistent Diarrhea.** Marek Lukacik, Ronald L. Thomas, Jacob V. Aranda. *Publication 8429.4*
- 295* **Are We Effectively Educating Adolescents with Inflammatory Bowel Disease?.** Lynelle Boamah, Michael Yi, Susan Moyer. *Publication 8429.5*
- 296 **Expectations from Future Healthcare among Adolescents with Inflammatory Bowel Disease.** Michael S. Yi, Thomas S. Webb, Joel Tsevat, Linda M. Goldenhar, M. Susan Moyer, Deborah L. Canfield, Ruth E. Wise, Maria T. Britto. *Publication 8429.6*

8430 Abdominal Wall Defects

- 297* **Intestinal Failure in Congenital Defects of the Abdominal Wall.** Corine Westenberg, Nicole de Silva, Paul W. Wales, Aideen M. Moore. *Publication 8430.1*
- 298* **Cisapride Exerts a Prokinetic Effect in Infants with Abdominal Wall Defects and Severe Dysmotility.** Meijian Zhao, Nicole T. de Silva, Aideen M. Moore, Jae H. Kim. *Publication 8430.2*

8431 Nutrition

- 299 **Growth and Metabolism of Infants Born to HIV Positive Mothers Fed a Biologically or Chemically Acidified Whey Adapted Starter Formula with or without Probiotics.** Peter A. Cooper, Sithembiso C. Velaphi, Mantoa Mokhachane, Keith D. Bolton. (Sponsored by Ekhard Ziegler) *Publication 8431.1*
- 300 **A New Amino Acid Formula Is Safe and Supports Normal Growth of Term Infants.** Carol L. Berseth, Deolinda Scalabrin, Susan H. Mitmesser, Cheryl L. Harris, Jon A. Vanderhoof. *Publication 8431.2*

Japan Pediatric Society Fellow Awardee
Keiichi Hayashi

- 301 **Simple but Underutilized Solution: Oral Rehydration Solution in Japan How Can We Promote This Simple but Effective Intervention Widely?.** Keiichi Hayashi. (Sponsored by David Stevenson) *Publication 8431.3*
- 302 **Formula Supplemented with Specific Prebiotic Blends Is Well Tolerated by Term Infants.** Jon A. Vanderhoof, Susan H. Mitmesser, Cheryl L. Harris, Suzanne I. Stolz, Carol L. Berseth. *Publication 8431.4*
- 303 **(Moved to Course 6430 Sunday 3:45pm) Supplementation of Orange Juice with Docosahexaenoic Acid Improves Plasma Phospholipid DHA Content of Children.** Keli M. Hawthorne, Steven A. Abrams, William C. Heird. *Publication 8431.5*

8432 Gastroesophageal Reflux

- 304 **Characterization of "pH Only" Acid Gastroesophageal Reflux Episodes in Infants.** Frederick W. Woodley, Parul Gulatti, Soledad Fernandez, Hayat Mousa. *Publication 8432.1*
- 305 **"pH Only" Acid Gastroesophageal Reflux Episodes Are Not Temporally Correlated with Respiratory Symptoms in Infants.** Hayat M. Mousa, Frederick W. Woodley, Christina Conklin, Christopher Rupert, Erica Cowoski. *Publication 8432.2*
- 306 **Bravo™ Capsule, a Catheter Free pH Monitoring System for Evaluation of Gastroesophageal Reflux Disease in Pediatrics and Adolescents.** Manoochehr Karjoo, Mirza Beg, Shannon Kesselring. *Publication 8432.3*

Neonatal Pulmonology

8433 Lung Development

- 307 **Novel Role of Inflammatory Factor NF-κB during Mouse Lung Embryogenesis.** Vedang A. Londhe, Hahn T. Nguyen, Xia Li, Changgong Li, Nianling Zhu, Parviz Minoo. *Publication 8433.1*
- 308 **IUGR Affects the Renin-Angiotensin System in the Developing Rat Lung.** E. O'Brien, C. Jiang, M. Dahl, A. Wint, C. Callaway, R. McKnight, K. Albertine, R. Lane. *Publication 8433.2*
- 309 **Effect of the β2-Adrenergic Agonist Albuterol on Parathyroid Hormone-Related Protein Signaling by Pulmonary Alveolar Type II Cells.** John S. Torday, A. Kasdi, F. Abed, Rieko Sakurai, Ying Wang, Jamie Santos, Virender K. Rehan. *Publication 8433.3*
- 310* **Transient in Utero Knockout (TIUKO) of CFTR Results in Permanent Physiologic and Histologic Changes in the Lungs of Sprague-Dawley Rats.** Joseph J. Hudak, III, J. Craig Cohen, Ashok Chandran, Janet E. Larson. *Publication 8433.4*
- 311 **Predicting Successful nCPAP Treatment in Newborn Infants: A Multivariate Analysis.** J. Swietlinski, T. Bachman, K. Bober, E. Gajewska, E. Helwich, R. Lauterbach, M. Manowska, B. Maruszewski, J. Szczapa, L. Hubicki, on Behalf of the Polish Study Group. (Sponsored by Josef Neu) *Publication 8433.5*
- 312* **Placental Growth Factor (PlGF) and Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2) in Lung Development and Lung Disease.** Joakim Janer, Sture Andersson, Riitta Karikoski, Caj Haglund, Patrik Lassus. *Publication 8433.6*
- 313 **Alveolar Type II and Type I Cell Markers Are Downregulated by Supraphysiologic Static Stretch.** Cherie D. Foster, Linda S. Varghese, Linda W. Gonzales, Susan S. Margulies. *Publication 8433.7*

- 314 **Ontogeny of Macrophage Migration Inhibitory Factor (MIF) in Murine Lung Development.** Katharine Kevill, Simone Degan, Lin Leng, Richard Bucala, Mary Sunday, Richard Auten. *Publication 8433.8*
- 315* **Intrauterine Growth Restriction Affects IGFBP-3 but Not IGF-1r Expression in the Developing Rat Lung.** R.F. Langen, R. McKnight, C. Calloway, M.A. Hale, X. Yu, R.H. Lane. *Publication 8433.9*
- 316* **Effect of Erythropoietin on Ion Transport and Fluid Movement across Respiratory Epithelial Cells in Culture.** Peter M. DeYoung, Arvinder K. Kapur, Pamela J. Kling, David P. Carlton. *Publication 8433.10*
- 317* **Expression of ENaC in Infants Born from Diabetic Pregnancies.** Cecilia Janer, Otto Helve, Olli M. Pitkanen, Sture Andersson. *Publication 8433.11*

8434 Hyperoxia/BPD Mechanisms

- 318 **Withdrawn Effects of Amygdalin on Primary-Culture Type II Alveolar Epithelial Cells (AEC II) Exposed to Hyperoxia.** Li W. Chang, Hua P. Zhu, Wen B. Li, Zhi H. Rong, Tsu F. Yeh. *Publication 8434.1*
- 319 **cPLA2 and sPLA2 Activities Are Not Altered in Hyperoxic Lung Injury in Mice.** Kathryn M. Heyob, Lynnette K. Rogers, Stephen E. Welty. *Publication 8434.2*
- 320 **Overexpression of Glutathione Reductase in Type-II Cells Does Not Attenuate Hyperoxia-Induced Lung Injury.** Kathryn M. Heyob, Lynette K. Rogers, Stephen E. Welty. *Publication 8434.3*
- 321 **Sublethal Hyperoxia Alters Hepatic but Not Pulmonary Thioredoxin-1 Levels in Newborn Mice.** Trent E. Tipple, Lynette K. Rogers, Leif D. Nelin, Stephen E. Welty. *Publication 8434.4*
- 322 **ERp57, an Endoplasmic Reticulum (ER) Protein, Reduces Hyperoxia-Induced ER Stress in Lung Epithelial Cells.** Dong Xu, Ike I. Ekekezie, Ricardo E. Perez, Angels Navarro, William E. Truog. *Publication 8434.5*
- 323* **Amniotic Fluid S100B, a Marker of Neuronal Damage, Correlates with the Severity of Fetal Hypoxia.** Anniina Kangas, Jari Petaja, Kari Teramo, Mikko Loukovaara, Sture Andersson. *Publication 8434.6*
- 324 **Clinical Characteristics of Patients Developing Bronchopulmonary Displasia.** Gaston P. Perez, Ricardo M. Nieto, Alejandro Dinerstein, Claudio L. Solana, Lidia Otheguy, Miguel Largaia. (Sponsored by Nestor Vain) *Publication 8434.7*
- 325* **Toll like Receptor-4 Is Expressed in the Fetal and Neonatal Lungs: Implication in Hyperoxia Induced Lung Injury.** Kamran Husain, Jeanette Camacho, Judy Saslow, Maitreyee Maheshwari, Tarek Nakhla, Riva Eydelman, Louise Strande, Robin Perry, Gary Stahl, Zubair Aghai. *Publication 8434.8*
- 326* **KL4-Surfactant (Surfaxin®) Protects Human Airway Epithelium from Hyperoxia.** Yan Zhu, Thomas L. Miller, Aaron C. Chidekel, Thomas H. Shaffer. *Publication 8434.9*
- 327* **Oxygen-Mediated Regulation of Hepatic Cytochrome P450 1A Enzymes in Mouse and Human Hepatoma Cells.** Megan G. McGuirk, Kushal Y. Bhakta, Xanthi I. Couroucli, Bhagavatula Moorthy. *Publication 8434.10*
- 328 **Heme Oxygenase-1 (HO-1) Localizes to the Nucleus in Hyperoxia.** Sacha Kassoovska-Bratinova, Guang Yang, Phyllis Dennery. *Publication 8434.11*
- 329 **Increased Expression/Activation of Matrix Metalloprotease-9 (MMP-9) in Hyperoxic Injury in Developing Lung.** Anne Chetty, Gong-gee Cao, Heber C. Nielsen. *Publication 8434.12*

8435 Apnea/Control of Breathing

- 330 **Aerodigestive Defenses Offered by Upper Esophageal Sphincter (UES) Are Altered in Infants with Multiple Apparent Life Threatening Events (ALTE).** Sudarshan Jadcherla, Alankar Gupta, Sue Johnson, Stephen Welty. *Publication 8435.1*
- 331* **Effects of Mechanical Inspiratory Duration on Neural Respiratory Activity in Preterm Infants.** Roberto Organero, Nelson Claire, Carmen D'Ugard, Alberto Estay, Nabeel Ali, Eduardo Bancalari. *Publication 8435.2*
- 332* **Developmental Changes in Brainstem Neurons Regulating Airway Caliber.** Amitai Z. Kohn, Zana Hoxha, Prabha Kc, Kannan V. Balan, Catherine A. Mayer, Christopher G. Wilson, Richard J. Martin, Musa A. Haxhiu. *Publication 8435.3*
- 333 **Laryngeal Stimulation Induced Apnea Persists in Four Week Old Rats and Is Prevented by Blocking GABAA Receptors.** Jalal M. Abu-Shaweesh. *Publication 8435.4*
- 334* **Natural History of Apnea of Prematurity in Ventilated and Non-Ventilated Preterm Infants.** Mohammed Y. Al-Hindi, Peter D. Faris, Reg Sauve, Shabih U. Hasan. *Publication 8435.5*

Neonatology

8436 CNS General

- 335* **Effect of Chorioamnionitis on Systemic and Cerebral Hemodynamics in the Developing Fetus.** Adegboyega Abdulkadir, Kimimasa Tobita, Hyagriv Simhan, Bradley Keller, Toby Yanowitz. *Publication 8436.1*
- 336* **The Effects of Dopamine on Cerebral Autoregulation in Hypotensive Premature Infants.** Marla K. Harrison, C. Heath Gauss, D. Keith Williams, Jeffrey R. Kaiser. *Publication 8436.2*
- 337* **Longitudinal Characterization of Continuous Regional Cerebral Oxygen Saturation (rSO2) for Preterm Infants.** Steven Chin, Mary Gregory, Jennifer Zheng, Brenda MacKinnon, Issa Al-Aweel, Cynthia Cole. *Publication 8436.3*

- 338 Hydrocortisone (HC) Effects on Cerebral Blood Flow Velocities (CBFV) in Premature Infants with Severe Chronic Lung Disease (CLD).** Gilles Cambonie, Renaud Mesnage, Christophe Milesi, Odile Pidoux, Aurelien Jacquot, Benedicte Veit, Jean-Charles Picaud. *Publication 8436.4*
- 339 Do Extreme Premature Infants Have Intact Cerebral Autoregulation?.** Eugene M. Dempsey, Dominique De Smet, Gunnar Naulaers, Joke Vanderhaegen, Sabine Van Huffel, Tom Kokottis, Keith J. Barrington. *Publication 8436.5*
- 340* Effect of Hyperoxia on Serine Phosphorylation of Apoptotic Proteins in the Cerebral Cortex of Newborn Piglets.** Nirav Desai, Qazi M. Ashraf, Eddie Chang, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8436.6*

8437 Genetics

- 341 Consanguinity Supporting a Genetic Predisposition to Preterm Birth.** Akaber Al Khamra, Ghina Mumtaz, Zeina Ghantous, Ziad Mahfoud, Pierre Zalloua, Raafat Raad, Khalid A. Yunis. *Publication 8437.1*
- 342 A Proteomic Approach Identifies Placental Proteins and Biochemical Pathways Relevant to the Pathogenesis of Maternal Disease.** William Dubinsky, Hugo Barrera-Saldana, Michael Fant. *Publication 8437.2*
- 343* Prevalence of Heat Shock Protein (HSP 47) Promoter Polymorphism among the African American NICU Patients and Full-Term Newborn Nursery Infant Population from Louisiana.** Ravi Kudumula, Krishna Yanamandra, Dawn Napper, Joseph A. Bocchini, Jr, Ramasubbareddy Dhanireddy. *Publication 8437.3*

8438 Patent Ductus Arteriosus

- 344* Spontaneous Closure of the Patent Ductus Arteriosus (PDA) in Very Low Birth Weight Infants with PDAs at Discharge.** Kristy K. Herrman, Matthew M. Laughon, Carl L. Bose. *Publication 8438.1*
- 345* Rate and Clinical Predictors of Ductus Arteriosus Re-Opening in Very Low Birthweight Infants.** Vlad Ianus, Martha Mance, Julie Nye, Richard Tucker, Ronald Clyman, James Padbury. *Publication 8438.2*
- 346 A Comparison of Efficacy of Medical Treatment of PDA with Indomethacin or Ibuprofen in a Population of Inborn Premature Infants < 28 Weeks' GA.** Xavier Durrmeyer, Karine Amorim Gomes, Nadya Yousef. (Sponsored by Elie Saliba) *Publication 8438.3*
- 346A (Moved from 6430, Sunday) Renal Function Maturation during the First Month of Life in Very Low Birth Weight (VLBW) Infants Treated with Ibuprofen (IBU) for Patent Ductus Arteriosus (PDA).** R. Vieux, J.M. Jellimann, I. Hamon, MC Buchweiller, J. Fresson, F. Boubred, D. Semama, F. Guillemin, J.M. Hascoet. *Publication 6430.7*
- 347* Cost-Effectiveness of Prophylactic Indomethacin (PIND) in Infants Born at <28 Weeks' Gestation.** E.S. Thingvoll, R.A. Sinkin, T.P. Stevens, K.K. Noyes. *Publication 8438.4*
- 348 The Effect of IV Ibuprofen on Renal Function and Platelet Levels in Infants <1000g Undergoing Treatment for a Patent Ductus Arteriosus (PDA).** G. Justin Richards, Grenville Fox, Morag E. Campbell. *Publication 8438.5*
- 349 Patent Ductus Arteriosus (PDA), Aortic Reversed Diastolic Flow, Indomethacin and Intestinal Perforation/Necrotizing Enterocolitis (IP/NEC) in Extremely Low Birth-Weight Infants.** Steven B. Powell, Jean M. Silvestri, Andrew J. Griffin, John W. Bokowski, Mark J. Holterman. *Publication 8438.6*
- 350 Outcome Following Repeated Treatment Courses of Ibuprofen for Patent Ductus Arteriosus in Extremely Low Birthweight (ELBW) Infants.** G. Justin Richards, Alice Johnson, Grenville Fox, Morag E. Campbell. *Publication 8438.7*
- 351 (Withdrawn) Differential Effects of Indomethacin vs. Ibuprofen in the Treatment of Patent Ductus Arteriosus on Plasma Free Bilirubin Levels.** Cathy Hammerman, Irena Shchors, Michael Schimmel, Ruben Bromiker, Michael Kaplan. *Publication 8438.8*
- 352 Ibuprofen (IBU) Treatment for Patent Ductus Arteriosus (PDA) Is Associated with Renal Function Impairment at One Week of Life in Very Low Birth Weight (VLBW) Infants.** R. Vieux, H. Straczek, R. Desandes, R.P. Giniger, D. Semama, H. Legagneur, F. Guillemin, J.M. Hascoet. *Publication 8438.9*
- 353 Does Timing of Surgical Ligation of Patent Ductus Arteriosus Have an Impact on the Incidence of Necrotizing Enterocolitis?.** Amuchou S. Soraisham, Mohammed F. Qureshi, Harish J. Amin. (Sponsored by Shabih U. Hasan) *Publication 8438.10*
- 354* Surgical Ligation of Patent Ductus Arteriosus Increase Pulmonary Morbidity in Very Low Birth Weight Infants.** Divya Rana, Prabhu Parimi. *Publication 8438.11*
- 355 Anesthesia for PDA Ligation in the Premature Infant.** Annie Janvier, Keith J. Barrington. *Publication 8438.12*
- 356* Effectiveness of Serial B-Type Natriuretic Peptide in Documentation of Patent Ductus Arteriosus Closure Following Indomethacin Therapy or Surgical Ligation.** Amarnath H. Chamkur, Bhagya L. Puppala, David Thoele, Lorene Schweig, Denise B. Angst. *Publication 8438.13*
- 357 B-Type Natriuretic Peptide To Guide Therapy of Patent Ductus Arteriosus: Results of a Randomized Controlled Pilot Trial.** Joshua T. Attridge, David A. Kaufman, D. Scott Lim. *Publication 8438.14*
- 358* Effects of Low Oxygen Saturation Limits on Closure of Ductus Arteriosus in Extremely Low Birth Weight Infants.** Shahab Noori, Devang Patel, Shahryar Zamani Noor, Philippe Friedlich, Istvan Seri, Bijan Siassi, Rangasamy Ramanathan. *Publication 8438.15*

- 359 **NT-proBNP and Patent Ductus Arteriosus in Preterm Infants.** Pracha Nuntnarumit, Pichaya Thanomsingh, Anant Khositseth. (Sponsored by Henrietta S. Bada) *Publication 8438.16*

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- 360* **Pre-Calculated Antibiotic Dosing Decreases Prescriber Medication Errors in Neonates.** Oluwatoyin A. Abiodun, Amy L. Mitchell, Joaquim M.B Pinheiro. *Publication 8439.1*
- 361* **Caffeine Intake Stunts Preterm Infant Growth.** Naeem A. Chaudhry, Sanithia Williams, Dennis M. Super, Deepak Kumar, Sharon Groh-Wargo. *Publication 8439.2*
- 362* **Chest Wall Rigidity and Laryngospasm Associated with Use of Fentanyl for Systemic Analgesia in Newborn Infants.** J.W. VanLooy, R.E. Schumacher, S. Sarkar. *Publication 8439.3*
- 363* **Domperidone Effect on QT Interval in Preterm Infants: A Pilot Study.** Marie-Helene Drouineau, Eric Dailly, Jean Michel Nguyen, Veronique Gournay. (Sponsored by Dominique Darmaun) *Publication 8439.4*
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- 365* **Neonatal Caffeine Persistently Reduces Sleep in Adult Rats.** Gaspard Montandon, Richard Kinkead, Richard L. Horner, Aida Bairam. (Sponsored by Bruno Piedboeuf) *Publication 8439.6*
- 366* **Impact of Neonatal Caffeine on Breathing across Sleep-Wake States in Adult Rats.** Gaspard Montandon, Richard Kinkead, Richard L. Horner, Aida Bairam. (Sponsored by Bruno Piedboeuf) *Publication 8439.7*

8440 Retinopathy of Prematurity

- 367 **Risk Factors for Retinopathy of Prematurity Stratified by Birth Weight Categories.** Kay D. Beharry, Harris Stutman, Zahra Gharraee, Rebecca J. Coleman, Mary Hasselman, Leslee Davis, Houchang D. Modanlou. *Publication 8440.1*
- 368 **The Impact of DHA & Fe on Retinal Vitamin E, Neuroprostanes and Na-K ATPase in a Rat Model of ROP.** Talkad Raghuvver, Jeff Radel, Gustavo Blanco, Maret Traber, Manju Reddy, Jackson Roberts. (Sponsored by Cheng Cho) *Publication 8440.2*
- 369 **Haptoglobin Genotype and Retinopathy of Prematurity.** Imad R. Makhoul, Eedy Mezer, Rachel Miller-Lotan, Alina Melamud, Olga Davkin, Polo Sujov, Avi Rotschild, Benjamin Miller, Orna Kochavi, Andrew P. Levy. *Publication 8440.3*
- 370 **Oxygen Management Practices in the NICU: Implications for the Prevention of Retinopathy of Prematurity.** Dan L. Ellsbury, Alan R. Spitzer. *Publication 8440.4*
- 371 **Insulin-Like Growth Factor-1 Levels May Predict the Development of Retinopathy of Prematurity.** Masami Mizobuchi, Koji Nomura, Hitomi Sakai, Tsuyoshi Egawa, Mayumi Yoshikata, Hideto Nakao, Hajime Nakamura. (Sponsored by David K. Stevenson) *Publication 8440.5*
- 372 **Reliability of a Risk Model for Estimating Risk of Laser Ablation and Poor Outcome Following Severe Retinopathy of Prematurity.** Melissa J. Batilando, Audrey Chia, Boon Long Quah. *Publication 8440.6*
- 373* **Clinical Practice and SpO₂ Technology in the Prevention of ROP in ELBW Infants.** Armando R. Castillo, Richard Deulofeut, Augusto Sola. *Publication 8440.7*

8441 Bilirubin/Neonatal Jaundice

- 374 **Transcutaneous Bilirubinometry in Hospital and Community Use.** Stephen Wainer, Yakov Rabi, Martha Lyon. (Sponsored by M. Jeffrey Maisels) *Publication 8441.1*
- 375 **Transcutaneous Bilirubinometry (TcB) in Term and Late Preterm Hispanic Neonates.** Susanna Lai, Gregory L. Jackson, William D. Engle. *Publication 8441.2*
- 376* **Attempt To Improve Transcutaneous Bilirubinometry. A Blind Study: Medick BiliMed vs Respironics BiliCheck.** Daniele De Luca, Enrico Zecca, Giada Barbato, Marco Marras, Costantino Romagnoli. (Sponsored by Giovanni Vento) *Publication 8441.3*
- 377* **Skin Bilirubin Nomogram Obtained with Multiwavelength Transcutaneous Bilirubinometry during the First 96 h of Life in an European Normal Healthy Newborn Population.** Daniele De Luca, Enrico Zecca, Giada Barbato, Marco Marras, Costantino Romagnoli. (Sponsored by Giovanni Vento) *Publication 8441.4*
- 378 **Transcutaneous Bilirubin (TcB) Levels in Outpatient Practice.** M. Jeffrey Maisels, Jennifer M. DeRidder, Elizabeth A. Krings. *Publication 8441.5*
- 379 **Should We Measure Direct Bilirubin (DB) Levels on All Infants in the Nursery?.** M. Jeffrey Maisels, Elizabeth A. Krings. *Publication 8441.6*
- 380 **Is Sternal Transcutaneous Bilirubinometer (TCB) Reading a Better Outpatient Screening Tool for Neonatal Hyperbilirubinemia (NH).** Ru-Jeng Teng, Patricia Williams, Tzong-Jin Wu, Mark L. Hudak. *Publication 8441.7*
- 381 **Noninvasive Assessment of Jaundice in Premature Newborns.** Danuta Jadamus-Niebroj, Janusz Swietlinski, Jan Zejda, Ewa Musialik-Swietlinska, Klaudiusz Bober, Teresa Owsianka-Podlesny. (Sponsored by Richard J. Schanler) *Publication 8441.8*

- 382 **Unbound, Not Total Bilirubin, Concentration Predicts Cytotoxicity *In Vitro*.** Sebastian D. Calligaris, Cristina Bellarosa, Pablo Giraudi, Richard P. Wennberg, J. Donald Ostrow, Claudio Tirebelli. *Publication 8441.9*
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- 385 **Effect of Storage and Freezing on Bilirubin-Albumin Binding Variables.** Sanjiv Amin, Charles Ahlfors. *Publication 8441.12*
- 386 **Hyperbilirubinemia and Language Delay in Premature Infants.** Sanjiv B. Amin, Diane Prinzing, Gary Myers. *Publication 8441.13*
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- 388* **Intravenous Immune Globulin Significantly Reduces the Need for Exchange Transfusions in Infants with Rhesus and ABO Incompatibility.** Kirsten Huizing, Jo Roislien, Thor W.R. Hansen. *Publication 8441.15*
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- 392 **Effect of the 2004 American Academy of Pediatrics Guidelines for Treatment of Neonatal Hyperbilirubinemia of Hemolytic Origin.** Michael Kaplan, Cathy Hammerman. *Publication 8441.19*
- 393 **Neonatal Apnea: A Potential Clinical Sign of Bilirubin Neurotoxicity in Infants with Excessive Hyperbilirubinemia.** Vinod K. Bhutani, Lois Johnson, Karen Karp. *Publication 8441.20*
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- 398 **What If They Knew? Caregivers Attitudes towards Very Premature Infants.** Annie Janvier, John Lantos, Marianne Deschenes, Elise Couture, Sophie Nadeau, Keith J. Barrington. *Publication 8442.1*
- 399 **Physician Medical Decision Making at the End of Life in Newborns: Insight in Considerations and Implementation.** Eduard A.A. Verhagen, Mark A.H. van der Hoeven, Pieter J. Sauer. *Publication 8442.2*
- 400* **The Interpersonal Physician Trust Scale Is Reliable and Valid for Use in Parents of NICU Infants.** Gerri R. Baer, Richard Ittenbach, Robert M. Nelson. *Publication 8442.3*
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- 404 **The Preferences of Mothers of Premature Infants for Participation in Decision-Making within the NICU. A Qualitative Study Using Grounded Theory.** Andres Maturana, Francisca Browne, Marcela Loyola, Jessica Mora, J. Pablo Beca, Paula Repetto, Victor Montori. (Sponsored by Fernando Moya) *Publication 8442.7*
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- 406* **Do Practices of Withdrawal of Life Sustaining Treatment in the NICU Reflect Parents' Preferences?.** Constance Williams, Hareesh Kirpalani, 'With Care' Team. *Publication 8442.9*
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- 412* **Effects of Hyperoxia with Brief Alternating Episodes of Hypoxia on Rat Retinal Vascular Endothelial Growth Factor (VEGF), VEGF Receptors and Pigment Epithelium-Derived Factor (PEDF).** Rebecca J. Coleman, Kay D. Beharry, Romy S. Brock, Patricia Abad-Santos, Matthew Abad-Santos, Houchang D. Modanlou. *Publication 8443.1*
- 413* **Hypoxia-Induced Up-Regulation of Anti-Apoptotic Protein Survivin in Newborn Piglet Brain.** Aspasia Fissikoudi, Qazi M. Ashraf, Maria Delivoria-Papadopoulos, Jahan Ara. *Publication 8443.2*
- 414* **Effect of Post-Hypoxic Inhibition of Caspase-9 Activity on the Expression of Active Caspase-9 and Active Caspase-3 Protein in the Cerebral Cortex of Newborn Piglets.** Purvi Jethva, Ming-Chou Chiang, Joanna Kubin, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8443.3*
- 415 **Effect of Inhibition of Ca⁺⁺-ATPase during Hypoxia on Post-Translational Modification (Tyrosine Phosphorylation) of the Apoptotic Proteins in the Cytosolic Fraction of the Cerebral Cortex of Newborn Piglets.** Monique Dalvi, Qazi M. Ashraf, Shivani Desai, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8443.4*
- 416* **Tyrosine Phosphorylation of Apoptotic Proteins during Hyperoxia in the Cytosol of the Cerebral Cortex of Newborn Piglets.** Jennifer L. Liao, Qazi M. Ashraf, Ming-Chou Chiang, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8443.5*
- 417 **Urinary Lactate to Creatinine Ratio (ULCR) in Full Term Infants with Hypoxic Ischemic Encephalopathy: (HIE): Predictor of Neuro-Developmental Outcome Following Whole Body Cooling.** William Oh. *Publication 8443.6*
- 418 **Mechanism of Calmodulin Modification (Tyr99 Phosphorylation) during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Om P. Mishra, Alan B. Zubrow, Joanna Kubin, Ming-Chou Chiang, Maria Delivoria-Papadopoulos. *Publication 8443.7*
- 419 **Post-Resuscitation Administration of N-Acetylcysteine Attenuates Cerebral Free Radical Generation during Reoxygenation of Hypoxic Newborn Piglets.** Tze-fun Lee, Lauren L. Jantzie, Kathryn G. Todd, Po-Yin Cheung. *Publication 8443.8*
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- 421* **Mechanism of Activation of Caspase-9 and Caspase-3 Activity during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Ming-Chou Chiang, Jahan Ara, Joanna A. Kubin, Maria Delivoria-Papadopoulos, Om P. Mishra. *Publication 8443.10*

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- 422* **Mechanism of Caspase-3 Activation and Nuclear DNA Fragmentation during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Ming-Chou Chiang, Jahan Ara, Saneyuki Yasuda, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8444.1*
- 423* **Mechanism of Activation of Pro-caspase-9 to Active Caspase-9 during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Ali E. McGregor, Lindsay Yohn, Qazi Ashraf, Om P. Mishra, Maria Delivoria-Papadopoulos. *Publication 8444.2*
- 424 **Bilirubin-Induced Cytotoxicity Involves of PTEN Activation *Via* an APE1/Ref-1-Egr-1-Dependent Pathway.** Laura Cesaratto, Sebastian D. Calligaris, Carlo Vascotto, Marta Deganuto, Cristina Bellarosa, Franco Quadrifoglio, Jay D. Ostrow, Claudio Tiribelli, Gianluca Tell. (Sponsored by Richard P. Wennberg) *Publication 8444.3*

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- 427* **IUGR Alters Cerebral Expression of the Leptin Receptor.** S. O'Grady, D. Caprau, L. Moyer-Mileur, M. Hale, X. Ke, X. Yu, C. Callaway, R. McKnight, R.H. Lane. *Publication 8444.6*
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- 434 **Suppressive Effect of Glycoursodeoxycholic Acid on the Inflammatory Response of Astrocytes to Unconjugated Bilirubin: Molecular Mechanisms.** Ana R. Vaz, Adelaide Fernandes, Ana S. Falcao, Sandra Silva, Rui F.M. Silva, Maria A. Brito, Dora Brites. (Sponsored by Thor W.R. Hansen) *Publication 8444.13*
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- 437 **Developmental Regulation of NMDA Receptor Subunits NR1, NR2 and NR3 in Human Parietal White Matter.** Delia M. Talos, Adam Numis, Nikolaus J. Sucher, Simon Manning, Rebecca D. Folkerth, Joseph J. Volpe, Frances E. Jensen. *Publication 8444.16*
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- 439 **Effects of Single and Multiple Courses of Maternal Dexamethasone Treatment on Tight Junction Proteins Expression in the Cerebellum of Fetal Sheep.** Grazyna B. Sadowska, Barbara S. Stonestreet. *Publication 8444.18*
- 440 **Effects of Single and Multiple Courses of Maternal Dexamethasone Treatment on Tight Junction Protein Expression in the Cerebral Cortex of Fetal Sheep.** Grazyna B. Sadowska, Shadi N. Malaeb, Barbara S. Stonestreet. *Publication 8444.19*
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- 442 **(Withdrawn) Cystine/Glutamate Exchanger Activity Is Required for Oligodendrocyte Survival.** Brian Sims, Melinda F. Clark, Elana Hopkins, Harald Sontheimer. *Publication 8444.21*
- 443 **IUGR Alters Hippocampal Phenotype and Expression of Genes Involved in NSC Differentiation.** C.M. Fung, X. Ke, J. Hui Feng, X. Yu, C.W. Callaway, M.E. Schober, R.A. McKnight, R.H. Lane. *Publication 8444.22*
- 444* **Puma Mediates Ethanol-Induced Neuronal Apoptosis in the Neonatal Mouse Brain.** Rune Toms, Barbara Klocke, Kevin A. Roth. (Sponsored by Namasivayam Ambalavanan) *Publication 8444.23*
- 445* **Diet-Induced Gestational Iron Deficiency (ID) Results in Long-Term Reduction of BDNF Signaling in Rat Hippocampus.** Phu V. Tran, Erik S. Carlson, Michael K. Georgieff. *Publication 8444.24*

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- 446 **Volumetric MRI Predicts Structural Changes in Preterm Infant Hippocampi Due to White Matter Injury and Steroid Exposure.** Deanne K. Thompson, Stephen J. Wood, Gary F. Egan, Lex W. Doyle, Simon K. Warfield, Gregory A. Lodygensky, Peter J. Anderson, Terrie E. Inder. *Publication 8445.1*
- 447 **Prematurity Delays Brain White Matter Tract Maturation: A Quantitative Study with DTI Tractography.** Jessica Dubois, Francois Lazeyras, Cristina Borradori, Stephane Sizonenko, Petra S. Huppi. *Publication 8445.2*
- 448 **Improved Pathology-Resistant Magnetic Resonance Spectroscopy Measurement of Regional Brain Absolute Temperature in Newborn Infants.** Nicola J. Robertson, Ernest B. Cady. *Publication 8445.3*
- 449* **Brain Development Evaluated by Two Different MR Imaging Segmentation Techniques in Preterm Neonates.** M. Benders, J. Dubois, F. Lazeyras, S. Warfield, M. Styner, M. Prastawa, P. Huppi. *Publication 8445.4*
- 450* **Quantitative MRI T2 Relaxometry of Diffuse White Matter Injury in Preterm Infants.** C. Hagmann, E. de Vita, A. Bainbridge, R. Gunny, K. Chong, E. Cady, A. Kapetanakis, D.G. Gadian, N.J. Robertson. *Publication 8445.5*
- 451* **The Diagnostic and Prognostic Value of Diffusion-Weighted MR Imaging in Neonatal Hypoglycemia.** Emily W.Y. Tam, Elysa Widjaja, Susan I. Blaser, Daune L. MacGregor, Prakash Satodia, Aideen M. Moore. *Publication 8445.6*
- 452* **Cerebellar Diffusivity on Neuroimaging Correlates with Intraventricular Hemorrhage in the Preterm Neonate.** Emily W.Y. Tam, Steven P. Miller, Duan Xu, Jeffrey I. Berman, Daniel B. Vigneron, A. James Barkovich, Donna M. Ferriero. *Publication 8445.7*
- 453* **Diffusion Tensor Imaging (DTI) and Diffusion Tensor Tractography (DTT) Using 48 Directions in Extreme Prematures at Term.** Holger Hovel, Sara Brockstedt, Ingrid Pupp, Lars Stenberg, David Ley, Jimmy Latt, Gergory Sorensen, Ruopeng Wang, Vineta Fellman, Elna-Marie Larsson. *Publication 8445.8*
- 454* **Proton Magnetic Resonance Spectroscopy of the Brain in Preterm, Correlation with Neurodevelopmental Outcome at One Year.** Elodie Zana, Catherine Garel, Caroline Farnoux, Francois Chalard, Pricilla Armoogum, Monique Elmaleh, Guy Sebag, Yannick Aujard, Olivier Baud. (Sponsored by Pierre Gressens) *Publication 8445.9*
- 455 **DTI Evidence for Regionally Selective Alterations in Cerebral Microstructure in the Premature Infant.** Amit Malhotra, Jeffrey J. Neil, Hong Wang, Lex W. Doyle, Terrie E. Inder. *Publication 8445.10*

- 456 **DTI Evidence of Persistence of the Ventricular Zone in Human Preterm Infants.** Amit Malhotra, Terrie E. Inder, Adrian Epstein, G. Larry Bretthorst, Joshua Shimony, Amit Mathur, Avi Snyder, Jeffrey J. Neil. *Publication 8445.11*
- 457* **Curvature and Allometric Scaling of the Cortex in Preterm Infants.** L. Srinivasan, H. Xue, S.J. Counsell, M.A. Rutherford, A.D. Edwards, J.V. Hajnal. *Publication 8445.12*
- 458* **Diffusion Tensor Imaging in a Novel Animal Model of Neurodevelopment.** Alan R. Barnette, Christopher D. Kroenke, Philip V. Bayly, Terrie E. Inder, Jeffrey J. Neil. *Publication 8445.13*
- 459* **Adverse Neurodevelopment in Preterm Infants with Sepsis/Necrotizing Enterocolitis Is Mediated by White Matter Injury.** Divyen K. Shah, Peter Anderson, Merilyn Bear, Lex Doyle, Rod Hunt, Terrie E. Inder. *Publication 8445.14*

8446 EEG & aEEG

- 460 **Developmental Maturation of Amplitude Integrated EEG (aEEG) Measures in Healthy Preterm Infants.** Amit Mathur, Sreevani Polineni, Zubin Segal, Divyen Shah, Connie Wong, Terrie Inder. *Publication 8446.1*
- 461* **Role of Amplitude Integrated Electroencephalography (aEEG) in Neonates with Cardiovascular Compromise.** Walid I. El-Nagger, Matthew Keyzers, Patrick J. McNamara. (Sponsored by Hilary Whyte) *Publication 8446.2*
- 462* **The Influence of Hyperbilirubinemia on the aEEG of Preterm Infants.** Jildou M. Duijvendijk, Christian V. Hulzebos, Peter H. Dijk, Arend F. Bos, Hendrik J. ter Horst. *Publication 8446.3*
- 463 **aEEG Trends and Effects of Neonatal Interventions in ELBW Infants within 48 Hours of Life: Can We Use It To Predict Severe Intracranial Hemorrhage?.** Lina F. Chalak, Jeffrey R. Kaiser. *Publication 8446.4*
- 464* **Amplitude Integrated Electroencephalogram (aEEG) Background Changes and Seizures during Therapeutic Whole-Body Hypothermia.** Mohamed El-Dib, An N. Massaro, Stephen Baumgart, Tammy Tsuchida, Billie Lou Short, Taeun Chang. *Publication 8446.5*
- 465* **Comparison of 2-Channel and 1-Channel Amplitude Integrated EEG with Respect to Seizure-Activity and Background Pattern.** Linda G. van Rooij, Mona C. Toet, Linda S. de Vries. (Sponsored by Floris Groenendaal) *Publication 8446.6*
- 466 **The Prognostic Value of Amplitude Integrated EEG in Neonatal Sepsis/Meningitis.** Hendrik J. ter Horst, Henk de Vries, Marleen van Olfen, Hyke Remmelts, Arend F. Bos. *Publication 8446.7*
- 467 **High Fidelity Recording of Brain Activity in the Extremely Preterm Babies: Feasibility Study in the Incubator.** Marjo Metsaranta, Sture Andersson, Sampsa Vanhatalo. *Publication 8446.8*
- 468* **Quality Improvement in Amplitude-Integrated EEG for Neonatal Encephalopathy.** Lynda Ken, Fozia Saleem-Rasheed, Sue Hieber, Sucheta Joshi, John Barks. *Publication 8446.9*
- 469 **Effectiveness of a Brief Course in Interpreting Amplitude Integrated Electroencephalograms in Term Newborns.** Elza Vasconcellos, Barry Chandler, Amed Soliz. *Publication 8446.10*
- 470* **Maturation Changes in Electroencephalogram (EEG) Activity in Very Preterm Infants.** H. Niemarkt, C. Lommen, P. Andriessen, J. Pasman, S. Bambang Oetomo. (Sponsored by Carlos E. Blanco) *Publication 8446.11*
- 471 **Quantitative EEG Measures within the First 4 Weeks of Life in VLBW Infants Relate to Brain Structure at Term.** Terrie E. Inder, Connie Wong, Hong Wang, Sreevani Polini, Simon K. Warfield, Amit Mathur, Divyen Shah. *Publication 8446.12*

8447 Miscellaneous

- 472 **Description of a New Model of Neonatal Intracerebral Hemorrhage in Mice Invalidated on the Plasminogen Activator Inhibitor-Type 1 (PAI-1) Gene.** Philippe Leroux, Peter Carmeliet, Vincent Laudenbach, Stephane Marret. (Sponsored by Pierre Gressens) *Publication 8447.1*
- 473 **Correlation between Superior Vena Cava Blood Flow (SVCF) and Estimation of Cerebral Blood Flow by Near-Infrared Spectroscopy (NIRS).** Monica Fumagalli, Federico Schena, Michela Groppo, Cecilia E. Preda, Agnese De Carli, Luca A. Ramenghi, Fabio Mosca. *Publication 8447.2*
- 474* **Early Neurological Behavior Change of 3-Day-Old Rats Subjected to Bilateral Ligation of the Common Carotid Artery.** Lan Hu, Chao Chen. (Sponsored by Sidhartha Tan) *Publication 8447.3*
- 475* **Ultrasound Findings in the Neonatal Period Have Low Predictive Value for Brain Abnormalities Seen on MRI at Teenage Years.** Zoltan Nagy, Anders Lilja, Olof Flodmark, Miriam Katz-Salamon, Hugo Lagercrantz. *Publication 8447.4*
- 476 **Deep Hypothermia (DH) in Treating Neonatal Asphyxia: Preliminary Data.** Gilberto Compagnoni, Gloria Cristofori, Roldano Astolfi, Elisa Agazzani, Laura Andaloro, Chiara Bottura. (Sponsored by Seetha Shankaran) *Publication 8447.5*
- 477 **Monitoring of NIRS-Determined Fractional Cerebral Oxygenation (ScO₂) in Preterm Infants: Comparing Left and Right Side.** Petra M.A. Lemmers, Frank van Bel. *Publication 8447.6*
- 478* **The Development of Maximum Length Sequence Brainstem Auditory Evoked Response in Preterm Infants after Perinatal Hypoxia.** Zhihua Li, Chao Chen, Zedong Jiang. (Sponsored by Robert Peter Jankov) *Publication 8447.7*
- 479 **Predictors of Maternal Stress in Prospectively Followed up Preterm Infants in Bangladesh.** Naila Z. Khan, Mallika Bhattacharya, Humaira Muslima, Nawshad U. Ahmed, Gary L. Darmstadt. *Publication 8447.8*
- 481 **A Human Neuronal Cell Line Shows Greater Bilirubin Cytotoxicity and Uptake Than a Non-Neuronal Cell Line.** Cristina Bellarosa, Pablo Giraudi, Sebastian D. Calligaris, Jay D. Ostrow, Claudio Tiribelli. (Sponsored by Richard P. Wennberg) *Publication 8447.10*

482* **Effect of Ibuprofen on Unbound Bilirubin Levels in Preterm Newborns.** Luc Desfrere, Julien Mourdie, Alexandre Barbier, Guy Moriette.
Publication 8447.11

8448 Clinical Studies

- 483 **Physiologic Brain Dysmaturity and Neurodevelopmental Outcome.** Mark Scher, John Turnbull, Kenneth Loparo, Mark Johnson, Diane Holditch-Davis. *Publication 8448.1*
- 484* **The Relationship between Intravascular Volume Replacement Therapy and Cerebral Hemorrhages during Venous Arterial ECMO.** Luella C. Gerrits, Amerik C. De Mol, Arno F.J. Van Heijst, Kian D. Liem. *Publication 8448.2*
- 485* **Neonatal Cerebral Oximetry Monitoring during ECMO Cannulation.** Jordana C. Fenik, Khodayar Rais-Bahrami, Oswaldo Rivera, Billie L. Short. *Publication 8448.3*
- 487* **Fluctuations in Cerebral Bloodflow Velocity by Using the Venous-Arterial Bridge in Extracorporeal Membrane Oxygenation.** Amerik C. de Mol, Arno F.J. van Heijst, Djien K. Liem. *Publication 8448.5*
- 488 **Heart Rhythm Fractal Dynamics Are Altered in Premature Infants with Impending Intraventricular Hemorrhage.** Volkan Tuzcu, Selman Nas, Umit Ulusar, Jeffrey R. Kaiser. *Publication 8448.6*
- 489 **Early Hypocarbemia Following Hypoxic-Ischemic Encephalopathy (HIE) Is Associated with an Increased Risk of Poor Outcome.** Athina Pappas, Seetha Shankaran. *Publication 8448.7*
- 490 **Phenobarbital Prophylaxis after Neonatal Seizures: Survey of Practice.** Ronnie Guillet, Jennifer Kwon. *Publication 8448.8*
- 491 **Clinical Neonatal Seizures Have No Independent Effect on Outcomes in the NRN Systemic Hypothermia Trial.** Jennifer M. Kwon, Ronnie Guillet, and the Hypothermia Subcommittee of the NICHD Neonatal Research Network. *Publication 8448.9*
- 492 **Therapeutic Hypothermia Changes the Prognostic Value of Clinical Evaluation of Neonatal Encephalopathy.** Alistair J. Gunn, John S. Wyatt, Andrew Whitelaw, John Barks, Denis Azzopardi, Roberta Ballard, David Edwards, Donna M. Ferrero, Peter D. Gluckman, Richard A. Polin, Charlene M. Robertson, Marianne Thoresen. *Publication 8448.10*
- 493* **Relationship between Opiate Exposure in the First Week of Life and IVH and PVL in VLBW Infants.** Ibrahim Ali, Fahad Al-Sufayan, Ronald J. Baier. *Publication 8448.11*
- 494* **Critical Periods of Fetal and Early-Childhood Brain Growth Predict Cognitive Function at Age Five Years.** Anusha H. Hemachandra, Mark A. Klebanoff. *Publication 8448.12*
- 495 **Neurologic and Cognitive Outcomes of Patients with Cerebellar Hemorrhage in the Neonatal Period.** Glenn Rosenbluth, Carol Leonard, Robert Piecuch. *Publication 8448.13*
- 496* **The Course of Cerebral Oxygen Saturation and Oxygen Extraction during the First Two Weeks of Life in Preterm Infants.** Elise A. Verhagen, Hendrik J. ter Horst, Paul Keating, Arend F. Bos. *Publication 8448.14*
- 497 **Comparison of Auditory Function between Very Preterm Infants with Chronic Lung Disease and Those without.** Ze D. Jiang, Andrew R. Wilkinson. *Publication 8448.15*
- 498* **Correlation of Severity of Neonatal Encephalopathy (NE) with Maximum Length Sequence (MLS) Auditory Brainstem Responses (ABR).** Jin Wang, Chao Chen, Xiaomei Shao, Zedong Jiang, David S.C. Lee. (Sponsored by Victor K.M. Han) *Publication 8448.16*
- 499* **Effect of Tocolytic Dose of Magnesium Sulfate for the Treatment of Preterm Labor on Neonatal Mortality and Morbidity among Preterm Infants.** Mayoor S. Bhatt, Lourdes M. Cohen, Susana Rapaport. *Publication 8448.17*
- 500* **The Quality of the Early Motor Repertoire Predicts the Degree of Motor Dysfunction in Children Suffering from Cerebral Palsy.** Janneke L.M. Bruggink, Christa Einspieler, Carel G.B. Maathuis, Paul Keating, Arend F. Bos. *Publication 8448.18*
- 501 **Genetic Thrombophilia (GT) Versus Environmental Risk Factors for Germinal Matrix Intraventricular-Haemorrhage (GMH-IVH) Occurrence in Very Low Birth Weight (VLBW) Infants.** Luca A. Ramenghi, Monica Fumagalli, Michela Groppo, Laura Bassi, Agnese De Carli, Loredana Gatti, Fabio Mosca. *Publication 8448.19*
- 502 **Histological Characterization of Neuromuscular Impairment in Fetal Spina Bifida Aperta.** Deborah A. Sival, Oebele F. Brouwer, Renate J. Verbeek, Krystyna M. Sollie, Arend F. Bos, Wilfred F. den Dunnen. *Publication 8448.20*
- 503 **Muscle Echogenicity Is Increased in Fetuses with Spina Bifida Aperta.** Renate J. Verbeek, Johannes H. van der Hoeven, Natasha M. Maurits, Krystyna M. Sollie, Arend F. Bos, Oebele F. Brouwer, Wilfred F. den Dunnen, Deborah A. Sival. *Publication 8448.21*
- 504 **White Matter Injury in Meningoencephalitis Due to Human Parechovirus.** Malgorzata A. Verboon-Macielek, Floris Groenendaal, Anton M. van Loon, Linda S. de Vries. *Publication 8448.22*
- 505 **Cystic Periventricular Leukomalacia Prevalence and Risk Factors in a Recent Cohort of VLBW Premature Infants - Role of Indomethacin.** S. Zanelli, J. Attridge, M. Gurka, A. Morris, D. Kaufman. *Publication 8448.23*
- 506 **A Phase I/II Trial of High Dose Erythropoietin in Extremely Low Birth Weight Infants: Pharmacokinetics and Safety.** Sandra E. Juul, Ronald J. McPherson, Kelly J. Ledbetter, Christine A. Gleason, Dennis E. Mayock, Jared F. Boasen. *Publication 8448.24*

8449 Inflammation

- 507* **Immediate Changes in Diffusivity after Inflammatory Brain Injury in Rat Pups at High Magnetic Field.** G.A. Lodygensky, A.M. Prantner, T.E. Inder, J.J. Neil. *Publication 8449.1*

- 508* **Lipopolysaccharide-Induced Sensitization and Tolerance to In Vitro Ischemia in a Murine Juvenile Organotypic Hippocampal Slice Culture.** Tina Markus, Tobias Cronberg, Corrado Cilio, Tadeusz Wieloch, David Ley. (Sponsored by Vineta Fellman)
Publication 8449.2
- 509 **Short Term Hyperoxia Stimulates T-Cell Receptor (TCR) V β 8.3b Gene Expression in the Brain of Neonatal Rats.** Dan Torbati, Balagangadhar R. Totapally, Andre Raszynski. (Sponsored by Amed F. Soliz) *Publication 8449.3*
- 510* **Inflammation-Induced Disruption of Oligodendrocytes and Its Link to Periventricular Leukomalacia in Preterm Infants.** Heather M. French, Michal Elovitz, Judy Grinspan, Rebecca A. Simmons. *Publication 8449.4*
- 511 **Does Membrane Attack Complex (MAC) of the Complement (C) Contribute to Hypoxic-Ischemic (HI) Brain Injury in Neonatal Mice?.** Vadim S. Ten, Marina Botto, Raymond Stark, B. Paul Morgan, Richard A. Polin. *Publication 8449.5*
- 512 **Cytokine Profiles in the Cerebellum of Hyperbilirubinemic Gunn Rat Pup Reveal Bilirubin Induced MIP1 α and IL-18 Activation.** Monica J. Daood, Jon F. Watchko. *Publication 8449.6*
- 513* **Inflammatory Changes in Germinal Matrix Hemorrhage in a Premature Rabbit Pup Model.** Paraskevi Georgiadis, H. Xu, C. Chua, F. Hu, L. Collins, C. Huynh, E.F. LaGamma, P. Ballabh. *Publication 8449.7*
- 514* **Cyclooxygenase-2 Mediates the Sensitizing Effects of Systemic IL-1 β on Excitotoxic Brain Lesions in Newborn Mice.** Geraldine Favrais, Leslie Schwendimann, Pierre Gressens, Vincent Lelievre. *Publication 8449.8*

8450 Hypoxic Ischemic Injury

- 515* **Resuscitation with 100% Oxygen in the Hypoxic Nicotine Exposed Piglet Augments Cerebral Necrosis; Nicotine Pretreatment Might Be Neuroprotective.** Jannicke H. Andresen, Ronnaug Solberg, Else Marit Loberg, Berit H. Munkeby, Babill Stray Pedersen, Ola Didrik Saugstad. *Publication 8450.1*
- 516 **Diffusion-Weighted Imaging Predicts Cerebral Palsy Phenotype after Fetal Hypoxia-Ischemia in Rabbits.** Alexander Drobyshevsky, Matthew Derrick, Alice M. Wyrwicz, P.V. Prasad, Xinhai Ji, Nina Sahay, Sidhartha Tan. *Publication 8450.2*
- 517* **Changes in Cerebral Perfusion and Late Neurological Outcome Following Various Re-Oxygenation Strategies in Neonatal Mice with Hypoxic-Ischemic Brain Injury.** Tara M. Randis, Sergei Slinko, Julia Ratner, Richard A. Polin, Vadim S. Ten. *Publication 8450.3*
- 518 **X-Linked Inhibitor of Apoptosis Protein Expression in the Neonatal Rat Brain Following a Stroke.** R. Askalan, R. Salewski, U. Tuor, C. Hawkins, J. Hutchison. *Publication 8450.4*
- 519* **Erythropoietin Administration after Cerebral Hypoxia Ischemia Affects SIRT1 and CYP19 mRNA Levels.** S. O'Grady, R. McPherson, D. Caprau, J. Nelson, R. McKnight, R. Lane, S. Juul. *Publication 8450.5*
- 520* **Does MEMRI Detect Apoptosis in the Rat Neonatal Hypoxic-Ischemic (HI) Stroke Model?.** Marius Wideroe, Christian Brekken, Annemieke Kavelaars, Jon Skranes, Frank van Bel, Ann-Mari Brubakk. *Publication 8450.6*
- 521* **Effects of Doxycycline on Neurogenesis, Neuroinflammation and Neuronal Survival in an Animal Model of Neonatal Hypoxia-Ischemia.** Lauren L. Jantzie, Po-Yin Cheung, Kathryn G. Todd. *Publication 8450.7*
- 522 **Protein Kinase C δ : Developmental Expression and the Role in Neonatal Hypoxia-Ischemia.** Alexis S. Davis, Daria Mochly-Rosen, Gary K. Steinberg. *Publication 8450.8*
- 523* **Perfusion-Weighted Imaging Patterns of Neonatal Hypoxic-Ischemic Encephalopathy.** Pia Wintermark, Adrien C. Moessinger, Francois Gudinchet, Reto Meuli. *Publication 8450.9*
- 524* **A Systematic Review of the Predictive Accuracy of aEEG in Infants with Hypoxic Ischemic Encephalopathy.** Tejpreet Kanwal, Sonia Simon, Noah Cook, Christopher Sigouin, Haresh Kirpalani. *Publication 8450.10*
- 525* **p53 Dependent Regulation of AIF in Neonatal Hypoxia-Ischemia.** Donald F. Meyn, Carey R. Harvey, Jayne N. Ness. *Publication 8450.11*
- 526 **Gelatinized Copper-Capillary Alginate Gel Scaffolds Loaded with MASCs for Transplant Following HI Brain Injury.** Tong Zheng, Bradley J. Willenberg, Fan-Wei Meng, Dennis A. Steindler, Michael D. Weiss. *Publication 8450.12*
- 527 **Neuroprotective Effects of Cyclosporin A in the Newborn Rats with Hypoxic-Ischemic Brain Injury.** Jonghee Hwang, Ga Won Chun, Su Hyun Koo, Yun Sil Chang, Won Soon Park, Munhyang Lee. *Publication 8450.13*
- 528* **Neonatal Hypoxic-Ischemic Encephalopathy Is Associated with Upregulation of the Chemokine CXCL5.** D. Meyn, L. Rosal, A. Melville, R.A. Sosa, R.D. Christensen, B. Sims, J. Ness, A. Maheshwari. *Publication 8450.14*
- 529* **In Vivo Detection for Penumbra of Cerebral Infarction in the Rat Brain by Manganese-Enhanced Magnetic Resonance Imaging (MEMRI).** Sin-Yeun Byun, Jiyoung Chang, Hoongi Kim, Keun Ho Lim, Hee Jin Cho, Ki-Soo Kim, Soo-Young Pi. *Publication 8450.15*
- 530 **The Male Disadvantage; the Role of Gender in the Cardiovascular Responses of the Preterm Fetus to Asphyxia.** Laura Bennet, Noha Ahmed-Nasef, Justin M. Dean, Guido Wassink, Josine Quaedackers, Alistair J. Gunn. *Publication 8450.16*
- 531* **Long-Term Neurodevelopmental Outcome in Rats after Hypoxic-Ischemic Insult on Day 7.** Wendy L. Osterling, H. Steve White, Joanna C. Beachy. *Publication 8450.17*
- 532 **Epidermal Growth Factor Receptor (EGFR) Kinase Activation Mechanism during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Om P. Mishra, Qazi M. Ashraf, Anli Zhu, Joanna Kubin, Maria Delivoria-Papadopoulos. *Publication 8450.18*

Neurology

8451 Mechanisms of Disease

- 533 **Mechanism of Activation of Neuronal Nitric Oxide Synthase during Hypoxia in the Cerebral Cortex of Newborn Piglets.** Om P. Mishra, Qazi M. Ashraf, Saneyuki Yasuda, Alan B. Zubrow, Maria Delivoria-Papadopoulos. *Publication 8451.1*
- 534 **Disease-Associated Mutations Affect Intracellular Traffic and Function of GPR56.** Xianhua Piao, Zhaohui Jin. *Publication 8451.2*
- 535* **The Antiseizure Medication Valproic Acid Regulates Catecholamine Production by a Threshold Concentration Dependent Effects on TH mRNA Synthesis and Degradation.** A. D'Souza, B.B. Nankova, E. Onem, P. Patel, E. LaGamma. *Publication 8451.3*
- 536 **Multipotent Neurospheres Can Be Derived from Forebrain Subventricular Zone of Newborn Piglets and Express VEGF and Its Receptors.** Jahan Ara, Anli Zhu, Sirma Koutzaki, Maria Delivoria-Papadopoulos. *Publication 8451.4*

8452 Health Services

- 537* **Patterns of Health Services Utilization by Children with Epileptic Seizures in British Columbia.** V. Schiariti, J. Hoube, S. Lisonkova, K. Farrell. (Sponsored by T. Oberlander)*Publication 8452.1*
- 538 **Hospital Variation in Cerebrospinal Ventricular Shunt Revisions in Children.** Jay Berry, Matt Hall, Vidya Sharma, Anthony Slonim, Samir Shah. *Publication 8452.2*
- 539 **Practice Parameters in Child Neurology: Do Pediatricians Use Them?.** James F. Bale, Jaime D. Bruse, David Folland, Deirdre Caplin. *Publication 8452.3*
- 540 **The Child Neurology Workforce Study: Pediatrician Opinions Regarding the Supply of Child Neurologists in the United States.** James Bale, Anne Anderson, John Bodensteiner, Mary Currey, Leon Dure, Donna Ferriero, Sean Firth, Roger Larson, Tom Koch, Kenneth Mack, Laura Ment, Leslie Morrison, Alan Percy, Daniel Polsky, Nina Schor, Ann Tilton. *Publication 8452.4*
- 541 **The Child Neurology Workforce Study II: Access and Satisfaction with Child Neurology Consultation.** James F. Bale, Anne Anderson, John Bodensteiner, Mary Currey, Leon Dure, Donna Ferriero, Sean Firth, Roger Larson, Tom Koch, Kenneth Mack, Laura Ment, Leslie Morrison, Alan Percy, Daniel Polsky, Nina Schor, Ann Tilton. *Publication 8452.5*

8453 Neuroimaging

- 542* **A Complementary Functional Neuroimaging Study of Pediatric Patients with Variable Recovery of Hand Function Following Stroke.** Trish Domi, David Mikulis, Manohar Shroff, Gabrielle deVeber. *Publication 8453.1*
- 543 **An Event-Related fMRI Paradigm To Study Overt Speech in Pediatric Subjects.** Amy J. Newmeyer, Jan-Mendelt Tillema, Scott Holland, Lisa Jacola. (Sponsored by David Schonfeld)*Publication 8453.2*

APS/SPR Student Research Program Awardee
Akshay Pendyal

- 544* **Effect of Language Task Difficulty on Cortical Activation in Normally Developing Pediatric Subjects.** Akshay Pendyal, Madison Berl, Eva Ritzl, Lisa Rosenberger, Deborah Weber, William Gaillard. *Publication 8453.3*

8454 Clinical

- 545 **Screening of Male Patients with Autism Spectrum Disorder for Defects in Creatine Transport and Metabolism.** Amy J. Newmeyer, Ton deGrauw, Joseph Clark, Gajja Salomons, Gail Chuck. (Sponsored by David Schonfeld) *Publication 8454.1*
- 546 **Follow up of Children with Language Regression.** Kathryn A. McVicar, Maria Valicenti-McDermott, Isabelle Rapin, Hannah A. Shova, Rachel Steinman, Karen Ballaban-Gil, Solomon L. Moshe, Shlomo Shinnar. *Publication 8454.2*
- 547* **Polymorphism in the Neuregulin Gene and Brain Damage in Preterm Newborns.** Wolfgang Bueter, Stephan Riemke, Marjan Brinkhaus, Michael Doerdelmann, Frank Dressler, Thilo Doerk, Christiane E.L. Dammann, Olaf Dammann. *Publication 8454.3*
- 548 **Familial Autoimmune Disease Increases the Risk for Recurrent Events in Pediatric Patients with Acquired CNS Demyelination.** E. Ann Yeh, Murali Ramanathan, Bianca Weinstock-Guttman. (Sponsored by Patricia K. Duffner) *Publication 8454.4*
- 549 **CRP and ESR Elevations Are Associated with Acute Exacerbations in Younger Pediatric Patients with Recurrent Demyelination.** E. Ann Yeh, Murali Ramanathan, Bianca Weinstock-Guttman. *Publication 8454.5*
- 550* **The Development of Visual Function in the Healthy Term and the Preterm Infants Evaluated by the the Tobii 1750 Eye Tracker System.** Fumika Yamaguchi, Kyoko Hirasawa, Masanori Tamura. (Sponsored by Jeffrey D. Horbar) *Publication 8454.6*
- 551 **Safety of High Dose Botulinum Toxin A in Children with Spasticity.** Edward Dabrowski, Sarah A. Smathers, James Chinarian, Charles Pelshaw, Gretchen Backer, Ronald L. Thomas, Jacob V. Aranda. *Publication 8454.7*
- 552 **Association between Rotavirus and Seizures in Children Hospitalized in Utah, 2002-2006.** Michael B. Lloyd, Jenifer C. Lloyd, Per H. Gesteland, James F. Bale. *Publication 8454.8*
- 553* **Chiari I Malformation in a Pediatric Population.** Leslie A. Aitken, Steven B. Hulley, Stephen Sidney, Mike E. Sorrel, Nalin Gupta, Yvonne W. Wu. *Publication 8454.9*

- 554 **The Reliability of Structured Methods for Neurodevelopmental Assessment of 0-2 Year-Old Children in Bangladesh.** Naila Z. Khan, Humaira Muslima, Nasreen Begum, Dilara Begum, Gary L. Darmstadt. *Publication 8454.10*

1:30pm–3:30pm

8700A Global Childhood Diseases Which Can Impair Development—Part III

PGPR Symposium ~ TCC, Room 701A

Target Audience: Researchers and clinicians interested and/or involved in all aspects of the study of childhood diseases which can impair development, and outcome research relating to long-term follow-up of children who have been affected by disease, in any setting.

Objective:

- Participants should be better able to understand childhood diseases in developing countries that can impair development, what research is being done and what research needs to be done

Chairs: Saroj Saigal, McMaster University, Hamilton, Ontario, Canada; and Stephen N. Wall, Saving Newborn Lives, Save the Children, Washington DC

The Programme for Global Paediatric Research (PGPR) includes paediatric researchers, societies, and other organizations committed to child health. It was formed in January 2004 to address the disparity between the scientific research resources available in high-income countries and the quantity of scientific research focused on the health of children in mid- and low-income countries. PGPR works at the centre of a global network to inform, educate and facilitate international research cooperation and collaboration, and acts as an advocate for research to improve the health of all children.

This three-part symposium will focus on childhood diseases in mid- and low-income countries which can impair development. Parts 1 and 3 will be comprised of expert presentations providing an overview of such diseases, instances of work being done to help children and region-specific information. Part 2 will feature platform presentations from selected abstracts on the topic of global childhood diseases which can impair development.

At the related PGPR workshop on May 9 colleagues from high-, mid-, and low-income countries will meet in order to examine the critical issues and establish clear plans for collaborative study and other action regarding research into outcomes for children in mid- and low-income countries who have been affected by disease.

1:30 The Effect of Plasmodium Falciparum on the Child's Brain

Charles RJC Newton, University College of London, London, UK

2:00 Neonatal Hyperbilirubinemia, Kernicterus and Subsequent Neurological Sequelae in Developing Countries

Tina Marye Slusher, University of Louisville, Louisville, KY

2:30 Birth Defects: Public Health Impact and Possible Strategies

Adlofo Correa

Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, Atlanta, Georgia

3:00 Iodine Deficiency: A Zambian Experience

Chifumbe Chintu, School of Medicine, University of Zambia, Lusaka, Zambia

1:45pm–3:45pm

8720 Infectious Complications After Renal Transplant

PAS/ASPN/PIDS Topic Symposium ~ TCC, Room 713AB

Target Audience: Pediatric nephrologists, infectious disease specialists, oncologists, gastroenterologists and transplant coordinators.

Objectives:

- Understand the epidemiology of viral diseases that with more potent immunosuppression are now complicating the post-transplant course
- Understand the use of selective BK virus surveillance in tailoring an approach to its management and treatment
- Understand new options for the treatment of PTLD within the context of reduced immunosuppression and monoclonal antibody therapy
- Understand the epidemiology and management of parvovirus and other viral infections that with the advent of prophylaxis for EBV and CMV disease are more problematic during the post-transplant course

Chairs: Michael J.G. Somers, Children's Hospital, Boston, Boston, MA; and Alicia Neu, University of Florida, Gainesville, FL

With increased graft and patient survival, pediatric renal transplant recipients are facing associated infectious complications that may lead to mortality with intact graft function. The goal of this symposium is to identify potential infectious causes of morbidity and mortality in allograft recipients, prevent these causes, and when appropriate, provide adequate treatment.

1:45 Infectious Complications: The NAPRTCS Experience

Jodi M. Smith, Children's Hospital and Regional Medical Center, Seattle, WA

2:15 BK Nephropathy in Children

Dechu P. Puliyaanda, Cedars-Sinai Medical Center, Los Angeles, CA

2:45 Post-Transplant Lymphoproliferative Disorder (PTLD): Update on Therapeutic Options

Steven A. Webber, University of Pittsburgh School of Medicine, Pittsburgh, PA

3:15 Parvovirus and Other Non-CMV/Non-EBV Viral Infections in Pediatric Transplantation

Upton D. Allen, University of Toronto and The Hospital for Sick Children, Toronto, Ontario, Canada

Sponsored jointly by the American Society of Pediatric Nephrology, Pediatric Infectious Diseases Society, North American Pediatric Renal Trials and Collaborative Studies and the Pediatric Academic Societies

2:00pm–4:00pm

8725 Preterm Resuscitation: Present Knowledge and an Agenda for the Future

PAS Hot Topic ~ TCC, Hall F

Target Audience: Neonatologists, pulmonary biologists, pharmacologists.

Objectives:

- Recognize the lack of knowledge about resuscitation of the preterm
- Understand the limitations of clinical evaluations of the preterm, e.g. oxygenation, tidal volumes
- Anticipate the potential to hyperventilate the preterm
- Recognize the limited value of the current use of drugs during resuscitation

Chairs: Colin Morley, University of Melbourne, Melbourne, Australia; and John Kattwinkel, University of Virginia, Charlottesville, VA

The new resuscitation guidelines for infants have just been released by the AAP and the AHA. There are few guidelines for resuscitation of the preterm because of inadequate knowledge. However, new information is being developed that will provide guidance in the future. This symposium will present what is known and what needs to be learned to establish an evidence base for resuscitation of the preterm.

2:00 Assessing the Preterm: Facts and Fiction

Colm P.F. O'Donnell, National Maternity Hospital and Our Lady's Children's Hospital, Dublin, Ireland

2:25 Oxygen—Essential, But How Much?

Peter Davis, Melbourne, Australia

2:50 Are Any Drugs of Use for Resuscitation of the Preterm Infant?

Myra H. Wyckoff, UT Southwestern Medical Center, Dallas, TX

3:15 Pressure, Tidal Volume and CPAP

Alan H. Jobe, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

3:40 Discussion

Supported by an unrestricted educational grant from International Pediatric Research Foundation

2:00pm–4:00pm

8730 The Use of Telemedicine to Improve the Quality of Care Provided to Pediatric Patients in a Variety of Outpatient and Inpatient Settings

PAS Hot Topic ~ TCC, Room 716A

Target Audience: The session will be beneficial for specialists at referral centers interested in telemedicine, for practitioners in rural and remote facilities (particularly rural and/or underserved communities) as well as for hospital and program administrators interested in telemedicine.

Objectives:

- Understand the technological, clinical and administrative needs of a telemedicine program
- Understand the variety of clinical settings that telemedicine can be used
- Understand the financial impact in which a telemedicine program can have on the remote and hub telemedicine sites

Chairs: James P. Marcin, UC Davis Children's Hospital, Sacramento, CA; and Sanford M. Melzer, Seattle Children's Hospital, Seattle, WA

The program will focus on the successes and pitfalls associated with implementation of telemedicine in a variety of outpatient and inpatient settings. It will include an introductory didactic presentation describing the basics of telemedicine including a brief technical description of telemedicine. International examples of current clinical programs will be presented. Discussion on these telemedicine programs' effect on quality of care, financial viability, sustainability, and benefits to remote communities will be discussed. There are programs from North America that have been providing specialty consultations to children in outpatient clinics, inpatient wards, Emergency Departments and Intensive Care Units to assist remote providers in the care of children with special healthcare needs, those victims of physical and sexual abuse and acute illness or injury. A panel is comprised of representatives from different specialties and different clinical environments.

2:00 Introduction and Overview of Telemedicine

James P. Marcin, UC Davis Children's Hospital, Sacramento, CA

2:10 Telemedicine in a Regional System of Pediatric Specialty Care

Sanford M. Melzer, Seattle Children's Hospital, Seattle, WA

2:30 Pediatric Telecardiology

Karen S. Rheuban, University of Virginia, Charlottesville, VA

- 2:50 International Tele-pediatrics**
Philip O. Ozuah, Albert Einstein College of Medicine, Bronx, NY
- 3:10 Inpatient, ED and ICU Telemedicine**
James P. Marcin, UC Davis Children's Hospital, Sacramento, CA
- 3:30 Alternative Applications in Telehealth**
Kourosh Parsapour, UC Davis Children's Hospital, Sacramento, CA
- 3:50 Discussion**

2:00pm–4:00pm

8750 Emergency Medicine III

PAS Platform Session ~ TCC, Room 716B

Chairs: Howard A. Kadish and Terry P. Klassen

- 2:00 Platelet Granzyme B Expression Is Increased in Sepsis: A Potential Mechanism for Sepsis-Associated Endothelial Apoptosis.** Robert J. Freishtat, JoAnne Natale, Joanna Cohen, Reecha Sachdeva, Lindsay M. De Biase, Eunis Ngor, Andrew Degnan, Angela S. Benton, Matthew Chow, Ervand Kristosturyan, Eric P. Hoffman. *Publication 8750.1*
- 2:15 Lorazepam Pharmacokinetics in Children with Status Epilepticus.** Edmund V. Capparelli, John van den Anker, Kathleen Brown, Jill Baren, Prashant Mahajan, Cheryl Vance, Kathleen Lillis, Rachel Stanley, Colleen Davis, Tasmeen Singh, Jeffrey Blumer, James Chamberlain, the Pediatric Pharmacology Research Unit Network, the Pediatric Emergency Care Applied Research Network. *Publication 8750.2*
- 2:30 Use of a Novel Triage Protocol Decreased Time in Department (TID) for Neonates with Hyperbilirubinemia Presenting to a Pediatric Emergency Department (ED).** Hannah F. Smitherman, Chantal A. Caviness, Ann R. Stark. *Publication 8750.3*
- 2:45 * Low Risk Criteria for Pelvic Radiography in Pediatric Blunt Trauma Patients.** Andrew T. Wong, KeriAnne B. Brady, David H. Rubin, David A. Listman. *Publication 8750.4*
- 3:00 Electronic Order Sets Promote Evidence-Based Corticosteroid Prescribing in Emergency Dept. Patients with Acute Asthma.** Scott D. Reeves, Ed Mendez, Beth Scheid, Stephanie Kennebeck. *Publication 8750.5*
- 3:15 A Randomized Trial of a Three-Part Intervention To Improve Primary Care Follow-Up after an Emergency Department Visit for Asthma.** Joseph J. Zorc, Amber Chew, Julian L. Allen, Kathy N. Shaw. *Publication 8750.6*
- 3:30 * Home Oxygen Therapy from the Emergency Department for Patients with Uncomplicated Bronchiolitis and Hypoxia.** Stephanie J. Todd, Genie E. Roosevelt, Joan P. Bothner, Lalit Bajaj. *Publication 8750.7*
- 3:45 Predicting Need for Intensive Care in Children Hospitalized with RSV Bronchiolitis.** Frank D. Petruzella, Elizabeth Powell. *Publication 8750.8*

2:00pm–4:00pm

8755 General Pediatrics V (Immunizations / Obesity)

PAS Platform Session ~ TCC, Room 701B

Chairs: John M. Olsson and Judith Shaw

- 2:00 Prevention of the Influenza B Outbreak during the 2005-06 Influenza Season through a Universal Vaccination Program in Children.** Pedro A. Piedra, Manjusha J. Gaglani, Claudia A. Kozinetz, Gayla Herscheler, Charles Fewlass, Dianne Harvey, Nadine Zimmerman, W. Paul Glezen. *Publication 8755.1*
- 2:15 How Likely Are Pediatricians To Give Vaccines in the Face of Inadequate Reimbursement?** A. Kempe, A.B. Francis, M.F. Daley, L.A. Crane, B.L. Beaty, C. Babbel, J. Barrow, S. Berman. *Publication 8755.2*
- 2:30 Impact of Pneumococcal Conjugate Vaccine on Acute Otitis Media in Young Children in the United States, 1997-2004.** Fangjun Zhou, Abigail Shefer, Yuan Kong, Pekka Nuorti. (Sponsored by Jeanne Santoli) *Publication 8755.3*
- 2:45 Developmental Outcomes among Children Receiving Prevnar™, 7-Valent Pneumococcal Conjugate Vaccine.** Steve Black, Eric France, Kimberly J. Center, John Hansen, Edwin Lewis, Jay Graepel, Betsy Hilton. *Publication 8755.4*
- 3:00 Neighborhood Greenness and Two-Year Body Mass Change in Urban Children.** Gilbert C. Liu, Janice Bell, Jeffrey Wilson. *Publication 8755.5*
- 3:15 Residential Density and Change in Two Year Change in Child Body Mass.** Gilbert C. Liu, Janice Bell, Jeffrey S. Wilson. *Publication 8755.6*
- 3:30 * What Is the Critical Age for Obesity Development in Early Childhood?** Melissa E. Glassman, Matilde Irigoyen, Sally E. Findley, Shaofu Chen. *Publication 8755.7*
- 3:45 Promoting Health in Teens and Kids (PHIT KIDS) Program: A Multidisciplinary Weight Management Program Pilot.** Sarah E. Hampl, Meredith L. Dreyer. *Publication 8755.8*