



Midwest Society for Pediatric Research

50th Annual Midwest Society for Pediatric Research Scientific Meeting



**October 7-9, 2009
Prentice Women's Hospital
Conference Center
Chicago, Illinois**

PROGRAM-AT-A-GLANCE

October 8-9, 2009
Prentice Women's Hospital Conference Center

TIME	ACTIVITY AND LOCATION
	WEDNESDAY, OCTOBER 7
4:00 pm – 6:00 pm	MWSPR Council Meeting 3 rd Floor Conference Center, Room P
	THURSDAY, OCTOBER 8
7:00 am – 8:00 am	MWSPR Registration and Continental Breakfast 3 rd Floor Conference Center
7:00 am – 8:00 am	Trainee Breakfast <i>Invited Speaker: Steve Simon, P. Mean Consulting</i> A Gentle Introduction to <i>P</i> Values, Confidence Intervals, and Bayesian Statistics 3 rd Floor Conference Center, L
8:00 am – 11:30 am	MWSPR Plenary Session I <i>State-Art-Speaker: Alan Schwartz</i> <i>Washington University</i> Ubiquitin, Protein Degradation and Human Pathogenesis 3 rd Floor Conference Center, L
12:00 pm – 12:15 pm	MWSPR Business Meeting 3 rd Floor Conference Center, L
12:15 pm – 1:30 pm	Founder and Sutherland Award Luncheon 3 rd Floor Conference Center, L
1:30 pm – 4:45 pm	MWSPR Plenary Session II <i>State-of-the-Art Speaker: James W. Collins, Jr.</i> <i>Northwestern University</i> New Insights Into The Racial Disparity In Birth Outcomes: A Life-Course Perspective 3 rd Floor Conference Center, L
4:45 pm – 6:30 pm	Reception and Combined Poster Session 3 rd Floor Conference Center, Atrium
6:30 pm – 9:00 pm	Anniversary Reception and Dinner <i>(Pre-Reservations required)</i> <i>Invited Speaker: Tonse Raju</i> <i>National Institutes of Health</i> Some Historical Milestones on Infant Care and Pediatric Research in the 20th Century Drake Bros. Restaurant, Drake Hotel

	FRIDAY, OCTOBER 9
7:00 am – 8:00 am	MWSPR Registration and Continental Breakfast 3 rd Floor Conference Center
8:00 am – 9:00 am	Grand Rounds Whence Personalized Therapeutics for Children <i>Invited Speaker: Stephen Spielberg, University of Missouri School of Medicine-Kansas City</i> Canning Auditorium
9:00 am – 11:00 am	MWSPR Plenary Session III Canning Auditorium
1:00 pm – 2:00 pm	Lunch and Award Presentations 3 rd Floor Conference Center, L

This meeting has been made possible in part through the generosity of our supporters and the research efforts of the faculty, fellows, residents, medical and graduate students. We are very proud of the extent and breadth of our research programs and activities, and we trust that you will enjoy the activities of the meeting. We would like to thank the abstract reviewers for their time and effort in the review process in this important endeavor.

MWSPR Planning Committee

Howard Kilbride, MD – President
Matthew Goldsmith, MD – President-Elect
Robert Hoffman, MD – Secretary-Treasurer

Acknowledgements

The Midwest Society for Pediatric Research would like to thank the following organizations for their generous support:

INO Therapeutics, LLC
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**50th Annual Midwest Society for Pediatric Research
Scientific Meeting**

**Thursday, October 8, 2009
7:00 am – 6:00 pm**

MWSPR Plenary Session I

7:00-8:00 am Registration and Continental Breakfast

7:00-8:00 am Trainee Breakfast
**A Gentle Introduction to *P* Values, Confidence
Intervals, and Bayesian Statistics**
Steve Simon, *P. Mean Consulting*
3rd Floor Conference Center, Room L

Course objectives:

- * distinguish between statistical significance and clinical significance;
- * define and interpret *P* values; and
- * explain the ethical issues associated with inadequate sample sizes.

8:00 am Welcome and Introduction
Howard Kilbride

Matthew Goldsmith and J. Carter Ralphe, Presiding

8:05 ***State-of-the-Art Speaker***
**UBIQUITIN, PROTEIN DEGRADATION AND HUMAN
PATHOGENESIS.**
Alan Schwartz, Washington University

**9:00 DEVELOPMENTAL INFLUENCES ON THE INNATE
IMMUNE AND CARDIOVASCULAR RESPONSES TO
SEPSIS.** *WA Luce, H Huang, B Han, J Xue, B Schanbacher, and
JA Bauer, Columbus, OH. The Ohio State University*

Abstract 1

**9:15 DIFFERENTIAL EFFECTS OF EXENATIDE AND
CAPTOPRIL ON GLUCOSE HOMEOSTASIS AND
SURVIVAL IN A MURINE MODEL OF DILATED
CARDIOMYOPATHY.** *AK Vyas, PW Hruz, K Yang, and PY
Jay, St. Louis, MO. Washington University*

Abstract 2

- 9:30 HYPOXIA PROMOTES PROLIFERATION OF PULMONARY ARTERY SMOOTH MUSCLE CELLS THROUGH INDUCTION OF FOXM1 BY HYPOXIA-INDUCIBLE FACTOR.** *A Raghavan, H Racherla, R Ramachandran, P Raychaudhuri, G Zhou, and JU Raj, Chicago, IL. University of Illinois at Chicago* Abstract 3
- 9:45 BRONCHOPULMONARY DYSPLASIA AND POLYMORPHISMS OF PULMONARY VASCULAR GENES.** *RS Rose, J Jung, T Faroud, H Edenberg, DA Ingram, J Murray, J Dagle, S Abman, P Mourani, and BB Poindexter, Indianapolis, IN, Iowa City, IA, and Denver, CO. Indiana University School of Medicine* Abstract 4
- 10:00 DOES MORBIDITY PARALLEL MORTALITY FOR EXTREMELY PREMATURE INFANTS? AND WHAT WOULD IT MEAN IF IT DIDN'T?** *B Andrews, J Lagatta, L Caldarelli, B Spelke, W Meadow, Chicago, IL. University of Chicago* Abstract 5
- 10:15 NEONATAL VISUAL ACTIVATION RESPONSE USING DIFFUSE OPTICAL IMAGING.** *SM Liao N Gregg, S Ferradal, B White, A Mathur, T Inder, and J Culver, St. Louis, MO. Washington University* Abstract 6
- 10:30 BREAK**
- 10:45 EFFECTS OF A NOVEL MATERNAL UTERINE SPACE RESTRICTION MODEL ON FETAL KIDNEY DEVELOPMENT IN SHEEP.** *KM Meyer, JM Koch, JM Habeck, SE Blohowiak, J Ramadoss, PJ Kling, and RR Magness, Madison, WI. University of Wisconsin* Abstract 7
- 11:00 HYDROCORTISONE NORMALIZES HYPEROXIA-INDUCED PDE5 ACTIVITY IN LAMBS WITH PERSISTENT PULMONARY HYPERTENSION OF THE NEWBORN.** *M Perez, S Lakshminrusimha, L Czech, SF Gugino, JA Russell, RH Steinhorn, and KN Farrow, Chicago, IL and Buffalo, NY. Northwestern University* Abstract 8

- 11:15 THE GENETIC ARCHITECTURE OF CONGENITAL HEART DISEASE.** *PY Jay*, St. Louis, MO. *Washington University in St. Louis* Abstract 9
- 11:30 GENETIC AND ENVIRONMENTAL FACTORS CONTRIBUTE TOWARDS VERTEBRAL MALFORMATIONS.** *PF Giampietro*, CL Raggio, and RD Blank, Madison, WI and New York, NY. *University of Wisconsin-Madison* Abstract 10
- 11:45 BNIP3 BINDS TO POSH TO PROMOTE PRO-APOPTOTIC JNK SIGNALING IN CARDIOMYOCYTES** *M Wilhelm*, M Maes, and JC Ralphe, Madison, WI. *University of Wisconsin, Madison* Abstract 11
- 12:00 MWSPR Business Meeting**
- 12:15 FOUNDER AND SUTHERLAND AWARD LUNCHEON**
Atrium

MWSPR Plenary II

Raghavendra Rao and Deanne Costello, Presiding

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| 1:30 | <p><i>State-of-the-Art Speaker</i>
 NEW INSIGHTS INTO THE RACIAL DISPARITY IN BIRTH OUTCOMES: A LIFE-COURSE PERSPECTIVE.
 <i>James W. Collins, Jr., Northwestern University</i></p> |
|-------------|---|
- 2:30 MINOCYCLINE ATTENUATES CEREBELLAR MICROGLIAL ACTIVATION IN VIVO DURING BILIRUBIN ENCEPHALOPATHY IN HYPERBILIRUBINEMIC GUNN RAT PUPS.**
B Raveendran, MJ Daood, and JF Watchko, Pittsburgh, PA.
Pittsburgh Abstract 12
- 2:45 IMPACT OF EARLY VERSUS LATE HYPOXIA ON THE IMMATURE FERRET BRAIN.** *J Tao*, T Inder, J Neil, J Griffith, and A Barnette, St. Louis, MO. *Washington University*
 Abstract 13

- 3:00 DETERMINATION OF OXIDATIVE METABOLISM IN THE DEVELOPING RAT BRAIN USING IN VIVO ¹³C NMR SPECTROSCOPY.** *K Ennis, R Rao, P Henry, and D Deelchand, Minneapolis, MN. University of Minnesota*
Abstract 14
- 3:15 BREAK**
- 3:30 LOWER COMPLEMENT C4 GENE COPY NUMBER IS A GENETIC RISK FACTOR FOR TYPE 1 DIABETES MELLITUS IN PEDIATRIC PATIENTS.** *SE Kingery, Y Wu, B Zhou, RP Hoffman, and C Yu, Columbus, OH. Nationwide Children's Hospital*
Abstract 15
- 3:45 ELECTRICAL PACING OF RAT ENGINEERED CARDIAC TISSUE (ECT) IMPROVES CARDIAC FUNCTION BY INCREASING CARDIOMYOCYTE DIFFERENTIATION AND SURVIVAL.** *WJ De Lange, CW Tong, and JC Ralphe, Madison, WI. University of Wisconsin*
Abstract 16
- 4:00 UREAPLASMA, A COMMON PATHOGEN ASSOCIATED WITH PRE-TERM LABOR, CAUSES A DISTINCT CYTOKINE EXPRESSION PATTERN IN HUMAN EPITHELIAL CELLS.** *JA Devalk and KN Fillingame, Madison, WI. University of Wisconsin-Madison*
Abstract 17
- 4:15 GENETIC ADMIXTURE AND PARENTAL AFFECTS ON PRETERM BIRTH IN ARGENTINA.** *PC Mann, E Gadow, V Cosentino, E Castilla, C Saleme, J Dagle, and J Murray, Iowa City, IA, Buenos Aires and Tucuman, Argentina. University of Iowa Children's Hospital*
Abstract 18
- 4:30 POSTER SESSION – Atrium**
- 6:30 ANNIVERSARY RECEPTION AND DINNER
Drake Bros. Restaurant, Drake Hotel
(Pre-Reservations required)**
Invited Speaker: Tonse Raju, National Institutes of Health
Some Historical Milestones on Infant Care and Pediatric Research in the 20th Century

FRIDAY, OCTOBER 9, 2009

8:00 am – 12:15 pm

MWSPR Plenary III

Kristin Melton and Rob Kimura, Presiding

- 8:00** **PEDIATRIC GRAND ROUNDS**
Whence Personalized Therapeutics for Children
Stephen Spielberg, *University of Missouri School of Medicine-Kansas City*
- 9:00** **HEMOGLOBIN GENE EXPRESSION IN THE LUNG IS REDUCED IN IDIOPATHIC PNEUMONIA SYNDROME (IPS).** *G Tiptur Mahadevaiah, KV Tram, and A Panoskaltis-Mortari, Minneapolis, MN. University of Minnesota*
Abstract 19
- 9:15** **BLOOD OUTGROWTH ENDOTHELIAL CELL BASED ENOS GENE THERAPY ATTENUATES MONOCROTALINE INDUCED PULMONARY HYPERTENSION IN RATS.** *A Somani, SL Nair, LC Milbauer, S Sajja, A Solovey, and RP Hebbel, Minneapolis, MN. University of Minnesota*
Abstract 20
- 9:30** **THE IMPACT OF SECOND HAND SMOKE EXPOSURE ON CARDIOVASCULAR FUNCTION IN CHILDREN IS AGE DEPENDENT.** *H Huang, J Groner, B Han, B Hashiguchi, and JA Bauer, Columbus, OH. The Ohio State University*
Abstract 21
- 9:45** **EFFECTS OF PRENATAL INFLAMMATION ON CARDIAC FUNCTION AND REDOX STATUS IN ADULTHOOD.** *B Han, H Huang, B Schanbacher, WA Luce, JA Bauer, and PJ Giannone, Columbus, OH. The Ohio State University*
Abstract 22
- 10:00** **CYCLIC STRETCH INCREASES CYTOSOLIC OXIDATIVE STRESS AND SOLUBLE GUANYLATE CYLCASE EXPRESSION IN FETAL PULMONARY ARTERY SMOOTH MUSCLE CELLS.** *MR Shah, C Smith, L*

Czech, SF Gugino, JA Russell, P Schumacker, RH Steinhorn,
and KN Farrow, Chicago, IL and Buffalo, NY. *Northwestern
University* Abstract 23

10:15 BREAK

10:30 cMYBP-C NULL MOUSE HEARTS DEMONSTRATE UPREGULATION IN METABOLIC GENES ON POST-NATAL DAY 10 PRIOR TO DEVELOPMENT OF HYPERTROPHY. *JC Ralphe, T Brost, RL Moss, and WJ De Lange, Madison, WI. University of Wisconsin* Abstract 24

Unable to Present

ROLE OF PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR BINDING PROTEIN (PPARBP) IN THE PROLIFERATION OF HUMAN PULMONARY ARTERY SMOOTH MUSCLE CELLS IN HYPOXIA.

P Turaka, J Sarkar, and JU Raj. Chicago, IL. University of Illinois at Chicago Abstract 25

10:45 HYPEROXIA INDUCES ENDOPLASMIC RETICULUM (ER) STRESS IN NEONATAL RAT LUNGS AND CULTURED LUNG EPITHELIAL CELLS. *D Xu and RE Perez, Kansas City, MO. University of Missouri-Kansas City* Abstract 26

11:00 MOUSE ENGINEERED CARDIAC TISSUE: A NOVEL PLATFORM FOR STUDYING THE PHYSIOLOGICAL EFFECTS OF HCM-CAUSING MUTATIONS ON CARDIAC FUNCTION. *WJ De Lange, CW Tong, RL Moss, and JC Ralphe, Madison, WI. University of Wisconsin* Abstract 27

11:15 NEONATAL PMN EXHIBIT A DIFFERENTIAL RESPONSE TO TNF-RELATED APOPTOSIS INDUCING LIGAND (TRAIL)-MEDIATED INFLAMMATORY AND APOPTOTIC STIMULI. *A Maddox and JM Koenig, St. Louis, MO. Saint Louis University* Abstract 28

11:30 ROLE OF RED CELL GLUCOSE METABOLISM IN SICKLE CELL DISEASE.

JG Ross, SC Rogers, D Corcuera, D McLaughlin, K Patel, MR DeBaun, and A Doctor, Saint Louis, MO. Washington University in St. Louis Abstract 29

11:45 EXUBERANT HYPEROSSIFICATION AND SKELETAL OVERGROWTH CAUSED BY A GAIN OF FUNCTION MUTATION IN THE NOVEL RPZ GENE. *MI Goldsmith, J Green, and B Gong, St. Louis, MO. Washington University School of Medicine* Abstract 30

12:00 EFFECT OF PRENATAL CHOLINE SUPPLEMENTATION ON KIDNEY DEVELOPMENT IN IRON DEFICIENCY. *JC Wooley, KM Meyer, AM Siddappa, MK Georgieff, PJ Kling. Madison, WI. University of Wisconsin* Abstract 31

12:15 MWSR KENNY, METCOFF, AND STUDENT RESEARCH AWARD LUNCHEON – Atrium

POSTER SESSION

1 ORTHOSTATIC PROTEINURIA AND BODY MASS. *US Alon, L Hornberger, and M Dishon-Alon, Kansas City, MO. University of Missouri* Abstract 32

2 LONG CHAIN POLYUNSATURATED FATTY ACID LEVELS IN U.S. DONOR BREASTMILK. *ML Baack, T Colaizy, A Norris, and J Yao, Iowa City, IA. University of Iowa* Abstract 33

3 EARLY HYDROCORTISONE THERAPY AND SHORT TERM OUTCOMES IN PERSISTENT PULMONARY HYPERTENSION OF THE NEWBORN. *ET Culp and J Muraskas, Dyer, IN and Maywood, IL. Loyola University Medical Center* Abstract 34

4 IMPACT OF BACK-UP VIRAL ISOLATION OR PCR TESTING ON CLINICAL MANAGEMENT OF HOSPITALIZED CHILDREN. *JC Day, R Selvarangan, and A Myers, Kansas City, MO. Children's Mercy Hospitals & Clinics* Abstract 35

- 5 **CEREBRAL OXYGENATION, PHYSIOLOGIC STABILITY AND DEVELOPMENTAL OUTCOME IN PRETERM INFANTS.** *SJ Desai, N Porta, JY Khan, A Lossia, and R deRegnier, Chicago, IL. Northwestern University*
Abstract 36
- 6 **PREVELANCE OF STRESS REFERENCES ON COLLEGE FRESHMEN'S FACEBOOK PROFILES.** *KE Egan and MA Moreno, Madison, WI. University of Wisconsin-Madison*
Abstract 37
- 7 **REDUCING MEDICAL-LEGAL LITIGATION IN NEONATAL-PERINATAL MEDICINE.** *LA Ellsworth, ET Culp, and JK Muraskas, Maywood, IL. Loyola University Medical Center*
Abstract 38
- 8 **NON-COMPACTION OF VENTRICULAR MYOCARDIUM MIMICKING OTHER CARDIOMYOPATHIES: STILL A MISSED DIAGNOSIS.** *H Elshershari, V Sueblinvong, AJ Griffin, E Ow, and M Serratto-Benvenuto, Chicago, IL. University of Illinois at Chicago*
Abstract 39
- 9 **RELEASE OF VOLATILE ORGANIC COMPOUNDS IN INCUBATOR AIR WITH PHOTOTHERAPY.** *MF Eppler, B Puppala, P Prazad, R Donovan, D Cortes, and A Gulati, Park Ridge, IL. Advocate Lutheran General Children's Hospital*
Abstract 40
- 10 **DEVELOPMENT OF GROWTH MODELS FOR CHILDREN WITH UNIVENTRICULAR PALLIATION.** *LA Erickson and WB Drake III, Kansas City, MO. Children's Mercy Hospitals*
Abstract 41
- 11 **ACUTE PHYSIOLOGICAL EFFECTS OF RED BLOOD CELL TRANSFUSION IN PRETERM INFANTS TRANSFUSED USING LIBERAL OR RESTRICTIVE GUIDELINES.** *LK Fredrickson, GA Cress, and EF Bell, Iowa City, IA. University of Iowa*
Abstract 42

- 12 DISPLAY OF RISK AND PROTECTIVE HEALTH BEHAVIORS ON INCOMING FRESHMEN'S FACEBOOK PROFILES.** *KE Gannon* and *MA Moreno*, Madison, WI. *University of Wisconsin-Madison* Abstract 43
- 13 FOUR YEAR OUTCOMES IN A STEROID FREE GROUP COMPARED TO STEROID GROUP IN PEDIATRIC RENAL TRANSPLANTATION.** *S Harsha Vardhan*, *E John*, *A Aggarwal*, *G Hidalgo*, *L Fornell*, *R Botke*, *J Hoberholzer*, and *E Benedetti*, Oak Park, IL and Chicago, IL. *University of Illinois at Chicago* Abstract 44
- 14 SETTING THE STAGE FOR NEWBORN IRON DEFICIENCY.** *SS Hirschfield*, *PJ Kling*, *SE Blohowiak*, *V Sridhar*, *BA Fischer*, and *CL Coe*, Madison, WI. *University of Wisconsin-Madison* Abstract 45
- 15 ELIMINATING HEPARIN DOSING ERRORS IN THE NEONATAL INTENSIVE CARE UNIT.** *JK Jackson*, *HW Kilbride*, *J Raucci*, *TL Sandritter*, *A Brinker*, and *P Kliethermes*, Kansas City, MO and Overland Park, KS. *University of Missouri - School of Medicine* Abstract 46
- 16 CHILDHOOD BEHAVIORAL PREDICTORS OF ADOLESCENT'S OBESITY.** *KI Kamimura-Nishimura*, *LM Chiodo*, *JH Hannigan*, *J Janisse*, *RJ Sokol*, *M Greenwald*, and *V Delaney-Black*, Detroit, MI. *Wayne State University* Abstract 47
- 17 ZINC PROTOPORPHYRIN/HEME RATIOS (ZNPP/H) AS A POTENTIAL NEWBORN SCREEN FOR IRON DEFICIENCY (ID).** *SL Marmar*, *PJ Kling*, *SE Blohowiak*, *V Sridhar*, *BA Fischer*, and *ME Chen*, Madison, WI. *University of Wisconsin-Madison* Abstract 48
- 18 ADOLESCENTS' DISPLAY OF SEXUAL REFERENCES ON A SOCIAL NETWORKING WEB SITE IS ASSOCIATED WITH INTENTION TO BECOME SEXUALLY ACTIVE.** *MA Moreno*, *LN Brockman*, *JN Wasserheit*, and *DA Christakis*, Madison, WI and Seattle, WA. *University of Wisconsin-Madison* Abstract 49

- 19 **HEALTH CARE WORKERS ATTITUDES REGARDING INFLUENZA IMMUNIZATION AND CHILDHOOD VACCINE RECEIPT.** *AL Myers, MA Jackson, L Douville, and J Lantos, Kansas City, MO. University of Missouri- Kansas City*
Abstract 50
- 20 **INCIDENCE AND CHARACTERISTICS OF RED MAN SYNDROME IN CHILDREN AND ASSOCIATION WITH GENE POLYMORPHISMS FOR HISTAMINE DEGRADATION.** *AL Myers, A Gaedigk, BL Jones, and KA Neville, Kansas City, MO. University of Missouri- Kansas City*
Abstract 51
- 21 **THE USEFULNESS OF MONITORING TACROLIMUS AND SERUM CREATININE LEVELS FOR EPSTEIN BARR VIREMIA IN SMALL BOWEL TRANSPLANT PATIENTS.** *Z Nayak, E John, K Parashette, G Hidalgo, J Oberholzer, and E Benedetti, Chicago, IL. University of Illinois*
Abstract 52
- 22 **PERMISSION AND ASSENT IN PEDIATRIC RESEARCH.** *MJ Oelstrom and ML Hoover-Regan, Madison, WI. University of Wisconsin School of Medicine and Public Health* Abstract 53
- 23 **DEVELOPING A DIAGNOSTIC TOOL FOR SCREENING IRON DEFICIENCY IN INFANTS.** *AA Ovasapyan, AA Dahms, DQ Pham, BA Fisher, SE Blohowiak, and PJ Kling, Kenosha and Madison, WI. University of Wisconsin-Parkside*
Abstract 54
- 24 **PARENTAL ATTITUDES TOWARD RESEARCH PARTICIPATION IN PEDIATRIC SICKLE CELL DISEASE.** *SA Pelligrà, A Cole, AA Thompson, M Mason, and RI Liem, Chicago, IL. Children's Memorial Hospital*
Abstract 55
- 25 **CITRATE PROPHYLAXIS FOR PREVENTION OF NEPHROCALCINOSIS IN ELBW INFANTS: A PILOT TRIAL.** *R Rao, S Kiessling, J Mao, VM Kriss, and NS Desai,*

St. Louis, MO and Lexington, KY. *Washington University in St Louis* Abstract 56

- 26 **MATERNAL OBESITY AT DELIVERY: A RISK FACTOR FOR NEWBORN IRON DEFICIENCY.** *SC Roy, PJ Kling, SE Blohowiak, V Sridhar, BA Fischer, and CL Coe, Madison, WI. University of Wisconsin-Madison* Abstract 57
- 27 **PATHOLOGY OF AORTIC ARCH IN HYPOPLASTIC LEFT HEART SYNDROME, SURGICAL IMPLICATIONS.** *S Sivanandam, JH Moller, and SM Mackey-Bojack, Minneapolis, MN and St.Paul, MN. of Minnesota* Abstract 58
- 28 **MRI VALIDATION OF EFFECTIVE AEROSOL DELIVERY IN A HIGH FREQUENCY OSCILLATOR CIRCUIT IN NEONATAL PIGS.** *BG Sood, Y Shen, Z Latif, R Galli, EJ Dawe, and M Haacke, Detroit, MI. Wayne State University* Abstract 59
- 29 **IRON BINDING PROTEINS IN HUMAN MILK IN THE FIRST 10 POSTPARTUM DAYS.** *V Sridhar, PJ Kling, LL Ngo, and EL Edde, Madison, WI and Tucson, AZ. University of Wisconsin-Madison* Abstract 60
- 30 **INTENSIVE CASE MANAGEMENT (ICM) TO REDUCE PERINATAL HIV TRANSMISSION IN URBAN INNER CITY POPULATION.** *HB Srinivasan, B Wolfe, D Ryan, D Johnson, and G Srinivasan, Chicago, IL. Sinai Children's Hospital* Abstract 61
- 31 **IMPACT OF RAPID VIRAL CULTURES ON HOSPITALIZED CHILDREN WITH RESPIRATORY INFECTIONS.** *SE Sulieman, JG Newland, JC Herigon, and R Selvarangan, Kansas City, MO. Children's Mercy Hospital* Abstract 62
- 32 **WHICH CASES CAUSE MORAL DISTRESS IN THE NICU? FACTORS ASSOCIATED WITH PATIENT REFERRAL TO A COLLABORATIVE CARE ROUND.** *CH Swinton, JD Lantos, G Boos, DC Younger, and FA Okah, Kansas City, MO. University of Missouri-Kansas City* Abstract 63

- 33** **BRIEF HYPEROXIA: EFFECTS ON NEUTROPHIL FUNCTION.** *I Treskov, N Panesar, AC Maddox, MD Howard, WJ Keenan, and JM Koenig, St. Louis, MO. Saint Louis University* Abstract 64
- 34** **IMPACT OF A PROCEDURE WORKSHOP ON PEDIATRIC RESIDENTS' COMFORT LEVEL WITH PROCEDURES.** *LB Vargas, MG Weiss, R Durazo-Ariviluz, and K Judy, Maywood, IL. Loyola University Medical Center* Abstract 65
- 35** **EFFECTS OF SURFACTANT ON THE SURVIVAL RATE AND INCIDENCE OF INTRAVENTRICULAR HEMORRHAGE IN INFANTS WITH BIRTH WEIGHT EQUAL OR LESS THAN 1000 GRAMS DURING THREE DIFFERENT PERIODS IN A SINGLE TERTIARY CENTER.** *LB Vargas, MG Weiss, S Bhanot, S Topudurti, and CH Sajous, Maywood, IL. Loyola University Medical Center* Abstract 66
- 36** **EFFECT OF ANTENATAL BETAMETHASONE VS DEXAMETHASONE ON THE SEVERITY OF INTRAVENTRICULAR HEMORRHAGE IN PREMATURE INFANTS: 10 YEARS EXPERIENCE IN A SINGLE TERTIARY CENTER.** *LB Vargas, R Rokosh, and MJ Shareef, Maywood, IL. Loyola University Medical Center* Abstract 67