

POSTER SESSION I

Monday, April 27, 1987; 3:30 P.M. - 6:00 P.M.

EXHIBIT HALL

(Hotel Convention Center)

CARDIOLOGY

1. DECREASED ERYTHROCYTE Na<sup>+</sup> PUMP ACTIVITY IN NORMOTENSIVE CHILDREN OF HYPERTENSIVE PARENTS. Bruce S. Alpert, R. William Caldwell, Joseph K. Murphy, Eliane S. Willey, Emel Songu-Mize, F. Bruder Stapleton. Univ. of Tennessee, Memphis, LeBonheur Children's Medical Center and The Clinical Research Center, Depts. of Pediatrics and Pharmacology, Memphis, TN. (Abstract 77).
2. ONTOGENY OF BLOOD PRESSURE (BP) IN THE INBRED DAHL HYPERTENSION-SENSITIVE (S/JR) AND -RESISTANT (R/JR) RAT. Prasad Devarajan, Lorraine Persan, Frederick J. Kaskel, Charles J. Juno, James A. McCaughran, Jr., Leon C. Moore. (Spon. by Leonard I. Kleinman). School of Medicine, SUNY Stony Brook, NY. (Abstract 100).
3. BETA ADRENERGIC RECEPTOR (BAR) BINDING CHARACTERISTICS AND ADENYLATE CYCLASE (AC) ACTIVITY IN THE PULMONARY ARTERY (PA) AND THORACIC AORTA (AO). Philip W. Shaul, Kathryn H. Muntz, L. Maximilian Buja. (Spon. by Charles R. Rosenfeld). Depts. of Pediatrics and Pathology, Univ. of Texas, Dallas, TX. (Abstract 133).
4. TRANSMISSION OF AORTIC ACCELERATION FORCES TO INTRACRANIAL ARTERIES IN NEWBORN INFANTS: A PULSED DOPPLER (PD) STUDY. Tonse Raju, Shin Kim, Vivek Ghai (Spon. by D. Vidyasagar). Univ. of Illinois Medical Center, Dept. of Pediatrics, Chicago, IL. (Abstract 122).

DEVELOPMENTAL BIOLOGY

5. THE DIABETIC BB RAT - A SUITABLE MODEL OF DELAYED FETAL LUNG MATURATION. Kathleen S. Carlson, Barry T. Smith, Alan D. Stiles, George A. Franco, Martin Post (Spon. by Ivan D. Frantz, III). Tufts Univ. School of Med., New England Med. Center, Dept. of Ped, Boston, MA and Univ. of Toronto, The Hosp. for Sick Children, Dept. of Pediatrics, Toronto, Ontario. (Abstract 228).
6. DELAYED FETAL LUNG MATURATION IN THE DIABETIC MOUSE. Stewart Lawrence, Heber C. Nielsen. Southwestern Medical School, Dept. of Pediatrics, Dallas, TX. (Abstract 267).
7. FIBROBLASTS REGULATE TYPE II CELL MATURATION VIA BOTH INHIBITION AND STIMULATION OF THE FPF MECHANISM. J.S. Torday, Dept. of Pediatrics (Physiology), Harvard Medical School, Boston, MA. (Abstract 301).
8. STEROID EFFECTS ON LUNG COLLAGEN (C) AND ELASTIN (E) ARE DEPENDENT ON GESTATIONAL AGE. Harris C. Jacobs, David M. Lima, Mark R. Mercurio, John M. Fiascone (Spon. by Ian Gross). Dept. of Peds., Yale Medical School, New Haven, CT. (Abstract 261).

## GASTROENTEROLOGY &amp; NUTRITION

9. DEVELOPMENTAL DIFFERENCES IN CALCIUM SOURCES UTILIZED FOR CONTRACTION IN THE CAT'S UPPER GASTROINTESTINAL TRACT. Craig Hillemeier, Dominique Bereiter, Peter Biancani (Spon. by A.S. Brem). Brown Univ., and Rhode Island Hosp., Depts. of Pediatrics and Internal Medicine, Providence, RI. (Abstract 577).
10. METOCLOPRAMIDE PHARMACODYNAMICS IN INFANTS. Helen L. Butler, Gregory L. Kearns, Susan H. Carchman, Judith K. Lane, George J. Wright (Spon. by Robert H. Fiser, Jr.). Univ. of Arkansas for Medical Sciences, Depts. of Pediatrics and Pharmaceutics, Little Rock, AR and the Dept. of Drug Metabolism, A.H. Robins Co., Richmond, VA. (Abstract 550).
11. INTESTINAL ADAPTATION DURING LACTATION IN THE MOUSE: ENHANCED UPTAKE OF DIETARY PROTEIN ANTIGEN. Paul R. Harmatz, Donald Hanson, Marc Brown, Ronald E. Kleinman, Kurt J. Bloch, W. Allan Walker. Harvard Medical School, Massachusetts General Hosp. and Children's Hosp., Dept. of Pediatrics and Medicine, Boston, MA. (Abstract 575).
12. EVIDENCE THAT 1,25 DIHYDROXYVITAMIN D3 IS BIOACTIVE IN THE FETAL SHEEP INTESTINE. Richardus Ross, Mei Chen, Jane Florer (Spon. by R.C. Tsang). Univ. of Cincinnati Med. Ctr., Dept. Pediatrics, Cincinnati, OH. (Abstract 618).
13. ENERGY EXPENDITURES OF TERM INFANTS DETERMINED BY THE DOUBLY-LABELED WATER (2H2-18O) METHOD, INDIRECT CALORIMETRY, AND TEST-WEIGHING. William W. Wong, Nancy F. Butte, Cutberto Garza, Peter D. Klein. USDA/ARS Child Nutr. Res. Ctr., Baylor Coll. Med., Dept. Pediatrics, and Texas Children's Hospital, Houston, TX. (Abstract 650).
14. COMPOSITION OF WEIGHT GAIN AND MACRONUTRIENT STORAGE IN VERY LOW BIRTH WEIGHT (VLBW) INFANTS FED OWN MOTHER'S MILK (OMM) OR MEDIUM-CHAIN-TRIGLYCERIDE (MCT) ENRICHED FORMULA. J. Van Aerde, P. Sauer, T. Heim, P.R. Swyer, J. Smith. Dept. of Pediatrics, Med. Eng., Univ. Toronto & Res. Inst., Hosp. Sick Children, Toronto, Ontario, Canada. (Abstract 644).
15. IS VITAMIN D NEEDED IN BLACK BREAST-FED INFANTS TO PREVENT RICKETS? Fenella Greig, Mary Bastawros (Spon. by Ramesh Jhaveri). Dept. of Pediatrics, Interfaith Med. Ctr. & Brookdale Hosp. Med. Ctr., SUNY/Health Science Ctr. in Brooklyn, NY. (Abstract 571).
16. DIETARY NEEDS IN BONE MINERALIZATION OF CHILDREN. Gary M. Chan, Gurmail Gill, Renae McInnes. Dept. of Pediatrics, University of Utah, Salt Lake City, UT. (Abstract 555).

## IMMUNOLOGY

17. A SIMPLIFIED METHOD FOR SUSTAINED PURE CULTURES OF HUMAN PERITONEAL MACROPHAGES (HPM). Robert A. Dracker, Marie J. Stuart, Roger E. Spitzer. SUNY, Health Science Center, Dept. of Pediatrics, Syracuse, NY. (Abstract 823).

18. PREMATURE & SECRETORY IgA. R. Mead, S.J. McGeady. Thomas Jefferson Univ. Hosp., Dept. of Peds., Philadelphia, PA. (Abstract 847).
19. INFLUENCES OF RELATED RETROVIRUSES ON HUMAN LYMPHOCYTES. Savita Pahwa, Carl Saxinger. Dept. of Pediatrics, North Shore Univ. Hospital, Cornell Univ. Medical College, Manhasset, NY, and Laboratory of Tumor Cell Biology, National Cancer Institute, Bethesda, MD. (Abstract 855).

#### INFECTIOUS DISEASES

20. IMMUNIZATION OF CHILDREN WITH CANCER WITH HAEMOPHILUS INFLUENZAE TYPE b (HIB) POLYSACCHARIDE VACCINE. Steven J. Weisman, K. Lynn Cates, Gary J. Allegretta, John J. Quinn, Arnold J. Altman, Univ. of Connecticut Health Center and Washington Univ. School of Medicine, Dept. of Pediatrics, Farmington and St. Louis, MO. (Abstract 983).
21. IMMUNIZATION OF CHILDREN WITH SICKLE CELL DISEASE (SCD) WITH HAEMOPHILUS INFLUENZAE B (HIB) VACCINE. Lorry G. Rubin, Debra Voulalas, Lillian Carmody, Gungor Karayalcin (Spon. by P. Lanzkowsky). SUNY at Stony Brook & Schneider Children's Hosp. of Long Island Jewish Med. Ctr., Dept. Peds., New Hyde Park, NY. (Abstract 959).
22. H. INFLUENZA B IMMUNIZATION OF CHILDREN WITH SICKLE CELL DISEASES. Arthur L. Frank, Richard J. Labotka, Lisa R. Frisone, Sudha Rao, Patrick H. McVerry, Joel S. Samuelson, Helen S. Maurer, Ram Yogev. Univ. of Illinois Coll. of Med. Dept. Pediatrics, Northwestern Univ. Medical School, Dept. Pediatrics, Cook County Hospital, Chicago and Connaught Labs, Swiftwater, PA. (Abstract 906).
23. IMMUNOLOGIC PRIMING OF INFANTS WITH A SINGLE DOSE OF H. INFLUENZAE TYPE B (Hib) POLYSACCHARIDE-N. MENINGITIDIS OUTER MEMBRANE PROTEIN (PS-OMP) CONJUGATE VACCINE. Eugene D. Shapiro, James C. Pramberg, Robert S. Daum. Yale and Tulane Univ. Schools of Medicine, Depts. of Pediatrics, New Haven and New Orleans. (Abstract 963).
24. PERSISTENCE OF ANTIBODY (AB) TO HAEMOPHILUS INFLUENZAE TYPE B (HIB) AND RESPONSE TO PRP AND PRP-D BOOSTER IMMUNIZATION IN CHILDREN INITIALLY IMMUNIZED WITH EITHER VACCINE AT 15 TO 24 MONTHS. C.D. Berkowitz, J.I. Ward, J.O. Hendley, K. Meier, P. McVerry, L. Gordon, C. Chiu, L. Guravitz. UCLA Med. Sch., Harbor-UCLA Med. CTR., Torrance, CA, Univ. of VA, Charlottesville, VA, Children's Hospital of Philadelphia, Philadelphia, PA, Kaiser-Perm, Panorama City, CA and Connaught Lab, Swiftwater, PA. (Abstract 889).
25. POLYRIBOSYLPHOSPHATE (PRP) REVACCINATION TO PREVENT INVASIVE HAEMOPHILUS INFLUENZAE B (HIB) IN CHILDREN FIRST IMMUNIZED AT 18-20 MOS OF AGE. Michael E. Pichichero, Andrea Bracikowski, Richard Sullivan, Porter Anderson (Spon. by Richard Insel). Univ. Rochester, Dept. Peds, Rochester, NY. (Abstract 948).

26. HAEMOPHILUS B OLIGOSACCHARIDE-CRM (HbOC) VACCINE: CONTINUING CLINICAL STUDIES. David H. Smith, Cynthia L. Johnson, Martin G. Myers, Lou A. Popejoy, Edward P. Rothstein, Bradley Sullivan. Praxis Biologics, Rochester, NY, Children's Hosp., Cincinnati, Wm. Beaumont Army Med. Ctr., El Paso, Pennridge Ped. Assoc., Sellersville, PA and Marshfield Clinic, Marshfield, WI. (Abstract 966).
27. EFFECT OF PROPHYLACTIC ACETAMINOPHEN (AC) ON MODIFYING LOCAL AND SYSTEMIC REACTIONS TO DTP VACCINATION. Karen Lewis, James D. Cherry, Marshall H. Sachs, Dennis B. Woo, Robert C. Hamilton, John M. Tarle, Gary D. Overturf. UCLA Sch. of Med., Ctr. for Health Sciences, Dept. Peds., Los Angeles, CA. (Abstract 935).
28. INHIBITION OF E. COLI DNA SYNTHESIS BY HYPOCHLOROUS ACID MAY MODEL THE BACTERICIDAL ACTIVITY OF PHAGOCYTES. Susan M. McKenna, Kelvin J.A. Davies (Spon. by Robert L. Baehner). Univ. of Southern California and Children's Hospital of Los Angeles, Institute for Toxicology & Depts. of Biochemistry & Pediatrics, Los Angeles, CA. (Abstract 938).
29. S. EPIDERMIDIS SLIME EFFECTS ON NEUTROPHIL OXIDATIVE BURST AND ADHERENCE: EVIDENCE OF MEMBRANE AND RECEPTOR INTERACTIONS. George M. Johnson, Warren E. Regelman, Ernest D. Gray, Georg Peters, Paul G. Quie (Spon. by V. Schauf). Nass. County Med. Ctr., Dept. of Peds, East Meadow, NY, Univ. of MN, Minneapolis, and the Hyg. Inst., Univ. of Cologne, W. Germany. (Abstract 921).

#### METABOLISM & DIABETES

30. MITOCHONDRIAL NADH-CoQ OXIDOREDUCTASE (COMPLEX I) DEFICIENCY IN MAN. William J. Rhead, Brad A. Amendt, Cheryl Greenberg, Frances Booth. Dept. of Pediatrics, Univ. of Iowa City, IA and Depts. of Pediatrics and Child Health, Univ. of Manitoba, Winnipeg, Manitoba, Canada (Abstract 1031).

#### NEONATOLOGY

31. THE EFFECT OF MODERATE HYPERBILIRUBINEMIA ON AUDITORY BRAINSTEM RESPONSE (ABR) IN TERM INFANTS. Betty R. Vohr, Gherardo Rapisardi, Debra Karp, William Oh, William J. Cashore. Brown Univ., Women & Infants Hosp., Dept. of Pediatrics, Providence, RI. (Abstract 1239).
32. CARBOXYHEMOGLOBIN VALUES IN JAPANESE NEWBORN INFANTS WITH ABO INCOMPATIBILITY. Yoshiyuki Uetani, Hajime Nakamura, Osamu Okamoto, Masafumi Matsuo, Tamotsu Matsuo (Spon. by Audrey K. Brown). Dept. of Pediatrics, Kobe Univ. Sch. of Med., Kobe, Japan. (Abstract 1235).
33. COMPARISON OF BILIRUBIN PRODUCTION IN JAPANESE AND CAUCASIAN INFANTS. David K. Stevenson, Hendrik J. Vreman, Allen F. Fischer, Yoshiyuki Uetani, Hajime Nakamura. Dept. of Pediatrics, Stanford Univ. Sch. of Med., Stanford, CA, and Kobe Univ. Sch. of Med., Kobe, Japan. (Abstract 1224).

34. USE OF A VENTRICULAR CATHETER WITH SUBCUTANEOUS RESERVOIR FOR POST-HEMORRHAGIC HYDROCEPHALUS IN PREMATURE NEONATES. George N. Vailas, Yoon S. Hahn, Robert T. Brouillette, Edward S. Ogata. Northwestern Univ. Med. School, Depts. of Pediatrics, Neurosurgery, and Obstetrics/Gynecology, Chicago, IL. (Abstract 1236).
35. VENOUS CIRCULATORY ABNORMALITIES MAY BE IMPORTANT IN PATHOGENESIS OF HEMORRHAGIC (HEM) AND/OR ISCHEMIC (ISCH) CEREBRAL INJURY IN SICK PRETERM INFANTS. Jeffrey Perlman, Joseph Volpe. Wash. Univ. Sch. Med., Children's Hosp., Depts. of Pediatrics, Neurology, Biol. Chemistry, St. Louis, MO. (Abstract 1194).
36. DOES THROMBOCYTOPENIA INCREASE THE RISK OF INTRAVENTRICULAR HEMORRHAGE (IVH) IN VERY LOW BIRTHWEIGHT (VLBW) INFANTS? Brian A. Lupton, Michael F. Whitfield, Louis D. Wadsworth, Alan Hill, Olof Flodmark, C.J. Carter, Emily Ling. Univ. of British Columbia, British Columbia's Children's Hospital, Depts. of Paediatrics, Pathology, and Radiology, Vancouver, Canada. (Abstract 1161).
37. CONTROLLED TRIAL OF INDOMETHACIN (IND) PREVENTION OF NEONATAL INTRAVENTRICULAR/ PERIVENTRICULAR HEMORRHAGE (IVH/PVH). Robert S. Green, Henrietta S. Bada, Charles W. Leffler. Univ. of Tenn., Depts. of Pediatrics and Physiology and Biophysics, Memphis, TN. (Abstract 1131).
38. THE EFFECT OF HYPOGLYCEMIA AND HYPEROXIA HYPOCARBIA EXPOSURE ON NEONATAL BRAIN ATP CONTENTS: AN AGE-RELATED PHENOMENON. Hajime Togari, Chung-J M. Cha, Nancy Gelardi, William Oh. Brown Univ., Women & Infants Hosp., Dept. of Pediatrics, Providence, RI. (Abstract 1232).
39. DEVELOPMENT OF ADENOSINE DEAMINASE AND 5'-NUCLEOTIDASE IN THE FETAL GUINEA PIG BRAIN. Om P. Mishra, L. Craig Wagerle, Maria Delivoria-Papadopoulos. Univ. of Pennsylvania School of Medicine, Depts. of Physiology and Pediatrics, Philadelphia, PA. (Abstract 1177).
40. MAINTENANCE OF BRAIN BLOOD FLOW AND OXYGEN CONSUMPTION DURING HYPOXIA AND TOLAZOLINE INFUSION IN LAMBS. Christopher Martin, Taimin Chen, Thomas Hansen, Jan Goddard-Finegold, Benny Alexander. Baylor College of Medicine, Dept. of Pediatrics, Houston, TX. (Abstract 1163).
41. CEREBRAL BLOOD FLOW (CBF) REQUIRED FOR BRAIN VIABILITY IN PREMATURE INFANTS IS LOWER THAN IN ADULTS. Denis I. Altman, William J. Powers, Jeffrey M. Perlman, Sara L. Volpe, Marcus E. Raichle, Joseph J. Volpe. Washington Univ. Sch. of Med., St. Louis Childrens Hosp., Depts. of Pediatrics, Neurology, Radiology, St. Louis, MO. (Abstract 1061).
42. DECREASE OF THE CEREBRAL BLOOD FLOW VELOCITIES BY INDOMETHACIN (INDO). Raul Bejar, Gustavo Vigliocco, Hector Gramajo, David Sahn, T. Allen Merritt, Edward McFeeley, Gregory Heldt. Univ. of California, San Diego, Dept. of Pediatrics, San Diego, CA. (Abstract 1074).

43. NORMAL VALUES FOR CEREBRAL BLOOD FLOW VELOCITIES IN THE INTERNAL CAROTID ARTERY OF PRETERM AND TERM INFANTS. Raul Bejar, Gustavo Vigliocco, Hector Gramajo, David Sahn, Sandra Hagen, Gregory Heldt. Univ. of California San Diego, Dept. of Pediatrics, San Diego, CA. (Abstract 1075).
44. PRENATAL WHITE MATTER NECROSIS IN MULTIPLE GESTATIONS. Raul Bejar, Gustavo Vigliocco, Claudio Solana, Hector Gramajo, Yvonne E. Vaucher, Kurt Benirschke (Spon. by T. Allen Merritt). Univ. of California, San Diego, Dept. of Pediatrics, San Diego, CA. (Abstract 1076).

#### NEONATAL CARDIOLOGY

45. HEMODYNAMIC AND NEUROENDOCRINE RESPONSES OF THE PRETERM LAMB LEFT VENTRICLE (LV) DURING INCREASED AFTER-LOAD. Barry Baylen, Yotaro Agata, James Padbury, Machiko Ikegami, Allen Jobe, George Emmanouilides. UCLA School of Medicine, Harbor-UCLA Medical Center, Dept. of Pediatrics, Torrance, CA. (Abstract 1251).
46. RENAL CORTICAL AND MEDULLARY NECROSIS IN INFANTS WITH THE HYPOPLASTIC LEFT HEART SYNDROME. J. Bernstein, C.H. Chang, M.M. Silver, R. Chandra, B.B. Dahms, A.J. McAdams, J.J. Buchino, K.P. Heidelberger. Detroit, Toronto, Washington, Cleveland, Cincinnati, Louisville, Ann Arbor and Wm. Beaumont Hospital, Dept. Anatomic Pathology, Royal Oak, MI. (Abstract 1255).
47. ELEVATION OF BLOOD PRESSURE DURING FEEDING IN NEWBORNS. Morris Cohen, William Fiffer, Donna Better, Alyssa Dweck, Michael Myers (Spon. by Thomas R.C. Sisson). Dept. of Peds., Newark Beth Israel Medical Center, NJ, Albert Einstein Coll. of Med. & North Central Bx. Hosp., NY, Psychiatric Inst. and Columbia Coll. of Physicians and Surgeons, NY, NY. (Abstract 1260).
48. THE SPATIAL VELOCITY PROFILE IN THE ASCENDING AORTA OF NEONATAL LAMBS: EFFECT OF CHANGES IN HEMODYNAMIC STATE. W. Robert Morrow, Daniel J. Murphy, Jr., David J. Fisher, Craig J. Hartley, G. Wesley Vick, III, Thomas N. Hansen. Baylor College of Medicine, Houston, TX. (Abstract 1275).
49. NEGATIVE INOTROPIC EFFECTS OF AMRINONE IN THE NEONATAL PIGLET HEART. Nancy Ross-Ascutto, Robert Ascutto, Victor Chen, S. Evans Downing. Yale Univ. School of Med., Depts. of Pediatrics & Pathology, New Haven, CT. (Abstract 1284).

#### NEONATAL EPIDEMIOLOGY AND FOLLOW-UP

50. LANGUAGE DEVELOPMENT AT ONE YEAR CORRECTED AGE IN VERY LOW BIRTH WEIGHT (<1500 GRAMS) INFANTS. Oscar G. Casiro, Patrick Alexander, Vinnie Thiessen, Heather Cowan, Lorna Campbell, Ken McRae, Mary Cheang (Spon. by Henrique Rigatto). Univ. of Manitoba, Children's Hospital of Winnipeg, Dept. of Pediatrics, Winnipeg, Manitoba, Canada. (Abstract 1314).

51. OUTCOME OF INFANTS LESS THAN OR EQUAL TO 25 WKS GESTATION (1981-1985). Keith H. Marks, Kathleen L. Gifford, Elaine S. Himmelberger, Mark Domoto, M. Jeffrey Maisels. The Penn St. Univ. Coll. of Med., MS Hershey Med. Ctr., Dept. of Pediatrics, Hershey, PA. (Abstract 1356).
52. MORTALITY AND MORBIDITY IN 10,705 INFANTS  $\leq$  1000 g BIRTHWEIGHT: A RETROSPECTIVE STATISTICAL ANALYSIS. Aharon Galil, Miklos Schulz, A. Michael Albisser, Karen E. Pape (Spon. by B.T.S. Smith). Divisions of Neonatology and Biomedical Research, Univ. of Toronto, The Hospital for Sick Children, Toronto. (Abstract 1328).
53. HOME VERSUS CLINIC FOLLOW-UP IN A SHORT-STAY PROGRAM FOR A LARGE, PUBLICLY-FUNDED, URBAN HOSPITAL. Joseph A. Garcia Prats, Cindy K. Busker, Laura W. Smith, Nancy L. Stinson, Amelia R. Cano, James T. Courtney (Spon. by Thomas N. Hansen). Baylor College of Medicine and Jefferson Davis Hospital, Dept. of Pediatrics, Houston, TX. (Abstract 1329).
54. ALTERNATIVE METHOD OF HIGH-RISK INFANT FOLLOW UP: AN EVALUATION. Cyrus Dabiri, Karen Rehm (Spon. by Edward Reiter). Baystate Med. Ctr., Dept. of Peds., Springfield, MA. (Abstract 1322).
55. BRONCHOPULMONARY DYSPLASIA (BPD) AND EARLY NEURODEVELOPMENT. Neal P. Simon, Nancy A. Ruiz, Richard L. Stafford (Spon. by Robert C. Boerth). Univ. of South Alabama, Depts. of Peds., Phys. Therapy, and Psychology, Mobile, AL. (Abstract 1376).
56. ECHODENSE LESIONS OF THE CEREBRAL PARENCHYMA IN THE PRETERM INFANT: DIAGNOSTIC LOCALIZATION AND DEVELOPMENTAL OUTCOME. Yolande F. Smith, Anita M. Sostek, Kathy S. Katz, Edward G. Grant (Spon. by P.L. Calcagno). Georgetown Univ. Med. Ctr., Dept. of Peds. and Radiology, Washington, DC. (Abstract 1379).
57. CHARACTERISTICS OF PERIVENTRICULAR ECHODENSITIES ASSOCIATED WITH THE DEVELOPMENT OF CEREBRAL PALSY (CP) IN PREMATURE INFANTS. F.S. Pidcock, M.E. Pasto, L.J. Graziani, C. Stanley, D. Mitchell, B.B. Goldberg. Thomas Jefferson Univ. Hosp., Depts. of Pediatrics and Radiology, Philadelphia, PA. (Abstract 1367).
58. TERM ULTRASOUND (U/S) BEST PREDICTS 1 YEAR NEURODEVELOPMENTAL OUTCOME OF HIGH-RISK PRETERM INFANTS. Chukwuma Nwaesei, Alexander C. Allen, Michael J. Vincer, Dora A. Stinson, Jacquelyn R. Evans, St. J. Brown, Joseph M. Byrne. Dalhousie Univ., Grace Maternity Hosp., Dept. of Pediatrics, Halifax, N.S., Canada. (Abstract 1362).
59. HEAD GROWTH AND DEVELOPMENTAL OUTCOME IN VERY LOW BIRTH WEIGHT INFANTS DURING THE FIRST YEAR OF LIFE. Neal P. Simon, Nancy A. Ruiz, Richard L. Stafford (Spon. by Robert C. Boerth). Univ. of So. Alabama, Depts. of Pediatrics, Phys. Therapy, and Psychology, Mobile, AL. (Abstract 1377).

60. SUCCESSFUL MANAGEMENT OF INFANTS WITH BIRTHWEIGHTS <1000 GRAM USING HOME OXYGEN. Bonnie B. Hudak, Roberta Fahey, Marilee C. Allen, M. Jones Douglas, Jr., Gerald M. Loughlin, Jr. The Johns Hopkins Hospital, Dept. of Pediatrics, Baltimore, MD. (Abstract 1342).
61. RESPIRATORY SYNCYTIAL VIRUS INFECTION IN CHILDREN WITH BRONCHOPULMONARY DYSPLASIA. K.M. Gutierrez, J.R. Groothuis, B.A. Lauer. Dept. of Pediatrics, Univ. of Colorado School of Medicine, Denver, CO. (Abstract 1334).

#### NEONATAL INFECTIOUS DISEASES

62. USE OF QUANTITATIVE BLOOD CULTURES TO DISTINGUISH NEONATAL COAGULASE NEGATIVE STAPHYLOCOCCAL SEPSIS FROM CULTURE CONTAMINATION. J. St. Geme, C. D'Angio, L.M. Bell, S. Baumgart, M.C. Harris. Dept. of Pediatrics, Univ. of Pennsylvania Sch. of Med., The Children's Hosp. of Phila., Pennsylvania Sch. of Med., Philadelphia, PA. (Abstract 1484).
63. QUANTITATIVE BLOOD CULTURES IN NEONATES WITH CENTRAL CATHETERS. Jeanne W. Ruderman, Alan H. Klein. UCLA School of Medicine, Cedars-Sinai Med. Ctr., Dept. of Pediatrics, Los Angeles, CA. (Abstract 1479).
64. OPEN LUNG BIOPSY FACILITATES TREATMENT OF NEONATAL PULMONARY DISEASE. M. Huang, B. Dahms, J. Baley, D. VanHeeckeren, R. Kliegman. Case Western Reserve Univ., Depts. Peds., Path., and Surgery, Cleveland, OH. (Abstract 1456).
65. PROSPECTIVE STUDY OF MUCOCUTANEOUS AND INVASIVE CANDIDIASIS IN INTENSIVE CARE NURSERY INFANTS. Roger G. Faix, Stephen M. Kovarik, Thomas R. Shaw (Spon. by Steven M. Donn). Dept. of Pediatrics, Univ. of Michigan, Ann Arbor, MI. (Abstract 1447).
66. COMPARISON OF CHLAMDIAZYME TO CULTURE FOR THE DIAGNOSIS OF CHLAMYDIAL EYE AND RESPIRATORY INFECTION IN INFANTS. M. Hammerschlag, P. Roblin, C. Cummings, T. Williams, M. Worku, L. Howard. Dept. of Pediatrics, SUNY-Health Science Center at Brooklyn and Abbott Diagnostics, North Chicago. (Abstract 1453).

#### NEONATAL NUTRITION & METABOLISM

67. GROWTH AND BIOCHEMICAL STATUS OF LOW BIRTH WEIGHT INFANTS WITH DIFFERENT FEEDING REGIMENS DURING FOUR MONTHS FOLLOWING HOSPITAL DISCHARGE. R.T. Hall, R.E. Wheeler, M.B. Montalto, J.D. Benson. Children's Mercy Hospital, Univ. of Missouri Kansas City School of Medicine, Kansas City, MO. (Abstract 1529).
68. EFFECT OF LACTOSE ON MINERAL ABSORPTION OF VERY-LOW-BIRTH-WEIGHT (VLBW) INFANTS. Fred H. Wirth, Brenda Numerof, Pat Pleban (Spon. by William C. MacLean, Jr.). Eastern Virginia Medical School, Old Dominion Univ., Norfolk, VA. (Abstract 1598).

69. LACTOSE METABOLISM IN THE MILK-FED NEWBORN LAMB. Joseph W. Kaempf, Jessie Groothuis, Hai-Qi Li, Frederick C. Battaglia, John W. Sparks. Univ. of Colorado School of Medicine, Dept. of Pediatrics, Denver, CO. (Abstract 1540).
70. COMPARISON OF LONG-CHAIN-TRIGLYCERIDE (LCT) FORMULA VS. OWN MOTHER'S MILK (OMM) FEEDING ON GROWTH, MACRONUTRIENT AND ENERGY BALANCE IN VERY LOW BIRTH WEIGHT (VLBW) INFANTS. J. Van Aerde, P. Sauer, T. Heim, P.R. Swyer, J. Smith. Dept. of Peds. & Med. Engineering, Univ. of Toronto & Res. Inst., Hosp. Sick Child., Toronto, Ontario, CANADA. (Abstract 1592).
71. MEDIUM CHAIN FATTY ACID (MCFA) SYNTHESIS IN THE HUMAN MAMMARY GLAND AT THE ONSET OF LACTATION. M.L. Spear, J. Bitman, M. Hamosh, D.L. Wood, D. Gavula, L.M. Freed, P. Hamosh (Spon. by Pedro A. Jose). Medical Center of Delaware, Newark, DE, US Department of Agriculture, Beltsville, MD and Georgetown Univ. Medical Center, Washington, DC. (Abstract 1586).
72. MALNUTRITION DETECTED AT THE CELLULAR LEVEL IN SMALL FOR GESTATIONAL AGE BABIES. Jack Metcoff, James Gable, Carolyn Johnson. Depts. of Pediatrics, Biochemistry, Univ. of Oklahoma Health Center, Oklahoma City, OK. (Abstract 1554).
73. EVALUATION OF SUCKING IN THE BOTTLE FED INFANT BY ULTRASONOGRAPHY. Allen Erenberg, Wilbur L. Smith, Arthur J. Nowak. Depts. of Peds., Pediatric Radiology and Pediatric Dentistry, Univ. of Iowa, Iowa City, IA. (Abstract 1522).
74. DIETARY MODIFICATION OF LIPID PEROXIDATION AND LUNG INJURY IN NEWBORN RABBITS EXPOSED TO HYPEROXIA. Teresa A. Marshall, Robert J. Roberts. Depts. of Pediatrics and Pharmacology, Univ. of Iowa, College of Medicine, Iowa City, IA. (Abstract 1552).
75. IgG and IgA LEVELS IN THE MILKS OF PROTEIN AND CALORIE MALNOURISHED DAMS. Yoram Elitsur, Ping-Cheung Lee, Emanuel Lebenthal. Children's Hospital of Buffalo, International Institute for Gastrointestinal Disease and State Univ. of New York, Dept. of Pediatrics, Buffalo, NY. (Abstract 1521).
76. ERRORS IN NEONATAL FLUID AND ELECTROLYTE BALANCE: A RETROSPECTIVE COMPUTER ANALYSIS. Jill Boulton, Olivier-Clariss, Aharon Galil, Karen E. Pape, A. Michael Albisser (Spon. by B.T.S. Smith). Univ. of Toronto, Hosp. for Sick Children, Div. of Neonatology & Biomedical Research, Toronto, Canada. (Abstract 1502).

#### NEONATAL PULMONOLOGY

77. RESPONSES OF SMALL INTRAPULMONARY ARTERIES TO VASODILATORS IN NEONATAL LAMBS. J.A. Dunn, V. Lorch, N. Feld. (Spon. by B.W. Goetzman). Univ. of Tennessee, Knoxville, TN. (Abstract 1655).

78. RESPIRATORY ALKALOSIS ALSO ATTENUATES THROMBOXANEMIMETIC INDUCED PULMONARY VASOCONSTRICTION IN NEWBORN LAMBS. Michael D. Schreiber, Mary C. Hellgeth, Scott J. Soifer. (Spon. by Michael A. Heymann). University of California, Dept. of Pediatrics and the Cardiovasc. Res. Inst., San Francisco, CA. (Abstract 1751).
80. EVIDENCE FOR LEUKOTRIENE (LT)C<sub>4</sub> MEDIATION OF HYPOXIC PULMONARY VASOCONSTRICTION IN RAT LUNGS. Thomas H. Pauly, Cheryl A. Haven, Mark N. Gillespie (Spon. by M. Douglas Cunningham). Univ. of Kentucky, A. B. Chandler Med. Ctr., Dept. of Pediatrics, Lexington, KY. (Abstract 1732).
81. LEUKOTRIENES MEDIATE THROMBOXANE-MIMETIC INDUCED PULMONARY VASOCONSTRICTION IN NEWBORN LAMBS. Scott J. Soifer, Michael D. Schreiber, Michael A. Heymann, Mary C. Hellgeth. Univ. of Calif., Dept. of Pediatrics and Cardiovasc. Res. Inst., San Francisco, CA. (Abstract 1757).
82. THE DEVELOPMENT OF THE PULMONARY VASCULAR RESPONSE TO LEUKOTRIENE RECEPTOR BLOCKADE IN THE FETAL LAMB. Frederick C. Morin, III, Edmund A. Egan. The Depts. of Pediatrics & Physiology, SUNY at Buffalo, NY. (Abstract 1723).
83. RAISING OXYGEN TENSION IN THE FETAL LAMB INCREASES PULMONARY BLOOD FLOW TO NEWBORN LEVELS AND THIS INCREASE IS NOT MEDIATED BY PROSTAGLANDINS. F.C. Morin, III, E.A. Egan, W.T. Norfleet. Depts. of Physiology & Pediatrics, SUNY at Buffalo, NY. (Abstract 1722).
84. E-TYPE PROSTAGLANDINS (PG) DECREASE VENTILATION (V) IN NEWBORN LAMBS. Francisco A. Guerra, Renate D. Savich, Chu-Ching H. Lee, Joseph A. Kitterman. Univ. of CA, Cardiovasc. Res. Inst. & Dept. of Peds., San Francisco, CA. (Abstract 1682).
85. NEWBORN RABBITS AND HYPEROXIA: ARACHIDONIC ACID METABOLITES. R.B. Holtzman, J. Zemaitis, B. Beck, L. Smith, J.R. Hageman (Spon. by C.E. Hunt). Dept. Peds. and Med, Northwestern Univ. Med. Sch., Evanston-Chicago, IL. (Abstract 1688).
86. INCREASED LUNG VASCULAR PROTEIN PERMEABILITY IN PRETERM LAMBS WITH RESPIRATORY DISTRESS. Richard D. Bland, Richard G. Scheerer, David P. Carlton, Dale L. Chapman. Cardiovasc. Res. Inst., Dept. of Ped., Univ. of CA, San Francisco, CA. (Abstract 1622).
87. ENDOTHELIAL PERMEABILITY AND GROUP B STREPTOCOCCUS (GBS). Paul Engstrom, Francois Booyse, George Cassady, Joseph Philips. Dept. of Ped. and Med., Univ. of Alabama at Birmingham, AL. (Abstract 1660).

88. CHARACTERIZATION AND IN VITRO SYNTHESIS OF PULMONARY CuZn SUPEROXIDE DISMUTASE. Jonathan R. Wispe, Michael Burhans (Spon. by Jeffrey Whitsett). Univ. Cincinnati Med. Ctr., Dept. Pediatrics, Cincinnati, OH. (Abstract 1777).
89. PREVENTION OF OXYGEN TOXICITY WITH SUPEROXIDE DISMUTASE AND CATALASE IN PREMATURE LAMBS. Frans J. Walther, Irene M. Kuipers, Corrie E.M. Gidding, Dirk Willebrand, Edouard M. Bevers. (Spon. by PYK Wu). Univ. of Limburg, Depts. of Peds., Pathology, and Biochemistry, Maastricht, The Netherlands and Univ. of So. Calif. Sch of Med., LAC-USC Med. Ctr., Dept. of Peds., Los Angeles, CA. (Abstract 1769).
90. POLYUNSATURATED FATTY ACIDS (PUFA) AND PROTECTION OF NEWBORN RATS FROM O<sub>2</sub> TOXICITY. Ilene R.S. Sosenko, Lee Frank. Univ. Miami Sch. Medicine, Pulmonary Research and Neonatology Depts. of Medicine and Pediatrics, Miami, FL. (Abstract 1759).
91. DOSE RESPONSE RELATIONSHIP OF NEONATAL HYPEROXIA EXPOSURE AND CHRONIC VASCULAR PULMONARY DYSPLASIA IN THE RAT. S.G Shaffer, D.H O'Neill, D.W Thibeault. Univ. of Missouri at Kansas City School of Medicine, Children's Mercy Hospital, Kansas City, MO. (Abstract 1753).
92. EFFECTS OF PULMONARY OXYGEN INJURY ON SURFACTANT PROTEIN AND PHOSPHOLIPID. Lawrence M. Noguee, Jonathan R. Wispe (Spon. by Jeffrey Whitsett). Univ. Cincinnati Med. Ctr., Dept. of Pediatrics, Cincinnati, OH. (Abstract 1727).
93. ONTOGENY OF CALCITONIN-GENE-RELATED PEPTIDE (CGRP) IN HUMAN FETAL LUNG. Mahlon D. Johnson, Mary E. Gray, Mildred T. Stahlman. Vanderbilt Univ. Sch. of Med., Dept. of Ped. and Path., Nashville, TN. (Abstract 1693).
94. EFFECT OF DIMETHYLTHIOUREA (DMTU) ON PULMONARY HEMODYNAMICS IN NEWBORN PIGLETS EXPOSED TO HYPEROXIA. A. Charles Hoffmeister, William E. Truog, J. Craig Jackson. Dept. of Ped., Univ. of Washington, Seattle, WA. (Abstract 1687).
95. GLYCOLIPID ACCUMULATION IN LUNG EFFLUENT IN BRONCHOPULMONARY DYSPLASIA. Mikko Hallman, Olli Pitkanen, Heikki Rauvala, T. Allen Merritt. Univ. of Helsinki, Dept. of Ped., and Dept. of Med. Chemistry, Helsinki, Finland, and Univ. of CA, San Diego, Dept. of Ped., San Diego, CA. (Abstract 1684).
96. METAPROTERENOL AND ATROPINE AEROSOLS IMPROVE PULMONARY MECHANICS IN INFANTS WITH BRONCHOPULMONARY DYSPLASIA (BPD). Lily C. Kao, David J. Durand, Martha A. Birch, Barry L. Phillips, Bruce G. Nickerson. (Spon. by Bertram Lubin). Children's Hospital Oakland, CA. (Abstract 1695).
97. BILE SALT-INDUCED CALCIUM ACCUMULATION IN LUNG CELLS. Sally A. Downey, Marion M. Flynn, Leslie G. Beauchamp, David G. Oelberg (Spon. by Eugene W. Adcock). Univ. of TX Med. Sch. at Houston, Univ. Child. Hosp., Houston, TX. (Abstract 1651).

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98. LONG-TERM LOW-DOSE PREDNISONE AMELIORATES THE COURSE OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS (MPGN). A REPORT OF THE INTERNATIONAL STUDY OF KIDNEY DISEASE IN CHILDREN. Chester M. Edelmann, Jr. Albert Einstein College of Medicine, Bronx, NY. (Abstract 1804).
99. PROTEIN RESTRICTION DOES NOT PREVENT RENAL INJURY IN THE SPONTANEOUSLY HYPERTENSIVE RAT (SHR). Leonard G. Feld, James E. Springate, Bernice Noble, Judith B. Van Liew (Spon. by Robert E. Cooke). SUNY at Buffalo, Children's Hosp. and VA Medical Ctr., Depts. Pathology, Pediatrics and Physiology, Buffalo, NY. (Abstract 1806).
100. EFFECT OF PROTEIN LOADING ON CALCIUM BINDING-PROTEIN IN KIDNEY AND INTESTINE OF WEANLING RATS. M. Jacob, J. Chan, M. Bruns, S. Christakos. Med. Coll. of Virginia, Richmond, VA; Univ. of Virginia, Charlottesville, VA; Univ. Med. Dent. of New Jersey, Newark, NJ. (Abstract 1822).
101. LONG TERM FOLLOWUP OF RENAL FUNCTIONS (RF) IN RHESUS DIABETIC MONKEYS. Eunice G. John, Linda Fornell, Ann Baum, Jose Manaligod, Glenn Takimoto, Olga Jonasson (Spon. by George R. Honig). Univ. of Illinois at Chicago, Depts. of Pediatrics, Surgery, and Pathology, Chicago, IL. (Abstract 1826).

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102. MACROCEPHALY AND HYDROCEPHALUS: A FREQUENT FINDING IN INFANTS WITH RICKETS? F. Greig, M. C. Fortun, W. Rosenfeld, R. Giridharan (Spon. by T.W. AvRuskin). Brookdale Hospital Med. Ctr. and Interfaith Med. Ctr., SUNY-Health Science Center in Brooklyn, NY. (Abstract 1905).
103. A RARE LESION MISTAKEN FOR A CEREBRAL HEMORRHAGE ON ULTRASOUND IN A SICK PREMATURE: LIPOMA OF THE CORPUS CALLOSUM. Sonia O. Imaizumi, Jeanette R. Pleasure, Alan B. Zubrow (Spon. by David E. Pleasure). The Medical College of PA, Dept. of Pediatrics, Philadelphia, PA. (Abstract 1908).
104. ELEVATED CSF BETA-ENDORPHINS IN APNEA: TREATMENT WITH AN ORAL OPIOID ANTAGONIST. Edwin C. Myer, Andrew W. Zimmerman, Dale Morris, William B. Dewey (Spon. by Harold M. Maurer). Depts. of Neurology/Pediatrics and Pharmacology, Medical College of Virginia, Virginia Commonwealth Univ., Richmond, VA and Knoxville, TN. (Abstract 1929).
105. INSULIN PREVENTS CSF GAMMA ENOLASE ELEVATION IN HYPOXIC 14 DAY OLD RATS. H. Sobajima, T. Kato, S. Suzuki, Y. Wada, H. Togari. (Spon. by William Oh). Dept. of Peds., Nagoya City Univ. Med. School, Nagoya, Japan. (Abstract 1944).