

## POSTER SESSION II

Tuesday, April 28, 1987; 4:00 P.M. - 6:30 P.M.  
EXHIBIT HALL  
(Hotel Convention Center)

### ADOLESCENT MEDICINE

1. ABUSE AND HEALTH BEHAVIORS IN A STUDENT POPULATION. Roberta A. Hibbard, Cathy Brack, Donald P. Orr. Indiana Univ. Dept. of Pediatrics, Indianapolis, IN. (Abstract 15).
2. PREMENSTRUAL SYMPTOMS IN ADOLESCENTS. Martin Fisher, Katherine Trieller, Barbara Napolitano (Spon. by Stanford B. Friedman). Cornell Univ. Med. Coll., North Shore Univ. Hosp., Depts. of Pediatrics and Research, Manhasset, NY. (Abstract 9).
3. THE INFLUENCE OF PSYCHOLOGICAL FACTORS ON ADOLESCENT'S RESPONSE TO ANALGESICS FOR PAIN. Robert H. DuRant, Susan Jay, Rita Jerath, Stacy Fink, Janys A. Jennings, Charles W. Linder (Spon. by Albert W. Pruitt). Medical College of Georgia, Children's Medical Center, Dept. of Pediatrics, Augusta, GA. (Abstract 7).
4. THE MEANING OF ALCOHOL USE IN EARLY ADOLESCENTS. Charles E. Irwin, Jr., Susan G. Millstein. Univ. of California, San Francisco, Dept. of Pediatrics, San Francisco, CA (Abstract 17).
5. OPTIMISTIC BIAS IN ADOLESCENTS WITH HEMOPHILIA. Jeff Kamler, Charles E. Irwin, Jr., George Stone, Susan G. Millstein. Univ. of California, San Francisco, Depts. of Pediatrics and Psychiatry, San Francisco, CA (Abstract 19).
6. KNOWLEDGE AND CONCERNS ABOUT AIDS AMONG ADOLESCENT PATIENTS WITH HEMOPHILIA. Kim J. Overby, Iris F. Litt, Bernard Lo. Stanford Univ., Dept. of Peds., Stanford, CA; UC, San Francisco, Dept. of Int. Med., San Francisco, CA. (Abstract 24).

### BEHAVIORAL PEDIATRICS

7. EFFECT OF FORMULA PROTEIN CHANGE ON CRYING BEHAVIOR. Ronald G. Barr, Judy Wooldridge, Cathy Tansey, Joel Adelson. McGill University, Montreal Children's Hospital, Dept. of Pediatrics, Montreal, Canada. (Abstract 37).
8. RESPONSIVENESS OF PRETERM INFANTS TO ANIMATE AUDITORY AND TACTILE STIMULATION. Jerri Oehler (Spon. by Jane E. Brazy). Duke Univ. Medical Center, Dept. of Pediatrics, Durham, NC. (Abstract 63).
9. MOTOR ASSESSMENT OF COCAINE-EXPOSED INFANTS. Jane Schneider, Ira Chasnoff (Spon. by James Stockman, III). Northwestern Univ. Med. School, Depts. of Pediatrics & Psychiatry, Chicago, IL. (Abstract 68).

10. EMERGENCE OF STATE REGULATION IN VLBW PREMATURE INFANTS. John Paton, Barbara Fajardo, Margaret Browning, David Fisher. Michael Reese Hospital & Medical Center, Univ. of Chicago, Dept. of Pediatrics, Dysfunctional Child Center, Chicago, IL. (Abstract 64).

#### CRITICAL CARE

11. SEVERE AIRWAY OBSTRUCTION: AIRWAY AND ALVEOLAR PRESSURES DURING CONTINUOUS POSITIVE PRESSURE BREATHING (CPPB). Shekhar T. Venkataraman, Richard A. Orr, Donna F. Howland, Bradley P. Fuhrman. U. of Pittsburgh, Children's Hospital of Pittsburgh, Anesth/CCM and Peds., Pittsburgh, PA. (Abstract 211).
12. PROSPECTIVE STUDY OF POST INTUBATION LARYNGEAL EDEMA (LE) TREATED WITH AEROSOLIZED EPINEPHRINE (AE). Jacob N. Nutman, Kathleen M. Deakins, Karen K. Baldesare, Madolin K. Witte (Spon. by Jeffrey L. Blumer). Case Western Reserve Univ. School of Medicine, Rainbow Babies & Childrens Hosp., Dept. of Pediatrics, Cleveland, OH. (Abstract 196).

#### DEVELOPMENTAL BIOLOGY

13. EFFECTS OF HYDROCORTISONE ON HUMAN FOETAL KIDNEY IN SERUM-FREE ORGAN CULTURE. Lyne Bertrand, Normand Briere (Spon. by Marek R. Pleszczynski). Dept. d'anatomie et de biologie cellulaire, Faculte de medecine, Univ. de Sherbrooke, Quebec, Canada. (Abstract 223).
14. MATURATION OF ANTIOXIDANT ENZYME ACTIVITY IN THE RAT SMALL INTESTINE. Elizabeth L. Engelhardt, James C. Beggs, Josef Neu (Spon. by Donald V. Eitzman). Univ. of Florida College of Medicine, Dept. of Pediatrics, Gainesville, FL. (Abstract 237).
15. INCREASED EPIDERMAL GROWTH FACTOR CONCENTRATIONS IN DONAHUE'S SYNDROME (LEPRECHAUNISM). Joseph P. Frindik, Stephen F. Kemp, M. Joycelyn Elders. Univ. of Arkansas for Medical Sciences, Pediatric Dept., Little Rock, AR. (Abstract 241).
16. EXAMINATION OF THE "SURFACE TENSION" OF NEWBORN RAT SKIN: METHOD AND EFFECTS OF EPIDERMAL GROWTH FACTOR (EGF). Steven B. Hoath, William Pickens, Diane Sneller (Spon. by Jeffrey Whitsett). Univ. Cincinnati Med. Ctr., Dept. of Pediatrics, Cincinnati, OH. (Abstract 256).
17. MULTIPLE B-ADRENOCEPTORS ARE PRESENT IN ADULT BUT NOT FETAL SHEEP KIDNEYS. Tony McKelvey, Christian Felder, Kenneth Nakamura, Jean Robillard, Pedro Jose, Georgetown Univ. and Univ. Iowa Med Ctr, Depts. of Peds., Iowa City, IA and Washington, DC. (Abstract 273).

#### EPIDEMIOLOGY

18. ABNORMAL PNEUMOGRAMS (PNGS) IN INFANTS WITH IN UTERO COCAINE EXPOSURE. Jean G. Riley, Rachel Porat (Spon. by Hope Punnett). Albert Einstein Med. Ctr., Temple Univ. Sch. Med., Dept. of Ped., Philadelphia, PA. (Abstract 530).

19. IS ALTERED OXYGEN TRANSPORT THE MECHANISM FOR INCREASED LEFT VENTRICULAR THICKNESS IN PASSIVE SMOKING CHILDREN? William B. Moskowitz, Joann N. Bodurtha, Michael Mosteller, Richard M. Schieken. Medical College of Virginia, MCV Hospitals, Dept. of Pediatrics, Richmond, VA. (Abstract 516).
20. EFFECTS OF SMOKING ON OXY- AND CARBOXYHEMOGLOBIN (O<sub>2</sub>Hb%, COHb%) IN THE PREGNANT EWE AND FETUS. David J. Burchfield, Michael J. McTiernan, Robert A. Abrams, Sidney A. Cassin (Spon. by D.V. Eitzman). Depts. of Pediatrics, Ob-Gyn, and Physiology Univ. of Florida, Gainesville, FL. (Abstract 495).
21. PLACE OF BIRTH AND MORTALITY IN VERY PRETERM AND VERY LOW BIRTHWEIGHT (VLBW) INFANTS. S.P. Verloove-Vanhorick, M.C.A. Ebeling, R. Brand, J.H. Ruys (Spon. by William Oh). Leiden Univ. Hosp., Dept. of Pediatrics and Dept. of Med. Statistics, Leiden, The Netherlands. (Abstract 535).
22. MOTHER'S BIRTH WEIGHT AND THE RISK OF PRETERM AND SMALL FOR GESTATIONAL AGE BIRTH. Mark A. Klebanoff (Spon. by J.L. Mills). NICHD, NIH, Bethesda, MD. (Abstract 508).
23. CHILDBEARING IN WOMEN GREATER THAN OR EQUAL TO 35 YEARS. Kathleen Meyer, George Hepner, Bhavesh Shah (Spon. by Edward O. Reiter). Baystate Medical Center, Dept. of Pediatrics, Springfield, MA. (Abstract 514).

#### GASTROENTEROLOGY & NUTRITION

24. INTESTINAL ABSORPTIVE SURFACE AREA IS DETERMINED BY MICROVILLUS NUMBER/CELL, NOT BY MICROVILLUS HEIGHT. Saul Teichberg, Hugo da Costa Ribeiro, Jr., Fima Lifshitz. Cornell Univ. Medical Coll., North Shore Univ. Hosp., Dept. of Peds and Laboratories, Manhasset, NY. (Abstract 633).
25. THE LIPID-LADEN MACROPHAGE AS A MARKER OF ASPIRATION IN NEONATES WITH CHRONIC LUNG DISEASE. J. Roberto Moran, Steven M. Block, Anne Lyerly, Linda Brooks, Robert G. Dillard (Spon. by Jimmy L. Simon). The Bowman Gray School of Medicine of Wake Forest Univ., Dept. of Peds., Winston-Salem, NC. (Abstract 598).
26. HEPATIC CYCTS IN CPK MICE; A MORPHOLOGIC STUDY AND TECHNIQUE FOR VISUALIZATION OF INTRAHEPATIC BILE DUCTS. Paul C. Grimm, John F. Crocker, Malcolm R. Ogborn, Dickran A. Malatjalian. Dalhousie Univ., Izaak Walton Killam Hosp. for Children and Victoria General Hosp., Depts. of Peds. and Path., Halifax, Nova Scotia. (Abstract 572).
27. INFLUENZA VIRUS ALTERS HEPATIC MITOCHONDRIAL OXYGEN CONSUMPTION UTILIZING ELECTRON TRANSFERRING DYES IN A MOUSE MODEL OF REYE'S SYNDROME. C. Jeffrey Sippel, Ronald Cockrell, Kathleen B. Schwarz (Spon. by T. Aceto, Jr.). St. Louis Univ. Medical Ctr., Cardinal Glennon Children's Hosp., Depts. of Pediatrics and Biochemistry, St. Louis, MO. (Abstract 625).

28. INCREASED TYPE V COLLAGEN IN THE STRICTURES OF CROHN'S DISEASE. Martin F. Graham, Robert F. Diegelmann, William J. Lindblad, Charles O. Elson (Spon. by H. Maurer). Medical College of Virginia, Depts. of Peds., Surgery and Medicine, Richmond, VA. (Abstract 568).
29. HEMOLYSIS DURING SULFASALAZINE (S) THERAPY FOR PEDIATRIC INFLAMMATORY BOWEL DISEASE. M. J. Pettei, L. Adams, M. Davidson. SUNY at Stony Brook and the Schneider Children's Hospital LIJMC, Dept. of Peds, New Hyde Park, NY. (Abstract 610).
30. PROCTOSIGMOIDOSCOPY IN THE EVALUATION OF RECTAL BLEEDING IN NEWBORN INFANTS. T. Taxman, B. Dahms, F. Rothstein, R. Kleigman. Case Western Reserve Univ., Dept. of Pediatrics, Rainbow Babies & Children's Hosp., Cleveland, OH. (Abstract 632).

**GENERAL PEDIATRICS & PEDIATRIC EDUCATION**

31. PEDIATRIC RESPIRATORY ARRESTS (RA) OR CARDIORESPIRATORY ARRESTS (CRA) IN RURAL COMMUNITY HOSPITALS. B. Bonner, L. Zaiim, J.E. Thompson (Spon. by David A. Clark). Dept. of Peds., Gundersen Clinic, La Crosse, WI. (Abstract 655).
32. SEASONAL DISTRIBUTION OF INFANTS WITH APPARENT LIFE THREATENING EPISODES (ALTE). Ehud Krongrad, NY State Apnea Committee. Columbia Univ., College of Physicians and Surgeons, Dept. of Pediatrics, New York, NY (Abstract 665).
33. PERIPHERAL VENOUS LINE INFILTRATION IN INFANTS RECEIVING 10% DEXTROSE, 10% DEXTROSE/AMINO ACIDS, OR 10% DEXTROSE/AMINO ACIDS/FAT EMULSION. Stephanie J. Phelps, Emily B. Cochran, Claudia A. Kamper (Spon. by Bruce S. Alpert). The Univ. of Tennessee Memphis, Dept. of Clinical Pharmacy, Memphis, TN. (Abstract 676).
34. ONLINE SEARCHING OF MEDICAL LITERATURE. James A. Menke, Richard E. McClead, (Spon. by Grant Morrow, III). Ohio State Univ. Children's Hospital, Dept. of Pediatrics, Columbus, OH. (Abstract 671).

**HEMATOLOGY & ONCOLOGY**

35. IDENTIFICATION OF A NEW STRUCTURAL VARIANT OF gamma SPECTRIN IN A DOUBLE HETEROZYGOUS FORM OF HEREDITARY PYROPOIKILOCYTOSIS (HPP). J. Lawler, T. Coetzer, V. N. Mankad, R. B. Moore, J. Palek, (Spon. by R. C. Boerth). Dept. of Pediatrics, Univ. of South Alabama College of Medicine, Mobile, AL, and Dept. of Biomedical Research, Tufts Univ. School of Medicine, Boston, MA. (Abstract 765).
36. AN INITIATION CODON MUTATION IN THE gamma-1 GLOBIN GENE OF A BLACK FAMILY WITH HbH DISEASE. Nancy F. Olivieri, Annette O. Poon, Lebe S. Chang, Alan M. Michelson, Stuart H. Orkin. The Hospital for Sick Children, Div. of Hematology/Oncology, Dept. of Pediatrics; Univ. of Toronto, Toronto, Ontario, Canada. (Abstract 778).

37. MOLECULAR AND CELLULAR BIOLOGY OF STAGE IV-S NEUROBLASTOMA. Perry D. Nisen, James Garvin, Jr., Schneider Children's Hosp., Div. Heme-Oncol., Long Island Jewish Med Center, New Hyde Park, NY and Columbia Univ. Coll. Phys. and Surg., Dept. of Peds., Heme-Oncol., NY, NY. (Abstract 775).

#### INFECTIOUS DISEASES

38. CHARACTERIZATION OF ANTIBODIES TO VARICELLA-ZOSTER VIRUS BY WESTERN BLOT. Lon Dubey, Anne Gershon, Sharon Steinberg, Philip LaRussa, Philip Oh. Dept. Pediatrics, Columbia Univ. College of Physicians & Surgeons, New York, NY. (Abstract 899).
39. MOLECULAR ANALYSIS OF ACYCLOVIR-RESISTANT VARICELLA-ZOSTER VIRUS ISOLATES. Mark H. Sawyer, Jeffrey M. Ostrove, David J. Waters, Karen K. Biron, Stephen E. Straus. (Sponsored by M.M. Frank). Laboratory of Clinical Investigation, NIAID, Bethesda, MD; Massachusetts Dept. Public Health, Boston, MA; Burroughs Wellcome Co., Research Triangle Park, NC. (Abstract 960).

#### NEONATOLOGY

40. PHYSIOLOGIC CORRECTION CANNOT ACCOUNT FOR THE ELEVATION OF TRANSCUTANEOUS (Tc) OVER ARTERIAL PCO<sub>2</sub>. R.J. Martin, A. Beoglos, M.J. Miller, J.M. DiFiore, S.R. Robertson, W.A. Carlo. CWRU, Dept. Peds., Cleveland, OH. (Abstract 1164).
41. DETERMINATION OF SAFE SaO<sub>2</sub> BY PULSE OXIMETRY IN VERY LOW BIRTH WEIGHT INFANTS. Lori A. Shook, M. Douglas Cunningham, Thomas H. Pauly, Nirmala S. Desai. Univ. of Kentucky, Albert B. Chandler Medical Ctr., Dept. of Pediatrics, Lexington, KY. (Abstract 1219).
42. OUTCOME OF 100 INFANTS TREATED WITH EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO). Marilea K. Miller, Billie L. Short, Penny Glass, Andrea Lotze, Kathryn D. Anderson. George Wash. Univ. Sch. Med., Children's Hosp. National Medical Center, Dept. Peds, Washington, DC. (Abstract 1174).
43. CAROTID ARTERY BLOOD FLOW VELOCITIES IN NEONATAL ECMO. Rebecca Ichord, Billie L. Short, Reginald Davis. George Washington Sch. Med., Children's Hosp. Natl. Med. Ctr., Dept. of Pediatrics, Washington, DC, and Johns Hopkins Univ., Dept. of Neurosurgery, Baltimore, MD. (Abstract 1139).
44. THE INCIDENCE OF INTRAVENTRICULAR HEMORRHAGE (IVH) IN PREMATURE INFANTS LESS THAN 30 WK GESTATION TREATED WITH ARTIFICIAL SURFACTANT FOR RDS. Samuel M. Willinger, Michael Horgan, Herman Risemberg. Albany Medical College, Service of Neonatology, Albany, NY. (Abstract 1244).
45. INCIDENCE OF PATENT DUCTUS ARTERIOSUS FOLLOWING ADMINISTRATION OF SURFACTANT TO PREMATURE INFANTS. Michael J. Horgan, Herman Risemberg, Albert Bartoletti, Allan Geis, Marc Perlman, Samuel Willinger (Spon. by B. Pollara). Albany Medical College, Dept. of Pediatrics, Albany, NY. (Abstract 1138).

46. SURFACTANT THERAPY (S) DOES NOT PRODUCE EARLY DIURESIS IN INFANTS WITH HYALINE MEMBRANE DISEASE (HMD): A CONTROLLED STUDY. Rama Bhat, Eunice John, Javier Diaz-Blanco, Romulo Ortega, Linda Fornell, Dharmapuri Vidyasagar. Univ. of Illinois Medical Ctr., Dept. of Pediatrics, Chicago, IL. (Abstract 1079).
47. DEXAMETHASONE FOR THE PREVENTION OF POST EXTUBATION RESPIRATORY DISTRESS. Bruce Ferrara, Jerry Ebert, Michael K. Georgieff, Joel B. Fisher, Dana E. Johnson, Theodore Thompson (Spon. by Robert L. Vernier). Dept. of Pediatrics, Univ. of Minnesota, Minneapolis, MN. (Abstract 1122).
48. PULMONARY MECHANICS OF THE GROWING MICROPREMIE NEONATE. Jay Greenspan, Soraya Abbasi, Vinod K. Bhutani (Spon. by Lois H. Johnson). Univ. of Pennsylvania Sch. of Med., Pennsylvania Hosp., Newborn Pediatrics, Philadelphia, PA. (Abstract 1132).
49. HEAD POSITION ALTERS THE DISTRIBUTION OF NASAL AIRFLOW IN INFANTS. R.J. Martin, B.S. Siner, W.A. Carlo, M.J. Miller. Case Western Reserve Univ., Dept. Peds., Cleveland, OH. (Abstract 1165).
50. SERIAL PLASMA CATECHOLAMINES (CA) DURING THE FIRST 48 HOURS AFTER BIRTH IN PRETERM HUMANS. Daniel H. Polk, James F. Padbury, John K. Ludlow, Eileen Goldblatt, Charles Day. UCLA School of Medicine, Harbor-UCLA Medical Ctr., Torrance, CA. (Abstract 1199).
51. HUMAN FETAL RESPONSE TO STRESS - PLASMA CATECHOLAMINES, AND RENIN IN CONTINUING PREGNANCIES. Carl P. Weiner, Jean E. Robillard, Kenneth T. Nakamura. Depts. of Ob/Gyn and Pediatrics, Univ. of Iowa, Iowa City, IA. (Abstract 1243).
52. ATRIAL NATRIURETIC PEPTIDE (ANP) IN CEREBROSPINAL FLUID (CSF) IN NEWBORNS. Mario R. Reale, Guillermo Zeballos, Harry S. Dweck. NY Med. Coll., West. Medical Ctr., Div. of Neonatal-Perinatal Medicine, Dept. of Pediatrics & Physiology, Valhalla, NY. (Abstract 1207).
53. ENDOGENOUS DIGOXIN LIKE SUBSTANCE IN FETUSES WITH AND WITHOUT CARDIAC PATHOLOGY. Carl P. Weiner, Steve Landas (Spon. by J. Robillard). Dept. of Ob/Gyn, Univ. of Iowa Medical School, Iowa City, IA. (Abstract 1242).
54. HYPOXANTHINE: NEW STANDARD FOR ASPHYXIA. Jeffrey Pietz, Neal Guttenberg, Louis Gluck. Univ. of California Irvine, Dept. of Pediatrics, Orange, CA. (Abstract 1198).

#### NEONATAL EPIDEMIOLOGY AND FOLLOW-UP

55. CHANGING INDICATIONS FOR PRIMARY CESAREAN SECTION (PCS) IN A REGIONAL PERINATAL CENTER. Houchang D. Modanlou, Wendy P. Dorchester. Neonatal-Perinatal Medicine, Miller Children's Hosp., Long Beach, Univ. of California, Irvine, CA. (Abstract 1361).

56. MATERNAL, FETAL AND IMMEDIATE NEONATAL MORBIDITY AND OPERATIVE DELIVERY. Houchang D. Modanlou, Wendy P. Dorchester. Neonatal-Perinatal Medicine, Miller Children's Hosp. Long Beach, Univ. of Cal., Irvine, CA. (Abstract 1360).
57. ATTITUDINAL CHANGES IN OBSTETRIC AND NEONATAL CARE IMPROVES OUTCOME OF  $\leq 800$  G BW INFANTS. H.W. Kilbride, D.K. Daily, K. Claflin, H.O. Grundy, N. Hipsch, G. Zabielski, D. Maulik (Spon. by R.T. Hall). UMKC Sch. Medical, Children's Mercy Hospital, Kansas City, MO. (Abstract 1345).
58. PROPHYLACTIC INDOMETHACIN FOR PREVENTION OF INTRAVENTRICULAR HEMORRHAGE (IVH): NEURODEVELOPMENTAL FOLLOW-UP. Emmalee Setzer Bandstra, Maria L. Duenas, Ines Rodriguez, Hun-Seng Chao, Berta M. Montalv, Charles R. Bauer, Eduardo Bancalari. Univ. of Miami, Jackson Memorial Hospital and Mailman Center for Child Development, Depts. of Pediatrics and Radiology, Miami, FL. (Abstract 1306).
59. MULTIPLY-TRANSFUSED (M-Tx) PRETERM INFANTS MAY NOT REQUIRE IRON - SUPPLEMENTATION (IRON-S) AT RECOMMENDED TIMES. Jocelyn R. Austria, Nancy L. Brodsky, Hallam Hurt (Spon. by Hope Punnett). Albert Einstein Med. Ctr., Temple Univ. Sch. Med., Dept. Ped., Philadelphia, PA. (Abstract 1304).
60. SPECTRAL ANALYSIS OF HEART RATE IN PRETERM AND TERM INFANTS AND 8 MONTH DEVELOPMENTAL OUTCOME. Barry M. Lester, C.Z. Boukydis (Spon. by William Oh). Brown Univ., Providence, RI. (Abstract 1355).
61. DOES MATERNAL AGE INFLUENCE INTRAUTERINE FETAL GROWTH? K.S. Lee, R.M. Ferguson, M.L. Corpuz. Univ. of Chicago, Dept. of Pediatrics, Chicago, IL. (Abstract 1353).

#### NEONATAL INFECTIOUS DISEASES

62. PRENATAL PROPHYLACTIC IMMUNOTHERAPY IN NEWBORN RAT ENDOTOXICOSIS. Masakatsu Goto, W. Patrick Zeller, R. Morrison Hurley, James P. Filkins (Spon. by Edward Ogata). Stritch School of Medicine, Loyola Univ., Foster G. McGaw Hospital, Depts. of Pediatrics and Physiology, Maywood, IL. (Abstract 1449).
63. HUMAN NEWBORN AND ADULT PULMONARY ALVEOLAR MACROPHAGES (PAM) QUANTITATIVE MICROANALYSIS OF ANTI-CANDIDA ACTIVITY. John B. D'Ambola, Michael P. Sherman. Univ. of California, UCLA School of Medicine and Medical Center, Dept. of Pediatrics, Los Angeles, CA (Abstract 1444).
64. PHAGOCYTOSIS OF GROUP B STREPTOCOCCI (GBS) BY HUMAN MONOCYTES: RELATION TO CELL AGE AND COMPLEMENT RECEPTORS. Nathaniel R. Payne, Nelydia F. Concepcion, Bascom F. Anthony. UCLA Sch. of Medicine, UCLA Medical Center and Harbor-UCLA Med. Center, Dept. of Pediatrics, Los Angeles and Torrance, CA. (Abstract 1471).
65. HEPATOCYTE (HC) SYNTHETIC FUNCTION DURING SEPSIS IN SUCKLING RATS. Uma M. Chockalingam, Frank B. Cerra, Michael K. Georgieff (Spon. by Dana E. Johnson). Univ. of Minnesota School of Med., Div. of Neonatology, Depts. of Peds. and Surgery, Minneapolis, MN. (Abstract 1442).

## NEONATAL NUTRITION & METABOLISM

66. CORTICOSTEROIDS INCREASE GASTRIC LUMINAL PROTEOLYSIS IN SUCKLING RATS. John R. Britton, Koldovsky Otakar. Univ. of Arizona Health Sciences Ctr., Dept. of Pediatrics, Tucson, AZ. (Abstract 1504).
67. EFFECT OF PRENATAL STEROIDS ON SERUM RETINOL, RETINOL-BINDING PROTEIN AND BRONCHOPULMONARY DYSPLASIA IN PRETERM INFANTS. S.R. Sasanow, S. Abbasi, G.R. Pereira, E. Gunter, L. Corcora, M.K. Georgieff, L. Johnson. Div. of Neonatology, Dept. of Pediatrics, Univ. of PA School of Medicine, Children's Hospital of Phila. & Penna. Hospital, Phila, PA and Dept. of Peds., Univ. of Minn., Minneapolis, MN & CDC, Atlanta, GA. (Abstract 1579).
68. SYNTHESIS AND SECRETION OF FATTY ACIDS BY HUMAN TROPHOBLAST CELLS IN CULTURE. Rosalind A. Coleman, Elaine B. Haynes. Duke Univ. Med. Ctr., Dept. of Pediatrics, and Biochemistry, Durham, NC. (Abstract 1513).
69. ENERGY BALANCE IN INFANTS WITH BRONCHOPULMONARY DYSPLASIA (BPD). T.F. Yeh, D.A. McLenan, O.A. Ajayi, R.S. Pildes. Cook County Hosp., Div. of Neonatology, and Univ. of IL, Chicago, IL. (Abstract 1600).
70. MEASUREMENT OF EXTRACELLULAR WATER (ECW) IN LOW BIRTH WEIGHT (LBW) INFANTS USING BIOELECTRICAL REACTANCE. S.R. Mayfield, R. Uauy (Spon. by J.B. Warshaw). Southwestern Medical School, Dept. of Pediatrics, Dallas, TX. (Abstract 1553).
71. FREQUENCY OF GALLBLADDER SLUDGE (GSL) AND GALLSTONE (GST) FORMATION IN PREMATURE INFANTS (PI) ON PARENTERAL NUTRITION (PN). Muhammad S. Ismail, Douglas E. Cook, Sharon R. Ternullo, Dawn G. Mueller, David E.M. Drucker, Kathryn W. Kerkering (Spon. by Harold M. Maurer). Virginia Commonwealth Univ., Medical College of VA, Children's Medical Center, Richmond, VA. (Abstract 1537).
72. SERUM PROLACTIN (PRL) LEVELS AND LACTATION IN MOTHERS OF PREMATURE INFANTS. Richard A. Ehrenkranz, Barbara A. Ackerman, Elaine A. Sherwonit, Joanne E. Williams. Yale Univ. School of Medicine, Dept. of Pediatrics, New Haven, CT. (Abstract 1519).
73. MATERNO-FETAL CALCIUM (Ca) TRANSFER ACROSS THE IN SITU PERFUSED RAT PLACENTA: RELATION TO MATERNAL 1,25 DIHYDROXYVITAMIN D3 (1,25D) ADMINISTRATION. Zulf Mughal, Nicola Robinson, Colin Sibley (Spon. by R.C. Tsang). St. Mary's Hospital, Dept. of Child Health, Manchester, England. (Abstract 1560).
74. IN VIVO KINETICS OF HUMAN MILK LEUKOCYTES (HML) AFTER INGESTION BY NEWBORN. Dharmapuri Vidyasagar, Marietta Xanthou, Lucky Jain, Vivek Ghai, Senji Schimada, Michael Blend. Univ. of Illinois Medical Center, Chicago, IL and Agha Sophia Hospital, Athens, Greece. (Abstract 1594).
75. INORGANIC SULFATE (SO<sub>4</sub>) METABOLISM IN THE VERY LOW BIRTHWEIGHT (VLBW) INFANT: IS VITAMIN D A FACTOR? David E.C. Cole, David C. Hamilton, May Raad, Jacquelyn R. Evans. Dalhousie Univ., Depts. of Peds. and Statistics, Halifax, NS. (Abstract 1512).



76. EFFECTS OF SHORT- AND LONG-TERM PRENATAL STEROIDS ON NUTRITIONAL PROTEINS IN PREMATURE NEONATES. Michael K. Georgieff, Uma M. Chockalingam, Edrie Murphy, Jan C. Ophoven (Spon. by Dana E. Johnson). Univ. of MN School of Medicine, St. Paul Children's Hospital, Div. of Neonatology, Dept. of Pediatrics and Dept. of Pathology, St. Paul, MN. (Abstract 1525).
77. NEWBORN SURVIVAL AND URINARY TBA REACTANTS IN HYPEROXIA: THE ROLE OF DIET. Teresa A. Marshall, Robert J. Roberts. Depts. of Pediatrics and Pharmacology, Univ. of Iowa, College of Medicine, Iowa City, IA. (Abstract 1551).

#### NEONATAL PULMONOLOGY

78. CLEARANCE OF SURFACTANT PHOSPHATIDYLCHOLINE (PC) FROM THE LUNGS OF PRETERM VENTILATED RABBITS. Steven R. Seidner, Machiko Ikegami, Andrea Pettenazzo, Lynda D. Ruffini, Alan H. Jobe. UCLA School of Medicine, Harbor-UCLA Medical Center, Dept. of Pediatrics, Torrance, CA. (Abstract 1752).
79. FACTORS ASSOCIATED WITH POOR RESPONSES TO SURFACTANT TREATMENT IN SEVERE RESPIRATORY DISTRESS SYNDROME. Anne Charon, H. William Taeusch, Christine Fitzgibbon, Gerald B. Smith, S.K. Treves. Harvard Med. School, Dept. of Peds. and Radiology, Boston, MA. (Abstract 1634).
80. DO PULMONARY MECHANICS CHANGE FOLLOWING SURFACTANT (S) THERAPY? A CONTROLLED STUDY. Rama Bhat, Kathy Dziedzic, Dharmapuri Vidyasagar, Dolores Belmonte-Sy. Univ. of Illinois Med. Center, Dept. of Ped., Chicago, IL. (Abstract 1619).
81. ELASTOLYTIC DEGRADATION OF SURFACTANT 35kD APOPROTEIN. T. Allen Merritt, Susan D. Revak, Mikko Hallman, Charles G. Cochrane. Univ. of CA, San Diego, Dept. of Pediatrics, San Diego, CA; Scripps Clin. & Res. Found., La Jolla, CA; Univ. of Helsinki, Helsinki, Finland. (Abstract 1719).
82. ROLE OF DISTINCT POOLS OF SURFACTANT PROTEIN (SAP-35) IN REGULATION OF SURFACTANT SECRETION. Lawrence M. Noguee, Ward R. Rice, Jeffrey A. Whitsett. Univ. of Cincinnati College of Medicine, Cincinnati, OH. (Abstract 1726).
83. HYDROPHOBIC SURFACTANT PROTEINS (SAP-6) IN HUMAN AMNIOTIC FLUID; IDENTIFICATION AND QUANTIFICATION BY GESTATION. Michael J. McMahan, William M. Hull, Timothy E. Weaver, J. Robert Johnson, Jeffery A. Whitsett. Univ. of Cincinnati Medical Center, Dept. of Pediatrics, Cincinnati, OH. (Abstract 1718).
84. SURFACTANT-ASSOCIATED PROTEIN (SAP) CONCENTRATIONS IN LUNG LAVAGE FLUID IN INFANTS REQUIRING EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO): Andrea Lotze, Billie L. Short, Jeffrey A. Whitsett. Dept. of Ped., George Washington School of Med., Children's Hosp. Natl. Med. Ctr., Wash., D.C., Univ. of Cincinnati, Cincinnati, OH. (Abstract 1710).

85. LUNG SURFACTANT PRODUCTION IN THE DEVELOPING RAT. Philip Farrell, Robert Notter, Jacques Bourbon, Lea Marin. Univ. of Wisconsin-Madison; Univ. of Rochester, New York; and College de France and Hopital Port Royal, Paris, France. (Abstract 1663).
86. INTRAPULMONARY FOAM FORMATION: A CENTRAL ADAPTATIONAL PROCESS CONFIRMED AT NORMAL RESPIRATORY FREQUENCY AND BY CINEMICROGRAPHY (CM) AND 3D-SCANNING ELECTRON MICROSCOPY (3DSEM). Maria Antonio-Santiago, Alan J. Mautone, Emile M. Scarpelli. State Univ. of NY-Stony Brook and Schneider Child. Hosp.-LIJMC, Dept. of Ped., New Hyde Park, NY. (Abstract 1609).
87. ANTENATAL CORTICOSTEROIDS (ACS) AND INTRATRACHEAL SURFACTANT (NS): EFFECTS ON SURFACTANT METABOLISM. John M. Fiascone, Harris C. Jacobs, Mark R. Mercurio, David M. Lima (Spon. by Ian Gross). Yale Univ. Sch. of Med., Dept. of Ped., New Haven, CT. (Abstract 1665).
88. IS BETAMETHASONE (B) PLUS TRIIODOTHYRONINE (T3) THERAPY REALLY BETTER THAN B OR T3 ALONE IN ENHANCING FETAL (F) LUNG (L) MATURATION? Uday P. Devaskar, John Church, Vijay Chechani, Farouk Sadiq (Spon. by W.J. Keenan). St. Louis Univ. Dept. of Ped. Glennon Hosp., St. Louis, MO (Abstract 1648).
89. ENHANCED FUNCTIONAL & MORPHOLOGIC FETAL (F) RABBIT LUNG (L) MATURATION AFTER MATERNAL (M) ADMINISTRATION (ADM) OF THYROTROPIN RELEASING HORMONE (TRH). Uday P. Devaskar, Karl Szewczyk, Farouk Sadiq, Daphne deMello (Spon. by W.J. Keenan). St. Louis Univ. Cardinal Glennon Hosp., Dept. of Ped. & Path., St. Louis, MO. (Abstract 1649).
90. INOSITOL INCREASES LUNG-THORAX COMPLIANCE IN GLUCOCORTICOID-TREATED PRETERM RABBITS. Maurizio M. Anceschi, Mikko Hallman, Petrelli Adriano, Guiseppe Zaccardo, Gian Carlo Di Renzo, Ermelando V. Cosmi. Univ. of Perugia, Dept. of Obstet. Gynecol., Perugia, Italy, and Univ. of Helsinki, Dept. of Ped., Helsinki, Finland. (Abstract 1608).
91. HIGH GLUCOSE INHIBITS MORPHOLOGIC MATURATION OF FETAL LUNG IN VITRO. Ira H. Gewolb. (Spon. by A. Fleischman). Dept. of Ped., Albert Einstein Coll. of Med., Bronx, NY. (Abstract 1673).
92. POSTNATAL beta-AGONIST THERAPY DECREASES DEVELOPMENT OF BRONCHOEPITHELIAL LESIONS IN PREMATURELY DELIVERED RABBITS. Gerald A. Nystrom, Ilene R.S. Sosenko, Eduardo Bancalari. (Spon. by Stephen Ashwal). Loma Linda Univ., Dept. of Pediatrics, Loma Linda, CA, and Univ. of Miami, Dept. of Pediatrics, Miami, FL. (Abstract 1728).
93. EFFECT OF LABOR ON NASAL POTENTIAL DIFFERENCE OF HEALTHY TERM NEONATES. C.W. Gowen, Edward E. Lawson, Jeannine L. Gingras, Michael R. Knowles. East Carolina Univ. and Univ. of North Carolina, Dept. of Ped. and Med., Greenville and Chapel Hill, NC. (Abstract 1676).
94. LUNG HYPOPLASIA DUE TO PROLONGED AMNIOTIC FLUID LEAK: ANIMAL MODEL FOR STUDIES OF POSTNATAL CATCH-UP LUNG GROWTH AND FUNCTION. Adrien C. Moessinger, Malathy Singh, David F. Donnelly, Gabriel G. Haddad, Margaret H. Collins, L. Stanley James. Coll. of Phys. & Surg. of Columbia Univ., Dept. of Peds and Path., NY, NY. (Abstract 1721).

- 94A. HYPOXIC VS SEPTIC PULMONARY HYPERTENSION: SELECTIVE ROLE OF THROMBOXANE MEDIATION. Cathy Hammerman, William Meadow, Karl Komar, Elene Strates (Spon. by K. Lee). Univ. of Chicago Med. Center, Wyler Child. Hosp., Dept. of Peds., Chicago, IL. (Abstract 1685).

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97. TAURINE (T) ANALOGUES AFFORD CEREBRAL OSMOPROTECTION IN CHRONIC HYPERNATREMIC DEHYDRATION (CHD). H. Trachtman, L. Finberg, J.A. Sturman. Dept. of Pediatrics, Schneider Children's Hosp., New Hyde Park, NY SUNY-Stony Brook & Brooklyn; Dept. Developmental Biochem. Institute Basic Research, Staten Island, NY. (Abstract 1871).
98. TAURINURIA OF VITAMIN D DEFICIENCY IS MANIFESTED BY DECREASED AFFINITY OF THE TRANSPORT SYSTEM IN THE RENAL BRUSH BORDER MEMBRANE (BBM). Shermine Dabbagh, Marilyn Epley, Mohamed Virji, Tai Chen, Demetrius Ellis (Spon. by Ellis D. Avner). Children's Hosp. of Pittsburgh, Univ. of Pittsburgh, Pittsburgh, PA. (Abstract 1803).

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