

THE AMERICAN PEDIATRIC SOCIETY

April 26, 1978, 9:00 A.M.

Grand Ballroom

Presidential Address: C. Henry Kempe

PLENARY SESSION

Moderator: Norman Kretchmer

9:30 RED CELL SORBITOL AN EFFECTIVE INDICATOR OF DIABETIC CONTROL. J.I. Malone, and C.A. Simons, (Spon. by L.A. Barness), So. Fla. Coll. of Med., Dept. of Ped., Tampa. (313)

9:45 REDUCTION IN PERINATAL SURVIVAL OF PROGENY OF CAFFEINE TREATED MALE RATS. L.F. Soyka, J.M. Joffe, J.M. Peterson, S.M. Smith, Dept. of Pharmacol., Univ. of Vt. Coll. of Med., Burlington. (271)

10:00 SERUM OPSONIC ACTIVITY AND OPSONIC RESPONSE TO PNEUMOCOCCAL VACCINATION IN SPLENECTOMIZED CHILDREN. G.S. Giebink, J.E. Foker, P.J. Thomas and P.G. Quie, Depts. of Ped. & Surg., univ. of Minn. Minneapolis. (697)

10:15 INTERMISSION

10:30 CHROMOSOMAL MOSAICISM IN AMNIOTIC FLUID CELL CULTURES. D.C. Peakman, M.F. Moreton, B.J. Corn, A. Robinson, Univ. of Colo. Sch. of Med., Dept. of Biophysics and Genetics; National Jewish Hosp. and Res. Ctr., Denver. (551)

10:45 IS HUMAN MILK THE BEST FOOD FOR LOW BIRTH WEIGHT BABIES? G.B. Forbes, Univ. of Rochester Med. Ctr., Dept. of Ped., Rochester, NY. (422)

11:00 THE USE OF ONTOGENY AND MUTATION TOGETHER TO DEFINE THREE RENAL TRANSPORT SYSTEMS FOR PROLINE AND GLYCINE IN MAN. L.Lasley and C.R. Scriver, McGill Univ., Montreal Children's Hosp. Res. Inst. Montreal, Quebec. (193)

THE AMERICAN PEDIATRIC SOCIETY

April 26, 1978, 1:30 P.M.

Grand Ballroom

PRESENTATION OF THE HOWLAND AWARD TO CHARLES A. JANEWAY  
BY ALEXANDER NADAS

2:30 INTERMISSION

COMBINED SPR-APS SYMPOSIUM - "CURRENT STATE OF THE ART"

Moderators: C. Henry Kempe and Frank A. Oski

2:45 CURRENT VIEWS OF THE CYTOSKELETON. K. Porter, M.D., Distinguished Prof. of Biology, Univ. of Colo. at Boulder

3:15 IMMUNOBIOLOGY, CELLULAR ENGINEERING AND CANCER. R.A. Good, M.D., Pres. and Dir., Memorial Sloan-Kettering Cancer Center, New York

3:45 THE BIOLOGICAL SUBSTRATES OF MENTAL ILLNESS. S.S. Kety, M.D., Prof. of Psychiatry, Harvard Med. Sch., Dir. of Lab. for Psychiatric Res., Mailman Res. Ctr. McLean Hosp., Belmont, Mass.

The Society for Pediatric Research acknowledges the generous support of The Journal Of Pediatrics Educational Program for this special symposium.

#### THE SOCIETY FOR PEDIATRIC RESEARCH

April 27, 1978, 9:00 A.M.

Grand Ballroom

Presidential Address: Frank A. Oski

#### PLENARY SESSION

Moderator: Lowell A. Glasgow

9:30 NEONATAL RESPIRATORY SYNCYTIAL VIRAL(RSV) INFECTIONS. C.B. Hall, A.E. Kopelman, R.G. Douglas, Jr., Univ. of Rochester Med. Sch., Ped. Med, New York. (356)

9:45 EFFICACY OF INDOCIN(IN) FOR SYMPTOMATIC(S)PDA: A DOUBLE-BLIND CONTROLLED STUDY. R. Yanagi, A.Wilson, M.A. Fletcher, J. Boehm, R. Inwood, K. Aziz, E. Newfeld, and C.E. Hunt, Northwestern Univ., Chicago. (169)

10:00 INFANT CARE--CACHE OR CARRY? B. Lozoff, G.M. Brittenham, (Spon. by M.Klaus), CWRU School of Med., Rainbow Babies & Childrens, Dept. Ped., Cleveland. (56)

10:15 IRON (Fe) ABSORPTION IN THALASSEMIA MAJOR (THAL MAJ) AND THE EFFECTS OF TEA AS A CHELATING AGENT. P.A. deAlarcon, M.E. Donovan, G.B. Forbes, S.A. Landaw and J.A. Stockman, III. Dept. of Peds., SUNY, Syracuse, NY. and Univ. of Rochester New York. (597)

10:30 INTERMISSION

10:45 PRELIMINARY REPORT ON PSYCHOLOGICAL DEVELOPMENT AT AGE ONE OF TREATED HYPOTHYROID INFANTS DETECTED BY THE QUEBEC NETWORK FOR METABOLIC DISEASES. J.H. Dussault, J. Glorieux, J. Letarte, H. Guyda and C. Laberge, Quebec Screening Network for Metabolic Diseases, CHUL, Quebec. (293)

11:00 METHYLXANTHINES CAUSE A MARKED REDUCTION IN CHOLESTEROL SYNTHESIS IN CULTURED GLIAL CELLS. W.C. Allan and J.J. Volpe, Wash. Univ. Sch. of Med., St. Louis Children's Hosp., Dept. Ped. St. Louis. (226)

11:15 PROSPECTIVE STUDY OF MATERNAL AND INFANT INFECTION WITH CHLAMYDIA TRACHOMATIS. M.R. Hammerschlag, M. Anderka, D. MC Comb, W.M. MC Cormack (Spon. by A.L. Smith), Channing Lab.; Harvard Med. Sch., Harvard Sch. of Public Health; Boston City Hosp. (775)

11:30 NON-SURGICAL TREATMENT OF ACQUIRED HYDROCEPHALUS: EVALUATION OF SERIAL LUMBAR PUNCTURE. L. Papile, H. Koffler, R. Burstein, B. Koops. (Spon. by) R. Greenberg), Dept. of Ped., UNM Sch. of Med., Albuquerque, New Mexico. (1144)

11:45 FETAL & NEONATAL DISORDERS RELATED TO MATERNAL SMOKING. R.L. Naeye, Pa. State Univ. Coll. of Med., Dept. of Pathology, Hershey. (919)

12:00 CHRONIC NON-SPECIFIC DIARRHEA: ROLE OF DIETARY MANAGEMENT IN CONTROL. S. Cohen, R. Mathis and W.A. Walker, Mass. Gen. Hosp., Ped. Gastrointestinal and Nutrition Unit, Boston. (412)

#### POSTER SESSION

Thursday, April 27, 1978

1:30 - 3:30 P.M.

West Promenade - Third Floor

Moderator:

Anne Gershon

1. PHAGOCYTTIC KINETIC DEFECTS OF HUMAN NEWBORN MONOCYTES CORRECTABLE WITH LEVAMISOLE. K.E. Schuit and D.A. Powell (Spon. by W.A. Clyde, Jr.), Univ. of N. C., Sch. of Med. Dept. of Ped., Chapel Hill. (813)
2. DEVELOPMENT OF IMMUNITY AGAINST INFLUENZA A VIRUS INFECTION IN CHILDHOOD BY CONVENTIONAL AND NEURAMINIDASE SPECIFIC INFLUENZA VACCINES. T. Chow, K.R. Beutner, J. Clement, and P. L. Ogra, Dept. of Ped. and Microbio., State Univ. of NY at Buffalo. (759)
3. CELL MEDIATED IMMUNITY IN MOTHERS AND THEIR OFFSPRING WITH CYTOMEGALOVIRUS (CMV) INFECTION. D.W. Reynolds and P.H. Dean, Univ. of Alabama, in Birmingham, Dept. of Ped., Birmingham. (808)
4. CAN NEONATAL SEPSIS BE DIAGNOSED EARLY? A.G.S. Philip and J. Hewitt, (Spon. by J.F. Lucey), Univ. of Vt. Coll. of Med., Dept. of Ped., Burlington. (802)
5. SEROLOGIC AND VIROLOGIC STUDIES OF EPSTEIN-BARR VIRUS INFECTIONS IN CHILDREN WITH AN INFECTIOUS MONONUCLEOSIS(IM)-LIKE DISEASE. C.V. Sumaya and Y. Ench, Univ. of Texas Health Sci. Ctr., Dept. of Ped., San Antonio. (819)
6. GENERATION OF CHEMILUMINESCENCE (CL) AND HYDROXYL RADICAL ( $\cdot$ OH) BY A PARTICULATE FRACTION OF HUMAN NEUTROPHILS. L.C. McPhail, D.R. Ambruso and R.B. Johnston, Jr., National Jewish Hospital and Univ. of Colo. Med. Ctr., Dept. of Ped., Denver. (714)
7. IDENTIFICATION OF A NEUTROPHIL MEMBRANE DIFFERENCE BETWEEN ADULT AND NEWBORN CELLS USING A LECTIN-INDUCED ASSAY. A.D. Mease, G.W. Fischer, A.D. Mosijczuk, F.B. Ruyman, and D.D. Landis, Dept. of Ped., Uniformed Services Univ. Sch. of Med., Bethesda and Walter Reed Army Med. Ctr., Washington, DC. (716)

8. IDENTIFICATION AND CHARACTERIZATION OF HUMAN SUPPRESSOR LYMPHOCYTES. S.M. Fineman, F.B. Mudawwar, and R.S. Geħa, (Spon. by F.S. Rosen), Harvard Med. Sch., Children's Hosp. Med. Ctr., Dept. of Ped. Boston. (696)
9. E-ROSETTE-FORMING CELLS (E RFC) AND T<sub>8</sub> CELLS (SUPPRESSOR T) PRECURSORS IN CORD BLOOD LYMPHOCYTES (CBL). RESPONSIVENESS TO THYMOSIN FRACTION V. R. Bernales and J.A. Bellanti, Dept. Ped., Georgetown Univ. Sch. of Med. Washington, D.C. (683)
10. EFFECT OF PASSIVE IMMUNITY ON THE HUMORAL IMMUNE RESPONSE TO INGESTED MILK PROTEIN. C.H.L. Rieger, S.C. Kraft and R.M. Rothberg, Univ. of Chicago, Dept. of Ped., Chicago. (733)
11. ADVERSE DRUG REACTIONS (ADR) IN THE NEWBORN INTENSIVE CARE UNIT (NICU). J.V. Aranda, A. Portuguese-Malavasi, J. Collinge, E. Outerbridge., McGill Univ. Montreal Children's Hosp. Res. Institute, Dept. of Ped. Pharmacol. and Therapeutics, Montreal, Quebec. (349)
12. EPIDEMIC MEASLES 1976-1977: EPIDEMIOLOGIC, SEROLOGIC AND REVACCINATION STUDIES. P.J. Krause, J. Deseda-Tous, J.D. Cherry, M. Strassburg, C. Sullivan, M. Spencer, Y.J. Bryson, R.C. Welliver, K.M. Boyer, UCLA Sch. of Med. Dept. of Ped. Los Angeles. (362)
13. CORRECTION OF NEUTROPHIL (PMN) DYSFUNCTION IN CHRONIC GRANULOMATOUS DISEASE (CGD) WITH AN IgG-OXIDASE CONJUGATE. J.R. Humbert, W.R. Weston, and P.A. DeArmeý, State Univ. of New York at Buffalo, The Children's Hosp. of Buffalo, Dept. of Ped., Buffalo, and Univ. of Colo. Med. Ctr., Dept. of Ped. and Dermatol. Denver. (704)

THE AMERICAN PEDIATRIC SOCIETY  
AND  
THE SOCIETY FOR PEDIATRIC RESEARCH  
SUBSPECIALTY SESSIONS

April 27 and 28, 1978

Adolescent Medicine

April 28, 1978, 9:00 A.M.  
Regent Room

Moderators: Iris F. Litt & Stanford Friedman

1. 9:00 ADOLESCENT SECONDARY AMENORRHEA: ASSOCIATION WITH HYPOTHALAMIC HYPOTHYROIDISM. M.S. Kramer, A. Kauschansky, and M. Genel (Spon. by H.A. Pearson), Yale Univ. of Med. Yale-New Haven Hosp., Dept. of Ped. New Haven
2. 9:15 GROWTH, SKELETAL MATURATION AND PUBERTY IN SICKLE CELL DISEASE. S. Castells, E.G. Kassner, N. Muthukrishnan, Dept. of Ped. and Radiology, SUNY, Downstate Med. Ctr., Brooklyn New York.
3. 9:30 FAMILIES OF ADOLESCENTS WITH INFLAMMATORY BOWEL DISEASE: A DEMOGRAPHIC ANALYSIS. H. Aiges, J. Portnoy, M. Silverberg, F. Daum, Dept. of Ped. North Shore Univ. Hosp., Manhasset, NY and Cornell Univ. Med. Coll. NY.

4. 9:45 LONG-TERM FOLLOW-UP RESULTS IN CHILDREN AND ADOLESCENTS TREATED WITH RADIOACTIVE IODINE ( $^{131}\text{I}$ ) FOR HYPERTHYROIDISM. O.P. Schumacher and A.M. Safa (Spon. by W.M. Michener), Cleveland Clinic Found. Cleveland.
5. 10:00 THE NEUROLOGICAL MANIFESTATIONS IN CHRONIC LEADED GASOLINE INHALATION. S.S. Seshia, K.R. Rajani, P.N. Chow and R.L. Boeckx, (Spon. by J.C. Haworth), Univ. of Manitoba, Dept. of Ped., Winnipeg, Canada.
6. 10:30 NEGLIGIBLE RISKS IN MANAGEMENT OF THE SUICIDAL TEENAGER ON A GENERAL ADOLESCENT UNIT. A.M. Marks (Spon. by M.I. Cohen), Albert Einstein Coll. of Med. Montefiore Hosp. and Med. Ctr., Dept. of Ped. The Bronx, New York
7. 10:45 EXERCISE PERFORMANCE OF ADOLESCENTS WITH ESSENTIAL HYPERTENSION. D.B. Nudel, N. Gootman, S. Brunson, R.I. Shenker, B.G. Gauthier and A. Stenzler, SUNY at Stony Brook, Health Sci. Ctr., Long Island Jewish-Hillside Med. Ctr., Dept. of Ped. New Hyde Park, New York.
8. 11:00 CYTOMEGALOVIRUS (CMV) IN PREGNANT ADOLESCENTS AND THEIR OFFSPRING. D.J. Lang, S.I. Welt, J.F. Kummer, A.N. O'Quinn, R.J. Thompson, Jr., Duke Univ. Med. Ctr., Depts. Ped. and OB-GYN, Durham, NC
9. 11:15 EFFECT OF ISOMETRIC AND DYNAMIC EXERCISE STRESS ON HYPERTENSIVE ADOLESCENTS. D.E. Fixler, W.P. Laird, V. Fitzgerald, S.L. Wilson, R. Vance, Univ. of Texas Health Sci. Ctr., Dept. of Ped., Dallas
10. 11:30 A RETROSPECTIVE STUDY OF REDUCTION MAMMOPLASTY IN ADOLESCENTS AND YOUNG ADULTS. I.R. Shenker, M. Sonnenblick, A. Harris and S. Freeman (Spon. by N. Gootman), Sch. of Med. Health Sci. Ctr. State Univ. of New York, at Stony Brook, Long Island Jewish-Hillside Med. Ctr., Dept. of Ped. New Hyde Park.

#### BEHAVIORAL SCIENCES AND HEALTH SCIENCES RESEARCH

April 27, 1978, 2:00 P.M.

Sutton Ballroom South

Moderators: Barbara M. Korsch, Evan Charney and William K. Frankenberg

1. 2:00 NEUROPSYCHOLOGICAL DYSFUNCTION IN CHILDREN WITH "SILENT" LEAD EXPOSURE. H.L. Needleman, C. Gunnoe, A. Leviton, H. Peresie (Spon. by W. Grupe), Harvard Med. Sch. Children's Hosp. Med. Ctr., Dept. of Psychiatry, Boston
2. 2:15 A DOSE RESPONSE ANALYSIS OF THE EFFECT OF METHYLPHENIDATE (RITALIN) ON COGNITION OF HYPERACTIVE CHILDREN. M. Kinsbourne, J. Swanson and L. Kurland, The Hosp. for Sick Children, Res. Institute, Toronto.
3. 2:30 NORMATIVE DATA FOR AGE AND SEX VARIABILITY IN NEUROMATURATIONAL FUNCTION. C.B. Liden and C.P. Johnson, (Spon. by T.K. Oliver), Sch. of Med. Univ. of Pittsburgh, Children's Hosp. of Pittsburgh, Dept. of Ped., Pittsburgh.
4. 2:45 GROWTH, HEALTH AND DEVELOPMENT AFTER TOTAL PARENTERAL NUTRITION - A LONG-TERM FOLLOW-UP. A. Tejani, R. Mahadevan, B.S. Nangia, B. Dobias, and P.N. Varma, (Spon. by Q. Qazi), State Univ. of New York, Downstate Med. Ctr., and the Methodist Hosp., Dept. of Ped., Brooklyn.

3:00 INTERMISSION

5. 3:15 MATERNAL SOCIAL RISK FACTORS AS PREDICTORS OF COMPETENCE IN EARLY CHILDHOOD. E. Badger, D. Burns, B. Rhoads, A. Zwertschek, S. Elsass, K. Kazmaier, and P. Vietze, (Spon. by J.M. Sutherland), Univ. of Cincinnati Coll. of Med., Cincinnati, Ohio.
6. 3:30 THE BEHAVIOR OF NEWBORNS OF DIABETIC MOTHERS. M. Yogman, P. Cole, and H. Als, (Spon. by T.B. Brazelton), Harvard Med. Sch. Dept. of Ped., Boston.
7. 3:45 PSYCHOLOGICAL COSTS OF SURVIVING CHILDHOOD CANCER. J.E. O'Malley, G.P. Koocher, D.J. Foster, J.L. Gogan, and N. Jaffe (Spon. by D.G. Nathan), Sidney Farber Cancer Inst., Children's Hosp. Med. Ctr., Harvard Med. Sch. Boston.
8. 4:00 PROSPECTIVE STUDY OF FACTORS PREDISPOSING TO NON-ORGANIC FAILURE-TO-THRIVE (NOFT). W.A. Altmeier, III, P.M. Vietze, K.A. Sherrod, H.M. Sandler, S.M. O'Connor, Vanderbilt Univ. Sch. of Med. and Hosp., and Peabody Coll., Nashville, Tenn.
9. 4:15 MINIMAL BRAIN DYSFUNCTION SYNDROME IN CHILDHOOD: LATE OUTCOME IN RELATION TO INITIAL PRESENTATION AND INITIAL DIAGNOSTIC CATEGORIES. D.H. Milman, Downstate Med. Ctr., Dept. of Ped., Brooklyn, New York.
10. 4:30 THE PROGNOSIS OF NONORGANIC ABDOMINAL PAIN IN CHILDREN. G.B. Stickler, and D.B. Murphy, Mayo Clinic, Dept. of Ped., Rochester, Minn.

#### CARDIOLOGY

##### First Session

April 27, 1978, 2:00 P.M.

Murray Hill Suite

Moderators: Ronald M. Lauer, David E. Fixler, and Welton M. Gersony

1. 2:00 PULMONARY VASCULAR RESPONSES IN UNSEDATED NEWBORN LAMBS. J.E. Lock, F. Coceani, P.M. Olley, (Spon. by R.D. Rowe), The Hosp. for Sick Children, Dept. of Ped., Toronto.
2. 2:15 NONINVASIVE ASSESSMENT OF SURGICAL SYSTEMIC-TO-PULMONARY ARTERY SHUNTS BY RANGE-GATED PULSED DOPPLER ECHOCARDIOGRAPHY (RGPD). H.D. Allen, D.J. Sahn, S.J. Goldberg, Univ. of Ariz., Health Sci. Ctr., Tucson.
3. 2:30 DUCTUS ARTERIOSUS: DEVELOPMENTAL RESPONSE TO O<sub>2</sub> AND INDOMETHACIN. R.I. Clyman, M.A. Heymann, A.M. Rudolph, Univ. of Calif., Cardiovascular Res. Insti. San Francisco.
4. 2:45 ADMINISTRATION OF INDOMETHACIN TO THE PREGNANT EWE RESULTS IN CONSTRICTION OF THE FETAL DUCTUS ARTERIOSUS. D.L. Levin, L.J. Mills, M. Parkey, J. Garriott, (Spon. by D. Fix), The Univ. of Texas Health Sci. Ctr. at Dallas.
- 3:00 INTERMISSION
5. 3:15 CARDIOVASCULAR AND RENAL EFFECTS OF INDOMETHACIN IN NEWBORN DOGS. M.P. Bedard, L.I. Kleinman, U.R. Kotagal, and T.A. Disney, Univ. of Cincinnati Coll. of Med. Dept. of Ped., Cincinnati.

6. 3:30 EXERCISE-INDUCED VENTRICULAR ECTOPY IN COMPLETE HEART BLOCK, R.B. Winkler, M.D. Freed, A.S. Nadas, Children's Hosp. Med. Ctr., Boston.
7. 3:45 EVALUATION OF DIGOXIN DOSAGE IN PREMATURE INFANTS. W.W. Pinsky, P.C. Gillette, J.R. Jacobsen, J.M. Adams, J.A. Burdine, D.G. McNamara, Baylor Coll. of Med., Texas Children's Hosp., Dept. of Ped., Houston.
8. 4:00 CONTINUOUS MONITORING OF PO<sub>2</sub> FOLLOWING CARDIAC SURGERY. R. Raker, L. Indyk, C. Kull, L.S. James, W. Gersony, Dept. Ped., Coll. P & S. Columbia Univ., New York
9. 4:15 THE ROLE OF ECHOCARDIOGRAPHY IN POSTOPERATIVE AORTIC STENOSIS. M.H. Gewitz, J.C. Werner, C.S. Kleinman, W.E. Hellenbrand, N.S. Talner, Yale Univ. Sch. of Med., New Haven, CT.
10. 4:30 EFFECT OF OXYGEN ON THE SYSTEMIC VASCULAR BED IN PATIENTS WITH TETRALOGY OF FALLOT. R. Boxer, E. Krongrad, Al. Hordof, C. Steeg, W. Gersony, Coll. of Phys. and Surg., Columbia Univ. Dept. of Ped., New York.

### CARDIOLOGY

#### Second Session

April 28, 1978, 9:00 AM

Beekman Room

Moderators: Ronald M. Lauer, David E. Fixler and Welton M. Gersony

1. 9:00 MYOCARDIAL EXTRACTION OF OXYGEN AND CARBOHYDRATES IN THE LAMB FETUS IN UTERO. D.J. Fisher, A.M. Rudolph, M.A. Heymann, Cardiovascular Res. Insti. Univ. of Calif., San Francisco.
2. 9:15 MYOCARDIAL NECROSIS IN STRESSED NEWBORNS. W.H. Donnelly, R.L. Bucciarelli, R.M. Nelson. (Spon. by D.V. Eitzman). Univ. of Fla. Coll of Med. Shands Teaching Hosp., Dept. of Path. and Ped., Gainesville.
3. 9:30 HEMODYNAMICS AND MYOCARDIAL BLOOD FLOW IN THE FETUS WITH CHRONIC PULMONIC STENOSIS IN UTERO. C.S. Kleinman, R.K. Crone, M.A. Heymann, A.M. Rudolph, Univ. of Calif., Cardiovascular Res. Inst., San Francisco.
4. 9:45 MORPHOLOGIC RESPONSES OF THE FETAL MYOCARDIUM TO PULMONARY ARTERY BANDING IN UTERO. R.K. Crone, C.S. Kleinman, M.A. Heyman, A.M. Rudolph, Univ. of Calif. CVRI, San Francisco.
5. 10:00 EFFECT OF EXERCISE TRAINING ON MYOCARDIAL FUNCTION AND HYPERTROPHY. A.F. Cutilletta and K. Edmiston. Univ. of Chicago, Dept. of Ped., Chicago.
- 10:15 INTERMISSION
6. 10:30 CHRONIC HIGH ALTITUDE RESIDENCE AND SYSTEMIC BLOOD PRESSURE IN SCHOOL-AGED CHILDREN. R.R. Wolfe and J.R. Murphy. (Spon. by F.C. Battaglia). Univ. of Colo. Sch. of Med., Colo. Gen. Hosp., Dept. of Ped. Denver.

7. 10:45    PHYSIOLOGIC ATTRIBUTES INFLUENCING BLOOD PRESSURE IN YOUTHS 6-17 YEARS. W.R. Harlan, J. Cornoni-Huntley, and P.E. Leaverton, (Spon. by W.J. Oliver), Nat. Ctr. for Health Statistics, Hyattsville, Maryland.
8. 11:00    BLOOD PRESSURE AND HUMORAL FACTORS IN CHILDREN OF HYPERTENSIVE PARENTS. A.R. Hohn, D.A. Riopel, J.E. Keil, C.B. Loadholt, P.V. Halushka, H.S. Margolius, P.J. Privitera, J.G. Webb, S.H. Schuman, M.I. Rubin, M. Braunstein, Med. Univ. of S.C., Charleston.
9. 11:15    INTRARENAL BLOOD FLOW DISTRIBUTION (IRBFD) AND RENAL RENIN SECRETORY RATES (RRSR) IN CHILDREN WITH COARCTATION. A.B. Gruskin, V.H. Auerbach, I.F.S. Black, and D.W. Sapire, St. Christopher's Hosp. for Children, Dept. of Ped. Temple Univ. Med. Sch., Philadelphia.
10. 11:30    HYPERTENSION IN COARCTATION OF THE AORTA: THE ROLE OF THE RENIN-ANGIOTENSIN SYSTEM. J.M.A. ROLAND, P.Whelton, R.P. Russel, G. Walker, D. Harrington, L. Kidd, Johns Hopkins Hosp., Baltimore, Maryland

#### DEVELOPMENTAL BIOLOGY

##### First Session

April 27, 1978, 2:00 PM

##### Clinton Suite

Moderators:       Albert Dorfman, Lawrence M. Gartner and William T. Speck

1. 2:00       COMPARISON OF UNBILICAL GLUCOSE UPTAKE AND FETAL GLUCOSE TURNOVER RATES. W.W. Hay, J.W. Sparks, B.J. Quissell, F.C. Battaglia, G. Meschia, Univ. of Colo. Med. Ctr., Dept. of Ped., Denver.
  2. 2:15       INSULIN BINDING STUDIES IN NORMAL INFANTS (NI) AND INFANTS OF DIABETIC MOTHERS (IDM). N.D. Neufeld, S.A. Kaplan and B.M. Lippe, UCLA Sch. of Med. Dept. of Ped., Los Angeles
  3. 2:30       INSULIN DEGRADATION WITHIN THE FETO-PLACENTAL UNIT. R.E. Greenberg, and B. Avner, Dept. of Ped., Univ. of New Mexico Sch. of Med., Albuquerque.
  4. 2:45       EFFECT OF NUTRITION ON DEVELOPMENTAL CHANGES OF CARNITINE AND ACETYLCARNITINE PLASMA LEVELS IN NEWBORN INFANTS. M. Novak, P.B. Wieser, M. Buch, E. Monkus, Univ. of Miami Sch. of Med., Dept. of Ped., Miami, Fla., P. Hahn, Univ. of British Columbia, Centre for Developmental Med., Vancouver.
- 3:00       INTERMISSION
5. 3:15       THE RELATIONSHIP OF AMNIOTIC FLUID DEHYDROISOANDROSTERONE SULFATE (DS) AND CORTISOL (F) CONCENTRATIONS WITH LECITHIN TO SPHINGOMYELIN (L/S) RATIOS DURING HUMAN GESTATION. L. Milewich, J.M. Johnston, D.J. Bradfield, W.N.P. Herbert, P.C. MacDonald and J.M. Jimenez. (Spon. by C. Rosenfeld), Univ. of Texas Southwestern Med. Sch., Dept. Ob-Gyn, Dallas.
  6. 3:30       THE EFFECTS OF INTRAUTERINE GROWTH RETARDATION (IUGR) OF FETAL LUNG CHOLINE KINASE ACTIVITY. B.L. Chrzanowska, R.E. Ulane, L.L. Stephenson, M. Nitzan, J.D. Schulman, NICHD, Bethesda, Maryland.



7. 3:45 THE LOCALIZATION OF ADENYLATE CYCLASE AND INSULIN RECEPTORS IN THE HUMAN PLACENTA. J.A. Whitsett, C. Johnson, K. Hawkins, (Spon. by R. Tsang). Univ. of Cincinnati, Coll. of Med., Dept. of Ped. and Cell Biophysics, Cincinnati, Ohio
8. 4:00 VULNERABILITY OF THE PREIMPLANTATION MAMMALIAN EMBRYO. R.L. Brent, Jefferson Med. Coll., Thomas Jefferson Univ., Dept. of Ped., Philadelphia.
9. 4:15 CHARACTERIZATION OF A POLYAMINE-CONJUGATED, LOW MOLECULAR WEIGHT POLYPEPTIDE IN HUMAN THIRD TRIMESTER AMNIOTIC FLUID. W.Y. Chan, T.W. Seale, J.B. Shukla, P. Blackett, O.M. Rennert., Univ. of Oklahoma Health Sci Ctr., Dept. of Ped. and Dept. of Biochem. and Molecular Biol., Oklahoma City.
10. 4:30 DECREASED SURVIVAL AND ALTERED MEMBRANE PROPERTIES OF RED BLOOD CELLS (RBC) IN THE NEWBORN RAT. S.A. Landow (Spon. by F.A. Oski), SUNY Upstate Med. Ctr., & V.A. Hosp. Dept. of Med. and Radiol., Syracuse, New York.

### DEVELOPMENTAL BIOLOGY

#### Second Session

April 28, 1978, 9:00 A.M.

Clinton Suite

Moderators: Alber Dorfman, Lawrence M. Gartner and William T. Speck

1. 9:00 ECHOCARDIOGRAPHIC STUDIES OF THE DEVELOPING HUMAN FETUS. C.S. Kleinman, J.C. Hobbins, D.L. Creighton and N.S. Talner, Yale Univ. Sch. of Med., Dept. of Ped., New Haven.
  2. 9:15 THE DYNAMICS OF VASOPRESSIN RESPONSE TO BLOOD VOLUME DEPLETION IN THE LAMB FETUS. J.E. Robillard, R.E. Weitzman and F.G. Smith, Jr., Dept. of Ped. Univ. of Iowa, Iowa City, and Dept. of Med. UCLA Harbor Gen. Hosp., Torrance CA.
  3. 9:30 FETAL LAMB ARGININE VASOPRESSIN (AVP) RESPONSE TO A SINGLE HEMORRHAGE. W.H. Drummond, A.M. Rudolph, L.C. Keil, M.A. Heymann, Dept. of Ped., Univ. of Calif. San Francisco, and NASA-Ames Res. Ctr., Moffett Field, Calif.
  4. 9:45 PRENATAL DEVELOPMENT OF ANGIOTENSIN-CONVERTING ENZYME ACTIVITY IN RAT LUNGS. K.B. Wallace, J.B. Hook and M.D. Bailie, Depts. of Physiol., Pharmacol. and Human Develop., Michigan State Univ., East Lansing.
  5. 10:00 FETAL AND MATERNAL ARGININE VASOPRESSIN IN SPONTANEOUS OVINE PARTURITION. R.I. Stark, S.S. Daniel, K.M. Husain, R.L. V. Wiele, L.S. James, Div. of Perinatal Med. Coll. P. & S., Columbia Univ., New York.
- 10:15 INTERMISSION
6. 10:30 PLACENTAL IMPERMEABILITY TO PARATHORMONE (PTH) 1-125 IN THE EWE. A. Erenberg, M.M. Weinstein, I.W. Chen, and R.C. Tsang, Univ. of Iowa, Coll. of Med. Dept. Ped., Iowa City and Univ. of Cincinnati Coll. of Med., Dept. Ped.

7. 10:45 SERIAL PLASMA CORTICOSTEROIDS IN THE FETAL GROWTH RETARDED LAMB (FGR) A.J. Llanos, M. Seron-Ferre, J.R. Green, A.M. Rudolph, R.K. Creasy, Dept. of Ob-Gyn and Reproductive Sci. and Cardiovascular Res. Insti. Univ. of Calif. San Francisco.
8. 11:00 THE PRENATAL TRIIODOTHYRONINE (T3) SURGE IN THE FETAL SHEEP. A.H.Klein, T.H. Oddie and D.A. Fisher, Fetal-Maternal Res. Lab., UCLA, Harbor Gen. Hosp. Torrance, CA.
9. 11:15 POTASSIUM STIMULATION OF ALDOSTERONE IN THE NEWBORN LAMB. S.R. Siegel (Spon. by D.A. Fisher), Fetal Maternal Res. Lab., UCLA, Harbor Gen. Hosp. Torrance, CA.
10. 11:30 PROSTAGLANDIN SYNTHETASE IN THE HUMAN NEONATAL KIDNEY. Z Friedman, L. Demers. (Spon. by N.M. Nelson), Penn State Univ. Coll. Med., M.S. Hershey Med. Ctr., Dept. Ped., Hershey.

#### DEVELOPMENTAL PHARMACOLOGY

##### First Session

April 27, 1978, 2:00 P.M.

Gramercy Suite B

Moderators: William L. Nyhan, Richard Doherty and Jacob V. Aranda

1. 2:00 INTRAVENOUS GENTAMICIN PHARMACOKINETICS IN THE SMALL PRETERM INFANT. W.F. Coyer, G.E. Wesbey, K.L. Cech, J.A. Robinson, (Spon. by J.D. Madden), Loyola Univ. Stritch Sch. of Med., Depts. of Peds and Med. Maywood, Ill.
2. 2:15 NETILMICIN PHARMACOLOGY IN PEDIATRIC PATIENTS. V. Schauf, V. Chindasilpa, L. Hamilton, and L. Riff, Univ. of Ill. Hosp. Dept. of Ped. and Med., Chicago.
3. 2:30 PHARMACOKINETICS OF AQUEOUS PENICILLINS IN CEREBROSPINAL FLUID OF NEONATES. B. Bernard, L. Tinsley, J. Mapp. (Spon. by P.Y.K. Wu), Dept. of Ped. Univ. of So. Calif. Sch. of Med., LAC-USC Med. Ctr.
4. 2:45 CHLORAMPHENICOL KINETICS IN INFANTS AND CHILDREN. C.A. Friedman, F.C. Lovejoy, and A.L. Smith, Children's Hosp., Med. Center, Div. of Infectious Dis. and Pharmacol., Boston.
- 3:00 INTERMISSION
5. 3:15 DISPOSITION OF CHLORAMPHENICOL IN NEWBORN INFANTS. J.P. Glazer, M. Danish, S. Yachetti, and W.S. Warren, (Spon. by S.J. Yaffe), Univ. of Pa. Sch. of Med., Children's Hosp. of Phila. Dept. of Ped., Philadelphia.
6. 3:30 EFFECT OF ENDOTOXIN ON RAT HEPATIC DRUG METABOLISM DURING DEVELOPMENT B.R. Sonawane and S.J. Yaffe, Children's Hosp. and Dept. of Ped., Univ. of Pa., Philadelphia.
7. 3:45 DISPOSITION OF INDOMETHACIN IN PREMATURE INFANTS. M. Evans, R. Bhat, M. Vadelpalli, E. Fisher, A. Hastreiter, D. Vidyasagar, Dept. of Ped. ALSM, Univ. of Ill. Chicago.

8. 4:00 THE HEMODYNAMIC EFFECTS OF DOBUTAMINE IN CHILDREN. D.J. Driscoll, P.C. Gillette, D.F. Duff, M.R. Nihill, H.P. Gutgesell, T.A. Vargo, C.E. Mullins, D.G. McNamara, Baylor Coll. of Med., Texas Children's Hosp., Dept of Ped. Houston.
9. 4:15 ALPHA-METHYLDOPA METABOLISM IN HYPERTENSIVE AND RENAL INSUFFICIENT CHILDREN: IDENTIFICATION OF A NEW METABOLITE. R.F. O'Dea, M.J. Cooper, and B.L. Mirkin, Univ. of Minn. Med. Sch., Dept. Peds. & Pharmacol. Div. Clin. Pharmacol., Minneapolis.
10. 4:30 STUDIES ON A NEW COAGULATION PARAMETER: DECREASED URINARY  $\gamma$  CARBOXYGLUTAMIC ACID EXCRETION WITH WARFARIN THERAPY. R.J. Levy, J.B. Lian and P.M. Gallop. (Spon. by A.S. Nadas), Harvard Med. Sch. Children's Hosp. Med. Ctr., Dept. of Cardiology, and Orthopedic Res. Boston.

## DEVELOPMENTAL PHARMACOLOGY

### Second Session

April 28, 1978, 9:00 A.M.

Murray Hill Suite A

Moderators: William L. Nyhan, Richard Doherty and Jacob V. Aranda

1. 9:00 FOROSEMIDE PHARMACOKINETICS IN THE PREMATURE NEWBORN. R.G. Peterson, B.H. Rumack, J.G. Brooks (Spon. by F.C. Battaglia), Univ. of Colo. Med. Ctr. Dept. of Ped. Denver.
2. 9:15 THEOPHYLLINE HALF-LIFE IN INFANTS AND YOUNG CHILDREN. G. Kadlec, L.T. Ha, and C.H. Jarboe. (Spon. by B.F. Andrews), Univ. of Louisville, Sch. of Med., Dept. of Ped.
3. 9:30 NEONATAL HYPERMAGNESEMIA: EFFECT ON PARATHYROID HORMONE (PTH), TOTAL CALCIUM (Ca) AND IONIZED CALCIUM (iCa) LEVELS. E.F. Donovan, J.J. Steichen, R. Strub, M. Chen and R.C. Tsang, Univ. of Cincinnati Coll. of Med., Dept. of Ped. Cincinnati.
4. 9:45 INCREASED FETAL BREATHING WITH PILOCARPINE IN FETAL LAMBS. E.R. Brown, E.E. Lawson, H.W. Taeusch and V. Chernick, Dept. of Ped., Harvard Med. Sch. Boston.
5. 10:00 RESPONSES TO MORPHINE IN THE PREGNANT EWE. M.S. Cohen, A.M. Rudolph and K.L. Melmon, Univ. of Calif. San Francisco, Dept. of Ped. and Med. San Francisco.
- 10:15 INTERMISSION.
6. 10:30 RAPID CONTROL OF NEONATAL NARCOTIC ABSTINENCE UTILIZING A PHENOBARBITAL LOADING DOSE METHOD. T.F. Mitros, L. Hopkins, L.P. Finnegan (Spon. by L.J. Graziani), Jefferson Med. Coll. Dept. of Ped., Philadelphia.
7. 10:45 SUDDEN INFANT DEATH SYNDROME (SIDS) AMONG INFANTS OF DRUG DEPENDENT MOTHERS (IDDM). C.J. Chavez, J.C. Stryker, E.M. Ostrea, Jr., Depts. of Ped. Ob-Gyn. Wayne State Univ. & Hutzel Hosp., Detroit.

8. 11:00 D-PENICILLAMINE (PCA): ITS ACTIONS ON LEAD-203 ( $^{203}\text{Pb}$ ) CHELATION IN BONE ORGAN CULTURE. J.F. Rosen, Albert Einstein Coll. Med. Montefiore, Hosp. & Med. Ctr., Dept. Ped., New York.
9. 11:15 THE PHARMACOLOGY OF 2,3-DIMERCAPTOSUCCINIC ACID (DMS), A NEW AGENT FOR THE TREATMENT OF HEAVY METAL POISONING. J.H. Graziano and E. Friedheim, (Spon. BY D.R. Miller), Cornell Univ. Med. Coll Dept. of Ped., New York.
10. 11:30 DIETARY EFFECTS ON MERCURY ELIMINATION AFTER ADMINISTRATION OF  $\text{CH}_3\text{HgCl}$  or  $\text{HgCl}_2$ . T.D. Landry, R.A. Doherty, and A.H. Gates, Environmental Health Sci. Ctr. Dept. of Ped. RAdiation Biol. and Biophysics, OB, Genetics, Univ. of Rochester. New York.

## ENDOCRINOLOGY

### First Session

April 27, 1978 2:00 P.M.

West Ballroom

Moderators: Maria I. New, Gilles Leboeuf and Thomas Moshang

1. 2:00 A NEW TYPE OF RICKETS: UNRESPONSIVENESS OF BONE AND INTESTINE TO HIGH LEVELS OF ENDOGENOUSLY SYNTHESIZED 1,25-DIHYDROXYVITAMIN  $\text{D}_3$  [ $1,25(\text{OH})_2\text{D}_3$ ] J.F. Rosen, A.R. Fleischman, L. Finberg, H.F. DeLuca, Albert Einstein Coll. Med. Montefiore Hosp. & Med. Ctr., Dept. Ped., New York, Dept. Biochem, Univ. of Wisconsin, Madison.
  2. 2:15 EFFECT OF IN-UTERO INTRAVENOUS ADMINISTRATION OF THYROXINE AND OTHER HORMONES ON LUNG FLUID LECITHIN SPHINGOMYELIN (L/S) RATIO OF THE FETAL LAMB. U.C. Nwosu, J.D. Ferguson, E.E. Wallach, A.M. Bongiovanni and M. Delivoria-Papadopoulos, Univ. of Pa. Sch. of Med., Dept. of Ped., and Pa. Hosp., Dept. of Ob-Gyn. Philadelphia.
  3. 2:30 THYROID ANTIBODIES AND HL-A ANTIGENS IN CHILDREN WITH THYROID DISEASE. J.V. McLaughlin, N.K. MacLaren, B. Krupp, G. Taylor, C.H. Kim, S.W. Huang, Univ. of Md. Sch. of Med., Dept. of Ped., Baltimore.
  4. 2:45 INHIBITION OF MULLERIAN INHIBITING SUBSTANCE. B.Becru, Y. Morikawa, I.M.D. Jackson, P.K. Donahoe, Mass. Gen. Hosp. Harvard Med. Sch., Tufts Univ. Sch. of Med., Boston.
- 3:00 INTERMISSION
5. 3:15 METABOLIC CLEARANCE RATE OF OXYTOCIN IN MATERNAL AND FETAL SHEEP. T.H. Glatz, R.E. Weitzman, P.W. Nathanielsz, and D.A. Fisher, Fetal-Maternal Research Lab., UCLA-Harbor Gen. Hosp. Torrance, Calif.
  6. 3:30 NOREPINEPHRINE (NE) AND EPINEPHRINE (E) LEVELS AT BIRTH AND DURING THE FIRST 48 HOURS OF LIFE IN THE HUMAN. R.J. Eliot, R. Lam, R. Artal, R. Leake, C. Hobel and D.A. Fisher, Fetal-Maternal Res. Lab., UCLA Harbor Gen. Hosp., Torrance.

7. 3:45 SERIAL CALCITONIN SERUM CONCENTRATIONS IN PREMATURE INFANTS DURING THE FIRST 12 WEEKS OF LIFE. L.S. Hillman, N.Hoff, E. Slatopolsky and J.G. Haddad, (Spon. by R.E. Hillman), Washington Univ. Sch. of Med., St. Louis Children's Hosp. Dept. of Ped., Barnes Hosp. and Jewish Hosp. of St. Louis, Dept. of Med., St. Louis.
8. 4:00 USEFULNESS OF PLASMA ANDROGEN CONCENTRATIONS FOR THE DIAGNOSIS OF VIRILIZING CONGENITAL ADRENAL HYPERPLASIA (VCAH) IN NEONATES AND YOUNG INFANTS. S. Pang, L.S. Levine, D.M. Chow and M.I. New, Cornell Univ. Med. Coll. New York.
9. 4:15 THE EFFECT OF HYPOXIA ON PERIPHERAL METABOLISM OF THYROXINE. K. Chance, M. Kaplan, T. Moshang, Jr., R. Utiger, and O. Takahashi, Dept. of Ped. Hahnemann Med. Coll. and Dept. of Med., Univ. of Pa., Philadelphia.
10. 4:30 TRIIODOTHYRONINE NUCLEAR BINDING IN RABBIT LUNG AND CULTURED LUNG CELLS. P.L. Ballard, J.A. Lindenberg, and A. Brehier, Dept. of Ped. and Cardiovascular Res. Insti., Special Ctr. of Pulmonary Res., Univ. of Calif., San Francisco.

#### ENDOCRINOLOGY

##### Second Session

April 28, 1978, 9:00 A.M.

##### Gramercy Suite

Moderators: Maria I. New, Gilles Leboeuf and Thomas Moshang

1. 9:00 SUSTAINED EFFECT OF HUMAN GROWTH HORMONE (hGH) THERAPY ON CHILDREN WITH INTRAUTERINE GROWTH RETARDATION (UGR). R. Lanes, L. Plotnick, P.A. Lee, Johns Hopkins Univ. Sch. of Med., Dept. of Ped., Baltimore.
  2. 9:15 PRESENCE IN RAT SERUM OF AN INHIBITOR OF <sup>3</sup>H-THYMIDINE INCORPORATION BY CHONDROCYTES IN VITRO. A.K. Murray, R.A. Jansons and H.D. Mosier, Jr., Univ. of Calif., Irvine, Dept. of Ped. Irvine.
  3. 9:30 MATERNAL-FETAL TRANSFER OF MELATONIN IN THE NONHUMAN PRIMATE. S.M.Reppert, R.A. Chez, and D.C. Klein (Spon. by J.D. Schulman), NICHD, NIH, Bethesda.
  4. 9:45 ENDOMETRIAL CARCINOMA AND HYPERPLASIA IN PATIENTS WITH GONADAL DYSGENESIS RECEIVING ESTROGEN-PROGESTERONE THERAPY. M.D. Urban, P.A. Lee, C.J. Migeon, Z. Rosenwaks, A.C. Wentz and G.S. Jones, The Johns Hopkins Univ. Sch. of Med. Dept. of Ped. and Ob-Gyn, Baltimore.
  5. 10:00 11-DESOXYCORTICOSTERONE (DOC) AND 18-HYDROXY-DOC (18-OH-DOC) IN JUVENILE HYPERTENSION. W. Rauh, R. Lustig, K. Gottesdiener, L.S. Levine, and M.I. New, Cornell Univ. Med. Coll. New York.
- 10:15 INTERMISSION
6. 10:30 DEFICIENCY OF CORTISOL 11- $\beta$ -KETOREDUCTASE - A NEW METABOLIC DEFECT. M.I. New, L. Bradlow, J. Fishman, P. Gunczler, G. Zanconato, W. Rauh, L.S. Livine, S. Ulick, Cornell Univ. Med. Coll. and Rockefeller Univ., New York and V.A. Hosp. Bronx.

7. 10:45 TRANSPLACENTAL TRANSFER, METABOLISM & PHARMACOKINETICS OF DIETHYLSTILBESTROL(DES) AND ESTRADIOL 17  $\beta$  ( $E_2$ ) IN PREGNANT RHESUS MONKEYS. D.E. Hill, E.D. Helton, G.W. Lipe, G.D. Newport, T.J. Sziszak, J.R. Bailey and J.F. Young (Spon. by R.H. Fiser), Dept. of Ped., Univ. of Arkansas for Med. Sci. and Nat. Ctr. for Toxicological Res. Little Rock and Jefferson.
8. 11:00 DWARFISM DUE TO IMMUNOREACTIVE BUT BIOLOGICALLY INACTIVE GROWTH HORMONE. A.A. Kowarski, J. Schneider, V.V. Weldon, E. Ben-Galim, and W.H. Daughaday, The Johns Hopkins Univ. Sch. of Med., Baltimore, and Washington Univ. Sch. of Med. St. Louis.
9. 11:15 OVARIAN FAILURE FOLLOWING CANCER THERAPY IN THE PREPUBERTAL FEMALE. R. Stillman, I. Schiff, N. Jaffe, D.G. Traggis, F. P. Li, and J. Greenberger. (Spon. by D.G. Nathan), Sidney Farber Cancer Inst., Children's Hosp. Med. Ctr. and Boston Hosp. for Women, Boston.
10. 11:30 BIOACTIVE AND IMMUNOREACTIVE SERUM LH IN NORMAL PREPUBERTAL AND PUBERTAL BOYS. E.O. Reiter, M.L. Dufau, A.W. Root, and K.J. Catt, Dept. Ped. USF Coll. of Med., Tampa; and Endocrinology and Reproduction Res. Branch, NICHD, NIH, Bethesda.

#### EPIDEMIOLOGY

April 27, 1978, 2:00 P.M.

Gibson Suite

Moderators: Barbara Starfield and Caroline B. Hall

1. 2:00 THE THRESHOLD OF LEAD TOXICITY IN CHILDREN. S. Piomelli, C. Seaman, A. Curran, B. Davidow, NYU Med. Ctr. & NYU Dept. of Health, New York.
  2. 2:15 THE INFLUENCE OF IRON AND LEAD MOBILIZATION BY EDTA. E.M. Post, M. Levin and F.A. Oski, Dept. of Ped. SUNY, Unstate Med. CTr., Syracuse.
  3. 2:30 EVALUATION OF EDUCATION PROGRAMS DESIGNED TO INCREASE PROTECTION OF INFANTS IN CARS. K.S. Reisinger, and A.F. Williams, Univ. of Pittsburgh Sch. of Med., Pittsburgh; Insurance Insti. for Highway Safety, Washington, D.C.
  4. 2:45 PERINATAL DEATH RELATED TO PREGNANCY HYPERTENSION AND PROTEINURIA. R.L. Naeye, (Spon. by N.M. Nelson), Pa. State Univ. Coll. of Med., Dept. of Pathology, Hershey.
- 3:00 INTERMISSION
5. 3:15 AN APPROACH TO THE EVALUATION OF NEONATAL MORTALITY RATES (NMR). K.W. Lee, N. Paneth, M.A. Pearlman and L.M. Gartner, Albert Einstein Coll. of Med., Dept. of Ped. Bronx.
  6. 3:30 CORD BLOOD SCREENING FOR SICKLE HEMOGLOBINS: EVIDENCE FOR FEMALE PREPONDERANCE OF HEMOGLOBIN S. M.S. Kramer, Y. Rooks, and H.A. Pearson, Yale Univ. Sch. of Med., Yale New Haven Hosp. Dept. of Ped., New Haven.
  7. 3:45 EPIDEMIOLOGY OF OTITIS MEDIA DURING FIRST TWO YEARS OF LIFE. D.W. Teele, J.O. Klein, Greater Boston Collaborative Otitis Media Program. Boston Univ. Sch. of Med. Boston City Hosp. Dept. of Ped., Boston.

8. 4:00 BRONCHIOLITIS: A STUDY OF 1900 CASES IN A PRIVATE PEDIATRIC PRACTICE. F.W. Henderson, W.A. Clyde, A.M. Collier, F.W. Denny, Univ. of N.C. Dept. of Ped. Chapel Hill.
9. 4:15 INFLUENZA A AND B VIRUS INFECTION IN INFANTS AND YOUNG CHILDREN DURING THE YEARS 1957-1976. H.W. Kim, C.D. Brandt, R.M. Chanock, R.H. Parrott, Children's Hosp. Nat. Med. Ctr., Washington, D. C.
10. 4:30 PERSISTENCE OF AMPICILLIN-RESISTANT HAEMOPHILUS INFLUENZAE TYPE B IN THE NASOPHARYNX AFTER ERADICATION OF AMPICILLIN-SENSITIVE HAEMOPHILUS INFLUENZAE TYPE B BY TRIMETHOPRIM-SULFAMETHOXAZOLE. R. Yogev, H.B. Lander, and A.T. Davis, (Spon. by H.L. Nadler), Northwestern Univ. Med. Sch. Children's Mem. Hosp. Dept. of Ped., Chicago.

## GASTROENTEROLOGY AND NUTRITION

### First Session

April 27, 1978, 2:00 P.M.

Nassau Suite

Moderators: Claude C. Roy, Richard J. Hamilton and Philip G. Holtzapple

1. 2:00 FAT DIGESTION IN THE STOMACH OF PREMATURE INFANTS: ORIGIN OF THE LIPOLYTIC ACTIVITY. M. Hamosh, C. Salzman-Mann, K.N. Sivasubramanian, G.B. Avery, T. Plucinski, J.B. Watkins and P. Hamosh, Georgetown Univ. Sch. of Med. and Children's Hosp., Washington, D. C.; and Children's Hosp., Boston.
  2. 2:15 JEJUNOILEAL GRADIENT OF SUCRASE ACTIVITY IS PROGRAMMED IN FETAL RATS IN UTERO. O. Koldovsky, K. Kendall, J. Batten, J. Jumawan and V.H. Jolma, (Spon. by S. Segal), Dept. Ped. Univ. of Pa. and Children's Hosp. of Philadelphia.
  3. 2:30 INTESTINAL MATURATION: CALCIUM (Ca) TRANSPORT. F. Ghishan and M.K. Younoszai, Coll. of Med. Univ. of Iowa Hosp., Dept. of Ped., Iowa City.
  4. 2:45 THE EFFECT OF ACQUIRED POSTNATAL MALNUTRITION ON PANCREATIC ENZYMES IN THE RAT. T. Hatch, D. Branski, J. Krasner, E. Lebenthal, Div. of Gastroenter. The Buffalo Children's Hosp. SUNY at Buffalo.
- 3:00 INTERMISSION
5. 3:15 NEONATAL GASTRIC MOTILITY IN DOGS: MATURATION AND RESPONSE TO PENTAGASTRIN. M.H. Malloy, S.E. Denson, F.H. Morriss, E.W. Adcock, and N. Weisbrodt. (Spon. by R.R. Howell), Univ. of Texas, Med. Sch. at Houston, Depts of Ped. and Physio., Houston.
  6. 3:30 SMALL BOWEL SECRETION INDUCED BY UNCONJUGATED BILIRUBIN. P.F. Whittington, (Spon. by G.B. Odell), Univ. of Wisconsin Sch. of Med., Dept. of Ped., Madison.
  7. 3:45 SUBSTRATE UTILISATION DURING ISOCALORIC, ISOVOLAEMIC PARENTERAL NUTRITION (TPN) WITH GLUCOSE/AMINO-ACID (GL/AA) AND FAT EMULSIONS (IL). G. Putet, T. Heim, J. Smith, P. Swyer, Depts. Ped. and Med., Eng., Univ. of Toronto, the Res. Inst. of the Hosp. for Sick Children, Toronto.

8. 4:00 ONE-HOUR BLOOD-XYLOSE TEST IN THE DIAGNOSIS OF COW'S MILK PROTEIN INTOLERANCE (CMPI). C.L. Morin, J.P. Buts, A. Weber, C.C. Roy and P. Brochu, Hospital Sainte-Justine, Montreal, Canada.
9. 4:15 TRANSPLACENTALLY INDUCED LIVER INJURY DUE TO LITHOCHOLATE: CANALICULAR Na, K-ACTIVATED ATPase AND MEMBRANE MICROVISCOSITY IN NEWBORNS. Y. Bujanover, B. Sharp, J.O. Whitney, and M.M. Thaler, Univ. of Calif. Dept. of Ped. San Francisco.
10. 4:30 NEONATAL "HEPATIC RICKETS" IN PREMATURE INFANTS RECEIVING PARENTERAL ALIMENTATION (PA). M.K. Farrell, F.J. Suchy, R.C. Tsang, J.J. Steichen, J.A. Whitsett, J.C. Partin, and W.K. Schubert, Univ. of Cincinnati, Dept. of Ped. Cincinnati.

## GASTROENTEROLOGY AND NUTRITION

### Second Session

April 28, 1978, 1:30 P.M.

Sutton Ballroom South

Moderators: Claude C. Roy, Richard J. Hamilton and Philip G. Holtzapple

1. 1:30 CHOLESTASIS IN THE CEREBRO-HEPATO-RENAL (CHR) SYNDROME: BILE ACID AND MITOCHONDRIAL ABNORMALITIES. R.K. Mathis, I.T. Lott, P. Szczepanik, and J.B. Watkins, Harvard Med. Sch., Mass. Gen. Hosp. and CHMC, Boston; Argonne Nat. Lab. Argonne, Ill.
2. 1:45 BILE ACID (BA) TRANSPORT DEFECT: ONE CAUSE OF REFRACTORY INFANTILE DIARRHEA (R.I.D.), J.E. Heubi, W.B. Balistreri, J.C. Partin, W.K. Schubert and C.M. McGraw, Univ. Cin. and Pa., Dept. Ped., Cincinnati and Philadelphia.
3. 2:00 THE EFFECT OF REYE'S SYNDROME SERUM ON MITOCHONDRIAL RESPIRATION IN VITRO. J.R. Aprille and G.K. Asimakis (Spon. by J.D. Crawford), Tufts Univ. Dept. Biol. Medford, MA, Harvard Med. Sch. Dept. Ped. and Mass. Gen. Hosp., Children's Service, Boston.
4. 2:15 GASTROESOPHAGEAL REFLUX (GER) AMONG RETARDED CHILDREN. J.M. Sondheimer and B.A. Morris (Spon. by F.A. Oski), SUNY, Upstate Med. Ctr., Dept. of Ped. Syracuse.
5. 2:30 ESOPHAGITIS AND LOWER ESOPHAGEAL SPHINCTER PRESSURE IN CHILDREN. J.J. Herbst, L.S. Book and D.G. Johnson, Univ. of Utah, Coll. of Med. Dept. of Ped. and Surg., Salt Lake City.
6. 2:45 INTERMISSION  
 3:00 RECURRENT ABDOMINAL PAIN (RAP) OF CHILDHOOD DUE TO LACTOSE INTOLERANCE: A PROSPECTIVE STUDY. R.G. Barr, J.B. Watkins and M.D. Levine, Harvard Med. Sch. Children's Hosp. Med. Ctr., Boston.
7. 3:15 SUGAR HYDROLASES OF THE INFANT RAT INTESTINE AND THEIR ARRANGEMENT ON THE BRUSH BORDER MEMBRANE. S.M. Schwarz, P. Burrill, P. Sunshine and K.K. Tsuboi, Stanford Univ. Sch. of Med., Dept. of Ped., Stanford. Ca.





10. 4:00 CARE OF LOW BIRTHWEIGHT AND SICK NEWBORN INFANTS IN COMMUNITY HOSPITALS- EFFECT OF AN EDUCATION PROGRAM. M.J. Maisels, D. Morrow, S. Fernsler, R.J. Hildebrandt, Penn State Univ. Coll. Med. Sch., Hershey Med. Ctr., Dept. Ped. and Ob-Gyn, Hershey.

## GENETICS

### First Session

April 27, 1978, 2:00 P.M.

Regent Room

Moderators: Frederick Hecht, Henry L. Nadler and Charles J. Epstein

1. 2:00 KERATAN AND HEPARAN SULFATURIA - A NEW MUCOPOLYSACCHARIDOSIS WITH N-ACETYLGLUCOSAMINE 6-SULFATASE DEFICIENCY. R. Matalon, A. Horowitz, R. Wappner, I. Brandt, and M. Deanching, (Spon. by I.M. Rosenthal), Depts. of Ped. Univ. of Ill, Univ. of Chicago and Indiana Univ.
  2. 2:15 A BRUSH BORDER MEMBRANE DEFECT IN PHOSPHATE TRANSPORT IN X-LINKED HYPOPHOSPHATEMIA. H.S. Tenenhouse and C.R. Scriver, MRC Genetics Group, McGill Univ. Montreal Children's Hosp. Res. Inst., Montreal, Quebec.
  3. 2:30 BETA-GLUCOSIDASE ACTIVITY IN CULTURED SKIN FIBROBLASTS FROM CONTROLS AND PATIENTS WITH GAUCHER'S DISEASE. D.A. Wenger, and G. Olson, Univ. of Colo. Med. Ctr., Dept. of Ped. Denver.
  4. 2:45 GALACTOCEREBROSIDASE (GC) CROSS REACTING MATERIAL (CRM) IN GLOBOID CELL LEUKODYSTROPHY (GLD). Y. Ben-Yoseph, M. Hungerford and H.L. Nadler, Northwestern Univ. Med. Sch., Children's Mem. Hosp., Dept. of Ped., Chicago.
- 3:00 INTERMISSION.
5. 3:15 HETEROZYGOTE EXPRESSION IN PROPIONYL CoA CARBOXYLASE (PCC) DEFICIENCY: DIFFERENCES BETWEEN THE MAJOR COMPLEMENTATION GROUPS. B. Wolf and L.E. Rosenberg, Dept. Hum.Gen. and Ped., Yale Univ. Sch. Med., New Have.
  6. 3:30 EVIDENCE FOR AUTOSOMAL RECESSIVE INHERITANCE OF MITOCHONDRIAL CARBAMYL PHOSPHATE SYNTHETASE DEFICIENCY. J.W. McReynolds, B. Crowley, M.J. Mahoney and L.E. Rosenberg, Depts. Human Genetics and Ped. Yale Univ. Sch. Med. and Dept. Ped., Rhode Island Hosp., New Haven, and Providence, RI.
  7. 3:45 GLYCINE THERAPY FOR THE ACUTE AND CHRONIC MANAGEMENT OF NEONATES WITH ISOVALERIC ACIDEMIA. M. Yudkoff, R.M. Cohn, B. Blazer-Yost, R. Rothman, and S. Segal, Div. of Biochem. Develop. and Molecular Diseases, Dept. Ped. Univ. of Pa. and Children's Hosp. of Philadelphia.
  8. 4:00 CORRECTION OF HYPERAMMONEMIA IN ARGININOSUCCINIC ACIDEMIA BY STIMULATING ARGININOSUCCINIC ACID (ASA) SYNTHESIS. M.L. Batshaw, S.W. Brusilow, Johns Hopkins Med. Inst., Dept. of Ped. and Kennedy Inst., Baltimore.
  9. 4:15 TREATMENT OF GLUTATHIONE SYNTHETASE DEFICIENT FIBROBLASTS BY INHIBITION OF  $\gamma$ -GLUTAMYL TRANSPEPTIDASE WITH SERINE-BORATE. S.P. Spielberg, J. deB. Butler, and J.D. Schulman, Depts. of Ped. and Pharmacol., Johns Hopkins Univ. Baltimore, and NICHD, Bethesda.

10. 4:30 ENZYME THERAPY IN GM2 GANGLIOSIDOSIS: CARBOHYDRATE-SPECIFIC HUMAN  $\alpha$ -HEXOSAMINIDASE UPTAKE BY FELINE LIVER. M.C. Rattazzi, Children' Hosp. of Buffalo, Dept. of Ped., SUNY at Buffalo, N.Y.

## GENETICS

### Second Session

April 28, 1978, 1:30 P.M.

Beekman ROOM

Moderators: Frederick Hecht, Henry L. Nadler and Charles J. Epstein

1. 1:30 PRESUMPTIVE EVIDENCE FOR THE PRESENCE OF 2 ACTIVE X CHROMOSOMES IN A BALANCED X-AUTOSOME TRANSLOCATION. L.S. Marshall, M.L. Kistenmacher, H.H. Punnett, St. Christopher's Hosp. for Children and Dept. of Ped., Temple Univ. Sch. of Med. Philadelphia.
2. 1:45 STUDIES OF H-Y ANTIGEN IN A 46,XYp- PHENOTYPIC FEMALE WITH TURNER STIGMATA AND UNDIFFERENTIATED GONADS. R. Rosenfeld, L. Luzzatti, R. Hintz, O.J. Miller, G. Koo, S. Wachtel, Stanford Univ. Dept. of Ped. Stanford; Depts. of Human Genetics and Develop. & Ob-Gyn, Coll. of Phy. and Surg. NYC; Mem. Sloan-Kettering Cancer Ctr., New York.
3. 2:00 VISUALIZATION OF HUMAN GLOBIN GENES BY RESTRICTION ENDONUCLEASE MAPPING: A NEW APPROACH TO THE PRENATAL DIAGNOSIS OF GLOBIN GENE DELETION. S.H. Orkin (Spon. by D.G. Nathan), Harvard Med. Sch. Children's Hosp. Med. Ctr., Div. of Hematol.-Oncol. Dept. of Ped., Boston.
4. 2:15 THE MOLECULAR ANATOMY OF A HUMAN GENE. G.N. Wilson, B.A. Hollar, H. Knoller, J.R. Waterson and R.D. Schmickel, Univ. of Michigan, C.S. Mott Children's Hosp. Dept. of Ped., Ann Arbor.
5. 2:30 HUMAN HEMOGLOBIN IN VIVO SOMATIC CELL MUTATION ASSAY. R.A. Doherty and E. Cernichiari, Depts. of Ped. Radiation Biol. and Biophysics, Obstetrics, Genetics, Univ. of Rochester, Rochester.
- 2:45 INTERMISSION
6. 3:00 REVERSION OF THE GALACTOSEMIA TRAIT IN SV-40 TRANSFORMED HUMAN FIBROBLASTS. P.A. Benn, H.K. Jameson, F.S. Boches, H.B. Markus, and W.J. Mellman, Univ. of Pa. Sch. of Med. Dept. of Human Genetics, Philadelphia.
7. 3:15 SEPARATION OF FETAL AND ADULT ERYTHROCYTES BY SELECTIVE HEMOLYSIS: AND AID TO PRENATAL DIAGNOSIS OF HEMOGLOBINOPATHIES. B.P. Alter, D.G. Nathan, M.J. Mahoney, J.C. Hobbins, and B.G. Forget, Harvard Med. Sch. Children's Hosp, Med. Ctr., Boston, Yale Med. Sch., Yale-New Haven Hosp. Depts. of Genetics, OB, and Hematol., New Haven.
8. 3:30 CHEMILUMINESCENCE: A RAPID, SENSITIVE METHOD FOR DETECTION OF PATIENTS WITH CHRONIC GRANULOMATOUS DISEASE (CGD) AND IDENTIFICATION OF CARRIERS. E.L.Mills, K. Rhoil, and P.G. Quie., Univ. of Minn. Sch. of Med. Dept. of Ped., Minneapolis.

9. 3:45 CAYMAN DISEASE AND A NEW STORAGE DISEASE IN A WEST INDIES ISOLATE. A.D. Bloom, W.G. Johnson, M. Murphy, W.I. Murphy, N. Lindheim and P. Smith, Coll. of Phys. and Surg., Columbia Univ. Depts. of Ped., Human Genetics and Develop. and Neurol., New York
10. 4:00 REACTION OF 4-METHYLUMBELLIFERYLGUANIDINO BENZOATE (MUGB) WITH SKIN FIBROBLASTS FROM PATIENTS WITH CYSTIC FIBROSIS (CF). M.W. Platt, G.S. Rao, S.J. Simpson and H.L. Nadler, Northwestern U. Med. Sch., Children's Mem. Hosp. Dept. of Ped., Chicago.

## HEMATOLOGY AND ONCOLOGY

### First Session

April 27, 1978, 2:00 P.M.

Sutton Ballroom North, Center

Moderators: Teresa J. Vietti, Mark E. Nesbit, Jr., John Lukens and Marie J. Stuart

1. 2:00 DEMONSTRATION THAT HISTIOCYTOSIS-X MAY BE AN AUTOIMMUNE DISORDER AND SUCCESSFUL TREATMENT WITH THYMIC HUMORAL FACTOR. M. Osband and R. Parkman, (Spon. by D.G. Nathan), Children's Hosp. Med. Ctr., Depts. of Hematol.-Oncol. and Immunol. and Sidney Farber Cancer Inst. Dept. of Ped. Oncology, Boston.
2. 2:15 EFFECT OF CRANIAL RADIATION DOSE ON GROWTH HORMONE RESPONSE TO ARGININE AND INSULIN INFUSION. W.P. Dickinson, D.H. Berry, L. Dickinson, M. Irvin, H. Schedewie, M.J. Elders, Ped. Dept. UAMS, Little Rock, Ark.
3. 2:30 GROWTH AND DEVELOPMENT IN CHILDREN WITH SICKLE CELL TRAIT: A MATCHED-PAIR PROSPECTIVE STUDY. M.S. Kramer, Y. Rooks and H.A. Pearson, Yale Univ. Sch. of Med., Yale-New Haven Hosp. Dept. of Ped. New Haven.
4. 2:45 THE EFFECT OF PRENATAL ACETYL SALICYLIC ACID (ASA) INGESTION ON MATERNAL AND NEONATAL HEMOSTASIS. M.J. Stuart, S.J. Gross, J.E. Graeber, F.R. Davey, M.T. Cabalum and H. Elrad, Depts. of Ped., Clinical Path. and Perinatology, SUNY, Upstate Med. Ctr., Syracuse,

### 3:00 INTERMISSION

5. 3:15 HEMATOLOGIC FINDINGS IN ISOVALERIC ACIDEMIA. J. Kelleher, M. Yudkoff, R. Cohn, R. Hutchinson and S. Segal, Div. of Biochemical Develop. and Molecular Diseases, Dept. Ped., Univ. of Pa. and Children's Hosp. of Philadelphia
6. 3:30 TWO CLASSES OF HUMAN ERYTHROID BURST FORMING UNITS WITH DIFFERENT RESPONSES TO ERYTHROPOIETIN (EPO):  $BFU-E_A$  AND  $BFU-E_F$ . D. Nathan, D. Hillman, B. Alter, R. Gorer, B. Clarke, B. Forget and D. Housman, Harvard Med. Sch. Children's Hosp. Med. Ctr. and Sidney Farber Cancer Inst. Boston; MIT Ctr. for Cancer Res. Cambridge, and Yale Med. Sch., Yale-New Haven Hosp. New Haven.
7. 3:45 BONE MARROW PROGENITOR CELLS IN ANEMIC AND NON-ANEMIC PATIENTS WITH FANCONI'S ANEMIA. G. Daneshbod, J. Martin, and N.T. Shahidi, Univ. of Wis. Dept. of Ped., Madison.

8. 4:00 TRANSIENT LACTASE DEFICIENCY IN IRON DEFICIENCY ANEMIA. L. Philip K. Gungor, K. Abdul and M. Fredrick, SUNY at Stony Brook, NY, Health Sci Ctr. and Long Island Jewish-Hillside Med. Ctr., Dept. of Ped. and Pathol. New Hyde Park.
9. 4:15 UNSICKLING OF "IRREVERSIBLY" SICKLED GHOSTS BY CONDITIONS WHICH INTERFERE WITH SPECTRIN-ACTIN POLYMERIZATION. S.E. Lux and K.M. John, Harvard Med. Sch., Children's Hosp. Med. Ctr., Dept. of Med. Boston.
10. 4:30 INTERFERENCE PHASE MICROSCOPIC ENUMERATION OF PITTED RBC AND SPLENIC HYPOFUNCTION IN SICKLE CELL ANEMIA. H.A. Pearson, S. McIntosh, Y. Rooks, and D. Johnston, Dept. of Ped., Yale Univ. Sch. of Med. New Haven.

## HEMATOLOGY AND ONCOLOGY

### Second Session

April 28, 1978, 1:30 P.M.

Sutton Ballroom North, Center

Moderators: Teresa J. Vietti, Mark E. Nesbit, Jr., John Lukens and Marie J. Stuart

1. 1:30 CELLULAR CHANGES IN RATS MADE IRON DEFICIENT IN UTERO AND DURING WEANING PERIODS. L. Philip, K. Gungor and K. Abdul, SUNY at Stony Brook, NY Health Sci. Ctr. and Long Island Jewish-Hillside Med. Ctr., Dept. of Ped. New Hyde Park,
  2. 1:45 ABNORMAL MEMBRANE FUNCTION OF PHAGOCYTES FROM VITAMIN E DEFICIENT RATS. R.E. Harris, L.A. Boxer, and R.L. Baehner, Indiana Univ. Sch. of Med. J.W. Riley Hosp. for Children, Dept. of Ped. Indianapolis.
  3. 2:00 ADRIAMYCIN AS A MAINTENANCE AGENT IN ACUTE LYMPHOBLASTIC LEUKEMIA. E.V. Hvizdala, D.M. Komp, A.H. Ragab, W.M. Crist, Ped. Div. Southwest Oncology Group, Kansas City.
  4. 2:15 INHIBITION OF ADRIAMYCIN (ADR) INDUCED LIPID PEROXIDATION BY  $\alpha$ -TOCOPHEROL ( $\alpha$ -T) AND ACETYL SALICYLIC ACID (ASA). M.J. Stuart, P.A. deAlarcon and F.A. Oski, Dept. of Ped., SUNY, Unstate Med. Ctr. Syracuse.
  5. 2:30 CORRELATION BETWEEN FACTOR VIII ANTIGEN (VIIIag) AND VON WILLEBRAND'S DISEASE ANTIGEN II (vWagII) IN NORMAL INDIVIDUALS AND PERSONS WITH VON WILLEBRAND'S DISEASE (vWD). R.R. Montgomery, J.W. Johnson, L.J. Jacobson, (Spon. by J.H. Githens), Univ. of Colo. Med. Ctr. Dept. of Ped., Denver.
  6. 2:45 PROTECTIVE EFFECT OF PROPHYLACTIC PENICILLIN IN ASPLENIC MICE EXPOSED TO AEROSOLIZED TYPE III. S. PNEUMONIAE. J.D. Dickerman, J.A. Coil and E. Boulton, (Spon. by R.J. McKay, Jr. ), Dept. of Ped. and Surg. Univ. of Vt. Coll. of Med. Burlington.
- 3:00 INTERMISSION

7. 3:15 BACTERIAL KILLING AND OXIDATIVE METABOLISM IN CHLORPROMAZINE (CPZ) TREATED POLYMORPHONUCLEAR LEUKOCYTES (PMN): A MODEL FOR CHRONIC GRANULOMATOUS DISEASE (CGD). H.J. Cohen, M.E. Chovaniec, S. Ellis, and G. Laforet, (Spon. by D.G. Nathan), Harvard Med. Sch., Children's Hosp. Med. Ctr. Boston.
8. 3:30 NEUTROPHIL MIGRATION DEFECT DURING EXPERIMENTAL NUTRITIONAL IRON DEFICIENCY IN POST-WEANING RATS. L.L. Moore, J.R. Humbert, A. Kirksey, and J.T. Lee, State Univ. of New York at Buffalo, The Children's Hosp. of Buffalo, Dept. of Ped.
9. 3:45 A NEW SYNDROME OF REFRACTORY SIDEROBLASTIC ANEMIA WITH VACUOLIZATION OF MARROW PRECURSORS, ASSOCIATED WITH EXOCRINE PANCREATIC INSUFFICIENCY. J.F. Lobel, S.A. Kocochis, N.L. Krejmas, J. Windmiller, A.T. Lammi and H.A. Pearson, Yale Univ. Sch. of Med. Dept. of Ped. New Haven and Royal Alexandra Hosp. for Children, Sydney, Australia.
10. 4:00 HEREDITARY ELLIPTOCYTOSIS, RED CELL FRAGMENTATION, AND DECREASED GLUTATHIONE (GSH). C.M. Smith, II., P.F. Coccia, W. Krivit, E. Berger, J.G. White, J.W. Eaton, Univ. of Minn. Depts. of Ped. and Med. Minneapolis.

#### IMMUNOLOGY

##### First Session

April 27, 1978, 2:00 P.M.

Beekman Room

Moderators: Armond S. Goldman, Richard Hong, Arthur J. Amman and Roger E. Spitzer

1. 2:00 VENOM IMMUNOTHERAPY FOR INSECT HYPERSENSITIVITY. B.E. Chipps, M.D. Valentine, A.K. Sobotka, and L.M. Lichtenstein. (Spon. by R.C. Talamo), The Johns Hopkins Univ. Dep. of Ped. and Med. Baltimore.
  2. 2:15 ACTIVITY OF THE ALTERNATIVE PATHWAY OF COMPLEMENT (AP) IN THE NEWBORN. D.H. Adamkin, A.E. Stitzel, J.R. Urmsom, M.L. Farnett, and R.E. Spitzer, Univ. of Louisville, Norton-Children's Hosp. Dept. of Ped. Louisville, KY and State Univ. of NY, Upstate Med. Ctr. Dept. of Ped. Syracuse.
  3. 2:30 SUCCESSFUL CORRECTION OF A BONE MARROW STEM CELL DEFECT (WISKOTT-ALDRICH SYNDROME) BY ALLOGENEIC MARROW TRANSPLANTATION. R. Parkman, J. Rappeport, R. Geha, J. Belli, R. Cassady, R. Levey, and F.S. Rosen, Div. of Immunol. Dept. of Med. Children's Hosp. Med. Ctr. and Joint Ctr. for Radiation, Boston.
  4. 2:45 ADENOSINE DEAMINASE DEFICIENCY WITHOUT IMMUNODEFICIENCY. W. Borkowsky, A.A. Gershon, R. Hirschhorn, NY Univ. Sch. of Med. Depts. of Med. and Ped. New York.
- 3:00 INTERMISSION.

5. 3:15 THYMOSIN EFFECT IN PATIENTS WITH DIGEORGE SYNDROME. D.J. Barrett, M. Cowan, D. Guenther, A.J. Ammann, and D.W. Wara, Ped. Immunol. Univ. of Calif. Med. Ctr. San Francisco.
6. 3:30 DEFICIENCY OF MONOCYTE MIGRATION INHIBITION FACTOR AND IMMUNE INTERFERON PRODUCTION IN LYMPHOCYTES OF NORMAL NEWBORNS. H.S. Winter, Y.J. Bryson, S.E. Gard, T.J. Fischer E.R. Stiehm, UCLA, Sch. of Med. Dept. of Ped. Los Angeles.
7. 3:45 ANALYSIS OF "NATURAL CYTOTOXICITY" IN IMMUNODEFICIENCY PATIENTS. D.L. Nelson and B. M. Bundy (Spon. by R.M. Blaese), Metabolism Branch, NCI, NIH, Bethesda.
8. 4:00 IMMUNOGLOBULIN SECRETING CELLS IN THE BLOOD AND TONSIL OF NORMALS AND PATIENTS WITH IMMUNODEFICIENCY. R.M. Blaese, J. Grayson, E.C. Lawrence and A.V. Muchmore, Nat. Inst. of Health, Bethesda.
9. 4:15 C3d, A MARKER OF EARLY T-CELLS IN MAN? A. Shore, E.W. Gelfand, H.M. Dosch, Dept. Immunolo. Res. Inst. Hosp. for Sick Children, Toronto Ont.
10. 4:30 STEM CELL DEFECTS IN SEVERE COMBINED IMMUNODEFICIENCY (SCID) R. Pahwa, S. Pahwa, R.J. O'Reilly and R.A. Good, Memorial Sloan-Kettering Cancer Ctr., New York.

#### IMMUNOLOGY

#### Second Session

April 28, 1978, 1:30 P.M.

Regent Room

Moderators: Armond S. Goldman, Richard Hong, Arthur J. Amman, and Roger E. Spitzer

1. 1:30 CELL ELASTIMETRY IN THE CHARACTERIZATION OF DISORDERS OF NEUTROPHIL MOTILITY. M.E. Miller, UCLA Sch. of Med. at Harbor Gen. Hosp., Dept. of Ped. Torrance,
2. 1:45 LUMINOL ENHANCED CHEMILUMINESCENCE OF NEONATAL GRANULOCYTES AND MONOCYTES. D. Anderson, E. Marques, J. Huntsberger, (Spon. by W.B. Weil), Dept. of Human Develop., Mich. State Univ. East Lansing.
3. 2:00 ABNORMALITIES IN B CELL DIFFERENTIATION AND T CELL SUPPRESSION IN IMMUNODEFICIENCY WITH HYPER-IgM. H.J. Krantman, E.R. Stiehm, R.H. Stevens, A. Saxon, R.C. Seeger, UCLA Sch. of Med. Depts. of Ped. and Med. and Microb. and Immunol., Los Angeles.
4. 2:15 THE EFFECT OF VIRAL INFECTION ON THE ABILITY OF HUMAN LYMPHOCYTES TO DEVELOP ANTIBODY PRODUCING CELLS AFTER MITOGEN STIMULATION in vitro. J.E. Nagel, F.J. Chrest, W.H. Adler, and M. Santosham, Gerontology Res. Ctr. NIA, NIH and Dept. of Ped., Baltimore City Hosp., Baltimore.

5. 2:30 IMMUNOREGULATION BY BREAST MILK CELLS. W.B. Pittard, III, K. Bill, (Spon. by A. Fanaroff), Dept. of Ped. CWRU, Cleveland.
- 2:45 INTERMISSION.
6. 3:00 IMPAIRED PULMONARY DEFENSE IN CYSTIC FIBROSIS (CF), M.J. Thomassen, B. Boxerbaum, C. Demko, P. Kuchenbrod, R.E. Wood, Rainbow Babies and Childrens Hosp. Case Western Reserve Univ., Cleveland.
7. 3:15 IDENTICAL TWIN GIRLS WITH RECURRENT SEVERE INFECTIONS ASSOCIATED WITH THE ABSENCE OF THE SECOND COMPONENT OF COMPLEMENT. G.L. Stidham, A. Gewurz, H. Gewurz, and J.V. Lustig, Dept. of Ped., Med. Coll. of Ohio at Toledo, and Dept. of Immunol. Rush Med. Coll., Chicago.
8. 3:30 KILLER (K) CELLS RESPONSIBLE FOR ANTIBODY-DEPENDENT CELL MEDIATED CYTOTOXICITY EXPRESS HUMAN T LYMPHOCYTE ANTIGENS. J. Kaplan, Wayne State Univ. Sch. of Med., Children's Hosp. of Mich. Dept. of Ped, Detroit.
9. 3:45 ISOLATION OF A HUMAN SERUM FACTOR AFFECTING UROPOD BEARING T LYMPHOCYTES. F.C. Schmalstieg, H.B. Rudloff, D.R. Barnett and A.S. Goldman, Dept. of Ped. and Human Biological Chem. and Genetics, The Univ. of Texas Med. Branch, Galveston.
10. 4:00 DIMINISHED T CELLS FOLLOWING NEONATAL STEROID THERAPY. E.R. Reece, T. Gunn, K. Metrakos, E. Colle, MC Gill Univ., Children's Hosp. Dept. Ped. Montreal.

## INFECTIOUS DISEASE

### First Session

April 28, 1978, 9:00 A.M.

Sutton Ballroom North, Center

Moderators: Thomas H. Weller, George H. McCracken, Jr., and David J. Lang

1. 9:00 PROTECTION OF NEWBORN RATS FROM KI E. COLI INFECTION. R. Bortolussi, and P. Ferrieri, Univ. of Minn. Med. Sch., Dept. Ped., Minneapolis.
2. 9:15 TYPE 14 PNEUMOCOCCAL ANTISERA IS OPSONIC IN VITRO AND PROTECTIVE IN VIVO FOR GROUP B STREPTOCOCCUS TYPE III. G.W. Fischer, G.H. Lowell, M.I. Crumrine and J.W. Bass, Dept. of Ped. Uniformed Services Univ. Sch. of Med. Bethesda and Walter Reed Army Med. Ctr., Washington, D.C.
3. 9:30 PROTECTION AGAINST HEMOPHILUS INFLUENZAE (HITB) MENINGITIS RESULTING FROM FEEDING OF E. COLI 075: K100: H5 (E.C. 89). E.R. Moxon and P. Anderson, (Spon. by W.T. Hughes), Dept. of Ped. Johns Hopkins Hosp., Baltimore, and Univ. of Rochester School of Med., Rochester.
4. 9:45 NATURAL IMMUNITY TO PYOGENIC BACTERIA: R. Gold, M. Randolph, M.L. Lepow and I. Goldschneider, Univ. of Ct., Sch. of Med., Dept.s of Ped and Path. Farmington.



5. 10:00 COMPARATIVE IMMUNOGENICITY OF GROUP C NEISSERIA MENINGITIDIS VARIANTS AND ESCHERICHIA COLI K92 CAPSULAR POLYSACCHARIDES IN ADULT VOLUNTEERS. M.P. Glode, E. Lewin, C.T. Le, A. Sutton, E.C. Gotschlich, and J.B. Robbins, Div. of Pacterial Products, Bur. of Biologics, FDA, Dept. of Ped. Univ. of Rochester Sch. of Med. Rochester, and the Rockefeller Univ., New York.
- 10:15 INTERMISSION
6. 10:30 YERSINIA ENTEROCOLITICA GASTROENTERITIS IN CHILDREN. M.I. Marks, C.H. Pai, L. Lafleur, O. Hammerberg, L. Lackman and L. Chicoine, McGill Univ. Montreal Children's Hosp. and Univ. de Montreal Hosp. Ste. Justine, Montreal, Quebec.
7. 10:45 HUMAN ROTAVIRUS (HRV) AND HEAT LABILE ENTEROTOXIN (LT) DETECTION IN A PEDIATRIC POPULATION. W.J. Rodriquez, H.W. Kim, H. Greenberg, S. Siegel W.N. Khan, C.D. Brandt, R. Chanock, A. Kapikian and R.H. Parrott, Children's Hosp. and George Wash. Univ., Wash. D.C. and Nat. Inst. of Health.
8. 11:00 SEVERAL SEROTYPES OF ENTEROTOXIGENIC E. COLI AND REOVIRUS-LIKE AGENTS IN PEDIATRIC DIARRHEA. P. Echeverria, N. Blacklow, C. Ulyangco, and L. DuPont, (Spon by A.L. Smith), U.S. Naval Med. Res. Unit., No. 2, Tiawan, Univ. of Mass. Med. Sch., Worcester, MA, San Lazaro Hosp, Manila, The Philippines, and the Univ. of Texas Health Sci Ctr., Houston.
9. 11:15 TRACHEAL ASPIRATION AND ITS CLINICAL CORRELATES IN THE EARLY DIAGNOSIS OF CONGENITAL PNEUMONIA. M. Sherman, B. Goetzman, C. Ahlfors, and R. Wennberg, Univ. of Calif. Davis-Sacramento Med. Ctr., Sacramento.
10. 11:30 SUCCESSFUL TREATMENT OF KAWASAKI DISEASE WITH HIGH-DOSE ASPIRIN. J.C. Jacobs, Columbia Univ. Coll. of Phy. and Surg., Babies Hosp. Dept. of Ped., New York.

## INFECTIOUS DISEASE

### Second Session

April 28, 1978, 1:30 P.M.

Gramercy Suite A

Moderators: Thomas H. Weller, George H. McCracken and David J. Lang

1. 1:30 COMBINED VIROLOGIC-IMMUNOLOGIC ASSAY TO DETECT CONGENITAL CYTOMEGALOVIRUS (CMV) INFECTION. S. Stagno, D.W. Reynolds, and C.A. Alford, Univ. of Ala. in Birmingham, Med. Ctr., Dept. of Ped. Birmingham.
2. 1:45 RAPID DIAGNOSIS OF VIRAL INFECTIONS IN A HOSPITAL SETTING: AN AMERICAN EXPERIENCE. A. Kaul, M. Gallagher, R. Scott, M. Scott, and P.L. Ogra, Dept. of Ped., Sch. of Med., State Univ. of New York, Children's Hosp., Buffalo.
3. 2:00 CHARACTERISTICS OF INFLUENZA B INFECTION IN INFANTS COMPARED TO CHILDREN AND YOUNG ADULTS. P.F. Wright, D. Bryant, M. Hidenori, and D.T. Karzon, Vanderbilt Univ. Sch. of Med., Nashville.

4. 2:15 DIENTAMOEBA FRAGILIS, PATHOGEN OR NONPATHOGEN IN CHILDREN. M.J. Spencer, L. Garcia, (Spon. by J.D. Cherry), Depts. of Ped and Clin. Lab., UCLA Sch. of Med. Los Angeles.
- 5 2:30 PREVENTION OF GROUP B STREPTOCOCCAL (GSB) INFECTION IN LOW BIRTH WEIGHT (LBW) INFANTS BY PENCILLIN (P) ADMINISTRATION FROM BIRTH. D.J. Lloyd, T.K. Belgaumkar, K.E. Scott, A.J. Wort, K. Aterman and V.W. Krause, (Spon. by A.C. Allen), Depts. of Ped. OB., Microbio. & Path., Grace Maternity Hosp. and Dalhousie Univ., Halifax, Nova Scotia, Canada.
- 2:45 INTERMISSION
6. 3:00 HEMOPHILUS INFLUENZAE TYPE b (HIB) INFECTION IN A DAY CARE CENTER (DCC): ERADICATION OF CARRIER STATE BY RIFAMPIN. J. Gilsdorf, D. Granoff, C. Gessert, M. Basden and R. Rockwell, (Spon. by M. Grumbach), UCSF and Valley Med. Ctr. of Fresno.
7. 3:15 PATHOGENESIS OF RESPIRATORY SYNCYTIAL (RS) VIRUS BRONCHIOLITIS IN INFANTS. W.P. Glezen, A. Paredes and L.H. Taber, Influenza Res. Ctr., Baylor Coll. of Med. Houston.
8. 3:30 SECRETORY IMMUNOLOGIC RESPONSE TO RESPIRATORY SYNCYTIAL VIRUS INFECTION IN INFANTS: ANTIBODY ON AND OFF EPITHELIAL CELLS. K. McIntosh, J. McQuillin, P.S. Gardner, Univ. of Colo. Med. Ctr., Dept. of Ped. Denver; Univ. of New Castle-upon-Tyne, Dept. of Virology, New Castle-upon-Tyne, England.
9. 3:45 TOXIC SHOCK SYNDROME ASSOCIATED WITH PHAGE GROUP I STAPHYLOCOCCI. J. Todd, F. Kapral, M. Fishaut, and T. Welch, (Spon. C.H. Kempe), Dept. of Ped., and Path. The Children's Hosp. of Denver and the Dept. of Ped. Univ. of Colo. Med. Ctr., Denver, and the Dept. of Med. Microbiol. Ohio State Univ., Columbus.
- 10: 4:00 TIME OF DETECTION OF GROUP B STREPTOCOCCAL (GBS) CAPSULAR POLYSACCHARIDE (CPS) IN BODY FLUIDS IN THE COURSE OF EARLY ONSET GBS DISEASE. D.L. Ingram, E.L. Pendergrass, J.D. Thullen and C.D. Yoder, (Spon. by F.W. Denny), Univ. N.C. Chapel Hill, Sch. of Med. Dept. Ped.

## METABOLISM

First Session

**April 28, 1978, 9:00 AM**

Nassau Suite

Moderators: Reginald C. Tsang and Leon E. Rosenberg

1. 9:00 MUMPS VIRUS INDUCED DIABETES MELLITUS IN A RODENT MODEL. T. Yamauchi, M.A. Sperling, H. Schedewie, J. Elliot, Univ. Ark. Med. Sci. Nat. Ctr. Tox. Res., UCLA-Harbor Gen. Hosp. Dept. Ped. Little Rock and Jefferson Ark., and Torrance, Calif.

2. 9:15 SUPPRESSOR T CELL FUNCTION IN DIABETES MELLITUS. S.D. Horowitz, W. Borchering, G.J. Bargman, Univ. of Wis. Ctr. for Health Sci. Dept. of Ped., Madison.
3. 9:30 ANTIBODIES TO NUCLEIC ACIDS IN JUVENILE ONSET DIABETES. S.W. Huang, N.K. MacLaren, Dept. of Ped. Univ. Md. Sch. of Med., Baltimore.
4. 9:45 FREE C-PEPTIDE LEVELS IN INFANTS OF DIABETIC MOTHERS: RELATIONSHIP TO HYPOGLYCEMIA, MACROSOMIA, AND HYALINE MEMBRANE DISEASE. I. Sosenko, J. Kitzmiller, S. Loo, K. Gabby, P. Blix, A. Rubenstein (Spon. H.W. Taeusch). Dept. of Ped. and Ob., Harvard Med. Sch. and Univ. of Chicago, and Boston.
5. 10:00 ESTIMATION OF GLUCOSE PRODUCTION IN THE HUMAN NEWBORN USING SIMULTANEOUS <sup>13</sup>C- AND D-LABELLED GLUCOSE. S.C. Kalhan, D.M. Dier, S.M. Savin and P.A.J. Adam, Ped. Metab. Div., Case Western Reserve Univ. at Cleveland Metro. Gen. Hosp. and Wash. Univ. Sch. of Med. St. Louis.
- 10:15 INTERMISSION.
6. 10:30 HYPERGLUCAGONEMIA IN HYPOXIA. D. Baum, D. Porte, Jr., J. Ensink, Depts. of Ped and Med., Stanford Univ., Stanford, Calif. and Univ. of Washington, Seattle.
7. 10:45 HYPOAMMONEMIA IN GYRATE ATROPHY OF CHOROID AND RETINA. D. Valle, S.W. Brusilow, M. Walser, M.I. Kaiser-Kupfer, Johns Hopkins Univ. Sch. of Med., Dept. of Ped. and Pharmacol. Baltimore, and Nat. Eye Inst., Clin. Brh. Bethesda.
8. 11:00 MARKED ELEVATIONS OF OCTANOIC ACID AND OTHER MEDIUM CHAIN FREE FATTY ACIDS UNASSOCIATED WITH CEREBRAL SYMPTOMS. R.T. Hillman, D.C. DeVivo, J.P. Keating, (Spon. by J. Holowach), Washington Univ. Sch. of Med. St. Louis Children's Hosp. Dept. of Ped. St. Louis.
9. 11:15 VALPROIC ACID (DIPROPYLACETIC ACID)-AN INHIBITOR OF BRANCHED CHAIN FATTY ACID DEHYDROGENASE. R.E. Hillman, L. Berg, D.C. DeVivo, (Spon. by J. Holowach), Wash. Univ. Sch. Med. St. Louis, Children's Hosp. Dept. of Ped. St. Louis.
10. 11:30 NEONATAL HYPERLIPOPROTEINEMIA TYPE I.- C.A. Ahumada, M.L. Kashyap, J.A. McCarthy, R.A. Sosa, C.J. Glueck, R.C. Tsang, Univ. of Cincinnati Coll. of Med. Dept. of Ped. Cincinnati; Univ. of So. Fla. Coll. of Med. All Children's Hosp. Dept. of Ped. St. Petersburg.

## METABOLISM

### Second Session

April 28, 1978, 1:30 P.M.

Nassau Suite

Moderators: Reginald C. Tsang and Leon E. Rosenberg

1. 1:30      CALCITONIN THERAPY IN OSTEOGENESIS IMPERFECTA. S. Castells, C. Chakrabarti, R.S. Bachtell, C. Colbert, and S. Yasumura, Dept. of Ped. and Physiol., SUNY, Downstate Med. CTr., Brooklyn, and Radiol. Res. Lab. Greene Mem. Hosp. Yellow Springs, Ohio.
2. 1:45      ETIOLOGY OF FIRST DAY HYPOCALCEMIA (FDH): ROLE OF PTH AND CALCITONIN? H.K. Schedewie, D.A. Fisher, W.D. Odell, L.J. Deftos, M.J. Elders, T.L. Cantor, M. Dodge, UAMS/NCTR, Little Rock; Harbor Gen. Hosp. UCLA, Torrance; VA Hosp. UCSD, LaJolla; Dept. of Ped. and Med.
3. 2:00      SERUM 25-HYDROXYVITAMIN D (25OHD) LEVELS IN INFANTS OF DIABETIC MOTHERS. A.R. Fleischman, J.F. Rosen, G. Nathenson, Albert Einstein Coll. Med. Montefiore Hosp. and Med. Ctr., Dept. of Ped., Bronx.
4. 2:15      SERUM 1,25-(OH)<sub>2</sub>-VITAMIN D<sub>3</sub> LEVELS IN CHILDREN AND ALTERATION WITH DISORDERS OF VITAMIN D METABOLISM. R.W. Chesney, A. Hamstra and H.F. DeLuca, The Dept. of Ped. and Biochem., Univ. Hosp., Univ. of Wisc. at Madison.
5. 2:30      SERUM 24,25 DIHYDROXY VITAMIN D CONCENTRATIONS IN LACTATING AND NON-LACTATING POST PARTUM WOMEN. L.S. Hillman, S. Sateesha, E. Slatopolsky, J.G. Haddad (Spon. by R.E. Hillman), Wash. Univ. Sch. of Med. St. Louis Children's Hosp. Dept. of Ped.; Barnes Hosp. and Jewish Hosp. of St. Louis, Dept. of Med. St. Louis.
- 2:45      INTERMISSION.
6. 3:00      SERUM 24,25 DIHYDROXYVITAMIN D (24,25(OH)<sub>2</sub>D) LEVELS IN UREMIA: A REFLECTION OF RENAL INSUFFICIENCY. Y. Weisman, G. Lum, E. Reiter, N. Gilboa and A. Root, Depts of Ped., USF Coll. of Med. Tampa, and Univ. of Colo. Med. Ctr., Denver.
7. 3:15      HYPERCALCEMIA RESPONSIVE TO ASPIRIN. R.M. Ward, J.J. Sockalosky, L.M. Dolan, T. Stealy, and R.A. Ulstrom, Univ. of Minn. Med. Sch. Dept. of Ped., Minneapolis.
8. 3:30      SPONTANEOUS TRANSFORMATION OF CULTURED SKIL FIBROBLASTS INTO OSTEOBLASTS IN A CASE OF DYSPLASTIC INTRADERMAL CALCIFICATION. M.O. Lim, A.B. Mukherjee, J. DeB. Butler, S.B. Doty, I. Binderman, L. Liu, and J.W. Hansen, (Spon. by J.D. Schulman), NICHD, NIDR, and NCI, NIH, Bethesda.
9. 3:45      DIFFERING FOOD COMPOSITION FOR NOCTURNAL INTRAGASTRIC THERAPY IN TYPES I AND III GLYCOGEN STORAGE DISEASE (GSD). A.E. Slonim, A.B. Terry, R. Moran, P. Benke, H.L. Greene, I.M. Burr, Vanderbilt Univ. Sch. of Med. Vanderbilt Hosp, Dept. of Ped., Nashville; and Univ. of Miami, Dept. of Ped.; Miami.
10. 4:00     LONG TERM TREATMENT OF GLYCOGEN STORAGE DISEASE TYPE I (GSD I): CLINICAL IMPROVEMENT BUT PERSISTENT ABNORMALITIES OF LACTATE & TRIGLYCERIDE CONCENTRATION. L. Baker, J.L. Mills, C.A. Stanley, Univ. of Pa., Dept. of Ped. Children's Hosp. of Philadelphia.

## MORPHOGENESIS

April 28, 1978, 9:00 A.M.

Gibson Suite

Moderators: Thomas H. Shepard and Lewis B. Holmes

1. 9:00 GROWTH PROCESSES DURING EARLY MAMMALIAN DEVELOPMENT: FLUCTUATING POLYAMINE CONCENTRATIONS IN THE PREIMPLANTATION MOUSE EMBRYO. D.L. Daentl and L.J. Marton, (Spon. by C.F. Piel), Univ. of Calif. San Francisco, Depts. of Growth and Develop., Ped. Neurosurg., Lab. Med. and the Ctr. for Craniofacial Anomalies.
2. 9:15 MAJOR MALFORMATIONS AMONG AUTOPSIED TWINS. B.A. Smith, S.G. Driscoll, and L.B. Holmes, Mass. Gen. Hosp., Children's Service, and Boston Hosp. for Women, Dept. of Path. Boston.
3. 9:30 RENAL ABNORMALITIES IN FETAL ALCOHOL SYNDROME. Q.H. Qazi, A. Masakawa, D.H. Milman, B. McGann, A. Chua, and S. Alvi, Depts. of Ped. and Child Psychiatry, Downstate Med. Ctr., Brooklyn.
4. 9:45 ACETAZOLAMIDE-INDUCED FORELIMB MALFORMATION. L.B. Holmes and R.L. Trelstad, Harvard Med. Sch. Mass. Gen. Hosp. Children's Service and Dept. of Path. Boston.
5. 10:00 THE IMPORTANCE OF ULTRASOUND IN THE PRENATAL DETECTION OF CONGENITAL MALFORMATIONS. N.E. Vain, J.E. Bolin, E.N. Carlsen, E.E. Schulz (Spon. by J.J. Quilligan), Loma Linda Univ. Med. Ctr., Dept. of Ped. Loma Linda, Calif.  
10:15 INTERMISSION.
6. 10:30 FETAL HYDANTOIN SYNDROME: SUSCEPTIBILITY TO PHENYTOIN-INDUCED CLEFT (LIP) AND PALATE LINKED TO H-2 LOCUS IN MICE. A.S. Goldman, M. Katsumata, D.L. Gasser, Children's Hosp. of Philadelphia.
7. 10:45 FETAL LUNG DEVELOPMENT AFTER AMNIOCENTESIS. W.R Blackburn, P.A. Logsdon, and J. Delli-Bovi, Univ. of So. Ala. Coll. of Med., Dept. of Ped. Path.; Mobile.
8. 11:00 CILIARY MORPHOLOGY AND CARDIAC MALROTATION. P.S. Gerald, S.R. Schuster, R.N. Ruckman, E.E. Schneeberger, Harvard Med. Sch. and Children's Hosp. Med. Ctr., Dept. of Ped. Surg. Cardiol. and Path. Boston.
9. 11:15 EAR MUSCLES AND AURICULAR ANOMALIES. D.W. Smith and H. Takashima, Univ. of Wash. Sch. of Med. Dept. of Ped. Dysmorphology, Unit Seattle.
10. 11:30 X-LINKED HYPOGONADISM, GYNECOMASTIA, MENTAL RETARDATION, SHORT STATURE AND OBESITY. A NEW SYNDROME. S.B. Vasquez, D.L. Hurst and J.F. Sotos, Dept. of Ped. Coll. of Med. The Ohio State Univ. and Children's Hosp. Columbus.

## NEONATOLOGY

### First Session

April 28, 1978, 9:00 A.M.

West Ballroom

Moderators: Peter A. Auld, M. Jeffrey Maisels and Philip Farrell

1. 9:00 A CONTROLLED DOUBLE-BLIND STUDY OF ANTENATAL BETAMETHASONE. A.N. Papageorgiou, M.F. Desgranges, M. Masson, E. Colle, R. Shatz, M.M. Gelfand, McGill Univ. Jewish Gen. Hosp., Perinatal Unit. Montreal, Canada.
2. 9:15 RISK OF RESPIRATORY DISTRESS SYNDROME AND MATERNAL INFECTION AFTER PRENATAL DEXAMETHASON TREATMENT. H.W. Taeusch, Jr., F. Frigoletto, J. Kitzmiller, M.E. Avery, A. Hehr, B. Fromm, E. Lawson, R.K. Neff, Harvard Med. Sch., Boston.
3. 9:30 FETAL PROLACTIN (PRL) AND THE RESPIRATORY DISTRESS SYNDROME (RDS). P.D. Gluckman, P.L. Ballard, J.A. Kitterman, S.L. Kaplan, and M.M. Grumbach, Dept. of Ped. Univ. of Calif. San Francisco.
4. 9:45 TIME OF INITIATION OF CPAP IN HMD. J.C. Rowe, R.D. Guthrie, P. Hinkes, J. Prueitt, J. Murphy, D.E. Woodrum and W.A. Hodson, Univ. of Wash. Sch. of Med., Dept. of Ped., Seattle.
5. 10:00 THE RESPONSE OF  $PO_2$  AND  $PCO_2$  TO THE WITHDRAWAL OF CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP) IN INFANTS RECOVERING FROM RESPIRATORY DISTRESS SYNDROME. (RDS). T. Hegy and I.M. Hiatt, (Spon. by W.C. Heird), Monmouth Med. Ctr., Dept. of Ped., Long Branch, NJ.
- 10.15 INTERMISSION.
6. 10:30 EFFECTS OF INTRALIPID INFUSIONS ON ARTERIAL BLOOD GASES AND PULMONARY FUNCTION IN SMALL PREMATURE NEONATES. W.W. Fox, G.R. Pereira, J.G. Schwartz, (Spon. by J.A. Cortner), Univ. of Pa. Sch. of Med. Dept. of Ped. and The Children's Hosp. of Philadelphia.
7. 10:45 SLEEP STATE AND MATURATION OF  $CO_2$  SENSITIVITY IN THE PREMATURE PRIMATE. R.D. Guthrie, T.A. Standaert, W.A. Hodson, and D.E. Woodrum, Univ. of Wash. Sch. of Med. Dept. of Ped. Seattle.
8. 11:00 MIXED AND OBSTRUCTIVE SLEEP APNEA IN 3-MONTH-OLD CONTROL AND NEAR MISS FOR SUDDEN INFANT DEATH SYNDROME INFANTS. R.L. Ariagno, C. Cuilleminault, L.E. Nagel, (Spon. by J. Johnson), Stanford Univ. Med. Ctr. Dept. of Ped. and Sleep Disorders Clinic, Stanford, Calif.
9. 11:15 PHYSIOLOGICAL AND PATHOLOGICAL FACTORS AFFECTING HEART RATE VARIABILITY IN PRETERM INFANTS. L.A. Cabal, B. Siassi, B. Zanini, F. Waffarn, J.E. Hodgman, Univ. of So. Calif. Sch. of Med. LAC-USC Med. Ctr., Dept. of Ped.
10. 11:30 HEART RATE AND HEART RATE VARIABILITY IN NORMAL AND ABORTED SIDS INFANTS DURING SLEEP. H.L. Leistner, G.G. Haddad, M.A.F. Epstein, R.A. Epstein, N.M. Mazza and R.B. Mellins, Coll. of Phys. and Surg. and Sch. of Eng. Columbia Univ.

## NEONATOLOGY

Second Session

April 28, 1978, 1:30 P.M.

West Ballroom

Moderators: Peter A. Auld, M. Jeffrey Maisels and Philip Farrell

1. 1:30 TRANSPORT OF SICK NEONATES 1.5kg BIRTHWEIGHT: PERSONNEL REQUIREMENTS. G.W. Chance, J.D. Matthew, J. Gash, G. Williams, K. Cunningham, Hosp. for Sick Children, Toronto, Canada.
2. 1:45 TEN YEARS EXPERIENCE WITH REGIONALIZED NEONATAL CARE. R. Perelman, G. Gutcher, S. Graven, R. Zachman, Univ. of Wisc., Dept. of Ped. Madison.
3. 2:00 RESTING OXYGEN CONSUMPTION OF PREMATURE INFANTS COVERED WITH A THERMAL BLANKET DESIGNED TO REDUCE INSENSIBLE WATER LOSS. R.A. Darnall, and R.L. Ariagno, (Spon. by J.D. Johnson), Stanford Univ. Sch. of Med., Dept. of Ped., Stanford, Calif.
4. 2:15 SHOCK: NEONATAL HYPOPERFUSION SYNDROMES AND MUSCLE SURFACE pH (pHm). E.F. LaGamma, A.N. Krauss, P.A.M. Auld, Perinatology Ctr. Dept. of Ped., New York Hosp. Cornell Med. Ctr., New York.
5. 2:30 RAPID FLUOROMETRIC DETERMINATION OF BILIRUBIN LEVELS AND THE RESERVE BINDING CAPACITY IN THE BLOOD OF NEONATES. W.E. Blumberg, J. Eisinger, J. Flores, A.A. Lamola, S. Patel and D.M. Zuckerman, (Spon. by A. Brown), Bell Lab., Murray Hill, NJ.
- 2:45 INTERMISSION.
6. 3:00 FACTORS DETERMINING THE CELLULAR UPTAKE OF BILIRUBIN. R. Wennberg and L.F. Rasmussen, Univ. of Calif., Davis; Sacramento Med. Ctr.
7. 3:15 IRRELEVANCE OF RISK FACTORS IN PREDICTING KERNICTERUS. M.E. Guttenberg, S.B. Turkel, J.E. Hodgman, Univ. of So. Calif. Sch. of Med. Depts. of Ped and Path., LAC-USC Med. Ctr. Los Angeles.
8. 3:30 THE ASSOCIATION OF KERNICTERUS (KI) WITH BACTERIAL SEPSIS. M.A. Pearlman, L.M. Gartner, K.S. Lee, R. Morecki and D.S. Horoupian, Albert Einstein Coll. of Med., Depts. of Ped. and Path., Bronx.
9. 3:45 COMPARISON OF INCANDESCENT AND FLUORESCENT LIGHT SOURCES IN PHOTOTHERAPY. T.R.C. Sisson, M. Ruiz, K.T. Wu, O.S. Afuape, (Spon. by A. DiGeorge), Temple Univ. Sch. of Med., Dept. of Ped., Philadelphia.
- 10 4:00 LIGHT TOXICITY TO NEWBORN RETINA. K.H. Messner (Spon. by M.J. Maisels), Pa. State Univ., M.S. Hershey Med. CTr., Div. of Ophthalmology, Hershey.

## NEPHROLOGY

### First Session

April 28, 1978, 9:00 A.M.

Sutton Ballroom South

Moderators: Malcolm A. Holliday, Russell W. Chesney and Warren E. Grupe

1. 9:00 WHOLE BODY PROTEIN TURNOVER IN CHRONICALLY HEMODIALYZED CHILDREN. S.B. Conley, G.M. Rose, and D.M. Bier, Wash. Univ. Sch. of Med. St. Louis Children's Hosp. Depts. of Ped. and Med., St. Louis.
2. 9:15 CRYOACTIVATION AND ACID ACTIVATION OF AN INACTIVE RENIN IN THE NEWBORN INFANT. S.R. Siegel, A. Hadeed, (Spon. by D.A. Fisher), Dept. of Ped., UCLA Sch. of Med. Harbor Gen. Hosp. Torrance.
3. 9:30 SECRETION OF ACTIVE AND INACTIVE RENIN BY THE DEVELOPING KIDNEY. M.D. Bailie, F. Derkx, and M.A.D.H. Schalekamp, Erasmus Univ. Rotterdam, Netherlands and Michigan State Univ., East Lansing.
4. 9:45 POST TRANSPLANT HYPERTENSION IN THE ABSENCE OF REJECTION OF RECURRENT DISEASE. J.R. Ingelfinger, R.H. Levey and W.E. Grupe, Harvard Med. Sch., Children's Hosp. Med. Ctr., Dept. of Ped., Boston.
5. 10:00 IMPAIRED CHEMOTAXIS ASSOCIATED WITH DECREASED SERUM FACTOR B & INFECTION IN IDIOPATHIC NEPHROTIC SYNDROME OF CHILDHOOD (INSC). D. Anderson, C. Smith, D. Kaufman, and T. York, (Spon. by M. Bailie), Dept. of Anatomy and Human Develop. Mich. State Univ., East Lansing.
- 10:15 INTERMISSION.
6. 10:30 DOUBLE-MARKED LYMPHOCYTES IN MINIMAL CHANGE NEPHROTIC SYNDROME (MCNS) J.G. Bhat, H.O. Kerpen, R.G. Schacht, E.A. Gombos, B. Spinowitz, S. Handelsman, C. Rai, B. Gauthier, C. Kantor, and D.S. Baldwin, NY Univ. Sch. of Med. and L.I.J. Hillside Med. Ctr., New York.
7. 10:45 HYPOMORPHIC VARIANT OF THE FAST C3 ALLELE, GLOMERULONEPHRITIS AND ARTHRITIS. R.H. McLean, A. Weinstein and N. Rothfield, Univ. of CT. Health Ctr., Farmington; Depts. of Ped. and Med.
8. 11:00 CHRONIC HYPONATREMIA AND MIDFACIAL HYPOPLASIA (MFH) A.L. Friedman, R.W. Chesney, W.E. Segar, Univ. of Wisc. Sch. of Med., Univ. Hosp., Dept. of Ped. Madison.
9. 11:15 IDOPATHIC HYPERCALCIURIA (IH) IN CHILDREN. E.S. Moore, F.L. Coe, B.J. McMann, and M.J. Favus, Depts. of Ped. and Med., Pritzker Sch. of Med. Univ. of Chicago at Michael Reese Med. Ctr., Chicago.
10. 11:30 PRESENTATION OF CYSTINOSIS AS BARTTER'S SYNDROME AND CONVERSION TO FANCONI SYNDROME ON INDOMETHACIN TREATMENT. J. Lemire, B.S. Kaplan and C.R. Scriver, McGill Univ., Montreal Children's Hosp. Res. Inst., Dept. of Nephrol. and deBelle Lab. for Biochem. Genetics, Montreal.



## NEPHROLOGY

### Second Session

April 28, 1978, 1:30 P.M.

Murray Hill Suite B

Moderators: Malcolm A. Holliday, Russell W. Chesney and Warren E. Grupe

1. 1:30 ESTIMATION OF INTRACELLULAR MACROMOLECULAR OSMOTIC PRESSURE OF RENAL PROXIMAL CONVOLUTED TUBULES (PCT). M.A. Linshaw and F.B. Stapleton, (Spon. by C.T. Cho), Univ. of Kansas Med. Ctr., Dept. of Ped., Kansas City.
2. 1:45 PROTEIN BINDING AND PHARMACOKINETIC DISPOSITION OF FUROSEMIDE (F) IN NEWBORN INFANTS. J.V. Aranda, J. Perez, D. Sitar, J. Collinge, A. Portuguez-Malavasi, C. Dupont, McGill Univ. Montreal Children's Hosp. Dept. of Ped., Pharmacol. and Therap., Montreal.
3. 2:00 PRESENCE OF FUNCTIONING VASOPRESSIN RECEPTORS IN THE FETAL KIDNEY. J.E. Robillard, R.E. Weitzman and F.G. Smith, Jr., Univ. Iowa Hosp, Dept. Ped., Iowa City, & UCLA Harbor Gen. Hosp. Dept. Med., Torrance.
4. 2:15 EFFECTS OF CHANGING PLASMA VOLUME (PV) AND OSMOLARITY (Posm) ON SODIUM EXCRETION BY THE NEONATAL KIDNEY. B.S. Arant, Jr., (Spon. by J.N. Etteldorf), Univ of Tenn. Ctr. for Health Sci. Dept. Ped. Memphis.
5. 2:30 FACTORS LIMITING GLOMERULAR FILTRATION RATE IN THE IMMATURE RAT. I. Ichikawa, and B.M. Brenner (Spon. by J.R. Hoyer), Peter Bent Brigham Hosp. and Harvard Med. Sch., Boston.
- 2:45 INTERMISSION.
6. 3:00 COMPENSATORY RENAL HYPERTROPHY (CRH) IN FETAL LAMBS. E.S. Moore, B.J. McMann, L.B. deLeon, L.S. Weiss and M. Ocampo, Dept. of Ped., Pritzker Sch. Med. Univ. of Chicago at Michael Reese Med. Ctr., Chicago.
7. 3:15 AMELIORATION OF COMPENSATORY CHANGES AFTER RELEASE OF UNILATERAL URETERAL OCCLUSION. K. Upadhyaya and N.J. Siegel, Yale Univ. Sch. of Med. Dept. of Ped. New Haven, Ct.
8. 3:30 PATHOPHYSIOLOGY OF CHRONIC HEREDITARY HYDRONEPHROSIS IN THE RAT. J. Friedman and J.E. Lewy, Dept. of Ped., Cornell Univ. Med. Coll. New York.
9. 3:45 COMPENSATED HYPOTHYROIDISM IN CONGENITAL NEPHROTIC SYNDROME (CNS). M. Rasoulpour, R.H. McLean, N.J. Siegel, A. Kauschansky and M. Genel, Depts. of Ped., Univ. of Conn. Med. Sch., Farmington and Yale Univ. Sch. of Med. New Haven.
10. 4:00 DELAYED PUBERTY IN MALES WITH CHRONIC RENAL FAILURE. J. Ferraris, P. Saenger, L. S. Levine, M.I. New, B. Saxena, and J.E. Lewy, Cornell Univ. Med. Coll., New York.

NEUROLOGY

April 28, 1978, 9:00 A.M.

Murray Hill Suite B.

Moderators: Patrick Bray and Bennett Schaywitz

1. 9:00 VENTRICULITIS IN GROUP B STREPTOCOCCAL (GBS) MENINGITIS. J.P. Baker, L.B. Chalhub, P.G. Shackelford, Wash. Univ. Med. Sch. St. Louis Children's Hosp. Dept. of Ped., St. Louis and Univ. of Ark., Children's Hosp. Dept. of Ped. and Neurol., Little Rock.
2. 9:15 DETECTION OF INTRAVENTRICULAR HEMORRHAGE (IVH) BY TRANSCEPHALIC IMPEDANCE (TCZ), S.F. Siddiqi, D.R. Brown, D. Dallmann, and D. Reigel, (Spon. by P.M. Taylor), Univ. of Pittsburgh Sch. of Med.
3. 9:30 MENKES KINKY HAIR SYNDROME: SERIAL CT SCAN FINDINGS IN THREE CASES WITH PATHOLOGICAL CORRELATION IN ONE CASE. A.R. Seay, P.F. Bray, D. Wing, J.A. Thompson, J.F. Bale, and D.M. Williams, Univ. of Utah Coll. of Med. Div. of Ped. Neurol. Depts. of Neurol. and Ped. Dept. of Radiol. and the Div. of Hematol., Dept. of Med., Salt Lake City.
4. 9:45 A PROGRESSIVE NEUROLOGIC SYNDROME IN SIX CHILDREN WITH CHRONIC LIVER DISEASE AND ALPHA-TOCOPHEROL ( $\alpha$ T) DEFICIENCY. J.L. Rosenblum, J.P. Keating, J.S. Nelson and A.L. Prenskey, Wash. Univ. Sch. Med. Dept. of Ped. St. Louis Children's Hosp. St. Louis.
5. 10:00 SYSTEMIC CARNITINE DEFICIENCY: A CAUSE OF RECURRENT "REYE'S SYNDROME." A.M. Glasgow, G. Eng, and A.G. Engle (Spon. by W. Hung), Children's Hosp. Nat. Med. Ctr., Dept. of Ped., Wash. D.C.; and Mayo Clinic, Dept. of Neurol. Rochester, Minn.  
10:15 INTERMISSION.
6. 10:30 LIVER ULTRASTRUCTURE IN NEUROLOGICAL GRADE I (SO-CALLED MILD) REYE'S SYNDROME (RS). J.C. Partin, J.S. Partin and W.K. Schubert, Univ. of Cincinnati, Children's Hosp. Med. Ctr., Dept. of Ped. Cincinnati.
7. 10:45 ABNORMAL CATECHOLAMINE EXCRETION IN PATIENTS WITH SYDENHAM'S CHOREA. Z. Hochberg and S.T. Winter (Spon. by F.A. Oski), Dept. of Ped. Rothschild Univ. Hosp. Haifa, Isreal.
8. 11:00 BRAIN THIAMINE DIPHOSPHATE-ATP PHOSPHOKINASE ACTIVITY. J.V. Murphy and B.J. D'Souza, Med. Coll. of Wisc., Milwaukee Children's Hosp. Dept. of Neurol.
9. 11:15 QUALITY OF LIFE AFTER PROLONGED NON-TRAUMATIC COMA IN CHILDREN: A REAPPRAISAL. L.A. Margolis, B.A. Shaywitz, Dept. Ped. Yale Univ. Sch. of Med. New Haven.
10. 11:30 HYPOGLYCORRHACHIA ASSOCIATED WITH INTERCRANIAL HEMORRHAGE (ICH) IN THE NEWBORN. R.M. Nelson, R.L. Bucciarelli, J.W. Nagel, E.F. Beale, D.V. Eitzman, Univ. of Fla. Coll. of Med., Shands Teaching Hosp. Dept. of Ped., Gainesville.

PULMONOLOGY

First Session

April 27, 1978, 2:00 P.M.

Gramercy Suite A.

Moderators: Ernest Cotton, Bettina C. Hilman, Maria Delivoria-Papadopoulos and Thomas F. Boat.

1. 2:00 INDUCTION OF BREATHING IN THE FETAL SHEEP WITH AMMONIUM CHLORIDE INFUSION. R.A. Molteni, M.H. Melmed, and R.E. Sheldon, (Spon. by F.C. Battaglia), Univ. of Colo. Med. Ctr., Depts. Ped. Ob-Gyn, and Physiol. Denver.
2. 2:15 EFFECTS OF LABOR AND TYPE OF DELIVERY ON DRAINAGE OF FETAL LUNG LIQUID IN RABBITS. R.D. Bland, M.A. Bressack, and D.D. McMillan, Univ. Calif. Cardiovascular Res. Inst. Dept. Ped. San Francisco.
3. 2:30 NEUROGENIC MEDIATION OF AUGMENTED SURFACTANT SECRETION AT BIRTH. E.E. Lawson and P.S. Huang (Spon. by H.W. Taeusch, Jr.), Harvard Med. Sch., Children's Hosp. Med. Ctr., Dept. of Ped. Boston.
4. 2:45 EFFECT OF ACUTE HYPOXIA ON CONVERTING ENZYME ACTIVITY IN CULTURED ENDOTHELIAL CELLS. S.A. Stalcup, J.S. Lipset, J.M. Woan, P. Leuenberger, G.M. Turino and R.B. Mellins, Depts. of Ped. and Med., Coll. of Phys. and Surg. Columbia Univ. New York.
- 3:00 INTERMISSION.
5. 3:15 THE EFFECTS OF LUNG INFLATION ON THE VARIOUS PHASES OF THE RESPIRATORY CYCLE IN PRETERM INFANTS. K. Sankaran, F. Leahy, D. Cates, M. MacCallum, H. Rigatto, Univ. of Manitoba, Dept. of Ped. Winnipeg.
6. 3:30 PULMONARY FUNCTION ABNORMALITIES IN ASYMPTOMATIC CHILDREN FOLLOWING HYDROCARBON PNEUMONITIS. D. Gurwitz, M. Kattan, H. Levison and J.A.G. Culham, Dept. of Ped. and the Res. Inst. Hosp. for Sick Children Univ. Of Toronto, Ontario.
7. 3:45 THE EFFECT OF VARYING OXYGEN TENSIONS ON SUPEROXIDE DISMUTASE, CATALASE, AND GLUTATHIONE PEROXIDASE ACTIVITIES IN ALVEOLAR MACROPHAGES (AM) FROM GUINEA PIGS. G.S. Johnson, R.L. Baehner, C. Higgins, L.A. Boxer, Indiana Univ. Sch. of Med., Riley Hosp. for Children, Indianapolis.
8. 4:00 INCREASED WORK OF BREATHING ASSOCIATED WITH NASAL PRONG CPAP. S.L. Goldman, J.P. Brady, and F.M. Dumpit, Univ. of Calif. Children's Hosp. Dept. of Ped. and Cardiovascular Res. Inst., San Francisco.
9. 4:15 TRANSPLACENTAL EFFECTS OF A THYROXINE ANALOG ON PHOSPHOLIPID SYNTHESIS IN FETAL RABBIT LUNG. P.L. Ballard, A. Brehier, B.J. Benson, B.M. Kriz, and E.C. Jorgensen, Cardiovas. Res. Inst. Spec. Ctr. of Pulm. Res. and Depts. of Ped., Anat., and Pharm. Chem., Univ. of Calif. and Cell Biol. Sec. V.A. Hosp. San Francisco.

10. 4:30 ATELECTASIS (ATL) IN THE INTUBATED NEWBORN WITH HYALINE MEMBRANE DISEASE (HMD). J.M. Whitfield and M.D. Jones, Jr., (Spon. by W.H. Zinkham), The Newborn Ctr., The Children's Hosp., Denver.

## PULMONOLOGY

### Second Session

April 28, 1978, 1:30 P.M.

Murray Hill Suite A.

Moderators: Ernest Cotton, Bettina C. Hilman, Maria Delivoria-Papadopoulos and Thomas F. Boat.

1. 1:30 CORTICOSTEROIDS IN STATUS ASTHMATICUS. M.Kattan, D. Gurwitz and H. Levison, Dept. of Ped. and the Res. Inst. Hosp. for Sick Children, Toronto.
2. 1:45 SEQUENTIAL PULMONARY FUNCTION STUDIES IN VERY LOW BIRTH WEIGHT INFANTS (VLBW) DURING THE FIRST WEEK OF LIFE. E.K. Anday, A. Godtar, L.M. Sacks, and M. Delivoria-Papadopoulos, Univ. of Pa. Sch. of Med. Dept. of Ped. Philadelphia.
3. 2:00 SYNERGY OF COMBINED ANTIGEN INHALATION CHALLENGE IN ALLERGIC ASTHMA. B.A. Kohn, M.A. Wall, F.J. Twarog, D.J. Streider, Harvard Med. Sch. Children's Hosp. Med. Ctr., Dept. of Ped. (Allergy and Pulmonary Div.) Boston.
4. 2:15 CINCINNATI: A NEW ALPHA<sub>1</sub>-ANTITRYPSIN VARIANT IN TWO NEGRO FAMILIES. G. Hug, G. Chuck and M.K. Fagerhol, Dept. of Ped., Univ. of Cincinnati, Dept. of Immuno-haematology, Ulleval Hosp. Oslo, Norway.
5. 2:30 DISATURATED PHOSPHATIDYLCHOLINE AND PRENATAL PREDICTION OF PULMONARY MATURITY. J.S. Torday and E.E. Lawson (Spon. by H.W. Taeusch, Jr.), Harvard Med. Sch., Boston Hosp. for Women, Dept. of Ped., Boston.
- 2:45 INTERMISSION.
6. 3:00 THE EFFECTS OF DIFFERENT BODY POSITIONS ON PULMONARY FUNCTION IN NEONATES RECOVERING FROM RESPIRATORY DISEASE. M.J. Wagaman, J.G. Shutack, A.S. Moomjian, T.H. Shaffer, J.G. Schwartz, W.W. Fox, (Spon. by J.A. Cortner), Univ. of Pa. Sch. of Med. The Child, Hosp. of Phila. and Temple Univ. Dept. of Physiol. Philadelphia.
7. 3:15 RESPONSES TO MUSCLE PARALYSIS IN MECHANICALLY VENTILATED INFANTS. A.R. Stark, R. Bascom, I.D. Frantz, III., (Spon. by H.W. Taeusch, Jr.), Harvard Med. Sch. Dept. of Ped. Boston.
8. 3:30 STRUCTURAL FEATURES OF CONTINUED HYPOXIA ON LARGE PULMONARY ARTERIES OF RAT. B.Meyrick and L. Reid (Spon. by A. Nadas), Harvard Med. Sch. Children's Hosp. Med. Ctr., Dept. of Path. Boston.

9. 3:45 PROSPECTIVE STUDY OF LUNG FUNCTION IN YOUNG CHILDREN FOLLOWING GROUP (C) AND BRONCHIOLITIS (B). R.C. Beckerman, L.M. Taussig and O.F. Sieber, Dept. of Ped. Ariz. Health Sci. Ctr. Tucson.
10. 4:00 INTERACTION OF SUBSTRATE OXIDATION AND PHOSPHOLIPID SYNTHESIS IN DEVELOPING LUNG. J.B. Warshaw and M.L. Terry, Yale Univ. Sch. of Med. Dept. of Ped. New Haven.