

**1999 - 2000**  
**SUMMARY OF SCHOLARLY ACTIVITIES**  
**DEPARTMENT OF PEDIATRICS**

**I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS**

**A. Full length published articles.**

**F.H. Allen, N.J. Cepeda, and Y.M. Yang.** Physical Growth, Sexual Maturation, Body Image, and Sickle Cell Disease. *J. Natl. Med. Assn.* 92:10-14 (2000).

**M. Chicella.** (1) Once-Daily Aminoglycoside Therapy, 5:11; and (2) Once-Daily Aminoglycoside Dosing in Pediatrics – What Is Its Role?, 5:47-52 *J. Pediatr. Pharmacol. Pract.* (2000).

**B. Estrada.** Is Amoxicillin Still our Drug of Choice for Otitis Media? *Pediatr. Infect. Forum* 1(1):1,6,14 (1999).

**B. Estrada.** (1) Mercury and Medicine: A Controversial Alliance, 16:625-631; (2) GAS Pharyngitis: When It Doesn't Go Away, 16:822-823; (3) Extra-GI Pediatric Diseases Associated with *H pylori* Infection, 16:557; and (4) Treatment of Febrile Neutropenia: The Next Frontier, 16:1699-1700. *Infect. Med.* (Also on medscape web site at: [www.medscape.com](http://www.medscape.com)) (1999).

**B. Estrada.** Vaccinations: A Shot of Prevention. [www.onhealth.com](http://www.onhealth.com). (1999).

**B. Estrada.** Antimicrobial Prophylaxis in Pediatric Critical Care. *Semin. Pediatr. Infect. Dis.* 10(4):225-231 (1999).

**B. Estrada.** (1) Pediatric Infectious Diseases and Telemedicine; New Technology for the New Millennium, 17:12-13; (2) Influenza 2000: New and Old Ways to Fight the Epidemic, 17:79; (3) What's New in Varicella Vaccine? 17:150; (4) *Escherichia Coli* 0157:H7-Induced HUS: New Treatments on the Horizon, 17:225-250, *Infect. Med.* (Also on medscape web site at: [www.medscape.com](http://www.medscape.com)). (2000).

**J. Goebel, B. Estrada, J. Quiñonez, N. Nagji, D. Sanford, and R.C. Boerth.** Prednisolone Plus Albuterol Versus Albuterol Alone in Mild to Moderate Bronchiolitis. *Clin. Pediatr.* 39(4):213-220 (2000).

**D.A. Gremse, G.H. Nguyenduc, A.I. Sacks, and J.A. DiPalma.** An Evaluation of Irritable Bowel Syndrome and Lactose Maldigestion in Recurrent Abdominal Pain in Children. *South. Med. J.* 92:778-781 (1999).

R. Otrusnik, M.A. Alpert, C.R. Hamm, Jr., M. Bikkina, M. Porubicin, and H. Panayiotou. Factors Predicting Coronary Artery Disease in Patients With Giant Negative T Waves. *Am. J. Cardiol.* 85:873-875 (2000).

J.M. Quiñonez, F. Chew, O. Torres, and R. Begue. Nutritional Status of *Helicobacter Pylori* Infected Children in Guatemala as Compared to Uninfected Peers. *Am. J. Trop. Med. Hyg.* 61(3):395-398 (1999).

K. Rettig. Necrobiosis Lipodica Diabeticorum as an Indicator of Type II Diabetes in Adolescents. *Clin. Pediatr.* 39:439 (2000).

R.M. Whitehurst, Jr., M. Zhang, A. Bhattacharjee, and M. Li. Dexamethasone Induced Hypertrophy in Rat Neonatal Cardiac Myocytes Involves an Elevated L-Type Ca<sup>2+</sup> Current. *J. Mol. Cell. Cardiol.* 31:1551-1558 (1999).

Y. Xu, D.A. Kakhniashvili, D.A. Gremse, D.O. Wood, J.A. Mayor, D.E. Walters, and R.S. Kaplan. The Yeast Mitochondrial Citrate Transport Protein: Probing the Roles of Cysteines, Arg<sup>181</sup>, and Arg<sup>189</sup> in Transporter Function. *J. Biol. Chem.* 275:7117-7124 (2000).

Y.M. Yang, S. Andrews, R. Peterson, A. Shah, et. al. Prenatal Sickle Cell Screening Education Effect on the Follow-up Rates of Infants With Sickle Cell Trait. *Patient Ed. & Counseling* 39:185-189 (2000).

R.R. Yeoman, L.M. Crews, D.B. Zimmer, K.D. Dahl, B. Rizk, and C.R. Abee. Elevated Ovarian Expression and Serum Concentration of Alpha Inhibin in the Luteal Phase During Follicular Development in the Squirrel Monkey (*Saimiri Boliviensis*) Compared to the Human. *Am. J. Primatol.* 47(2):165-179 (1999).

B. Articles in press.

B.S. Baliga, B.S. Pace, C. Hsueh-Hua, A. Shah, and Y.M. Yang. Mechanism for Fetal Hemoglobin Induction by Hydroxyurea in Sickle Cell Erythroid Progenitors. *Am. J. Hematol.* (2000).

M. Chicella and E.B. Hak. Pediatric Nutrition. IN: L.Y. Young and M.A. Koda-Kimble (Eds.) Applied Therapeutics: The Clinical Use of Drugs. 7<sup>th</sup> Edition. Baltimore: Lippincott, Williams and Wilkins (2001).

M. Chicella. IN: S.J. Phelps and E.B. Hak (Eds.) Guidelines for Administration of Intravenous Medications to Pediatric Patients. 6<sup>th</sup> Edition. Bethesda: ASHP (2001).

B. Estrada. Pertussis: Immunization Beyond Childhood. *Infect. Med.* (2000).

E. Umana, H. Panayiotou, K.R. Ramsey, C.R. Hamm, Jr., M. Bikkina, C.V. Massey, and M.A. Alpert. Left Ventricular Mass and Systolic Function in HIV Infected Patients Following Weight Loss. *Am. J. Cardiol.* (2000).

## II. PUBLISHED ABSTRACTS.

K.D. Bosworth, M. Chicella, and M.Y. Mancao. Drug Allergy or Drug Side Effect? Stepwise Procedure for Interpreting Patient Drug Allergies. *Intl. Pharmaceut. Absts.* p. P-210E (1999).

D.A. Gremse and M. Mancao. Predictors of Response to Interferon-a2b Therapy for Chronic Hepatitis B Infection in Children. *Am. J. Gastroenterol.* 94:2657A (1999).

D.A. Gremse, V. Tolia, W.J. Pan, T. Gunasekaran, R. Kane, B. Pilmer, and L. Book. Pharmacokinetics (PK)/Pharmacodynamics (PD) of Lansoprazole in Pediatric Patients With Symptomatic Gastroesophageal Reflux Disease (GERD). <http://www.abstracts-on-line.com/abstracts/WCP> (2000).

D.A. Gremse and J. Hixon. Comparison of Polyethylene Glycol 3350, NF Powder and Lactulose for Treatment of Chronic Constipation in Children. <http://www.abstracts-on-line.com/abstracts/WCP> (2000).

T. Gunasekaran, W.J. Pan, R. Torres-Pinedo, L. Book, D. Gremse, R. Steffen, S. Czinn, Y.L. Chiu, B.L. Pilmer, and J. Fitzgerald. Pharmacokinetics of Lansoprazole in Adolescent Patients With Gastroesophageal Reflux Disease (GERD). *Gastroenterology* 118:A1241. (Also at <http://www.abstracts-on-line.com/abstracts/WCP>) (2000).

A. Jamal and M. Mancao. Retrospective Review of Pediatric Osteomyelitis. *J. Infect. Med.* 48:123A (2000).

F. Little-Wilson, L. Sindel, and S. Kayes. Is There a Relationship Between *Toxocara Canis* Infection, Inflammation and Asthma in Sickle Cell Disease? 24<sup>th</sup> Annu. Natl. Sickle Cell Dis. Prog. Mtg., p. 201A (2000).

F. Little-Wilson, S. Minto, C. Hoff, and B. Moore. Cytokines and Acute Phase Reactant Proteins in Acute Chest Syndrome, Vaso-Occlusive Crisis and Steady State. 24<sup>th</sup> Annu. Natl. Sickle Cell Dis. Prog. Mtg., p. 47A (2000).

F. Little-Wilson, L. Racy, E. Bright, and C. Hoff. Abnormalities of Growth and Pulmonary Function in Acute Chest Syndrome. 24<sup>th</sup> Annu. Natl. Sickle Cell Dis. Prog. Mtg., p. 45A (2000).

J.C. Parker, J. Thomas, and C.R. Hamm, Jr. Optimized Blood Gases During Total Liquid Ventilation in Piglets. *FASEB J.* 14(4):A609 (2000).

J.M. Quiñonez. (1) Fecal and Oral Shedding of Helicobacter Pylori From Healthy Infected Adults, 2(2):11; (2) The Role of Clinical Suspicion in Evaluating a New Diagnostic Test for Active Tuberculosis: Results of a Multicenter Prospective Trial, 2(2) 12; and (3) Value of Cerebrospinal Fluid Leucocyte Aggregation in Distinguishing the Causes of Meningitis in Children, 2(2): 12. *Pediatr. Infect. Forum* (2000).

R.M. Whitehurst, Jr., and M. Li. Dexamethasone Increases Cardiomyocyte L-Type  $Ca^{2+}$  Currents in an In-Vivo Model of Cardiac Hypertrophy. *Pediatr. Res.* 47(4pt2):53A (2000).

M.M. Zayek, C.R. Hamm, Jr., K. O'Donnell and F.G. Eyal. Epinephrine Is More Effective Than Other Sympathomimetics in Correcting Cerebral Hypoperfusion Associated with Mesenteric Ischemic Reperfusion Insult. (1) *Pediatr. Res.* 47(4pt2):442A; and (2) *Crit. Care* 4(1):S28-S28 (2000).

M.M. Zayek, C.R. Hamm, Jr., K. O'Donnell and F.G. Eyal. Induced Moderate Hypothermia Markedly Exacerbates Pulmonary Hypertension and Dysoxia in a Neonatal Piglet Model of Elevated Pulmonary Vascular Resistance. (1) *Pediatr. Res.* 47(4pt2):442A; and (2) *Crit. Care* 4(1):S116-S117 (2000).

### III. BOOKS PUBLISHED.

None.

### IV. PRESENTATIONS.

M. Chicella. Presentation and Roundtable Discussion. High Dose, Extended Dosing Interval Aminoglycoside Therapy in Children. *Pediatr. Pharm. Advocacy Group 8<sup>th</sup> Annu. Mtg.* Vancouver, BC (1999).

M. Chicella. The Role of the Pharmacist in Pediatric Medicine. *Ala. Soc. Health-Systems Pharmacists New Practitioner Leadership Dev. Conf.,* Birmingham, AL (2000).

L. Crews. Breastfeeding – Evaluation of the Effects of Physician-Directed Education in the Immediate Postpartum Period. *Michigan State Univ. Primary Care Faculty Dev. Conf.,* East Lansing, MI (2000).

B. Estrada. Respiratory Syncytial Virus. *Biloxi Pediatr. Community,* Biloxi, MS (1999).

B. Estrada. Seafood-Borne Infections. Driscoll Children's Hospital and Texas A&M. Corpus Christi, TX (2000).

B. Estrada. Streptococcus Pneumonia Polysaccharide Vaccine. UAB Dept. of Pediatr., Birmingham, AL (2000).

B. Estrada. Varicella Vaccine. Ala. Nurse Pract. Assn., Mobile, AL (2000).

F.G. Eyal. Exogenous Surfactants in the Management of RDS. Methodist Hosp., Memphis, TN (2000).

D.A. Gremse. Predictors of Response to Interferon- $\alpha$ 2b Therapy for Chronic Hepatitis B Infection in Children. 64<sup>th</sup> Annu. Sci. Mtg., Am. Coll. Gastroenterol., Phoenix, AZ (1999).

D.A. Gremse. (1) Pharmacokinetics of Lansoprazole in Adolescents With Gastroesophageal Reflux Disease (GERD); (2) Pharmacokinetics (PK)/Pharmacodynamics (PD) of Lansoprazole in Pediatric Patients With Symptomatic Gastroesophageal Reflux Disease (GERD); and (3) Comparison of Polyethylene Glycol 3350, NF Powder and Lactulose for Treatment of Chronic Constipation in Children. World Cong. Pediatr. Gastroenterol., Hepatol. Nutrition, Boston, MA (2000).

P. Jansen. Pediatric Pain and Sedation: What's OK? Current Trends 2000. Biloxi, MS (2000).

F. Little-Wilson. (1) Is There a Relationship Between *Toxocara Canis* Infection, Inflammation and Asthma in Sickle Cell Disease; (2) Cytokines and Acute Phase Reactant Proteins in Acute Chest Syndrome, Vaso-Occlusive Crisis and Steady State; and (3) Abnormalities of Growth and Pulmonary Function in Acute Chest Syndrome. 24<sup>th</sup> Annu. Natl. Sickle Cell Dis. Prog. Mtg., Philadelphia, PA (2000).

M. Mancao. Update on Pediatric HIV Infections. Ala. State Med. Assn., Mobile, AL (1999).

M. Mancao. Update on the Management of Pediatric HIV. Okaloosa County AID Org., Ft. Walton, FL (1999).

M. Mancao. Congenital Infections. Sacred Heart Hospital, Pensacola, FL (2000).

K.R. Rettig. Type II Diabetes in Children and Adolescents. Gulf Coast Diabetes Educators, Mobile, AL (2000).

R.F. Trimm. (1) The Decade of the Brain; and (2) Surviving Health Care Change. Current Trends 2000, Biloxi, MS (2000).

R.F. Trimm. Using the APA Educational Guidelines to Effect Change in Residency Programs. Assn. Pediatr. Prog. Directors Annu. Mtg., Boston, MA (2000).

R.F. Trimm. (1) Time to Teach Something New – An Innovative Curriculum Designed to Teach Health Promotion Concepts to Residents. Bright Futures Health Promotion Workgroup; and (2) Successful Models of Change Using the APA Educational Guidelines. Annu. Pediatr. Acad. Soc. Mtg., Boston, MA (2000).

R.M. Whitehurst, Jr. Neonatal Radiological Potpourri. Gulf Coast Radiol. Tech. Soc., Mobile, AL (1999).

R.M. Whitehurst, Jr. Dexamethasone Increases Cardiomyocyte L-Type  $Ca^{2+}$  Currents in an In Vivo Model of Cardiac Hypertrophy. (1) Annu. Pediatr. Acad. Soc. Mtg.; and (2) AAP Annu. Mtg., Boston, MA (2000).

Y.M. Yang. Pharmacological Induction of Fetal Hemoglobin Synthesis: Cellular and Molecular Mechanisms. 10<sup>th</sup> Asian Cong. Pediatr., Taipei, Taiwan (2000).

M.M. Zayek. Exogenous Surfactants in the Management of RDS. (1) Grand Rounds at Children's Hosp.; (2) Ruth Chris Steakhouse to Neonatologists, Pediatricians, Nursing and Allied Health staff; (3) Pediatric Grand Rounds at Fairview Univ. Hosp., Minneapolis, MN; and (4) DeMoines Art Center to Neonatologists, Pediatricians, Neonatology Nurses, and NP's, Des Moines, IA (2000).

M.M. Zayek. (1) Epinephrine Is More Effective Than Other Sympathomimetics in Correcting Cerebral Hypoperfusion Associated With Mesenteric Ischemic Reperfusion Insult; and (2) Induced Moderate Hypothermia Markedly Exacerbates Pulmonary Hypertension and Dysoxia in a Neonatal Piglet Model of Elevated Pulmonary Vascular Resistance. Annu. Pediatr. Acad. Soc. Mtg., Boston, MA (2000).

M.M. Zayek. (1) Epinephrine Is More Effective Than Other Sympathomimetics in Correcting Cerebral Hypoperfusion Associated With Mesenteric Ischemic Reperfusion Insult; and (2) Induced Moderate Hypothermia Markedly Exacerbates Pulmonary Hypertension and Dysoxia in a Neonatal Piglet Model of Elevated Pulmonary Vascular Resistance. 20<sup>th</sup> Intl. Symp. Intensive Care Emerg. Med., Brussels, Belgium (2000).

## V. NATIONAL PROFESSIONAL RECOGNITION.

Robert C. Boerth was elected to faculty membership in the Alpha Omega Alpha Honor Medical Society by the USA College of Medicine AOA Chapter. Dr. Boerth continues to serve on the Ronald McDonald House Charities of Mobile, Board of Directors; the Executive Committee of the Alabama Chapter, American Academy of Pediatrics; and as Interim Associate Dean for Clinical Affairs. LaDonna Crews completed a Faculty Development Fellowship at Michigan State University. Benjamin Estrada continues to serve as the Pediatric Research in Office Settings (PROS) Coordinator for the State of Alabama. He also served on the Editorial Board for the Pediatric Infectious Diseases Forum. Fabien Eyal continues to serve on the Alabama Chapter, American Academy of Pediatrics Fetus and Newborn Committee. David Gremse continues to serve as Chairman of the Committee on Academic Issues, Alabama Chapter, American Academy of Pediatrics.

Paul Jansen was approved for membership in the Southern Society for Pediatric Research. Felicia Little Wilson was the First Faculty Recipient of the "Humanism in Medicine Award" at USA. She continues to serve on the Hematology/Oncology Study Section of the American Board of Pediatrics, and the State of Alabama Hemophilia Advisory Committee. Mary Mancao continues to serve as a member of the American Society of Microbiology. Keith Peevy serves on the Alabama Chapter of the American Academy of Pediatrics Fetus and Newborn Committee. Jorge Quiñonez served as President of the Mobile Pediatric Society. Kenneth Rettig was recognized by the Provider Recognition Program of the American Diabetes Association and the National Committee for Quality Assurance for the high quality care given his patients.

R. Franklin Trimm continues to serve on the Task Force on Residency Education in Developmental-Behavioral Pediatrics, Society of Developmental and Behavioral Pediatrics. Dr. Trimm was presented with the "Chair's Award" by the USA Department of Pediatrics for his effective educational leadership as Pediatric Residency Program Director and his dedicated advocacy for Pediatric residents. Richard Whitehurst served on the Alabama Regional Perinatal Advisory Committee. Yih-Ming Yang continues to serve on the Board of Directors of the Sickle Cell Disease Association as a member and 2<sup>nd</sup> Vice Chair; State of Alabama Hemophilia Advisory Committee; Alabama Newborn Screening Advisory Council; Director of the Hemoglobin Diagnosis Laboratory, Sickle Cell Association of America, Mobile Chapter; Principal Investigator, Pediatric Oncology Group; and as Medical Director of Camp RAP-A-HOPE.

## **VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.**

Four new faculty members joined the Department of Pediatrics over the past year. Dr. Judy Blair-Elortegui joined as an Assistant Professor in the area of Combined Medicine/Pediatrics. Dr. Samar Bhowmick joined the Division of Pediatric Endocrinology and General Pediatrics as Associate Professor of Pediatrics. Dr. Sheryl Falkos joined the Division of Pediatric Critical Care as Assistant Professor of Pediatrics. Dr. Renu Mathews joined the department in the Division of General Pediatrics as Pediatric Chief Resident. This past year saw the departure of Drs. Charles Hoff and R. Blaine Moore (Pediatric Research), Dr. Dana Ketchum (General Pediatrics/Pediatric Infectious Diseases), Dr. Meera Varman (General Pediatrics), and Dr. Lisa Young (Pediatric Chief Resident).

The following Pediatric Faculty members were recognized by the COM students as Distinguished Faculty Members at the 2000 Honors Convocation: Drs. Robert Boerth, David Gremse, Charles Hamm, Felicia Little Wilson, Kenneth Rettig, Franklin Trimm, and Yih-Ming Yang.

The seventh recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics was Patrick L. Bosarge, Jr. Five of the graduating medical students chose residencies in pediatrics (n=4) or combined medicine/pediatrics (n=1). Of the pediatric residents completing residency this year, one joined our faculty in the Division of General Pediatrics (Chief Resident), one joined the faculty at the USA Children's and Women's Hospital Children's Evaluation Center, and six entered private practice. Of the medicine/pediatric residents completing residency, one joined our faculty in Combined Med/Peds and the other joined the faculty at the USA Children's and Women's Hospital Children's Evaluation Center. As of July 1, 2000, six first-year residents entered the pediatric residency program, and three first-year residents entered the combined medicine/ pediatrics residency program.

Clinical activity and billed charges continued stable within the Department of Pediatrics. The Children's Miracle Network Telethon was again successful, raising over \$380,000 to benefit the USA Children's and Women's Hospital.

The Department of Pediatrics was productive this past year in terms of scholarly output. There were 28 original articles published or in press and 18 published abstracts by faculty members of the department.