



**LAWSON WILKINS PEDIATRIC
ENDOCRINE SOCIETY**

**May 2–3, 2009
Baltimore Convention Center and
Hilton Baltimore Convention Center Hotel**

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Saturday, May 2	Sunday, May 3	Monday, May 4	Tuesday, May 5
<p>8:00am–10:00am LWPES Plenary Session I Blizzard Lecture 2007-2009 LWPES Clinical Scholar Presentations</p> <p>10:15am–12:15pm Topic Symposium Pediatric Obesity: Predisposing Factors, Energy Expenditure and Complication</p> <p>Mini Course Disorders of Sex Development (DSD)– When to Tell the Patient</p> <p>Original Science Abstract Program Endocrinology: Clinical Research</p> <p>12:15pm–1:00pm Lunch Break</p> <p>1:00pm–3:00pm State of the Art Plenary Gestational Diabetes: Pathogenesis and Long-Term Complications</p> <p>Original Science Abstract Program Fetal Origins of Adult Disease: Neurodevelopment & Behavior</p> <p>3:15pm–5:15pm Topic Symposia Advances in Diabetes: CFRD, Post-Renal Transplant Diabetes and Oxidative Stress New Insights into the Regulation of Ion Transport in the Aldosterone Sensitive Distal Nephron</p> <p>4:00pm–7:30pm Commercial Exhibits Open and Posters Available for Viewing</p> <p>5:30pm–7:30pm Poster Session I, Exhibits & Opening Reception</p>	<p>7:00am–8:00am Meet the Professor Breakfast Session Endocrinology</p> <p>8:00am–10:00am Topic Symposia The Renin-Angiotensin-Aldosterone System in 2009 The Role of the Gut Microbiome in Children’s Health and Diseases</p> <p>8:15am–10:00am LWPES Business Meeting</p> <p>10:00am–12:00pm Topic Symposium Obesity and Chronic Disease</p> <p>10:00am–12:15 pm LWPES Plenary Session II Judson J. Van Wyk Award Presidential Lecture Great Debates</p> <p>10:45am–12:45pm Mini Course Klinefelter Syndrome: Diagnosis and Management In Children, Adolescents and in the Transition to Adulthood</p> <p>12:45pm–2:00pm Lunch Break</p> <p>2:00pm–4:00pm Topic Symposium Mechanisms of Stress, Reward, and Obesity</p> <p>2:00pm–4:00pm Original Science Abstract Program Endocrinology: Basic Research</p> <p>3:00pm–5:00pm LWPES Workshop Maintenance of Certification in Endocrinology: Parts 2 and 4</p> <p>3:15pm–5:15pm Original Science Abstract Program Fetal Origins of Adult Disease: Metabolic & Vascular Disorders</p> <p>4:00pm–7:30pm Commercial Exhibits Open and Posters Available for Viewing</p> <p>5:30pm–7:30pm Poster Session II and Exhibits</p>	<p>Additional PAS Programs of Interest</p> <p>8:00am–10:00am State of the Art Developmental Origins of Adult Disease</p> <p>10:15am–12:15pm Topic Symposium Usefulness of Ambulatory Blood Pressure Monitoring (ABPM)</p> <p>3:15pm–5:15pm State of the Art Nutritional Programming Update -- DNA Methylation and Histone Modifications</p> <p>8:00am–10:00am Hot Topic The Developing Gastrointestinal Tract: A Nexus for Future Health?</p>	<p>8:00am–10:00am Hot Topic The Developing Gastrointestinal Tract: A Nexus for Future Health?</p>

**Continuing
Education Credit**
is through the PAS.
See page 3 for
complete information.

LAWSON WILKINS PEDIATRIC ENDOCRINE SOCIETY

Join us in Baltimore, where the Lawson Wilkins Pediatric Endocrine Society (LWPES) and the Pediatric Academic Societies (PAS) will host tightly aligned annual meetings. The entire LWPES program including the plenary, mini symposia, business meeting, presentations by award winners, fellows' seminar and original science will be held at the Baltimore Convention Center. The Hilton Baltimore Hotel will serve as the LWPES headquarter hotel and will host board meetings and social activities. Committees will be at the Hyatt Regency Hotel.

Registration Information

There will be a single registration fee for the LWPES/PAS meeting set at the PAS registration fee schedule. This registration fee allows participation in all PAS and alliance functions.

Continuing Education

Continuing Education is through the PAS. See page 3 for complete information. The Lawson Wilkins Pediatric Endocrine Society would like to thank the members of the Corporate Advisory Board for their Support

- Abbott Laboratories
- Eli Lilly & Company
- EMD Serono, Inc.
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- Pfizer, Inc.
- Quest Diagnostic
- Sandoz, Inc.
- Sanofi-Aventis
- IPSEN/Tercica

Saturday, May 2

8:00am–10:00am

2150A LWPES Plenary Session I

Baltimore Convention Center ~ Room 318-320

Chairs: Alan D. Rogol, Riley Children's Hospital, Indiana University School of Medicine, Indianapolis, IN, University of Virginia, Charlottesville, VA and Charles A. Stanley, Children's Hospital of Philadelphia, Philadelphia, PA

Introduction

Alan D. Rogol, Riley Children's Hospital, Indiana University School of Medicine, Indianapolis, IN, University of Virginia, Charlottesville, VA

8:05 Ghrelin and GH Secretagogues: Physiology and Therapeutic Potential

Michael O. Thorne, University of Virginia Health System, Charlottesville, VA

8:50 Discussion

Clinical Scholar Award Presentations

9:00 Insulin and IGF-1 Regulation of the GnRH Neuron.

Sara A. DiVall, Tameeka R. Williams, Lan Su, Sally Radovick, Andrew Wolfe. *Publication 2150.1*

9:20 The Role of the Glucocorticoid Receptor in Adipogenesis and Implications for Diabetes and Metabolism. Brian J. Feldman

Publication 2150.2

9:40 Mitochondrial Dysfunction in Insulin Resistant Children. Amy Fleischman, Matthew Kron, David M. Systrom, Mirko Hrovat, Steven K. Grinspoon. *Publication 2150.3*

10:15am–12:15pm

2305 Pediatric Obesity: Predisposing Factors, Energy Expenditure and Complications

Topic Symposium

Baltimore Convention Center ~ Room 321-323

Target Audience: General pediatrics, adolescent medicine, endocrinology, gastroenterology and nutrition.

Objectives:

- To understand the predisposing factors for the development of obesity in pediatric populations
- To be familiar with complications and morbidities associated with pediatric onset obesity

Chairs: Nancy F. Krebs, University of Colorado Health Sciences Center, Denver, CO and Susan Roberts, Tufts University School of Medicine, Boston, MA

Increasing our understanding of the morbidities associated with childhood obesity is becoming more important as the problem becomes more prevalent. This symposium will review current approaches to obesity and highlight new insights into the pathogenesis of associated morbidities.

10:15 Advances in Pediatric Obesity

Nancy F. Krebs, University of Colorado Health Sciences Center, Denver, CO

10:20 Metabolic Syndrome in Children

Sonia K. Caprio, Yale University School of Medicine, New Haven, CT

10:45 Energy Expenditure in Obese Subjects: Are Obese Individuals Genetically Programmed To Become Obese?

Susan Roberts, Tufts University School of Medicine, Boston, MA

11:10 Fructose as a Poison: Predisposing Factors for the Development of Pediatric Obesity

Robert H. Lustig, University of California, San Francisco, CA

11:35 Understanding NAFLD and NASH

Jeffrey B. Schwimmer, University of California, San Diego, CA

12:00 Discussion

Program developed by the North American Society of Pediatric Gastroenterology, Hepatology and Nutrition and Pediatric Academic Societies

10:15am–12:15pm

2320 Disorders of Sex Development (DSD) – When To Tell the Patient?

Mini Course

Baltimore Convention Center ~ Room 317

Target Audience: Endocrinologists, geneticists, urologists, general pediatricians, adolescent medicine specialists.

Objectives:

- To understand the ethical principles of disclosure of medical information to children and adolescents
- To understand how psychological development influences a child's understanding of a DSD diagnosis
- To be able to integrate developmental and ethical principles related to DSD disclosure into clinical practice



Lawson Wilkins Pediatric Endocrine Society

Chairs: Peter A. Lee, Penn State College of Medicine and the Milton S. Hershey Medical Center, Hershey, PA and Wilma C. Rossi, Children's Hospital of Philadelphia, Philadelphia PA

The disclosure of the diagnosis to a child or adolescent with DSD involves difficult ethical issues. Physicians have different views on how and when to disclose medical information and their views can be at odds with the patient's parents. This minicourse will address developmentally-sensitive strategies to disclosure, ethical dilemmas involving disclosure and clinical perspectives on how and when to disclose.

10:15 Case Presentation and LWPES Survey Results on Disclosure
Maria J. Henwood, Nationwide Children's Hospital, Columbus, OH,

10:35 DSD: My Personal Story
Katharine L Baratz, University of Pennsylvania School of Medicine, Philadelphia PA

10:45 Psychological Management of DSD Disclosure
Tom Mazur, State University of New York, Buffalo, NY

11:10 Ethical Perspectives of DSD Disclosure
Alice D. Dreger, Northwestern University, Chicago, IL

11:35 Physician Experience in Patient Care
Charmian Quigley, Indiana University, Eli Lilly & Company, Indianapolis IN

11:55 Discussion

Program developed by the Lawson Wilkins Pediatric Endocrine Society and Pediatric Academic Societies

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2345 Endocrinology: Clinical Research
Platform Session
Baltimore Convention Center ~ 318-320

Refer to PAS Daily Programming for complete details.

12:15pm–1:00pm

Lunch Break

1:00pm–3:00pm

2480 Gestational Diabetes: Pathogenesis and Long-Term Complications
State of the Art Plenary
Baltimore Convention Center ~ Room 318-320

Target Audience: Endocrinologists, neonatologists, geneticists, epidemiologists, nutritionists, general pediatricians.

Objectives:

- To understand the roles of placental and pituitary hormones and adipocytokines in the regulation of maternal carbohydrate and lipid metabolism during pregnancy
- To understand the pathogenesis of gestational diabetes and the prevention of recurrent disease in the mother
- To understand the long-term risks of metabolic disease in offspring exposed to diabetes in utero

Chairs: Michael S. Freemerk, Duke University Medical Center, Durham NC and Boyd Metzger, Northwestern University, Chicago IL

Rates of gestational diabetes have increased significantly during the past 10 years. Gestational diabetes predisposes to fetal overgrowth, neonatal hypoglycemia, hyperbilirubinemia, and polycythemia. Recent studies, however, show that GDM also increases the risks of childhood obesity and type 2 diabetes in offspring. Transgenic mouse models and genome-wide association studies have provided new insight into the roles of hormones, cytokines, and gene variants in normal and pathologic pregnancies. This symposium will focus on the roles of placental and pituitary hormones, cytokines, and various genetic and environmental factors in the pathogenesis and complications of maternal glucose intolerance during pregnancy.

1:00 Scope of the Problem: GDM
Boyd Metzger, Northwestern University, Chicago IL

1:10 Control of Maternal Metabolism by Hormones and Cytokines
Michael S. Freemerk, Duke University Medical Center, Durham NC

1:45 Gestational Diabetes: Pathogenesis and Prevention
Lois Jovanovich, Sansum Diabetes Research Institute, Santa Barbara, CA

2:20 Intrauterine Exposure to Diabetes: Long-Term Complications in the Child
Dana Dabelea, University of Colorado, Denver, CO

2:55 Discussion

Program developed by the Lawson Wilkins Pediatric Endocrine Society and Pediatric Academic Societies

1:00pm–3:00pm

2500 Fetal Origins of Adult Disease: Neurodevelopment & Behavior
Platform Session
Baltimore Convention Center ~ 308

Refer to PAS Daily Programming for complete details.

3:15pm–5:15pm

2690 Advances in Diabetes: CFRD, Post-Renal Transplant Diabetes and Oxidative Stress
Topic Symposium
Baltimore Convention Center ~ Room 318-320

Target Audience: Endocrinologists, pulmonologists, nephrologists, general pediatricians.

Objectives:

- To review the pathophysiology and management of cystic fibrosis (CF)-related diabetes and the relationship of diabetes on CF prognosis
- To understand the pathophysiology and management of hyperglycemia and diabetes associated with post-renal transplant recipients
- To elucidate the role of oxidative stress and the emerging use of antioxidants in diabetes-associated atherosclerosis

Chairs: Nelly Mauras, Nemours Children's Clinic, Jacksonville FL and Thomas A. Wilson, State University of New York, Stony Brook, NY

Hyperglycemia or frank diabetes mellitus occurs with some frequency in Cystic Fibrosis and post-renal transplant patients with significant consequences on morbidity and mortality. In addition, the role of oxidative stress and its treatment with anti-oxidants is emerging as a potential therapy in diabetes-associated atherosclerosis. This symposium will review the pathophysiology, consequences and treatment of CFRD, posttransplant diabetes mellitus and oxidative stress in diabetic atherosclerosis. Understanding these diabetes-related diseases may lead to improved recognition, treatment and outcomes.

3:15 Carbohydrate Metabolism in Cystic Fibrosis
Antoinette M. Moran, University of Minnesota, Minneapolis, MN

3:55 Post-Renal Transplantation Diabetes Mellitus
Mark D Pescovitz, Indiana University, Indianapolis IN

4:35 Oxidative Stress in Diabetes
Dominique Darmaun, University of Nantes, France and Nemours Children's Clinic, Jacksonville, FL

Program developed by the American Society of Pediatric Nephrology, Lawson Wilkins Pediatric Endocrine Society and Pediatric Academic Societies

3:15pm–5:15pm

2700 New Insights into the Regulation of Ion Transport in the Aldosterone Sensitive Distal Nephron

Topic Symposium
Baltimore Convention Center ~ Room 314-315

Target Audience: This symposium is aimed at basic and translational researchers interested in understanding the mechanisms that regulate transport of the most important renally-controlled ions.

Objectives:

- Understand the pathways underlying vectorial ion transport in the distal nephron
- Understand the signaling pathways allowing for coordinated regulation of ion transport in the distal nephron
- Understand the methods commonly utilized to characterize ion transport

Chairs: Hetal S. Kocinsky, Yale University School of Medicine, New Haven, CT and Raymond Quigley, University of Texas Southwestern Medical Center, Dallas, TX

The final regulation of salt and water homeostasis occurs in the aldosterone sensitive distal nephron (ASDN), where vectorial transport allows for the final modification of the composition of the urinary fluid. This session will highlight recent advances made in our understanding of the mechanisms of sodium, potassium and chloride transport in the ASDN and the coordinated regulation of these processes by novel protein kinase signaling pathways.

3:15 Hormonal Regulation of Sodium Transport

David J. Rozansky, Oregon Health and Science University, Portland, OR

3:45 Ontogeny and (Mechano) Regulation of K Transport

Lisa M. Satlin, Mount Sinai School of Medicine, New York, NY

4:15 Novel Mechanisms of Regulation of C1 Transport in Secretory Epithelia

Agnieszka (Agnes) Swiatecka-Urban, Children's Hospital of Pittsburgh, Pittsburgh, PA

4:45 Integration of Pathways Regulating Ion Transport in the Aldosterone Sensitive Distal Nephron

Richard Lifton, Yale University School of Medicine, New Haven, CT

Supported in part by an unrestricted educational grant from the International Pediatric Research Foundation

Program developed by the American Society of Pediatric Nephrology and Pediatric Academic Societies

4:00pm–7:30pm

Commercial Exhibits Open and Posters Available for Viewing

Baltimore Convention Center

Exhibits – Hall F & G

Posters – Hall D & E

Posters Available for Viewing: 4:00pm–7:30pm

Author Attendance: 5:30pm–7:30pm

5:30pm–7:30pm

Poster Session I and Opening Reception

Baltimore Convention Center

Exhibits – Hall F & G

Posters – Hall D & E

Posters Available for Viewing: 4:00pm–7:30pm

Author Attendance: 5:30pm–7:30pm

Opening Reception: 5:15pm–7:15pm

Course #	Topics	Board #s
2826	Growth / Pituitary	233-248
2827	Thyroid	249-255
2828	Puberty / DSD	256-265
2829	Bone / Calcium	266-271

Refer to PAS Daily Programming for complete details.

Sunday, May 3

7:00am–8:00am

PAS Meet the Professor Breakfast Session

3028 Endocrinology

Hilton Baltimore ~ Peale B

Dr. Allen's current professional activities include:

- a busy practice in general pediatric endocrinology
- mentorship for fellows participating in NIH-funded training program and UW medical students
- clinical research and lecturing in pediatric obesity and diabetes prevention, newborn screening, and endocrine ethics issues
- leadership in Strategic Planning for the Lawson Wilkins Pediatric Endocrine Society

David B. Allen

Professor of Pediatrics

University of Wisconsin School of Medicine and Public Health

Director of Endocrinology and Endocrine-Diabetes Fellowship

UW American Family Children's Hospital – Madison

8:00am–10:00am

3075 The Renin-Angiotensin-Aldosterone System in 2009

Topic Symposium

Baltimore Convention Center ~ Room 316

Target Audience: Pediatric nephrologists, pediatric cardiologists, pediatric endocrinologists.

Objectives:

- Have an improved understanding of the role of aldosterone receptors in the regulation and management of hypertension
- Have an understanding of the role that ACE-2 inhibition plays in the management of hypertension
- Have an understanding of the role that direct renin inhibition plays in the management of hypertension
- Have an appreciation for the role of dual inhibition of the RAS in the management of hypertension

Chairs: Stephen R. Daniels, The Children's Hospital, Denver, CO and Julie R. Ingelfinger, Massachusetts General Hospital, Boston, MA

Recent work in the field of hypertension relates to understanding the hormonal regulation of blood pressure through the Renin-Angiotensin-Aldosterone System (RAAS) and the therapeutic manipulation of blood pressure via this system. In this session, we will hear about newer aspects of the RAAS. Attention toward the basic science of this hormonal pathway will be emphasized. There will also be discussion of the impact of these newer discoveries on the management of hypertension in the clinical setting.

8:00 Overview

Julie R. Ingelfinger, Massachusetts General Hospital for Children, Boston, MA

8:05 Aldosterone Receptors and Their Role in Hypertension: Aldosterone Receptor Antagonists

Sara Pasquali, Duke University Medical Center, Durham, NC

8:30 ACE-2-a New Player in the RAS: Implications for New Targets and Approaches. Early Data with ACE-2 Inhibition

Daniel C. Battle, Northwestern University Medical School, Chicago, IL

8:55 Direct Renin Inhibition

Helmy M. Siragy, University of Virginia Health System, Charlottesville, VA

9:20 Remission Clinics: Multi-drug Therapy Including Blockade of the RAAS

Piero Ruggerenti, Mario Negri Institute for Pharmacological Research, Bergamo, Italy

9:45 Discussion

Program developed by the American Society of Pediatric Nephrology, International Pediatric Hypertension Association and Pediatric Academic Societies

8:00am–10:00am

3085 The Role of the Gut Microbiome in Children's Health and Diseases

Topic Symposium

Baltimore Convention Center ~ Ballroom III

Target Audience: Endocrinologists, gastroenterologists, neonatologists, behavioral pediatricians, immunologists, genomic and proteomic scientists, infectious disease.

Objectives:

- To explain the molecular methodologies available to study the gut microbiota composition, structure and function, such as metagenomics and metabolomics
- To review current knowledge of the role of gut microbiome in the pathogenesis of obesity
- To provide an overview on the role of the gut microbiome on the pathogenesis of intestinal inflammatory and autoimmune diseases, including necrotizing enterocolitis (NEC), inflammatory bowel diseases (IBD) and celiac disease
- To discuss the role of gut metabolome on the pathogenesis of autism

Chairs: Alessio Fasano and Jacques Ravel, University of Maryland School of Medicine, Baltimore, MD

Increasing evidence suggests that the intestinal mucosa is the “port of entry” of several environmental stimuli that may lead to organ-specific or systemic diseases, including intestinal bowel disorders, autoimmunity, autism, and obesity. These different outcomes are probably related to the host genetic susceptibility and are most likely causally related to a disturbed gut microbiome. In this symposium we will explore the structure and functions of the gut microbiota in health and disease and how changes in the gut microbiome can lead to both gastrointestinal and extra-intestinal disease states in genetically susceptible individuals.

8:00 Gastrointestinal-Microbiome Interaction: An Overview

Alessio Fasano, University of Maryland School of Medicine, Baltimore, MD

8:30 The Dynamics of the Gut Microbiota in IBD and Celiac Disease

Jacques Ravel, University of Maryland School of Medicine, Baltimore, MD

9:00 Interaction between the Gut Microbiota and the Host in Neonatal Necrotizing Enterocolitis

Allan Walker, Massachusetts General Hospital, Charleston, MA

9:30 Metabolic Basis of Microbiome-Host Interactions in Relation to Human Disease

Jeremy Nicholson, Imperial College London, London, UK

Program developed by the North American Society of Pediatric Gastroenterology, Hepatology and Nutrition, Pediatric Infectious Diseases Society and Pediatric Academic Societies

8:15am–10:00am

3175A LWPES Business Meeting

Baltimore Convention Center ~ Room 318-320

10:00am–12:00pm

3280 Obesity and Chronic Disease

Topic Symposium

Baltimore Convention Center ~ Room 314-315

Target Audience: Pediatric nephrology, endocrinology and general pediatrics faculty and fellows interested in better understanding the relationships between kidney and cardiovascular disease and obesity, and new potential treatments for obesity.

Objectives:

- Understand how obesity increases the risk of glomerular injury
- Understand the effect of obesity on progression of chronic kidney disease
- Understand how obesity and microalbuminuria lead to cardiovascular risks
- Learn novel strategies for appetite regulation

Chairs: Robert H.K. Mak, University of California at San Diego, San Diego, CA and Tamara S. Hannon, University of Pittsburgh, Pittsburgh, PA

This symposium is organized to provide updated information regarding both the recent basic science and clinical advances in our understanding of the mechanisms of chronic kidney disease progression related to obesity, and its associated cardiovascular risk. New potential pharmacologic treatments for obesity will also be discussed.

10:00 Overview

Robert H.K. Mak, University of California at San Diego, San Diego, CA

10:10 Mechanisms of Glomerulosclerosis in Obesity

Moshe Levi, University of Colorado Health Sciences Center, Denver, CO

10:35 Dietary Fat and CKD Progression

Daryl Okamura, University of Washington, Seattle, WA

11:00 Obesity, Microalbuminuria and Cardiovascular Risk Factors in Children

Stephanie Nguyen, University of California, San Francisco, CA

11:25 New Potential Therapies for Obesity Targeting Gut Hormones in Appetite Regulation

Ann Scheimann, Johns Hopkins University School of Medicine, Baltimore, MD

11:50 Discussion

Program developed by the American Society of Pediatric Nephrology, North American Society of Pediatric Gastroenterology, Hepatology & Nutrition and Pediatric Academic Societies

10:00am–12:15pm

3283A LWPES Presidential Lecture and Plenary Session II

Baltimore Convention Center ~ Room 318-320

10:00 Judson J. Van Wyk Award , M.D. Prize for Career Achievement in Pediatric Endocrinology*

Supported by Novo Nordisk

10:15 LWPES Presidential Lecture

55 Years of Idiopathic Hypoglycemia in Infants: A historical perspective on McQuarrie's Presidential Address to the 63rd Meeting of the American Pediatric Society

Charles A. Stanley, Children's Hospital of Philadelphia, Philadelphia, PA

Great Debate

Target Audience: Endocrinology, critical care specialists, nephrologists, rheumatologists and oncologists.

Objectives:

- To review and debate the evidence for tight Glycemic control in the pediatric ICU
- To review and debate the evidence for using bisphosphonate therapy in glucocorticoids-induced osteopenia

Chairs: Charlotte M. Boney, Brown University, Providence, RI and Neil H. White, Washington University School of Medicine, St. Louis, MO

Controversial topics relevant to the practice of clinical pediatric endocrinology will be debated by experts in the field.

11:00 Tight Glycemic Control in the Pediatric ICU

PRO

Vinay M Nadkarni, The Children's Hospital of Philadelphia, Philadelphia, PA

11:10 CON

Michael S. D. Agus, Children's Hospital, Boston, MA

11:20 Rebuttal and Discussion

11:30 Bisphosphonate Therapy in Glucocorticoid-Induced Osteopenia

PRO

Craig B. Langman, Feinberg School of Medicine, Northwestern University, Chicago, IL

11:40 CON

Laura K. Bachrach, Stanford University Medical Center, Stanford, CA

10:45am–12:45pm

3310 Klinefelter Syndrome: Diagnosis and Management in Children, Adolescents and in the Transition to Adulthood

Mini Course

Baltimore Convention Center ~ Room 316

Target Audience: Endocrinologists, general pediatricians, adolescent medicine specialists, developmental pediatricians, child psychiatrists, geneticists.

Objectives:

- Identify key diagnostic features of Klinefelter Syndrome in children and adolescents
- Discuss the indication for and management of hormonal therapy in Klinefelter Syndrome during adolescence
- Describe strategies for managing occupational and medical transitions in the older adolescent/young adult with Klinefelter Syndrome

Chairs: Alan D. Rogol, Riley Children's Hospital, Indiana University School of Medicine, Indianapolis, IN, University of Virginia, Charlottesville, VA and Sheryl A. Ryan, Yale University School of Medicine, New Haven, CT

This minicourse will address the diagnosis and management of Klinefelter Syndrome, including the initial evaluation and differential diagnosis in children and adolescents, as well as the indication for and challenges regarding hormone replacement during adolescence. In addition, the management of behavioral issues in the adolescent and the challenges of ensuring optimal occupation and medical transitions to young adulthood will be addressed.

10:45 The Neurobehavioral and Neurocognitive Phenotype of XXY in Boys with Klinefelter Syndrome Prenatally Diagnosed from Birth to 12 Years of Age

Carole Samango-Sprouse, Child Development Center, Davidsonville, MD

11:10 Pubertal Development and Androgen Therapy in Adolescents with Klinefelter Syndrome

Judith L. Ross, Thomas Jefferson University, Philadelphia, PA

11:35 Behavioral Features of Klinefelter Syndrome: The Spectrum, the Myths and the Realities

Nicole R. Tartaglia, University of Colorado at Denver School of Medicine, Denver, CO

12:00 Adolescents with Klinefelter's Syndrome: Transition to Young Adulthood

Sheryl A. Ryan, Yale University School of Medicine, New Haven, CT

12:25 Discussion

Program developed by the Lawson Wilkins Pediatric Endocrine Society, Society for Adolescent Medicine, Society for Developmental & Behavioral Pediatrics and Pediatric Academic Societies

12:45pm–2:00pm

Lunch Break

2:00pm–4:00pm

3605 Mechanisms of Stress, Reward, and Obesity

Topic Symposium

Baltimore Convention Center ~ Room 321-323

Target Audience: Endocrinologists, epidemiologists, nutritionists, general pediatricians, psychiatrists.

Objectives:

- To understand the similarities between obesity and other addictive behaviors
- To explore the role of sucrose in activation of CNS reward pathways, and the commonalities between sugar consumption and addictive behavior
- To understand the role of leptin in extinguishing the reward pathway, and how this extinction can be modulated
- To understand how stress and cortisol contribute both to excessive food intake, and to visceral fat deposition

Chairs: Robert H. Lustig, University of California, San Francisco, CA and Jack A. Yanovski, National Institute of Child Health and Development, Bethesda, MD

Childhood obesity continues to increase in prevalence and severity. Despite attempts at lifestyle intervention to mitigate hunger, excessive intake of high-calorie foods persists. The role that other pathways, such as reward and stress, play in the obesity epidemic, are just beginning to be elaborated. This symposium will examine the central mediation of these phenomena, and their roles in excessive food intake and childhood obesity. Understanding these pathways may lead to improved societal and public health measures to curb this epidemic.

2:00 Overlapping Brain Mechanisms of Stress, Obesity, and Cocaine Addiction

Roy A. Wise, National Institute on Drug Abuse, Baltimore, MD

2:30 Sugar Addiction

Bartley Hoebel, Princeton University, Princeton, NJ

3:00 The Leptin/Insulin Connection in the Nucleus Accumbens

Ralph DiLeone, Yale University, New Haven, CT

3:30 Stress, NPY, and Obesity

Zofia Zukowska, Georgetown University, Washington, D.C.

Program developed by the Lawson Wilkins Pediatric Endocrine Society and Pediatric Academic Societies

2:00pm–4:00pm

3610 Endocrinology: Basic Research

Platform Session

Baltimore Convention Center ~ Room 318-320

Refer to PAS Daily Programming for complete details.

3:00pm–5:00pm

3615A Maintenance of Certification in Endocrinology: Parts 2 and 4

LWPESWorkshop

Baltimore Convention Center ~ Room 336

Target Audience: Endocrinologists and pediatricians interested in learning about the Maintenance of Certification requirements for quality improvement and learning about the alternative means of meeting these requirements.

Objectives:

- To know what Parts 2 and Parts 4 of the Maintenance of Certification (MOCE) process entail
- To understand the alternative means of meeting the requirements for MOCE 2 and 4
- To be aware of initiatives being developed in pediatric endocrinology

Leader: Janet H. Silverstein, University of Florida College of Medicine, Gainesville, FL

Workshop will discuss new requirements for maintenance of certification for pediatric endocrinology, including evidence of continuing knowledge acquisition (Part 2) and Quality Improvement initiatives (Part 4). An overview of the requirements in general will be presented followed by discussion of currently available options for meeting these requirements. The status of specific QI initiatives for congenital hypothyroidism and type 1 diabetes mellitus will be presented. Practical aspects of what is necessary to successfully meet the requirements and means of applying for certification using alternative ways to demonstrate competencies will be outlined.



Lawson Wilkins Pediatric Endocrine Society

- 3:00 Background and Introductions**
Janet H. Silverstein, University of Florida College of Medicine, Gainesville, FL
- 3:10 Maintenance of Certification Part 4: The Requirements and the Process**
Paul V. Miles, American Board of Pediatrics, Chapel Hill, NC
- 3:30 QI Initiative in Congenital Hypothyroidism: Progress and Pitfalls**
Rosalind S. Brown, Children's Hospital Boston, Harvard University, Boston, MA
- 3:50 Developing an EQIPP Module for Type 1 Diabetes: The Process and Practical Application Towards MOCE 4**
Robert Perelman, American Academy of Pediatrics, Elk Grove Village, IL
- 4:10 Quality Improvement through Collaborative Networks: Cystic Fibrosis Related Diabetes**
Samuel J. Casella, Dartmouth Medical School, Lebanon, NH
- 4:30 Questions and Discussion**
Robert P. Schwartz, Wake Forest University School of Medicine, Winston-Salem, NC

3:15pm–5:15pm

- 3670 Fetal Origins of Adult Disease: Metabolic & Vascular Disorders Poster Symposium**
Baltimore Convention Center ~ Room 343-344

Refer to PAS Daily Programming for complete details.

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- 4:00pm–7:30pm
Commercial Exhibits Open and Posters Available for Viewing

Baltimore Convention Center
Exhibits – Hall F & G
Posters – Hall D & E

Posters Available for Viewing: 4:00pm–7:30pm
Author Attendance: 5:30pm–7:30pm

- 5:30pm–7:30pm
Poster Session II
Baltimore Convention Center
Exhibits – Hall F & G
Posters – Hall D & E

Posters Available for Viewing: 4:00pm–7:30pm
Author Attendance: 5:30pm–7:30pm

Course #	Topics	Board #s
3854	Obesity / Insulin Resistance	44-56
3855	Diabetes / Glucose Homeostasis	57-77
3856	Adrenal	78-81

Refer to PAS Daily Programming for complete details.

Additional PAS Programs of Interest

Monday, May 4

- 8:00am–10:00am
4040 Developmental Origins of Adult Disease
State of the Art Plenary
Baltimore Convention Center ~ Ballroom IV
- 10:15am–12:15pm
4305 Usefulness of Ambulatory Blood Pressure Monitoring (ABPM)
Topic Symposium
Baltimore Convention Center ~ Room 316
- 3:15pm–5:15pm
4710 Nutritional Programming Update — DNA Methylation and Histone Modifications
State of the Art Plenary
Baltimore Convention Center ~ Room 307

Tuesday, May 5

- 8:00am–10:00am
5135 The Developing Gastrointestinal Tract: A Nexus for Future Health?
Hot Topic
Baltimore Convention Center ~ Ballroom IV

Visit the LAWSON WILKINS PEDIATRIC ENDOCRINE SOCIETY at www.lwpes.org

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Please visit the LWPES Exhibitors in the Exhibit Hall

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