



# Lawson Wilkins Pediatric Endocrine Society



# LWPES

Lawson Wilkins Pediatric Endocrine Society

**May 4–7, 2007**  
**Metro Toronto Convention Centre**  
**and Fairmont Royal York Hotel**

## Friday, May 4

6:00pm–9:00pm  
**LWPES President's Poster Session & Reception**

## Saturday, May 5

8:00am–12:00pm  
**LWPES Plenary Session I**  
 Lawson Wilkins Lecture  
 Robert Blizzard Lecture  
 Esoterix Lecture

10:15am–12:15pm  
**LWPES/PAS Mini Course**  
 How IUGR and Macrosomia Produce Later Life Obesity, Insulin Resistance and Type 2 Diabetes, Despite Different Beginning Phenotypes

1:00pm–3:00pm  
**LWPES/NASPGHAN/PAS Mini Course**  
 The Early Programming of Adult Disease

1:00pm–3:30pm  
**LWPES Workshop**  
 Controversies in Pediatric Endocrinology Debates

3:15pm–5:15pm  
**ASPEN/LWPES/PAS Mini Course**  
 Diagnosis and Treatment of Bone Disorders in Childhood and Adolescence

5:15pm–7:15pm  
**LWPES/PAS Posters I, Exhibits and PAS Opening Reception**  
 Endocrinology

## Sunday, May 6

7:00am–8:00am  
**Meet the Professor Breakfast**  
 Endocrinology—Building an Academic Career Around Clinical Research (for trainees and junior faculty)

7:45am–9:00am  
**LWPES Business Meeting**

9:00am–11:45am  
**LWPES Presidential Lecture and Plenary Session II**  
 Clinical Scholars Award Presentations

12:00pm–2:00pm  
**LWPES/PAS Poster Session II and Exhibits**  
 Endocrinology

2:00pm–4:00pm  
**LWPES Workshops**  
 Challenges in the Management of Disorders of Calcium and Phosphorus in the Neonate/Infant  
 Diabetes Insipidus in Neonates  
 Dollars and Centimeters: The Business of Pediatric Endocrinology

2:00pm–4:00pm  
**LWPES/IPAH/NASPGHAN/PAS Topic Symposium**  
 Mechanisms and Management of Co-morbidities of T2DM in Children and Adolescents

4:15pm–6:15pm  
**LWPES/PAS Topic Symposium**  
 New Insights into Thyroid Disorders

4:15pm–6:15pm  
**SAM/LWPES/PAS Mini Course**  
 Eating Disorders Among Adolescents: Recent Advances in Management and Treatment

## Monday, May 7

8:00am–10:00am  
**LWPES/PAS State of the Art**  
 Balancing Regulation with the Need for Research in Children

8:00am–10:00am  
**LWPES/ASPEN/IPHA/NASPGHAN/PIDS/PAS Topic Symposium**  
 Mechanism and Management of Dyslipidemias in Children and Adolescents

10:15am–12:15pm  
**LWPES/PAS Topic Symposium**  
 Obesity: Volitional Versus Non-volitional Physical Activity and (Lack of) Weight Gain

10:15am–12:15pm  
**LWPES/PAS Platform Session I**  
 Endocrinology & Diabetes—Basic Research

1:00pm–3:00pm  
**LWPES/PAS Platform Session II**  
 Endocrinology and Diabetes—Clinical Research

3:15pm–5:15pm  
**LWPES/PAS Topic Symposium**  
 New/Emerging Therapies for T1DM—Drugs, Devices and Delivery

5:15pm–6:45pm  
**LWPES/PAS Posters III and Exhibits**

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Additional PAS Programming of Interest can be found beginning on Page <<>>.



## LWPES

Lawson Wilkins Pediatric Endocrine Society

Join us in Toronto, 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 Metro Toronto Convention Centre. The Fairmont Royal York will serve as the LWPES headquarter hotel and will host board meetings, committees and social activities.

### 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 thanks the members of the Corporate Advisory Board for their Support

**Sponsors to follow leave 12 lines for form**

## Friday, May 4

6:00pm–9:00pm

### 4700A LWPES President's Poster Session & Reception

Fairmont Royal York, Canadian

## Saturday, May 5

8:00am–12:00pm

### 5280A LWPES Plenary Session I

TCC, Room 105

Target Audience: Scientists and clinicians interested in state of the art research (clinical and basic) in pediatric endocrinology, diabetes mellitus and related disciplines.

Objectives:

- Appreciate the historical and ethical considerations in the clinical management of children with disorders in sex differentiation or short stature
- Understand traditional and non-traditional biological functions of GH
- Understand the recent developments in the molecular and cellular physiology of pituitary development that impact the clinical management of children with pituitary disorders

Chairs: Kenneth C. Copeland, The University of Oklahoma Health Sciences Center College of Medicine, Oklahoma City, OK; and Ram K. Menon, University of Michigan, Ann Arbor, MI

### 8:00 Lawson Wilkins Lecture—Ethical and Historical Considerations in Treating Children with Disorders of Sex Development and Idiopathic Short Stature

Alice Dreger, Feinberg School of Medicine, Northwestern University, Chicago, IL

### 9:00 Robert Blizzard Lecture—Growth Hormone: For Growth and For Life

Jens Sandahl Christiansen, Aarhus University Hospital, Aarhus, Denmark

### 10:00 Esoterix Lecture—Pituitary Development and Differential Disease Diagnosis: Roles of Transcription Factors and Signaling Pathways

Sally Camper, University of Michigan, Ann Arbor, MI

10:15am–12:15pm

### 5315 How IUGR and Macrosomia Produce Later Life Obesity, Insulin Resistance and Type 2 Diabetes, Despite Different Beginning Phenotypes

PAS/LWPES Mini Course ~ TCC, Hall G

Target Audience: Neonatology, endocrinology, nutrition and metabolism, gastroenterology. Each talk will focus on mechanisms, but aim at a general audience by including and specifically discussing clinical relevance and recommendations for future clinical-translational as well as basic science research.

Objective:

- At the conclusion of this session, participants should be better able to understand how very different changes in fetal growth in terms of body composition and growth trajectory and with variable changes in insulin production and action develop into different forms of insulin action and insulin production in later childhood and adulthood

Chair: William W. Hay, Jr., University of Colorado Health Sciences Center, Aurora, CO

IUGR infants have decreased insulin secretion while this is increased in macrosomic infants, but both have increased insulin sensitivity. Despite these differences, both types of infants develop a later life phenotype of insulin resistance and type 2 diabetes mellitus. It is not known how these fundamental

changes in insulin secretion and action develop, but the mechanisms appear central to the current epidemic of obesity and diabetes. This program will focus on basic science and clinical aspects of these changes in insulin secretion and action. Bill Hay will discuss how the IUGR and macrosomia phenotypes change over the life span; concluding with recommendations for a research agenda to address these fundamental problems. Sherin Devaskar will explore how insulin resistance develops in later life following IUGR and macrosomic fetal growth; and Rebecca Simmons will discuss how diminished or enhanced pancreatic development predisposes to later life failure to produce/secrete insulin.

### 10:15 The IUGR and Macrosomia Phenotypes and How They Change Over the Life Span

William W. Hay, University of Colorado Health Sciences Center, Aurora, CO

### 10:55 How Insulin Resistance Develops in Later Life Following IUGR and Macrosomic Fetal Growth

Sherin U. Devaskar, David Geffen School of Medicine, University of California, Los Angeles, CA

### 11:35 How Diminished or Enhanced Pancreatic Endocrine Cellular Development Predispose to Later Life Failure to Produce/Secrete Insulin

Rebecca A. Simmons, University of Pennsylvania, Children's Hospital, Philadelphia, PA

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society and the Pediatric Academic Societies*



# Lawson Wilkins Pediatric Endocrine Society

1:00pm–3:00pm

## 5540 The Early Programming of Adult Disease

PAS/LWPES/NASPGHAN Mini Course ~ TCC, Room 716B

Target Audience: Neonatologists, endocrinologists, gastroenterologists and general pediatricians.

Objectives:

- Understand new mechanisms of trans-generational transmission of disease
- Understand the impact of growth patterns in early life on adult disease
- Understand possible mechanisms for prevention of chronic illness by targeting early window in development
- Understand how epidemiology can be used as a tool to identify predictors of adult disease

Chairs: Edward R.B. McCabe, Mattell Children's Hospital at UCLA, Los Angeles, CA; and Josephine Z. Kasa-Vubu, University of Michigan, Ann Arbor, MI

During recent years it has become commonly accepted that variation in intrauterine growth has a substantial effect on the risk of common adult disorders, such as coronary heart disease, stroke and type 2 diabetes. Moreover, recent observations from epidemiological and animal studies suggest that postnatal growth, in particular during infancy, may have an equally important role in modifying the frames of adult health. In addition, Epigenetics is the study of heritable changes in gene function that occur without a change in the DNA sequence and encompasses processes that cannot be accounted for by the simple genetic code. This relatively new concept has changed our understanding of transgenerational transmission of disease because it does not involve changes in the DNA structure. This is important for pediatricians because, as compared with the fetal period, infancy is much more accessible to possible interventions. This symposium provides an update on recent findings from epidemiological and animal studies, aiming at answering the questions if, when, and how we could plan interventions in childhood to prevent adult disease.

### 1:00 Introduction

Josephine Z. Kasa-Vubu, University of Michigan, Ann Arbor, MI

### 1:05 Early Growth and Epigenetic Processes in Risk of Adult Disease

Mark Hanson, University of Southampton, Southampton, UK

### 1:35 Childhood Growth and Adult Disease—Lessons from Birth Cohort Studies

Eero Kajantie, Hospital for Children and Adolescents, National Public Institute, Helsinki, Finland

### 2:05 Nutritional Epigenomics of Metabolic Syndrome—New Perspective Against the Epidemic

Claudine Junien, Institut National de la Santé et de la Recherche Médicale UR 781 Hopital Necker-Enfants Malades, Paris, France

### 2:35 Discussion

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society; North American Society for Pediatric Gastroenterology, Hepatology and Nutrition; and the Pediatric Academic Societies*

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

1:00pm–3:30pm

## 5650A Controversies in Pediatric Endocrinology Debates

LWPES Workshop ~ TCC, Hall G

Target Audience: Clinicians involved with care of children with growth disorders or abnormalities in bone density.

Objectives:

- Understand the benefits and risks of IGF-I treatment of children with idiopathic short stature

- Appreciate the value of GH testing in the diagnosis of GH deficiency
- Elucidate the benefits and risks of bisphosphonate treatment of children with diminished bone mineral density

Chairs: Mitchell Geffner, Saban Research Institute of Children's Hospital of Los Angeles, Los Angeles, CA; and Clifford A. Bloch, University of Colorado School of Medicine, Greenwood Village, CO

In this session, three current areas of controversy in pediatric endocrinology will be debated by respective experts in these fields. These include: (1) use of the new growth-promoting therapy, recombinant IGF-I, to augment height in children with idiopathic short stature; (2) performance of traditional pharmacological growth hormone stimulation tests as a means to diagnose childhood growth hormone deficiency; and (3) appropriateness of bisphosphonate therapy to treat childhood osteoporosis.

### 1:00 IGF-I Treatment of Idiopathic Short Stature—Pro

Pinchas Cohen, Professor and Chief of Endocrinology, Mattell Children's Hospital at UCLA, David Geffen School of Medicine at UCLA, Los Angeles, CA

### 1:25 IGF-I Treatment of Idiopathic Short Stature—Con

Arlan L. Rosenbloom, University of Florida College of Medicine, Gainesville, FL

### 1:50 The GH Stimulation Test: Has the Time Come to Pronounce Its Demise?—Pro

Darrell M. Wilson, Stanford University Medical Center, Stanford, CA

### 2:15 The GH Stimulation Test: Has the Time Come to Pronounce Its Demise?—Con

Margaret L. Lawson, Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada

### 2:40 Should Bisphosphonates be Routinely Used to Treat Low BMD with Fractures in Children?—Pro

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

### 3:05 Should Bisphosphonates be Routinely Used to Treat Low BMD with Fractures in Children?—Con

Linda A. DiMeglio, Indiana University School of Medicine, Indianapolis, IN

*Supported by an unrestricted educational grant from Inamed, Incorporated*

3:15pm–5:15pm

## 5680 Diagnosis and Treatment of Bone Disorders in Childhood and Adolescence

PAS/ASPN/LWPES Topic Symposium ~ TCC, Room 718A

Target Audience: General pediatricians, endocrinologists and nephrologists.

Objectives:

- Understand new concepts in the etiology of renal osteodystrophy
- Appreciate new insights into the pathogenesis of XLH
- Be cognizant of the advantages and disadvantages of the available methods available for quantifying bone density in youth
- Know when and how to treat decreased bone density in pediatric patients

Chairs: Mary Beth Leonard, The Children's Hospital of Philadelphia, Philadelphia, PA; and Thomas O. Carpenter, Yale-New Haven Children's Hospital, New Haven, CT

Recent advances in molecular genetics and pharmacotherapeutics have spurred newer approaches to the management of bone disorders in children and adolescents. The increasing use of glucocorticoids and other agents that impact bone health has also resulted in pediatricians being increasingly confronted with questions related to bone disorders in clinical practice. This symposium will examine advances in the pathophysiology, diagnosis and clinical management of bone disorders in children and adolescents.



- 3:15 A Novel Central Mechanism in Renal Osteodystrophy**  
Robert H.K. Mak, Oregon Health and Science University, Portland, OR
- 3:45 New Insights into the Pathogenesis of X-linked Hypophosphatemic Rickets (XLH)**  
Michel G. Baum, University of Texas Southwest Medical Center at Dallas, Dallas, TX
- 4:15 Measurement of Bone Mass in Children and Adolescents**  
Laura K. Bachrach, Stanford University Medical Center, Stanford, CA
- 4:45 Management of Osteoporosis in Childhood and Adolescence**  
Leanne Marie Ward, Children's Hospital of Eastern Ontario, University of Ottawa, Ottawa, Ontario, Canada

*Sponsored jointly by the American Society of Pediatric Nephrology, Lawson Wilkins Pediatric Endocrine Society and the Pediatric Academic Societies*

4:00pm–7:30pm

## Commercial Exhibits Open and Posters Available for Viewing

TCC, Exhibit Hall E

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

Author Attendance and Opening Reception: 5:15pm–7:15pm

Refer to PAS Daily Programming pages for session content.

Course #	Topics	Board #s
5875	Genetic Metabolic Disease	136–141
5876	Steroidogenesis	142–148
5877	Obesity Metabolism Syndrome	149–164
5879	Diabetes Mellitus & Metabolism (Basic)	176–189

## Sunday, May 6

### PAS Meet the Professor Breakfast Session

The purpose of these sessions is to provide trainees and junior faculty the opportunity to meet with senior academic physicians who can provide insights in their field and provide career guidance in a small interactive group. Attendance at each session is limited and available on a first-come, first-served basis to maintain an intimate interactive format.

- ☑ Of special interest to trainees and junior faculty

7:00am–8:00am

### 6008 Endocrinology

PAS Meet the Professor ~ Intercontinental, Caledon

#### Building an Academic Career Around Clinical Research

This session is designed to provide trainees and junior faculty with a perspective on how a pediatrician can build an academic career based on clinical research. Physician scientists are in a unique position to combine science and clinical care. This session will describe the process of career development, focusing on training, identifying and investigating clinical problems, obtaining funding, and building mentoring networks.

#### Antoinette Moran

Professor and Division Chief, Pediatric Endocrinology and Diabetes, University of Minnesota Children's Hospital, Minneapolis, Minnesota



7:45am–9:00am

### 6020A LWPES Business Meeting

TCC, Room 105

9:00am–11:45am

### 6205A LWPES Presidential Lecture and Plenary Session II: Endocrinology/Diabetes Awards

TCC, Room 105

Target Audience: Scientists and clinicians interested in state-of-the-art research (clinical and basic) in pediatric endocrinology, diabetes mellitus and related disciplines.

Objective: Appreciate and understand advances in clinical and basic science research related to pediatric endocrinology and diabetes

Chair: Alan D. Rogol, University of Virginia, Charlottesville, VA

#### 9:00 LWPES Presidential Lecture—35 Years: Our Heritage and Our Destiny

Kenneth C. Copeland, The University of Oklahoma Health Sciences Center College of Medicine, Oklahoma City, OK

Chairs: Alan D. Rogol, University of Virginia, Charlottesville, VA; and Kenneth C. Copeland, The University of Oklahoma Health Sciences Center College of Medicine, Oklahoma City, OK

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

Robert M. Blizzard, University of Virginia, The Blake Center, Charlottesville, VA

*\*Supported by Novo Nordisk*

Chairs: Mary M. Lee, University of Massachusetts Medical School, Worcester, MA; and Andrea M. Haqq, Duke University Medical Center, Durham, NC

Current recipients of various LWPES Scholar Awards will present a synopsis of their activities and research supported by these awards.

#### 10:20 Brainstem Mechanisms in Cachexia—LWPES AstraZeneca Fellowship Award

Mark DeBoer, Oregon Health and Science University, Portland, OR

#### 10:40 Glucose Tolerance and Insulin Resistance in Obese Siblings of Children with Type 2 Diabetes—LWPES Genentech Clinical Scholar Award

Sheela Magge, Children's Hospital of Philadelphia, Philadelphia, PA

#### 11:00 Congenital Hyperinsulinism: Molecular Mechanisms and Diagnoses—LWPES Lilly Fellowship Award

Olga T. Hardy, Children's Hospital of Philadelphia, Philadelphia, PA

#### 11:20 Developing a Novel Animal Model for Cystic Fibrosis Related Diabetes—LWPES Pharmacia/Pfizer Fellowship Award

Michael S. Stalvey, University of Florida College of Medicine, Gainesville, FL

#### 11:40 Deconvoluting the Metabolic Syndrome: The Role of Hepatic Insulin Resistance—LWPES Novo Nordisk Clinical Scholars Award

Sudha Biddinger, Joslin Diabetes Center, Boston, MA

11:00am–3:00pm

### Commercial Exhibits Open and Posters Available for Viewing

TCC, Exhibit Hall E

Posters Available for Viewing: 11:00am–3:00pm

Author Attendance: 12:00pm–2:00

Refer to PAS Daily Programming pages for session content.

Course #	Topics	Board #s
6303	Diabetes Mellitus & Metabolism	
	Clinical	299–309
6304	Obesity & Metabolism Syndrome	309–323
6305	Growth	324–343



# Lawson Wilkins Pediatric Endocrine Society

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2:00pm–4:00pm

## 6385 Mechanisms and Management of Co-morbidities of T2DM in Children and Adolescents

PAS/IPHA/LWPES/NASPGHAN Topic  
Symposium ~ TCC, Room 718AB

Target Audience: General pediatricians, pediatric endocrinologists and nephrologists.

Objectives:

- Understand recent advances in the pathophysiology and management of a child with non-alcoholic steatohepatitis
- Understand recent advances in the pathophysiology and management of hypertension and kidney disease associated with obesity and T2DM in children and adolescents
- Familiarize themselves with recent advances and emerging therapies and strategies to prevent morbidity associated with T2DM

Chairs: Philip S. Zeitler, University of Colorado at Denver, Denver, CO; and John N. Udall, West Virginia University, Charleston, WV

The childhood obesity epidemic and the associated increase in pediatric T2DM is being manifested in children and adolescents as target-organ damage including liver disease, hypertension, and renal disease. This symposium will focus on the pathophysiology, prevention and management of target-organ effects of T2DM.

### 2:00 Childhood Non-alcoholic Steatohepatitis (NASH/NAFLD)

Joel E. Lavine, University of California, San Diego, San Diego, CA

### 2:40 Early Manifestations of Hypertension and Nephropathy in Adolescents with T2DM

Joseph T. Flynn, Children's Hospital at Montefiore, Bronx, NY

### 3:15 Incretin-Based Therapies for the Treatment of Type 2 Diabetes

Laurie Baggio, Samuel Lunenfeld Research Institute, Mt. Sinai Hospital, Toronto, Ontario, Canada

*Sponsored jointly by the International Pediatric Hypertension Association; Lawson Wilkins Pediatric Endocrine Society; North American Society for Pediatric Gastroenterology, Hepatology and Nutrition; and the Pediatric Academic Societies*

2:00pm–4:00pm

## 6515A Challenges in the Management of Disorders of Calcium and Phosphorus in the Neonate/Infant

LWPES Workshop ~ TCC, Room 705

Target Audience: Pediatric endocrinologists and clinicians involved with care of neonates and infants.

Objectives:

- Appreciate the challenges faced by the clinician in diagnosing and managing a neonate with disorder of calcium/phosphate homeostasis
- Understand the latest developments regarding the cellular and molecular basis of disorders of calcium/phosphate homeostasis in the neonate
- Understand the rationale for diagnosing and managing various disorders of calcium/phosphate homeostasis in the neonate

Chair: Michael A. Levine, Children's Hospital, The Cleveland Clinic, Cleveland, OH

In this two-hour session, Dr. Levine will lead a discussion focused on the unique challenges faced by clinicians taking care of neonates presenting with disorders of calcium/phosphorus homeostasis. Dr. Levine will discuss the latest developments in the molecular and cellular basis of these disorders and the impact of such information on the management of these patients.

### What's New in the Growth Plate: Rickets and Mineralization

Rachel Gafni, University of Maryland School of Medicine, Baltimore, MD

### What's New in Hypophosphatemic Rickets: Beyond XLH

Murat Bastepe, Massachusetts General Hospital, Harvard Medical School, Boston, MA

2:00pm–4:00pm

## 6516A Diabetes Insipidus in Neonates

LWPES Workshop ~ TCC, Room 715B

Target Audience: Clinicians involved with care of neonates and infants with diabetes insipidus.

Objective:

- Understand the rationale and practice of various strategies to manage diabetes insipidus in the neonate

Chairs: Scott A. Rivkees, Yale University School of Medicine, New Haven, CT; and Joseph A. Majzoub, Children's Hospital Boston, Boston, MA

In this session the two experts will discuss the unique challenges faced by a clinician in the management of diabetes insipidus in a neonate. The speakers will discuss the scientific rationale and practical implementation of the various regimens and strategies that can be used to manage diabetes insipidus in the neonate.

2:00pm–4:00pm

## 6517A Dollars and Centimeters: The Business of Pediatric Endocrinology

LWPES Workshop ~ TCC, Room 707

Target Audience: Clinicians involved in the practice of pediatric endocrinology.

Objectives:

- Appreciate measures that increase efficiency and income generation in pediatric endocrine practice
- Understand the process for negotiating and implementing clinical trials contracts in pediatric endocrinology
- Appreciate the impact and role of electronic medical record (EMR) in the practice of pediatric endocrinology
- Understand the financial risks and benefits of introducing an EMR in a pediatric endocrinology practice

Chair: Paul S. Thornton, Cook Children's Medical Center, Fort Worth, TX

This session will discuss issues related to financial aspects of the practice of pediatric endocrinology in both private practice and hospital based/academic settings. The impact of new technologies (e.g. EMR, electronic medical record) and new opportunities (clinical trials) in the practice of pediatric endocrinology will be discussed. In this session three areas of direct relevance to the practice of pediatric endocrinology will be discussed.

### Overview

Paul S. Thornton, Cook Children's Medical Center, Fort Worth, TX

### The Role of IGFs (Income Generation Factors) in Pediatric Endocrine Practice

Paul S. Thornton, Cook Children's Medical Center, Fort Worth, TX

### Negotiating a Clinical Trials Contract—The Physician Perspective

Lawrence A. Silverman, Goryeb Children's Hospital, Atlantic Health System, Morristown, NJ

### Negotiating a Clinical Trials Contract—The Industry Perspective

George M. Bright, Tercica, Inc., South San Francisco, CA

### Cost-benefit Analysis of Implementing an EMR into a Pediatric Endocrinology Practice

Dennis Brenner, Baystate Children's Hospital, Tufts University School of Medicine, Springfield, MA

4:15pm–6:15pm

## 6625 New Insights into Thyroid Disorders

PAS/LWPES Topic Symposium ~ TCC, Room 717AB

Target Audience: Neonatologists, pediatric endocrinologists, general pediatricians, intensivists.

Objectives:

- Understand recent advances in the management of an infant with congenital thyroid disease
- Become cognizant of the genetic etiologies of congenital hypothyroidism
- Interpret thyroid function tests in the preterm and newborn infant
- Appreciate the controversies concerning the management and follow-up of hypothyroxinemia in preterm infants

Chairs: Rosalind Brown, Children's Hospital, Boston, MA; and Stephen Huang, Children's Hospital, Boston, MA

Recent advances in the molecular and cellular basis of thyroid action have enabled unique insights into the etiology of congenital hypothyroidism and the pathophysiology of thyroid abnormalities encountered in the NICU and PICU. This symposium will address the impact on the clinical practice of neonatology and pediatrics of recent advances in the biology of the thyroid gland and thyroid hormone action on the practice of neonatology and pediatrics.

### 4:15 Genetics and Epigenetics of Congenital Hypothyroidism

Guy Van-Vliet, University of Montreal, Montreal, Quebec, Canada

### 4:55 Deiodinases and Thyroid Hormone Transporters

Antonio C. Bianco, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

### 5:35 Hypothyroxinemia in the Preterm Infant

Robert H. Hume, University of Dundee, Ninewells Hospital and Medical School, Dundee, Scotland, UK

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society and the Pediatric Academic Societies*

4:15pm–6:15pm

## 6627 Eating Disorders Among Adolescents: Recent Advances in Management and Treatment

PAS/LWPES/SAM Mini Course ~ TCC, Room 715B

Target Audience: General pediatricians, adolescent medicine specialists, endocrinologists, psychiatrists and mental health providers.

Objectives:

- Understand current epidemiology, etiologic theories and general assessment and management of the common eating disorders seen in adolescents
- Evaluate adolescents with eating disorders for bone health problems and develop plans for management
- Understand the role of families in eating disorders and the current types of family therapies useful in managing eating disorders

Chair: Debra Katzman, The Hospital for Sick Children and University of Toronto, Toronto, Ontario, Canada

This mini-course will address our current understanding of the epidemiology, etiology and management of the range of eating disorders seen among adolescents, focusing on anorexia nervosa and bulimia. It will address the most current evidence concerning etiology, prevalence and prognosis. There will be a specific focus on bone health in anorexia and the current strategies for assessment and management of bone disorders seen in anorexia. Finally, there will be a discussion of the role of family and family therapy in the treatment of eating disorders, with specific mention of the newer Maudsley method of family therapy. This mini-course should be of interest to primary care as well as subspecialty pediatricians and mental health providers who see adolescents presenting with the spectrum of eating disorders.

### 4:15 Overview of Evidence-based Understanding of Eating Disorders

Richard E. Kreipe, University of Rochester School of Medicine, Golisano Children's Hospital at Strong University, Rochester, NY

### 4:50 Bone Health and Eating Disorders: Update on Assessment and Management

Madhusmita Misra, Massachusetts General Hospital, Boston, MA

### 5:25 The Role of Family and Family Therapy in Eating Disorders

James Lock, Stanford University School of Medicine and Lucile Salter Packard Children's Hospital at Stanford, Stanford, CA

### 6:00 Panel Discussion

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society, Society for Adolescent Medicine and the Pediatric Academic Societies*

## Monday, May 7

8:00am–10:00am

## 7100 Balancing Regulation with the Need for Research in Children

PAS/LWPES State of the Art Plenary ~ TCC, Room 718B

Target Audience: General pediatricians and clinical researchers in all pediatric subspecialties.

Objectives:

- Understand the regulatory definition of minimal risk
- Understand the regulatory barriers to clinical research in children and what may be done to alleviate them

Chair: Robert L. Rosenfield, University of Chicago, Chicago, IL

In spite of a mandate for the inclusion of children in federally funded research, the current regulatory environment, designed to protect children, imposes barriers to pediatric research that contribute to the disaffection of a generation of academic pediatricians from undertaking high-quality clinical research.

This panel brings together experts in diverse fields of pediatrics, ethics and regulatory compliance to discuss measures and strategies that could be adopted to alleviate this problem. Concrete examples of problems with questions will be addressed, such as: how might standardized interpretation of minor risk be generated to form a web-based registry of protocols defined as minor risk; how might the system permit precedents to be set for procedures in protocols that are approved after CFR 407/50.54 review; might screening advisory panels be possible to implement the process; how might redundancy of scientific and ethics reviews be eliminated?

This session will be formatted as a panel discussion.

**Bernard A. Schwetz**, Office for Human Research Protection, Department of Health and Human Services, Rockville, MD

**Robert Meland Nelson**, FDA Office of Pediatric Therapeutics, Rockville, MD and The Children's Hospital of Philadelphia and the University of Pennsylvania, Philadelphia PA

**Norman Fost**, University of Wisconsin Medical School, Madison, WI; Chair, Pediatric Ethics Subcommittee of FDA Pediatric Drug Advisory Committee

**Roberta A. Ballard**, University of California, San Francisco, San Francisco, CA

**Robert L. Rosenfield**, University of Chicago, Chicago, IL; President-Elect, Lawson Wilkins Pediatric Endocrine Society

Fifteen minutes will be left for open discussion of questions from the audience. Questions for consideration are encouraged in advance by email to [robros@peds.bsd.uchicago.edu](mailto:robros@peds.bsd.uchicago.edu).

*Sponsored jointly by the Lawson Wilkins Pediatric Academic Society and the Pediatric Academic Societies*



# Lawson Wilkins Pediatric Endocrine Society

8:00am–10:00am

## 7110 Mechanism and Management of Dyslipidemias in Children and Adolescents

PAS/ASPN/IPHA/NASPGHAN/LWPES  
Topic Symposium ~ TCC, Room 718A

Target Audience: Pediatric generalists, nephrologists, endocrinologists, geneticists, cardiologists and gastroenterologists.

Objectives:

- Understand molecular etiology and pathophysiology of congenital lipodystrophies and dyslipidemia of chronic renal failure
- Understand clinical management of congenital lipodystrophies and dyslipidemia of chronic renal failure

Chairs: Susan Furth, Johns Hopkins University, Baltimore, MD; and Holley Allen, Baystate Medical Center Children's Hospital, Springfield, MA

Dyslipidemia imparts a substantial risk for CV disease in children. The chance for adverse CV outcomes is higher in children with co-morbidities such as chronic renal disease. New adult guidelines have recently lowered the threshold for the treatment of dyslipidemia in adults. However, childhood guidelines have not been revised for over a decade. This symposium will discuss recent advances in our understanding of the molecular etiology, pathophysiology and clinical management of congenital lipodystrophies and dyslipidemia of chronic renal failure. This forum will also facilitate a discussion regarding the scientific basis and practical implications of adopting new guidelines for treatment of dyslipidemia in children.

### 8:00 Classification, Genetics and Clinical Spectrum

Robert A. Hegele, Robarts Research Institute, University of Western Ontario, London, Ontario, Canada

### 8:30 New Therapies for Lipodystrophy Syndromes: Lessons to Learn for More Common Conditions

Elif Oral, University of Michigan Medical School, Ann Arbor, MI

### 9:00 Dyslipidemia of Chronic Renal Failure

Jeffrey M. Saland, Mount Sinai Medical Center, New York, NY

### 9:30 Updated Recommendations on Treatment of Dyslipidemia in Children – New Guidelines from the AHA

Brian W. McCrindle, The Hospital for Sick Children, Toronto, Ontario, Canada

*Sponsored jointly by the American Society of Pediatric Nephrology; International Pediatric Hypertension Association; Lawson Wilkins Pediatric Endocrine Society; North American Society for Pediatric Gastroenterology, Hepatology and Nutrition; and the Pediatric Academic Societies*

10:15am–12:15pm

## 7320 Obesity: Volitional Versus Non-volitional Physical Activity and (Lack of) Weight Gain

PAS/LWPES Topic Symposium ~ TCC, Room 717A

Objectives:

- Understand the metabolic impact of exercise in youth
- Understand ethnic disparities in weight control and fitness
- Understand recent developments in the assessment of energy expenditure in youth
- Understand the role of fitness in the prediction of long-term health risk related to obesity

Chairs: Tamara Hannon, University of Pittsburgh, Pittsburgh, PA; and Josephine Z. Kasa-Vubu, University of Michigan, Ann Arbor, MI

One of the greatest challenges in the management of obesity is the assessment of physical activity and how it relates to lifestyle. Dramatic differences in weight gain between siblings who live within the same household and appear to follow very comparable diets is a common challenge in pediatric practice. This obesity symposium will explore the respective roles of voluntary versus involuntary physical activity in the emergence (or the lack) of obesity.

### 10:15 Introduction

Josephine Z. Kasa-Vubu, University of Michigan, Ann Arbor, MI

### 10:20 Non-exercise Activity Thermogenesis: The Crouching Tiger, Hidden Dragon of Societal Weight Gain

James Levine, Mayo Clinic, Rochester, MN

### 10:50 Individual Differences in Physical Activity and Weight—The Model of the Rhesus Monkey

Judy Cameron, Oregon Health and Science University, Portland, OR

### 11:20 Fitness Assessment and Weight Control in Youth—A Focus on Ethnicity

Michael I. Goran, University of Southern California, Los Angeles, CA

### 11:50 Discussion

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society and the Pediatric Academic Societies*

10:15am–12:15pm

## 7340 Endocrinology & Diabetes—Basic Research Platform Session I

TCC, Room 718A

Refer to PAS Daily Programming pages for session content.

1:00pm–3:00pm

## 7515 Endocrinology and Diabetes—Clinical Research Platform Session II

TCC, Room 718A

Refer to PAS Daily Programming pages for session content.

3:00pm–6:45pm

## Commercial Exhibits Open and Posters Available for Viewing

TCC, Exhibit Hall E

Posters Available for Viewing: 3:00pm–6:45pm

Author Attendance: 5:15pm–6:45pm

Refer to PAS Daily Programming pages for session content.

Course #	Topics	Board #s
7914	Puberty	212–224
7915	Diabetes Mellitus & Metabolism	225–234
7916	Bone & Vitamin D	235–248
7917	Thyroid	249–260
7934	Neonatal Outcomes & Follow-up	444–474

3:15pm–5:15pm

## 7865 New/Emerging Therapies for T1DM—Drugs, Devices and Delivery

PAS/LWPES Topic Symposium ~ TCC, Room 718A

Target Audience: General pediatricians, pediatric endocrinologists and nephrologists.

Objectives:

- Understand recent advances in the management of a child with diabetes mellitus
- Appreciate the indications and advantages of newer insulin analogs
- Be cognizant of the ongoing trials for preservation of beta cell function in patients with T1DM
- Familiarize themselves with the state of the art techniques for home glucose monitoring

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Chairs: Margaret Lawson, Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada; and Henry Rodriguez, Indiana University School of Medicine, Riley Hospital for Children, Indianapolis, IN

Advances in basic and applied immunology, pharmacotherapeutics with the advent of "designer" insulins, and bioengineering have revolutionized the care of a child with T1DM. This symposium will discuss the risks/benefits of these newer modalities of treatment and analyze the impact of these advances on the clinical care of a child with T1DM.

**3:15 Preservation of Beta Cell Function in T1DM**

Kevan Herold, Yale School of Medicine, New Haven, CT

**3:55 Devices for Monitoring and Drug Delivery**

Stuart A. Weinzimer, Yale School of Medicine, New Haven, CT

**4:35 Newer Insulins**

Jay S. Skyler, University of Miami School of Medicine, Miami, FL

*Sponsored jointly by the Lawson Wilkins Pediatric Endocrine Society and the Pediatric Academic Societies*

## Additional Programs of Interest

9:00am–11:00am

**5288 Obesity I: General Trends, Prenatal and Early Predictors**

PAS Platform Session ~ TCC, Room 205D

Refer to PAS Daily Programming pages for session content.

12:00pm–3:00pm

**5463 Transgender Youth: The Role of the Pediatrician and Pediatric Endocrinologist**

PAS Workshop ~ TCC, Room 706

Target Audience: Students, residents, pediatric endocrinology fellows, pediatric endocrinology faculty, general pediatricians, adolescent medicine specialists interested in understanding how to care for transgendered youth.

Objectives:

- Learn how healthy psychosocial development in children and adolescents melds with transgender emergence
- Understand how physicians, mental health therapists, families, and schools can cooperate to provide for the needs of transgendered youth
- Learn the options for hormonal therapy and the varying recommendations for age of initiation of hormonal therapy

Leader: Irene Sills; Co-leaders: Norman Spack, Arlene Lev

This workshop is a continuation of last year's workshop on gender-variant youth. We will review gender identity development and healthy transgender emergence. Skills and knowledge needed by primary care doctors will be reviewed. More in-depth education about the following will be provided: 1) Developmental issues specific to the adolescent; 2) The type of mental health evaluation physicians should receive prior to initiating hormonal therapy and the importance of consultation between the mental health therapist and physician; 3) The family and school dilemmas; 4) A review of reversible, partially reversible, and irreversible therapies and their potential side effects; 5) A consideration of the best age to commence hormone therapy; 6) The optimal informed consent to use for medical treatment; 7) Case discussions, role playing, and viewing of videotapes will aid with learning and understanding.

3:15pm–5:15pm

**5715 Genetics / Inborn Errors of Metabolism**

PAS Platform Session ~ TCC, Room 716B

Refer to PAS Daily Programming pages for session content.

3:15pm–5:15pm

**5740 Neonatal Fetal Nutrition & Metabolism I**

PAS Poster Symposium ~ TCC, Room 801B

Refer to PAS Daily Programming pages for session content.

8:00am–10:00am

**6035 Pediatric Subspecialty Fellows as Teachers—Design and Implementation of an Effective Curriculum**

PAS/APPD Mini Course ~ TCC, Room 715B

Target Audience: Attendees involved with fellowship programs.

Objectives:

- List topics that can be covered in a teaching program designed for fellows
- Discuss potential implementation plans at their own institution, using examples provided in the mini-course

Chair: Joseph O. Lopreiato, Uniformed Services University of the Health Sciences, Bethesda, MD

Pediatric Subspecialty Fellowships have a new set of requirements from the ACGME. Among those requirements are specific expectations for fellow education in their role as educators. Fellowship curricula must lead to an understanding of the principles of adult learning, provide skills to allow fellows to participate effectively in curriculum development, delivery of information, provision of feedback to learners, and assessment of educational outcomes. This is a new concept in specialty fellowship education and there are several innovative programs that have years of experience with this, and others with more recent efforts. Fellowship programs with experience in this arena will share their knowledge, materials and experience with attendees in an open and interactive manner. Attendees will leave with information that will allow them to adapt rather than recreate similar formats in their home programs.

**8:00 Introduction**

Joseph O. Lopreiato, Uniformed Services University of the Health Sciences, Bethesda, MD

**8:05 Uniformed Services Fellows as Teachers Program**

Joseph O. Lopreiato, Uniformed Services University of the Health Sciences, Bethesda, MD

**9:05 Johns Hopkins General Pediatrics Fellows as Teachers Program**

Janet R. Serwint, Johns Hopkins University School of Medicine, Baltimore, MD

*Sponsored jointly by the Association of Pediatric Program Directors, Council on Pediatric Subspecialties and the Pediatric Academic Societies*

8:00am–10:00am

**6065 Developmental Interventions and Adult Disease**

PAS Platform Session ~ TCC, Room 703

Refer to PAS Daily Programming pages for session content.



# Lawson Wilkins Pediatric Endocrine Society

10:15am–12:00pm

**6225 APS Presidential Plenary and Awards**  
TCC, Hall F

**10:40 New Member Outstanding Science Award – Unraveling the Function of IGF1Ps**

Pinchas Cohen, Professor and Chief of Endocrinology, Mattel Children's Hospital at UCLA, David Geffen School of Medicine at UCLA, Los Angeles, CA

2:00pm–4:00pm

**6405 Pediatric Fellowships—Assessing and Documenting Scholarship and Clinical Competency**  
PAS/APPD Mini Course ~ TCC, Room 716B

Target Audience: All attendees involved with fellowship programs.

Objectives:

- Coordinate curriculum and assessment methods among multiple subspecialty fellowship programs at their home institution
- Document and assess the scholarly activity of subspecialty residents/fellows
- Document and assess the competency of subspecialty residents/fellows

Chairs: Susan Guralnick, Stony Brook University Medical Center, Stony Brook, NY; and Joseph Gilhooly, Oregon Health & Science University, Portland, OR

Competency-based education is now the standard for both residency and fellowship education. Residency programs have integrated the ACGME Core Competencies into their curricula and assessment methods. Fellowships are now required to function within the “competency” arena, and there is still much to be accomplished, especially in the areas of assessment and documentation. This program will focus on several areas of fellowship education including Competency-based Assessment Tools, Research/Scholarship and the Scholarship Oversight Committee, Educational Portfolios, and Individualized Learning Plans. Attendees are encouraged to bring tools and ideas for discussion and development. Participants should leave with useful materials to bring back to their home programs.

**2:00 Introduction**

Susan Guralnick, Stony Brook University Medical Center, Stony Brook, NY  
Joseph Gilhooly, Oregon Health & Science University, Portland, OR

**2:05 The Fellowship Education Committee**

Susan Guralnick, Stony Brook University Medical Center, Stony Brook, NY

**2:10 Competency-based Assessment Tools**

John D. Mahan, Children's Hospital, The Ohio State University, Columbus, OH

**2:40 Research, Scholarship and the Scholarship Oversight Committee**

Joseph Gilhooly, Oregon Health & Science University, Portland, OR

**3:10 Promoting Lifelong Learning—Individualized Learning Plans and Pedialink**

Cynthia Lynn Ferrell, Oregon Health & Science University, Portland, OR

**3:40 Discussion**

*Sponsored jointly by the Association of Pediatric Program Directors and the Pediatric Academic Societies*

8:00am–10:00am

**7150 Obesity III: Clinical Advances**  
PAS Poster Symposium ~ TCC, Room 801B

Refer to PAS Daily Programming pages for session content.

10:15am–12:15pm

**7355 Neonatal Fetal Nutrition & Metabolism II**  
PAS Poster Symposium ~ TCC, Room 701A

Refer to PAS Daily Programming pages for session content.

3:00pm–5:00pm

**7710 Fetal Origins of Adult Disease**  
PAS Poster Symposium ~ TCC, Room 701B

Refer to PAS Daily Programming pages for session content.

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**Visit the Lawson Wilkins Pediatric Endocrine Society at [www.lwpes.org](http://www.lwpes.org)**

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Novo Nordisk Inc.	711
Pfizer Inc	329
Sandoz Inc.	342
TAP Pharmaceutical Products, Inc.	911
Valera Pharmaceuticals, Inc.	231