

LAWSON WILKINS PEDIATRIC ENDOCRINE SOCIETY

May 1–3, 2010
Vancouver Convention Centre
Vancouver, BC, Canada

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Saturday, May 1

7:00am–8:00am

Meet the Professor Breakfast
Jean-Pierre Chanoine: Controversies in Management of Hyperthyroidism

Stephen Rosenthal: Career Development in Pediatric Endocrinology: What's Next After Fellowship?

8:00am–12:15pm

LWPES Plenary Session I
Blizzard Lecture: Effects of Sport Training on the Neuroendocrine Regulation of Growth and Puberty

Clinical Scholar Awards

Endocrine Highlights of the Year: Thyroid; Growth and Pituitary; Diabetes/Metabolism

10:15am–12:15pm

Topic Symposia
Genomic Variation and Genomic Medicine: A Revolution in Pediatric

1:00pm–2:30pm

Poster Session I & Exhibits
Endocrinology Posters I

2:45pm–4:45pm

Topic Symposia
Challenges in Adolescent Reproductive Health

Neonatal and Infant Hypertension

5:00pm–6:30pm

PAS Opening General Session
President's Welcome
Joseph St. Geme Leadership Award
Keynote Lecture

Sunday, May 2

7:00am–8:00am

Meet the Professor Breakfast
Silva Arslanian: Training for Success: The Essential Ingredients

Linda Dimeglio: Assessment of Bone Health

8:00am–9:15am

LWPES Business Meeting

9:30am–12:15pm

LWPES Presidential Lecture and Plenary Session II
Award Presentations

Presidential Lecture: Dorothy Becker Endocrinology of Protein-Calorie Malnutrition: From Undernutrition to Type I Diabetes Mellitus

Keynote Speaker: Stephanie Amiel Hypoglycemia and the Brain

10:15am–12:00pm

APS Presidential Plenary and Awards

1:00pm–3:00pm

Topic Symposia
Diabetes: Beyond Type 1 & 2
LWPES Workshop
The Challenges of Pediatric Endocrine Practice in a Shifting Economy

3:15pm–5:15pm

State of the Art
Societal Approaches to the Childhood Obesity Epidemic

5:30pm–7:30pm

Poster Session II & Exhibits
Endocrinology Posters II

Monday, May 3

8:00am–10:00am

Topic Symposia
Genetic Mapping in Humans

Gender Dysphoria in Youth: Diagnosis, Management, and Follow-Up Data from a Developmental Perspective

The Brain and Hypertension

10:15am–12:15pm

State of the Art
Media and Technology – Impact on Children, Adolescents and Their Parents

LWPES Original Science Abstract Programs Basic and Clinical

SPR Presidential Plenary and Awards

1:00pm–3:00pm

Topic Symposia
Beyond Growth and Puberty: Sex Hormones and Adolescent Disease

1:00pm–3:00pm

March of Dimes Prize in Developmental Biology Lectures

Mini Course

Telemedicine Program Establishment and Applications in Pediatrics: Improving Quality of Care and Addressing Access Barriers

3:15pm – 5:15pm

Topic Symposia
Endocrine Disruptors: Impact on Child Health
Mini Course
Feeding the LBW Infant after Hospital Discharge: Optimizing Growth, Nutritional Status and Development in Early Childhood

5:30pm–7:30pm

Poster Session III & Exhibits

Tuesday, May 4

Additional Program of Interest

8:00am–10:00am

Topic Symposia
Obesity Starts at Birth – Or Even Before

Continuing Education Credit

is through the PAS.

See page 9 for complete information.

LAWSON WILKINS PEDIATRIC ENDOCRINE SOCIETY

Join us in Vancouver 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 Vancouver Convention Centre.

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. Refer to page 111 of this guide for details. Register by March 4th for substantial savings.

Housing Information

All room reservations should be made through the PAS and not directly with the hotels. LWPES attendees may reserve accommodations at any of the hotels identified on page <<>>. Housing may be reserved online at www.pas-meeting.org or refer to the housing form on page 109.

Contact Information

Contact for LWPES information:

Christy McGinty Levine
LWPES Association Manager
6728 Old McLean Village
McLean, VA 22101
Phone: 703-556-9225, ext. 108
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Contact for housing, registration and general information:

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3400 Research Forest Drive, Suite B-7
The Woodlands, TX 77381
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URL: www.pas-meeting.org

Saturday, May 1

7:00am–8:00am

1020A Career Development in Pediatric Endocrinology: What's Next After Fellowship
LWPES Meet the Professor Breakfast



The breadth of Pediatric Endocrinology offers a great variety of career choices and areas of focus. This informal discussion will explore options and strategies for career development in Pediatric Endocrinology.

Stephen M. Rosenthal
Professor of Pediatrics
Associate Program Director, Pediatric Endocrinology
Director, Pediatric Endocrine Outpatient Services
University of California, San Francisco

Program developed by the Lawson Wilkins Pediatric Endocrine Society

7:00am–8:00am

1025A Controversies in Management of Hyperthyroidism
LWPES Meet the Professor Breakfast

Jean-Pierre Chanoine
Clinical Professor and Head
Endocrinology and Diabetes
British Columbia Children's Hospital
University of British Columbia
Vancouver BC Canada

Program developed by the Lawson Wilkins Pediatric Endocrine Society

8:00am–12:15pm

1295 LWPES Plenary Session I
Vancouver Convention Centre

Blizzard Lecture: Effects of Sport Training on the Neuroendocrine Regulation of Growth and Puberty

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

Introduction, David B. Allen, University of Wisconsin, Madison, WI

Clinical Scholar Awards

Endocrine Highlights of the Year:

Thyroid

Guy J. Van Vliet, University of Montreal, Montreal, Quebec, Canada

Growth and Pituitary

Fernando G. Cassorla, University of Chile School of Medicine, Santiago, Chile

Diabetes/Metabolism

Speaker to be determined

10:15am–12:15pm

1305 Genomic Variation and Genomic Medicine: A Revolution in Pediatric Practice

Topic Symposium ~ Vancouver Convention Centre

Target Audience: Scientists and clinicians practicing general pediatrics, medical genetics, neonatology, hematology & oncology, neurology, and infectious disease.

Objectives:

- Understand the mechanism of microarray technologies and the common genomic variations
- Understand the clinical application of microarray technologies and indications of microarray-based genomic testing
- Understand the impact of genomic variations on human health and diseases and the challenge of data interpretation and genetic counseling

Chair: Marilyn Li, Tulane University Medical School, New Orleans, LA

Genomic variations and their association to human health and disease have generated great interest among researchers, physicians, and the general public. Millions of single nucleotide polymorphisms (SNPs) and thousands of copy number variations (CNVs) have been identified by ever-improving microarray and next-generation sequencing technologies. Clinical application of microarray-based technology has led to significantly higher diagnostic yield compared to standard chromosomal analysis for patients with multiple congenital anomalies, developmental delay, and autism spectrum disorder. The technology has also permitted the delineation of numerous new genetic conditions based on common genomic alterations. Many genomic variations are associated with higher susceptibilities to cancer or infectious pathogens, or with different responsiveness to certain drugs and other treatment regimens. These discoveries are transforming pediatric medicine. This session will describe genomic variations and their impact on human diseases, the indications and limitations of available microarray-based tests, and the challenge of data interpretation and genetic counseling.

10:15 Defining the Role of Genomic Variation in Human Disease: Clinical Application and Associated Challenge

James R. Lupski, Baylor College of Medicine, Houston, TX

- 10:45 Novel Microdeletion Syndromes Detected by Chromosome Microarrays**
Anne M. Slavotinek, University of California, San Francisco, CA
- 11:15 Genomic Variation and Cancer Diagnosis, Prognosis, and Treatment**
Javed Khan, Advanced Technology Center, NCI, NIH, Bethesda, MD
- 11:45 Structural Variation of Chromosomes in Autism Spectrum Disorder**
Stephen Scherer, Hospital for Sick Children, Toronto, ON, Canada

1:00pm–2:30pm

1450 Endocrinology Posters I and Opening Reception
Vancouver Convention Centre

Details will be available in February

Posters Available for Viewing: 1:00pm–4:00pm

Author Attendance and Opening Reception: 1:00pm–2:30pm

1:00pm–4:00pm

Commercial Exhibits Open and Posters Available for Viewing
Vancouver Convention Centre

Posters Available for Viewing: 1:00pm–4:00pm

Author Attendance and Opening Reception: 1:00pm–2:30pm

2:45pm–4:45pm

1605 Challenges in Adolescent Reproductive Health
Topic Symposium ~ Vancouver Convention Centre

Target Audience: Scientists and clinicians, endocrinologists, adolescent medicine, gynecologists, oncologists and practicing pediatricians.

Objectives:

- Understand the differential diagnosis and management of menstrual disorders, including hypothalamic-pituitary-gonadal axis dysfunction, anatomical problems, and disorders of hyperandrogenism
- Understand the mechanism of action and pros and cons of different forms of female contraceptives including oral birth control pills, gels, spermicides, intrauterine devices and depot preparations
- Understand the array of estrogen preparations available for replacement therapy in hypogonadal girls and the effects of route on estrogen effects
- Understand options for fertility preservation in young patients with cancer

Chair: Judith L. Ross, Jefferson Medical College, Philadelphia, PA

Abnormalities in the menstrual cycle (including functional hypothalamic amenorrhea) and the need for contraception are common reasons for medical consultation in adolescent girls. Much progress has been made towards understanding the neuroendocrine mechanisms that regulate this process. This session will provide a systematic approach to the evaluation and management of menstrual disorders and offer a detailed discussion of current contraceptive options. The choices available for contraception, from birth control pills - including triphasic pills and pills containing androgen antagonists (e.g., drospiridone), to mechanical devices and depot implants all have specific pros and cons that must be understood by prescribing providers of young adolescents. In addition, studies on the type, dose and route of administration of estrogen in hypogonadal girls such as those with Turners syndrome that shed light into whether or not there are true differences in effects depending on route of administration, an area of great contemporary importance. Lastly, the progress in oocyte preservation and future prospects for fertility preservation in young women exposed to gonadotoxic therapy will be discussed.

- 2:45 Menstrual Disorders in Adolescents: Approach to Diagnosis and Treatment**
Catherine M. Gordon, Children's Hospital, Boston, Boston, MA
- 3:15 New Hormonal and Non-Hormonal Contraceptive Options**
Paula Hillard, Stanford University School of Medicine, Stanford, CA
- 3:45 Estrogen Therapy in Hypogonadism: Does Type, Route, and Dose Matter?**
Nelly Mauras, Nemours Children's Clinic, Jacksonville, FL
- 4:15 Novel Strategies To Preserve Reproductive Potential in Young Cancer Survivors: From Bench to Bedside**
David M. Lee, Doernbecher Children's Hospital, Portland, OR,

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

2:45pm–4:45pm

1620 Neonatal and Infant Hypertension
Topic Symposium ~ Vancouver Convention Centre

Target Audience: Clinicians involved with the care of newborns and infants with hypertension

Objectives:

- Appreciate normative blood pressure data in newborns and infants and how to assess these data in the context of different measurement techniques
- Assess both the risks and benefits of antihypertensive medications (CCBs and ACE-inhibiting medications) in neonates and infants
- Evaluate the management of hypertension in NICU graduates and
- Understand the impact of the maternal treatment of hypertension as a risks to the developing fetus

Chairs: Julie R. Ingelfinger, Massachusetts General Hospital, Boston, MA and Tej K. Mattoo, Children's Hospital of Michigan, Detroit, MI

This symposium will focus on hypertension in the neonate and infant. Assessing blood pressure and normative data may be challenging in the neonate and infant, as there is a need to take into account gestational age as well as chronologic age for these patients. The risks and benefits of pharmacologic therapy will be discussed as well, given that the premature infant or young infant is still undergoing nephrogenesis and maturation of a number of systems including the renin-angiotensin system. There may also be factors impacting the fetus carried by a mother who has hypertension. Many of those infants diagnosed as neonates will eventually have resolution of their hypertension, but until they do, there is a need to optimize follow-up while minimizing risks.

- 2:45 Normative Data and How To Assess Blood Pressure in the Neonate**
Janis Dionne, British Columbia Children's Hospital, Vancouver, BC, Canada
- 3:10 Antihypertensives and Neonates: Risks and Benefits: ACEIs and CCBs**
Douglas L. Blowey, Children's Mercy Hospital, Kansas City, MO
- 3:35 Management of Hypertension in NICU Graduates**
Joseph T. Flynn, Seattle Children's Hospital, Seattle, WA
- 4:00 Maternal Treatment of Hypertension: Risks to Fetus**
Gideon Koren, The Hospital for Sick Children, Toronto, ON, Canada
- 4:25 Discussion**

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

5:00pm–6:30pm

1800 PAS Opening General Session
Vancouver Convention Centre

Presidents Welcome, Joseph St. Geme Leadership Award, Kenote Lecture

Sunday, May 2

7:00am–8:00am

2028 Endocrinology: Assessment of Bone Health
PAS Meet the Professor
Breakfast



We will review strategies for the diagnosis and continuing management of pediatric patients either at risk of or with established osteoporosis. We will use a case-based approach to facilitate group discussions about the use of relevant historical, laboratory, and radiologic data. Participants are encouraged to bring patient cases from their own institutions.

Linda A. DiMeglio
Associate Professor of Pediatrics
James Whitcomb Riley Hospital for Children
Indiana University School of Medicine Indianapolis, IN

2030 Endocrinology: Training for Success: The Essential Ingredients

PAS Meet the Professor
Breakfast



We will focus on how to succeed in academic medicine. Discussions will involve finding mentors, selecting the research questions, developing a training and career plan, managing time and stress, identifying funding agencies, grant writing, and publishing results.

Silva Arslanian

Richard L. Day Professor of Pediatrics.
University of Pittsburgh, School of Medicine
Director, Pediatric Clinical and Translational Research Center
Director, Weight Management and Wellness Centre
Children's Hospital of Pittsburgh of UPMC
Pittsburgh, PA

8:00am–9:15am

2070A LWPES Business Meeting

9:30am–12:15pm

2300 LWPES Presidential Lecture and Plenary Session II

Vancouver Convention Centre

LWPES**Award Presentations****Presidential Lecture: Endocrinology of Protein-Calorie Malnutrition: From Undernutrition to Type I Diabetes Mellitus**

Dorothy J. Becker, Childrens Hospital of Pittsburgh of UPMC, Pittsburgh, PA

Keynote Address: Hypoglycemia and the Brain

10:15am–11:45am

2305 APS Presidential Plenary and Awards

Vancouver Convention Centre

1:00pm–3:00pm

2612 Diabetes: Beyond Type I & 2

Topic Symposium ~ Vancouver Convention Centre

Target Audience: Endocrinologists, geneticists, general pediatricians.

Objectives:

- Understand which individuals should be screened for genetic forms of DM
- Improve their ability to diagnose and manage monogenic causes of DM
- Understand the mechanisms underlying these conditions

Chairs: Joseph I. Wolfsdorf, Children's Hospital Boston, Boston, MA and Cem Demerci, Connecticut Children's Medical Center, Hartford, CT

Monogenic forms of diabetes yield critical insights into the mechanisms of glucose control. Identification of individuals with non-type 1/non-type 2 DM may have implications for specific targeted therapeutic approaches and long-term prognosis. This session will provide new insights on genetic defects along the pathway of insulin action and signaling that can lead to disruption of glucose control.

1:00 Monogenic Diabetes: When To Screen and How To Treat

Diva D. De León-Crutchlow, The Children's Hospital of Philadelphia, Philadelphia, PA

1:30 Neonatal Diabetes: Channelopathies and Beyond

Siri Atma W. Greeley, University of Chicago, Chicago, IL

2:00 Mitochondrial Diabetes

Douglas Wallace, Center for Molecular and Mitochondrial Medicine and Genetics (MAMMAG), University of California, Irvine, CA

2:30 Lipodystrophies

Abhimanyu Garg, University of Texas Southwestern Medical Center, Dallas, TX

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

1:00pm–3:00pm

2693A The Challenges of Pediatric Endocrine Practice in a Shifting Economy

LWPES Workshop ~ Vancouver Convention Centre

Objectives:

- To help the practicing pediatric endocrinologist understand the role of reimbursement in practice
- To demonstrate the cost of managing specific endocrine disorders
- To help improve the cost effectiveness of health care delivery

Leader: Paul Thornton; Co-Leaders: Jerrold S. Olshan, William B. Zipf, Georgeanna J. Klingensmith

A survey of the Pediatric Endocrine and Diabetes community by the LWPES in 2009 showed that education in practice management was lacking and that it was in the top 5 perceived needs of the respondents. This need is even greater in the current political environment in which cost containment without quality cuts has become so important. This workshop is designed to help participants understand the rapidly changing environment in which we are currently practicing and provide pediatric endocrinologists with the tools to successfully adapt to these challenges.

Program developed by the Lawson Wilkins Pediatric Endocrine Society

3:15pm–5:15pm

2705 Societal Approaches to the Childhood Obesity Epidemic

State of the Art Plenary ~ Vancouver Convention Centre

Target Audience: Pediatricians, nurses, and ancillary health workers, epidemiologists, ethicists, nutritionists, generalists, subspecialists involved with obesity.

Objectives:

- Determine the methods for community/global intervention, their cost, and their likelihood of success
- Understand the similarities between obesity and other societal abuses; e.g. smoking, alcoholism
- Determine the role of third parties; e.g. health providers, insurance, and the food industry in obesity prevention measures

Chairs: Robert H. Lustig, University of California, San Francisco, CA and Thomas A. Wilson, State University of New York, Stony Brook, NY

Childhood obesity continues to be epidemic. A societal/public health approach is considered by many to be a rational method for prevention. The speakers will address the role of the child, individual, and society in the promulgation of this epidemic, public health methods such as restriction and taxation for reducing obesity by decreasing caloric consumption, and the response of the food industry to such proposed measures.

3:15 Personal Responsibility in Childhood Obesity; a Non-Sequitur?

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

3:20 Obesity: Personal Choice or Public Health Issue

Daniel Wikler, Harvard School of Public Health, Boston, MA

3:45 A Public Health Approach to Obesity: Lessons from Tobacco

Arthur Garson, Jr., University of Virginia, Charlottesville, VA

4:10 Sugar Addiction and Public Policy

Laura Schmidt, University of California, San Francisco, CA

4:35 On-Stage Discussion**4:50 Discussion-Audience Participation**

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

4:00pm–7:30pm

Commercial Exhibits Open and Posters Available for Viewing

Vancouver Convention Centre

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

Author Attendance: 5:30pm–7:30pm

5:30pm–7:30pm

Endocrinology Poster Session II

Vancouver Convention Centre

Details will be posted in February

Monday, May 3

8:00am–10:00am

3050 Genetic Mapping in Humans

State of the Art Plenary ~ Vancouver Convention Centre

Target Audience: Scientists and clinicians, including practicing general pediatricians, specialists, geneticists, and genetic counselors.

Objectives:

- Understand that most childhood diseases have a strong genetic basis and many are polygenic (influenced by the combined effects of many different genetic variants)
- Recognize that different types of genetic variants contribute to disease, and to understand the methods that are used to map each type of genetic variant
- Understand the impact of new genetic tools on disease gene mapping such as genome-wide searches for copy number variation, genome-wide association studies, and next-generation sequencing
- Understand the likely impact of genetic discoveries for prediction and for leading to biological insights

Chairs: Joel N. Hirschhorn, Children's Hospital Boston, Boston, MA and Jeffrey C. Murray, University of Iowa, Iowa City, IA

The last few years have seen a revolution in human genetics. Genome-wide association studies have identified hundreds of genetic loci that contribute to common diseases and traits. Genome-wide searches for alterations in copy number have uncovered structural variants that contribute to diseases such as autism and schizophrenia. These discoveries have opened new windows into human biology and may be the first steps on potential therapeutic paths for several diseases. Next generation sequencing promises to enable the discovery of rare sequence variants that increase or decrease the risk of disease. Despite this rapid progress, only a small fraction of the inherited risk of most diseases has been accounted for. Questions remain as to what method(s) will be most fruitful in mapping additional disease gene variants that account for the remaining genetic risk, and whether genetic data will provide predictive information that is clinically useful for common, polygenic diseases.

8:00 Gene Mapping for Polygenic Traits Using Association Studies and Sequencing

Joel N. Hirschhorn, Children's Hospital, Boston, Boston, MA

8:30 Mapping of Genes for Neonatal Phenotypes

Jeffrey C. Murray, University of Iowa, Iowa City, IA

9:00 Homozygosity Mapping, Exon Capture and NextGen Sequencing To Discover New Pediatric Disease Genes

Friedhelm Hildebrandt, University of Michigan, Ann Arbor, MI

9:30 Genomic Disorders

James R. Lupski, Baylor College of Medicine, Houston TX

8:00am–10:00am

3065 Gender Dysphoria in Youth: Diagnosis, Management, and Follow-Up Data from a Developmental Perspective

Topic Symposium ~ Vancouver Convention Centre

Target Audience: General pediatricians, Adolescent Medicine Specialists, Developmental and Behavioral Pediatricians, Endocrinologists.

Objectives:

- Understand the diagnostic criteria for gender identity disorder in childhood and adolescence
- Discuss therapeutic approaches for the diagnosis and care of youth with gender dysphoria
- Implement management strategies for transgender children and adolescents

Chairs: Tom Mazur, SUNY Buffalo School of Medicine, Buffalo, NY and Daniel L. Metzger, British Columbia's Children's Hospital, Vancouver, BC, Canada

The exact incidence and prevalence of gender dysphoria in children, adolescents, and adults are not known. No formal epidemiological studies have been conducted. Yet, in recent years, awareness of gender identify disorders has increased for both professionals and the lay public, due, in part, to mass media attention to this topic, especially in prepubertal children and adolescents. Increased general awareness and tolerance have resulted in more individuals seeking medical help. Consequently, pediatricians, pediatric endocrinologists, and adolescent medicine physicians are starting to see more children and adolescents with signs and symptoms of gender dysphoria. This program will acquaint professionals with the diagnostic criteria, natural history and long-term follow-up of children and adolescents with gender dysphoria and will elaborate on potential therapeutic options and approaches, including the use of GnRH agonists as an assessment tool.

8:00 Introduction and History of Gender Dysphoria in Children and AdolescentsTom Mazur, SUNY Buffalo School of Medicine, Buffalo, NY
Daniel L. Metzger, British Columbia's Children's Hospital,
Vancouver, BC, Canada**8:05 History of GID and Developmental Trajectories of GID Children**Kenneth Zucker, Center for Addiction and Mental Health, University
of Toronto, Toronto, ON, Canada**8:45 GnRHs: Why, for Whom, When, Follow-Up Data**Peggy Cohen-Kettenis, Medical Psychology, VU University Medical
Center, Amsterdam, The Netherlands**9:25 Experience with Hormonal Therapy in Transgender Adolescents**

Norman Spack, Children's Hospital Boston, MA

9:50 Discussion*Program developed by the Lawson Wilkins Pediatric Endocrine Society,
Society for Adolescent Medicine and the Pediatric Academic Societies*

8:00am–10:00am

3080 The Brain and Hypertension

Topic Symposium ~ Vancouver Convention Centre

Target Audience: Clinicians caring for children with hypertension and those at risk for development of hypertension due to medications that affect the central nervous system.

Objectives:

- Recognize the impact of hypertension on neurocognition and the brain
- Understand the effects that ADHD medications have on blood pressure and the risk for hypertension
- Appreciate the central nervous system effects of antihypertensive medications
- Recognize the short and long term outcomes of hypertensive encephalopathy

Chairs: Kevin Meyers, Children's Hospital of Philadelphia, Philadelphia, PA and Donald L. Batsky, Emory Children's Center, Atlanta, GA

The primary focus of this symposium will be on effects of hypertension on the brain and central nervous system as a target organ. Various aspects of the effects of hypertension on the brain in the pediatric population will be explored, such as neurocognition in the patient with hypertension. Some therapies for conditions affecting the central nervous system such as stimulant therapy in attention deficit disorders may result in elevated blood pressure, so it is important to recognize these factors. There are a number of centrally active antihypertensives that will be reviewed, and one of the more dramatic results of hypertension, PRES (posterior reversible encephalopathy syndrome) as a manifestation of hypertensive encephalopathy, will be discussed as well.

- 8:00 Neurocognition and the Brain in Hypertension**
Marc Lande, Golisano Children's Hospital at Strong Pediatrics, Rochester, NY
- 8:25 ADHD Medications and Hypertension**
Paul Hammerness, Massachusetts General Hospital, Cambridge, MA
- 8:50 Central Effects of Antihypertensives**
Debra Diz, Hypertension and Vascular Research Center, Wake Forest University, Winston-Salem, NC
- 9:15 A PRESing Matter: Posterior Reversible Encephalopathy Syndrome And Hypertension: Resolved and Unresolved Issues**
Kenji Ishikura, Tokyo Metropolitan Kiyose Children's Hospital, Tokyo, Japan
- 9:40 Discussion**

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

10:15am–12:15pm

- 3250 SPR Presidential Plenary and Awards**
Vancouver Convention Centre

10:15am–12:15pm

- 3255 Media and Technology – Impact on Children, Adolescents and Their Parents**
State of the Art Plenary ~ Vancouver Convention Centre

Target Audience: Clinicians involved with babies, children, and teens and scientists and psychologists providers involved in public health or health education.

Objectives:

- Identify major areas of concern regarding the impact of media and technology (including popular social networking sites) on children and adolescents
- Understand current public health efforts to integrate media and technology toward improving health care access, information and education
- Identify potential solutions to avoiding harmful media

Chairs: Victor C. Strasburger, University of New Mexico School of Medicine, Albuquerque, NM and Megan A. Moreno, University of Wisconsin, Madison, WI

According to the latest studies, the media and new technology (including social networking sites) may have a significant impact on virtually every concern that pediatricians and parents have about children and adolescents – aggression, drugs, sex, obesity, eating disorders, school performance, suicide, even ADD. This session will review the current state-of-the-art research on media and new technology, including very new research on infant videos, smoking and drinking in movies, sexual content and its impact, popular social networking sites and sexting. Examples of potentially problematic content on TV and movies will be shown, as well as examples of pro-social media. Topic areas will include: Media Violence, Sex & the Media, Drugs, Advertising, Obesity & Eating Disorders, New Technology, What the Pediatrician Can Do, What Schools, the Entertainment Industry, and the Federal Government Need to Do. Attendees will learn how to counsel parents effectively about media effects in less than a minute of office time. New strategies to use media and technology for public health benefit will be discussed.

- 10:15 Children, Adolescents and the Media**
Victor C. Strasburger, University of New Mexico School of Medicine, Albuquerque, NM
- 10:20 Children, Adolescents, & the Media: What We Know, What We Don't Know, and What We Need To Find out (Quickly!)**
Victor C. Strasburger, University of New Mexico School of Medicine, Albuquerque, NM
- 11:10 New Media (Social Networking Sites – Good and Bad)**
Megan A. Moreno, University of Wisconsin, Madison, WI

- 11:40 Extending Public Health Interventions Using Social Media**
Jason Bonander, Centers for Disease Control and Prevention, Atlanta, GA

- 12:00 Discussion**

Program developed by the Society for Adolescent Medicine and the Pediatric Academic Societies

10:15am–12:15pm

- 3285 PAS/LWPES Original Science Abstract Programs: Basic Research**
Vancouver Convention Centre

Platform Sessions and Poster Symposia details will be available in February

10:15am–12:15pm

- 3290 PAS/LWPES Original Science Abstract Programs: Clinical Research**
Vancouver Convention Centre

Platform Sessions and Poster Symposia details will be available in February

1:00pm–3:00pm

- 3345 Beyond Growth and Puberty: Sex Hormones and Adolescent Disease**
Topic Symposium ~ Vancouver Convention Centre

Target Audience: Endocrinologists, adolescent medicine physicians, immunologists, neurologists, psychiatrists, general pediatricians.

Objectives:

- Understand the actions of androgen and estrogen as immune modulators
- Understand the effects of sex hormones on the CNS and psychosis
- Understand the effects of sex hormones on bone, adipose tissue, and gonads

Chairs: Mark R. Palmert, University of Toronto, The Hospital for Sick Children, Toronto, ON, Canada and Charles E. Irwin, University of California, San Francisco, CA

Androgens and estrogens affect many physiologic processes aside from growth and puberty; making adolescence a vulnerable period for behavioral and medical concerns. Sex steroids alter susceptibility to autoimmune disease, affect CNS myelination and predisposition to mental illness, and promote calcium accretion and impact osteoporosis and fracture risk. Gonadal dysfunction and alterations in secretion of sex steroids are associated with menstrual disorders, infertility, and obesity. The molecular mechanisms underlying some of these sex steroid actions will be discussed along with implications for therapeutic strategies.

- 1:00 Sex Hormones and Autoimmunity**
Robert Lahita, Newark Beth Israel Medical Center, Newark, NJ
- 1:30 Sex Steroid Effects on the CNS and Adolescent Mental Illness**
Peter Schmidt, National Institute of Mental Health, National Institutes of Health, Bethesda, MD
- 2:00 Sex Steroids and Bone Health**
Jeffrey Baron, National Institutes of Health, Bethesda, MD
- 2:30 Sex Steroids, Insulin Resistance, and the Polycystic Ovary Syndrome**
Andrew Alan Bremer, University of California, Davis Children's Hospital, Sacramento, CA

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

1:00pm–3:00pm

- 3350 March of Dimes Prize in Developmental Biology Lectures**
Vancouver Convention Centre

1:00pm–3:00pm

3365 Telemedicine Program Establishment and Applications in Pediatrics: Improving Quality of Care and Addressing Access Barriers

Mini Course ~ Vancouver Convention Centre

Target Audience: Specialists faculty/researchers at tertiary centers interested in telemedicine, practitioners in rural and remote facilities and hospital and program administrators.

Objectives:

- Knowledge of the types of telemedicine technology available for providing specialty care to patients in rural/underserved areas
- Ability to explore own resources for establishing a sustainable telemedicine program/service,
- Knowledge of the benefits and pitfalls of this technology
- Specific applications and data available on outcomes

Chairs: James Marcin, University of California, Davis, Sacramento, CA and Madan Dharmar, University of California, Davis, Sacramento, CA

The minicourse will focus on the successes and pitfalls associated with implementation of telemedicine to provide healthcare to rural and remote, underserved populations. It should include an introductory didactic presentation describing the basics of telemedicine including a brief technical description of telemedicine. Examples of current clinical programs should be presented. Discussion on these telemedicine programs' effect on quality of care, financial viability, sustainability, and benefits to rural communities should be discussed.

The UC Davis Children's Hospital and the Center for Health and Technology at the UC Davis Medical Center are international leaders in telemedicine and telehealth. The Department of Pediatrics has more than 11 years of experience providing specialty consultations to children in outpatient clinics, child abuse sites, Emergency Departments, and Intensive Care Units to assist underserved providers in the care of children with special healthcare needs, those victims of physical and sexual abuse, and acute illness or injury.

1:00 Overview of Pediatric Telehealth

James P. Marcin, University of California, Davis, Sacramento, CA
Madan Dharmar, University of California, Davis, Sacramento, CA

1:10 Telemedicine Technology

Juan Trujano, University of California, Davis, Sacramento, CA

1:30 Child Abuse and Telemedicine

Cathy Boyle, University of California, Davis, Sacramento, CA

1:50 Pediatric Obesity and Telemedicine

Ulfat Shaikh, University of California, Davis, Sacramento, CA

2:10 Telemedicine Program Planning and Administration

Candace Sadorra, University of California, Davis, Sacramento, CA

2:30 Pediatric Inpatient Telemedicine

Madan Dharmar, University of California, Davis, Sacramento, CA

2:50 Discussion

3:15pm–5:15pm

3467 Endocrine Disruptors: Impact on Child Health

Topic Symposium ~ Vancouver Convention Centre

Target Audience: Epidemiologists, general pediatricians, adolescent medicine specialists, endocrinologists, public health officials.

Objectives:

- Understand the types and sources of compounds that have endocrine disrupting properties and their mechanisms of action
- Distinguish between health effects of low dose and high dose EDC exposures
- Translate animal toxicology studies to human health consequences
- Counsel patients on exposure risks based upon currently available human data

Chair: Catherine S. Mao, Harbor-UCLA Medical Center, LA BioMed Research Institute, Torrance, CA

Wildlife and accidental exposures have revealed endocrine disrupting effects of synthetic and natural compounds that have detrimental health consequences. These compounds can inhibit or augment the activity of endogenous hormones to disrupt endocrine signaling systems. EDCs are speculated to play a role in the world-wide trends toward earlier pubertal onset and the epidemic of obesity. This program will review the recent data on health effects of EDCs, focusing on low dose environmentally relevant exposures and their effects on growth, reproductive development, obesity, and diabetes mellitus. These talks will highlight epidemiologic data and exposure studies that demonstrate the effects of common compounds such as bisphenol-A and phthalates on child health.

3:15 Endocrine Disrupting Chemicals (EDCs) – An Overview

Catherine S. Mao, Harbor-UCLA Medical Center, LA BioMed Research Institute, Torrance, CA

3:25 Lessons Across Species – From Frogs to Boys

Christine L. Ternand, Children's Hospitals and Clinics of Minnesota, St. Paul, MN

3:55 Impact on Sex Differentiation and Puberty

Mary M. Lee, University of Massachusetts Medical School, Worcester, MA

4:25 Contributions to the Obesity and Diabetes Epidemic

Retha Newbold, Toxicology Branch, National Institute of Environmental Health Sciences, Research Triangle Park, NC

4:55 Discussion

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

3:15pm–5:15pm

3475 Feeding the LBW Infant after Hospital Discharge: Optimizing Growth, Nutritional Status and Development in Early Childhood

Mini Course ~ Vancouver Convention Centre

Target Audience: Neonatologists and pediatricians caring for LBW infants.

Objectives:

- To improve the nutritional support for those who care for LBW infants after hospital discharge, including:
- Become familiar with the best approaches to feeding after discharge to optimize growth/development and overall health, whether utilizing human milk or human milk substitutes
- Recognize the importance of body composition differences early in infancy and risk factors for childhood obesity in the LBW population
- Learn new nutritional strategies for the progression of complementary feeding that better meet nutritional requirements and more favorably impact on immune function and the prevalence of atopic disease

Chairs: Frank R. Greer, University of Wisconsin School of Medicine and Public Health, Madison, WI and Ellen Demerath, University of Minnesota School of Public Health, Minneapolis, MN

LBW infants leave the hospital well below the expected growth centiles. However, feeding the LBW infant after hospital discharge remains a dilemma, as limited evidence for guidelines exist. For this at risk group, new information now more clearly defines the nutritional challenges to providing optimal growth and its subsequent impact on health during the life course. The concept of catch-up growth and the optimal velocity of postdischarge growth remain controversial as does their relationship to later obesity or altered body composition. Breast milk is not necessarily the "gold standard" for meeting the nutritional requirements of these infants, and there has been a proliferation of available breast milk substitutes. There are new ideas about the ideal body composition and controversy over the increased use of growth hormone therapy in these subjects. Research continues to demonstrate the importance of key nutrients such as macronutrient content, vitamin D, calcium and iron on growth, development, and immune function, as well as how to assess their deficiency state. As these infants progress from human milk and formula to complementary foods, it is clear that the time honored progression of complementary feeding from infant cereals to fruits and vegetables is not best suited to meet the predictable nutrient deficiencies and needs of these infants. Selection of complementary foods should be biological, not traditional. Related to complementary feeding, it is also clear that there are early nutritional

influences that are critical to development of immune function and prevention of atopic disease later in childhood that include vitamin D intake, probiotics, and timing of the exposure to various food allergens.

- 3:15 New Approaches to Feeding the LBW Infant the First Year of Life**
Ellen Demerath, University of Minnesota School of Public Health, Minneapolis, MN
- 3:20 Optimizing Infant Growth Rate: What We Need To Know**
Linda Adair, University of North Carolina, Chapel Hill, NC
- 3:45 Growth of LBW Infants into Childhood: Expectations and Realities**
Stephanie Atkinson, McMaster University, Hamilton, ON, Canada
- 4:10 Complementary Feeding: Biology Versus Tradition**
Nancy F. Krebs, University of Colorado Denver, Aurora, CO
- 4:35 Early Nutritional Interventions To Optimize Immune Function and Prevent Atopic Disease**
Frank R. Greer, University of Wisconsin School of Medicine and Public Health, Madison, WI
- 5:00 Discussion**

5:30pm–7:30pm

Poster Session III

Vancouver Convention Centre

Details will be available in February

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

Author Attendance: 5:30pm–7:30pm

Additional Program of Interest

Tuesday, May 4

8:00am–10:00am

4112 Obesity Starts at Birth – Or Even Before

Topic Symposium ~ Vancouver Convention Centre

Target Audience: Neonatologists, general pediatricians, endocrinologists, gastroenterologists, geneticists, epidemiologists.

Objective:

- Address early mechanisms and practices that may influence childhood obesity

Chairs: Matthew William Gillman, Harvard Medical School/Harvard Pilgrim Health Care, Boston, MA and Sherin U. Devaskar, University of California, Los Angeles, CA

The speakers in this session will address mechanisms and the influence of feeding and weight gain during early infancy and perhaps even before birth on the subsequent development of Childhood Obesity. The session spans studies in animal models to clinical trials addressing the subject matter at hand. Pediatricians and Subspecialists will be informed of the latest developments in this field of study including presentation of the latest Institute of Medicine Recommendations on weight gain and obesity.

8:00 Central Regulation of Energy Balance – Mechanisms

Sherin U. Devaskar, University of California, Los Angeles, CA

8:40 Infant Feeding – A Prelude to Childhood Obesity

Michael S. Kramer, Montreal Children's Hospital, McGill University, Montreal, QC, Canada

9:20 Infant Weight Gain – Influence on Obesity

Matthew William Gillman, Harvard Medical School/Harvard Pilgrim Health Care, Boston, MA

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