

8:00am–10:00am

**Subspecialties/Themes**

PAS Original Science Abstract Sessions

Original Science Abstract Programs  
(Set in February 2005)

8:00am–10:00am

**7100 Endocrine Controversies and the Role of Hormone Replacement/Treatment in the NICU/PICU**

PAS/LWPES Topic Symposium

*Chairs: Ram Menon, University of Michigan, Ann Arbor, MI; and Mitchell Geffner, Children's Hospital of Los Angeles, Los Angeles, CA*

Much remains unknown about the physiology involved in transition from intra-uterine to extra-uterine life in the premature or full-term infant. Many strategies have been employed to manipulate the hormonal milieu of some of our sickest patients. Assuming adrenal insufficiency in a critically ill neonate has become fairly routine, despite precious few data. This symposium draws on the expertise of endocrinologists and neonatologists and will enlighten the attendees to some of the practical clinical controversies that exist in these patients.

*Target Audience: Neonatologists, critical care doctors and endocrinologists.***Impact of Glucocorticoids on Brain Development**

Charles R. Macias Neal, University of Hawaii, John A. Burns School of Medicine, Honolulu, HI

**Sick Euthyroid—Should It Be Treated?**

Edmund F. La Gamma, New York Medical College, Westchester Medical Center, Valhalla, NY

**Adrenal Insufficiency in the PICU/NICU**

Delia M. Vazquez, University of Michigan Medical School, Ann Arbor, MI

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

8:00am–10:00am

**7101 Inner-City Asthma Intervention Program: Research to Practice**

PAS Topic Symposium

*Chair: Pamela R. Wood, University of Texas Health Sciences Center at San Antonio, San Antonio, TX*

The National Cooperative Inner City Asthma Intervention (NCICAIS) is an asthma counselor (AC), social-worker-driven intervention for inner-city children with persistent asthma. Although the AC intervention was shown to decrease symptom days in a randomized, controlled trial, there were no data on implementation of this intervention outside the research setting. In 2001, the Centers for Disease Control and Prevention funded a 4-year program to implement the asthma counselor model in 22 sites. This “research to practice” session will explore lessons learned through the implementation process and the implications for researchers, clinicians and policy makers.

*Target Audience: General pediatricians, pulmonologists, allergists and other health professionals who care for children with asthma; health services researchers; and program planners.***Introduction**

Pamela R. Wood, University of Texas Health Sciences Center at San Antonio, San Antonio, TX

**NCICAIS Intervention: Differences Between Research and Clinical Settings**

Meyer Kattan, Mount Sinai School of Medicine, New York, NY

**Asthma Risk Factor Assessment: What Are the Needs of Inner-City Families?**

Karen Warman, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY

**The Asthma Counselor Speaks: Barriers and Successes**

Laudy Rodriguez, Mount Sinai Medical Center, New York, NY

**Who Should Pay for Asthma Interventions? Case Studies**

Jay M. Portnoy, Children's Mercy Hospital, Kansas City, MO

8:00am–10:00am

**7102 Transitioning Pediatric Patients to Adult Care**

PAS/ASPN Hot Topic

*Chair: Sandra L. Watkins, University of Washington, Seattle, WA*

Transitions are a part of everyone's life experience. Most young people with special health care needs and disabilities (SHCN/D) become independent members of adult society, but some need deliberate guidance and support. With increasing success in reducing the mortality of once devastating pediatric diseases, the latter group is growing in number. A new consensus statement from the American Academy of Pediatrics and the U.S. Federal Government (Healthy People 2010) has focused attention on the need to assist young people with SHCN/D in attaining their potential in adulthood. This symposium will discuss the growing number of young people with SHCN/D and present approaches for effecting these transitions. Specific disease-related examples will be used to highlight the issues, the barriers and the key elements of successful programs that transition patients from pediatric care to the adult system.

Visit the PAS Website at [www.pas-meeting.org](http://www.pas-meeting.org) for further details on this program.*Sponsored jointly by the American Society of Pediatric Nephrology and the Pediatric Academic Societies*

8:00am – 10:00am

**7180A Birth Asphyxia:  
A Review of the Clinical Problem**

The Programme for Global Paediatric Research

*Chair: Zulfiqar Bhutta, The Aga Khan University, Karachi, Pakistan*

**Introduction and Overview**

Anthony M. Costello, Centre for International Child Health, Institute of Child Health, International Perinatal Care Unit, Great Ormond St. Hospital, London, United Kingdom

**Pathophysiology of Birth Asphyxia**

Joseph Volpe, Department of Pediatrics, Harvard University, Boston, U.S.A.

**Prevention and Treatment of Birth Asphyxia**

Ola Saugstad, Rikshospitalet University Hospital, Oslo, Norway

**Outcome Studies in Birth Asphyxia**

Saroj Saigal, McMaster University, Hamilton, Canada

8:45am – 11:45am

**7200 Developing a Package To Promote  
Culturally Competent Health Care**

PAS Educational Workshop

*Leader: Cynthia W. DeLago, Philadelphia, PA; Co-leaders: Pierre P. Chanoine, Robert S. McGregor, Nancy D. Spector*

Promoting cultural competency in resident training prepares residents to meet the needs of our diverse population. The focus of this workshop is to introduce a process of planning, implementing and evaluating a comprehensive curriculum designed to help residents develop interpersonal and communication skills that will facilitate delivery of culturally effective health care. The competencies for 'Delivery of Culturally Effective Care' proposed by The Anne E. Dyson Community Pediatrics Training Initiative Curriculum Committee will be discussed in the context of this curriculum. Participants will be introduced to different models and methodologies to promote cultural competency in health care delivery and then will generate a systematic approach to fit their own program needs.

Objectives:

- Describe a systematic approach to promote cultural competency in residency training.
- Develop methodologies to plan, implement and evaluate a curriculum to promote cultural competency.

*Target Audience: Junior faculty, mid-level faculty.*

8:45am – 11:45am

**7201 Developing Community–Academic  
Partnerships To Enhance Pediatric  
Education**

PAS Educational Workshop

*Leader: Earnestine Willis, Milwaukee, WI; Co-leaders: Matilde M. Irigoyen, Laura Jean Shipley, Sarah Stelzner, Elisa A. Zenni*

Ten residency-training programs across the country, recognized as the Anne E. Dyson Community Pediatrics Training Initiative, have investigated how to enhance graduate medical education for pediatricians to directly improve the health of children. These diverse programs have partnered with community-based organizations (CBOs) to develop innovative service learning experiences for pediatric residents. This workshop will engage participants and facilitators in sharing examples of effective community–academic partnerships that contribute to the knowledge, skills and attitudes of pediatric residents for community and public health improvement.

Objectives:

- To identify strategies for building community–academic partnerships that promote cross-cultural education experiences for pediatric residents
- To identify the lessons learned from implementing community–pediatric partnerships in residency program from five residency sites across the nation.

Method of Instruction: An interactive format of question and answer, with use of specific case studies/examples from the five residency sites represented to highlight challenges and solutions experienced.

*Target Audience: Trainee, junior faculty, mid-level faculty, senior faculty.*

8:45am – 11:45am

**7202 Documenting Competency in Practice-Based  
Learning and Improvement**

PAS Educational Workshop

*Leader: Timothy R. Shope, Portsmouth, VA; Co-leaders: Gregory S. Blaschke, Joseph O. Lopreiato*

This workshop will teach participants to recognize existing or create new resident educational experiences that meet the Practice-Based Learning and Improvement (PBL & I) competency. We will also explore methods for evaluating the PBL & I competency. Participants will have an opportunity to design PBL & I tools for their own residency educational settings. Participants will also be given examples and ready-to-use tools that can be applied to a variety of settings. A mini-didactic session will be followed by interactive small and large group sessions.

Objectives:

- To recognize existing and create new resident educational experiences that meet the Practice-Based Learning and Improvement (PBL & I) competency.
- To design and implement efficient and useful evaluation tools for assessing resident PBL & I.

*Target Audience: Junior faculty, mid-level faculty, senior faculty.*

8:45am–11:45am

**7203 How Competent Should They Be?:  
Matching Curricula to Competencies in  
Advocacy Training**

PAS Educational Workshop

*Leader: David M. Keller, Webster, MA; Co-leaders: Grace Chi, Alice A. Kuo, Emily Roth*

In order to “prepare residents for the role of advocate for children,” as required by the RRC, program directors must break advocacy in a set of competencies and establish appropriate degrees of mastery for trainees at different levels of residency training. In this workshop, participants will:

- Develop a set of competencies appropriate to their own residency training program, using a variety of sources (APA, Dyson Initiative, Advocacy Training SIG).
- Review the evidence for different advocacy curricula, including didactic sessions, block rotations, longitudinal experiences and service-learning projects.
- Match teaching modalities with chosen competencies and evaluative methods.

Participants will experience and review a variety of teaching methodologies and will receive sample curricula, which may be modified for use at their home institutions.

Objectives:

- Develop a set of competencies for advocacy training that is appropriate to their own residency training program, using a variety of sources (APA, Dyson Initiative, Advocacy Training SIG).
- Use an evidence-based approach to match teaching modalities with chosen competencies and evaluative methods.

*Target Audience: Junior faculty, mid-level faculty, senior faculty.*

8:45am–11:45am

**7204 Implementing Programs for Direct  
Observation in Resident Education—SCORE!**

PAS Educational Workshop

*Leader: Casey L. Duca, Syracuse, NY; Co-leaders: John Andrade, Steve Blatt, Bradley Olson*

In this interactive workshop, participants will explore the importance of direct observation of residents, discuss barriers to initiating a program for direct observation and review existing tools that have been generated to aid in structured observation of patient encounters.

“SCORE”—Structured Clinical Observations for Resident Education—will be introduced as a program to institute direct observation of residents in new settings and to address assessment and documentation of competency. Participants will learn the basics of SCORE and practice the use of this tool through illustrative case scenarios, including video, and develop plans for implementing constructive feedback for trainees. Participants will receive a CD-ROM, which will include the video practice-case scenarios and SCORE forms, for implementation of a direct observation program in their own practice settings.

Objectives:

- To develop a plan for implementing a program for direct observations of resident’s interactions with patients.
- To develop a plan for initiating appropriate constructive feedback for residents after observing their interactions with patients.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7205 Measurement and Feedback Strategies for  
Quality Improvement Initiatives in  
Ambulatory Settings**

PAS Educational Workshop

*Leader: Greg D. Randolph, Chapel Hill, NC;  
Co-leader: Peter A Margolis*

Measurement and feedback are critical components of quality improvement (QI) initiatives. This workshop will provide participants with proven methods for creating measurement and feedback strategies that support QI initiatives in ambulatory settings (primary and specialty care).

Objectives:

- Understand key principles for creating a QI measurement strategy that is feasible and effective in busy ambulatory settings.
- List the key steps in a robust QI measurement development process.
- Create a balanced set of measures for an ambulatory QI initiative.

This workshop will include brief presentations based on recent research findings as well as lessons learned from several groups involved in national QI initiatives in ambulatory settings. Using tools presented during the workshop, participants will work independently and in small groups to create a balanced set of measures and an overall measurement strategy for a potential or existing QI initiative in their own setting.

*Target Audience: Junior faculty, mid-level faculty, senior faculty.*

8:45am–11:45am

**7206 The Medical Home: Chronic Condition  
Management in Pediatric Primary Care**

PAS Educational Workshop

*Leader: W. Carl Cooley, Greenfield, NH; Co-leaders: Alan Kohrt, Jeanne McAllister*

Using collaborative learning methods and brief didactic presentations, this workshop defines chronic condition management as the “third leg” of the primary care stool (with health promotion and acute illness management). Participants will see the medical home concept in the context of a chronic care model through which to target specific practice improvements. Small audience groupings will identify simple improvement projects, and participants will commit to implementing two simple improvement projects in their practice settings. Using an email address list, participants and faculty will maintain follow-up conversations and collaborative support for on-going improvement.

Objectives:

- Describe explicit chronic condition management roles for a primary care medical home.
- Implement two specific primary care chronic condition management improvements.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7207 National Efforts on Pediatric Patient Safety**

PAS Educational Workshop

*Leader: Marlene R. Miller, Baltimore, MD*

With the growth of attention on patient safety and the expansion of baseline knowledge about patient safety via research, multiple national level efforts have been started to focus on pediatric patient safety. This workshop will have brief presentations from several of these groups to describe their efforts to date and plans for the future. Workshop participants will gain knowledge, attitudes and skills to help them bring patient safety and quality to real-time implementation in their daily practice by learning about these efforts and how they can join. The workshop will include 1 hour of presentations from the workshop leaders and then rotating 30-minute roundtables with individual leaders for workshop participants to share ideas and inputs on national efforts.

Objectives:

- Knowledge of different national initiatives to improve pediatric patient safety.
- Skills to know how to tap into these efforts.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7208 Practicing Evidence-Based Medicine**

PAS Educational Workshop

*Leader: Roger F. Soll, Burlington, VT; Co-leader: Gautham K. Suresh*

All pediatricians and subspecialists should be proficient in using evidence-based medicine in clinical practice. In this workshop, learners will participate in interactive, facilitated small group discussions and a practical exercise to learn the skills of practicing evidence-based medicine:

- Identification of high-quality evidence;
- Critical appraisal of evidence for validity, importance and applicability to a given setting;
- Grading of evidence;
- Integration of clinical expertise and patient preferences with research data; and
- Evaluation of risks, benefits and costs of a proposed evidence-based intervention.

The concepts and tools promulgated by the Center for Evidence-Based Medicine at Oxford will be used during this workshop.

Objectives:

- How to identify and evaluate evidence for validity, importance and applicability in routine pediatric practice.
- How to integrate clinical judgement, patient preferences and an evaluation of risks, benefits and costs of a proposed evidence-based intervention in making clinical decisions.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7209 Teaching Residents To Teach Basic Parenting Skills in Clinical Practice**

PAS Educational Workshop

*Leader: Robert Sege, Boston, MA; Co-leader: Karen J. Miller*

Parents seek advice from the pediatrician concerning child behavior management. This past year, Boston Floating Hospital (BFH) residency implemented a comprehensive approach to address resident learning concerning parent education. This workshop will help participants to develop residency programs by describing the BFH model. Participants will be provided with sample materials to support resident education, including the new AAP Connected Kids program, to be launched in 2005. The BFH parenting education series began with a Positive Parenting Week and continued with monthly lunch conferences. Each conference began with a case. A variety of techniques were used to encourage residents to explore their own values and experiences and to relate these to the available research and to the case under discussion.

Objectives:

- How to help residents communicate parenting information in the clinical encounter.
- Learn about materials available to support resident education in parenting skills.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7210 Teaching the ACGME Competencies Through the Consultation Model**

PAS Educational Workshop

*Leader: Craig C. DeWolfe, Washington, DC; Co-leaders: A. Alfred Chahine, Yolanda C. Haywood, Christina Johns, Patience H. White*

Appropriate medical consultations are critical to effective patient care. Perhaps outwardly straightforward, the process leaves physicians and patients often feeling frustrated and confused. Physicians in training are also caught in the consultation crossfire. They generally receive little guidance or feedback about communicating with colleagues and caring for patients as a team. These skills are essential to each of the ACGME competencies. The faculty presenters will enact a role play, briefly summarize the literature on consultations and facilitate small group sessions where learners will be able to critique and adapt methods to improve and teach consultation practices in their own institutions. Learners will be provided a sample consultation behavioral checklist based on the ACGME competencies and materials for teaching residents consultations at their institution.

Objectives:

- Identify five common problem areas in the consultation process and generate two ways to improve them.
- Analyze and critique two methods designed to teach residents consultation skills based on the ACGME competencies.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7211 Treating Childhood Obesity in Primary Care**

PAS Educational Workshop

*Leader: Ellen R. Wald, Pittsburgh, PA; Co-leader: Linda J. Ewing*

To overcome barriers to the identification and treatment of obesity in children, we have developed a program directed at primary care providers and families of overweight 8–12 year olds. This program, successful in a research setting, was adapted and applied in the primary care setting. The program consists of a module for primary care providers and a module to train health educators from among the office staff to deliver a behaviorally based group intervention focusing on a modification of dietary and physical activity habits. This interactive workshop will demonstrate all the components of the program through role play.

Objectives:

- Participants will gain knowledge about obesity and behaviorally based interventions.
- Participants will acquire skills in reflective listening.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7212 Turning the “Clinic” into Your “Practice”:  
Tools for Creating a Successful Academic  
Practice Site**

PAS Educational Workshop

*Leader: Elaine E. Schulte, Albany, NY; Co-leaders: Linda Domovich, Maryellen E. Gusic, Barbara Leckerling*

Many pediatric residency training programs offer an experience in a hospital-based setting or satellite office. Often times, resident clinics are operated conjointly with a faculty pediatric practice. This can lead to confusion for staff and families, poor productivity and difficulty marketing the practice.

During this workshop, two models of successful, combined resident and faculty practices will be presented by physician, administrator and nurse leaders. Both models originated as typical hospital-based resident clinics that emerged into productive academic general practices. Participants will use case studies, large and small group discussion and problem-solving activities to explore issues including: (1) understanding productivity standards and financial reports; (2) teaching billing and compliance to learners; (3) managing staffing needs, determining the appropriate provider-to-nurse ratio, optimizing room utilization, maintaining morale and addressing reporting structure; (4) providing continuity of care in an academic practice, including managing schedules of 30+ providers; (5) educating learners in this environment; and (6) ensuring quality improvement and marketing efforts. Workshop participants will be asked to share and learn from each other by presenting challenges encountered in their own practices.

Objectives:

- Participants will better understand the business aspect of operating an outpatient general academic pediatric office.
- Participants will develop skills to address many problems encountered in an outpatient general academic practice.

*Target Audience: Mid-level faculty, senior faculty.*

8:45am–11:45am

**7213 Understanding Multivariate Regression:  
A Case-Based Approach**

PAS Educational Workshop

*Leader: Robert O. Wright, Boston, MA; Co-leaders: Jackie Grupp-Phelan, Nathan Kuppermann*

This workshop will use a case-based approach to walk participants through a series of multivariate regression analyses. Interpretation of the results before and after each independent variable is added will illustrate the interpretation and the underlying concept of statistical adjustment. Graphical illustration of multivariate regression will further illustrate these concepts. Emphasis is on understanding the interpretation of the results rather than on the mathematical concepts of multivariate regression, and minimal math skill will be needed for participation.

Objectives:

- Understanding confounding versus bias.
- Understanding statistical adjustment of confounding.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7214 Using After-Hours Hospitalists To  
Observe Residents in Action:  
A Workshop in Observation, Feedback  
and Competency Evaluation**

PAS Educational Workshop

*Leader: Kenneth Pituch, Ann Arbor, MI; Co-leaders: Erin Brackbill, Jonathan Fliegel, Jennifer Meyers, John Schmidt*

Since developing an extended-hours service, members of the University of Michigan Pediatric Hospitalist Program have been using evening and night-time admissions to observe house staff “in action,” as they admit pediatric patients to the ward service. Through videotaped clinical vignettes and role playing, workshop participants will learn and practice techniques used to observe, give feedback and evaluate competency in interview skills, examination skills and problem-solving skills. In small groups, participants can focus on one of the following areas: (1) Developing faculty in techniques of observation and feedback, (2) developing an evening hospitalist program with time and support for education and (3) evaluating the competency assessment process—research questions and opportunities for clinical scholar-educators.

Objectives:

- Participants will learn an observation and feedback technique.
- Participants will identify and learn ways to improve observation, feedback and competency evaluation at their own programs.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

8:45am–11:45am

**7215 Why? When? What? An Introduction to Qualitative Research Methods**

PAS Educational Workshop

*Leader: Janice L. Hanson, Bethesda, MD; Co-leaders: Cynthia Christy, Lynn M. Manfred, Ulfat Shaikh, Sherilyn Smith, Nasreen Talib, Linda R. Tewksbury*

Qualitative research methods provide an opportunity to explore complex questions in medical research. In this workshop, participants will receive an overview of commonly used qualitative methods, how qualitative research is different than quantitative research and explore some examples of research questions that are best approached using qualitative methods. They will then practice using the qualitative research tools on sample data and discuss the strengths and weaknesses of the different methodologies in small groups. Each participant will then identify methods that can be applied to projects they are currently working on. Finally, participants will review examples of articles using qualitative methods to better understand how data analysis can be translated into scholarly work.

Objectives:

- Participants will review the qualitative research methods and how they can be used.
- Participants will practice using qualitative research methods on sample data.

*Target Audience: Trainee, junior faculty, mid-level faculty.*

*This workshop is sponsored by the APA Faculty Development Program*

8:45am–11:45am

**7250 Advocacy Training**

APA Special Interest Group

*Chairs: Alice A. Kuo, akuo@medstar.ucla.edu; Benjamin Hoffman, bhoffman@salud.unm.edu; and Lisa Chamberlain, lisa.chamberlain@medcenter.stanford.edu*

From past experience, we realize that our SIG is well-attended by both residents and faculty. Therefore, we are striving to put together a SIG meeting that will meet the needs of both groups.

We will continue our well-received Resident Advocacy Poster Session and give residents the opportunity to present their work. A new activity this year will be the opportunity for several residents to give an oral presentation about their projects. News will be forthcoming about how and when to submit abstracts from your housestaff. We are planning an interactive session with small groups focusing on certain themes, such as “how to evaluate your advocacy curriculum,” “how to develop advocacy curricular experiences with no money” or “what innovative curricular experiences are out there.” These small groups will allow more faculty and residents to participate and share their experiences with others who are facing similar challenges or opportunities at their institutions. Finally, we plan to end the SIG meeting with a moderated Open Forum for both residents and faculty to address issues raised in the small groups and next steps for the SIG for the following year.

We look forward to working together, as always, to improve the training of our housestaff and consequently the lives of the children in our communities.

8:45am–11:45am

**7251 Pediatric Telephone Care**

APA Special Interest Group

*Chair: Allison Kempe, Kempe.Allison@tchden.org*

Please visit the PAS Meeting website at [www.pas-meeting.org](http://www.pas-meeting.org) for the most current information available.

8:45am–11:45am

**7252 School and Community Health**

APA Special Interest Group

*Chairs: Linda Grant, lgrant@bu.edu; Mona Mansour, mona.mansour@chmcc.org; and Nazrat Mirza, nmirza@cnmc.org*

The School and Community Health SIG is planning an exciting workshop for the May meeting in Washington, DC. Last year the SIG focused on the topic of obesity, and we had several speakers that discussed research as well as service-oriented programs in school and community settings. Attendees last year enjoyed the topical focus, so this coming year we will be focusing on innovative mental health programs being implemented in community- and school-based settings. In addition, we will be bringing back abstract and poster presentations of fellows, residents and students on this topical area to support and promote the work of this critical group of meeting attendees. As usual, our workshop is interactive and allows for networking and discussion, so please join us for a great session.

10:15am–11:45am

**7300 Children’s Health and the Federal Government: Research and Public Health Policy**

PAS State of the Art Plenary

*Chairs: Lisa Guay-Woodford, President, Society for Pediatric Research; and Paul Young, Chair, PAS Program Committee*

Elias A. Zerhouni, the Director of the NIH and Vice Admiral Richard H. Carmona, the Surgeon General of the United States, will provide PAS attendees with their views of the critical issues related to pediatric research and the health of our nation’s children.

*Target Audience: All attendees*

**Introduction**

Lisa M. Guay-Woodford, University of Alabama at Birmingham, Birmingham, AL

Paul C. Young, University of Utah School of Medicine, Salt Lake City, UT

**The NIH Roadmap for Medical Research**

Elias A. Zerhouni, Director, National Institutes of Health, Bethesda, MD

**Promoting Health for U.S. Children and Their Families**

Vice Admiral Richard H. Carmona, Surgeon General of the United States, Washington, DC

10:15am–11:45am

**7301 Genetic Mechanisms of Respiratory Distress in the Newborn Infant**

PAS State of the Art Plenary

*Chair: F. Sessions Cole, Washington University School of Medicine, St. Louis Children's Hospital, St. Louis, MO*

Improved survival of newborn infants with lung disease has unmasked distinct genetic mechanisms that contribute to acute, chronic and lethal pulmonary insufficiency. Mutations in the surfactant protein genes B and C and a lamellar body transporter gene (ATP-binding cassette transporter A3 or ABCA3) may disrupt pulmonary surfactant function and alveolar type 2 pneumocyte metabolism. After discussing the clinical aspects of the surfactant protein deficiencies, we will discuss how more common polymorphisms in the surfactant protein genes may be related to respiratory distress and our current understanding of the pathogenetic contribution of mutations in the ABCA3 gene to both acute neonatal and chronic interstitial lung disease in children.

*Target Audience: Neonatologists, pulmonologists and geneticists.***Introduction**

F. Sessions Cole, Washington University School of Medicine, St. Louis Children's Hospital, St. Louis, MO

**Clinical Aspects of Surfactant Protein Deficiencies**

Aaron Hamvas, Washington University School of Medicine, St. Louis Children's Hospital, St. Louis, MO

**Polymorphisms in the Surfactant Protein Genes**

Mikko Hallman, University of Oulu, Oulu, Finland

**ABCA3 and the Genetic Basis of Interstitial Lung Disease**

Lawrence M. Nogee, Johns Hopkins School of Medicine, Baltimore, MD

**Summary**

F. Sessions Cole, Washington University School of Medicine, St. Louis Children's Hospital, St. Louis, MO

10:15am–11:45am

**7302 Influences on the Health and Development of Minority Children: An Integrative, Ecological Approach**

PAS State of the Art Plenary

*Chair: Lee M. Pachter, Saint Francis Hospital and Medical Center and University of Connecticut School of Medicine, Hartford, CT*

There is growing recognition that developmental outcomes in minority children are influenced by factors that are either unique to minority children or that have differing effects among minority and nonminority children. This topic symposium will consist of presentations on the effects of different contextual variables on minority child behavioral and developmental competencies. A conceptual model describing the inter-relationship among these factors and minority child developmental competencies will be presented, followed by research that explores the differing effects of individual, family and community level contexts on the health and development of minority children.

*Target Audience: Researchers, clinicians and educators involved with primary care and behavioral/developmental services to minority families.***Introduction**

Lee M. Pachter, Saint Francis Hospital and Medical Center and University of Connecticut School of Medicine, Hartford, CT

**Minority Child Development: An Integrative Model**

Cynthia Garcia Coll, Brown University, Providence, RI

**The Six Primary Tasks of Parenting**

Robert H. Bradley, University of Arkansas at Little Rock, Little Rock, AR

**Ethnic Gaps in Early Health and Development: Causes, Consequences and Prevention**

Jeanne Brooks-Gunn, Columbia University, New York, NY

**Closing Remarks**

Lee M. Pachter, Saint Francis Hospital and Medical Center and University of Connecticut School of Medicine, Hartford, CT

10:15am–11:45am

**7303 Pediatric Biopreparedness: Dual-Use Systems for Everyday and Times of Trouble**

PAS State of the Art Plenary

*Chairs: Michael W. Shannon, Children's Hospital Boston, Boston, MA; and Kenneth D. Mandl, Children's Hospital Boston, Boston, MA*

Addressing the medical and public health consequences of an emerging infection, a naturally occurring outbreak or a bioterrorist attack requires well-developed capabilities for detection, analysis and response. In the context of national preparedness there has been heavy investment to develop these capabilities, but only limited attention has been paid to the unique needs of the pediatric population. Further, the use of these systems for everyday problems as well as disasters is critical if the efforts are to be sustainable.

A multidisciplinary faculty from the Center for Biopreparedness at Children's Hospital Boston will present leading-edge research on (1) public health informatics for the real-time epidemiology of outbreaks of infectious disease among children, (2) approaches to development and dissemination of principles of pediatric bioterrorism response and (3) the dual use of biopreparedness technology.

*Target Audience: Scientists and clinicians involved in bioterrorism preparedness efforts, emergency medicine, public health and epidemiology.***Pediatric Biopreparedness**

Michael W. Shannon, Children's Hospital Boston, Boston, MA

**Approaches to Development and Dissemination of Principles of Pediatric Bioterrorism**

Michael W. Shannon, Children's Hospital Boston, Boston, MA

**Real Time Epidemiology of Outbreaks of Infectious Disease Among Children**

Ben Y. Reis, Children's Hospital Boston, Boston, MA

**Dual Use of Real-Time Outbreak Detection Technology**

Kenneth D. Mandl, Children's Hospital Boston, Boston, MA

10:30am–12:30pm

**7350A The Programme for Global Paediatric Research Platform Session**

PGPR Original Science Abstracts - Platform Session

12:00pm–1:30pm

**Poster Session IV**

PAS Original Science Abstracts - Poster Session

Original Science Abstract Programs  
(Set in February 2005)Available for viewing: 9:00am–1:30pm  
Author Attendance: 12:00pm–1:30pm

1:30pm–3:30pm

**7500A A Global View on Birth Asphyxia**

The Programme for Global Paediatric Research

*Chairs: Stephen Wall, Saving Newborn Lives, Washington, DC, U.S.A.; and Linda Wright, Center for Research for Mothers and Children, National Institute for Child Health and Human Development, National Institutes of Health, Global Network for Maternal and Child Health Research, Rockville, U.S.A.*

**Introduction and Overview****Africa**

Elwyn Chomba, University of Zambia, Lusaka, Zambia

**China**

Lizhong Du, The Children's Hospital, Zhejiang University School of Medicine, Zhejiang Province, China

**Central and South America**

Waldemar A. Carlo, University of Alabama Hospital, Birmingham, U.S.A.

**India**

Vinod K. Paul, Division of Neonatology, Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India

1:45pm–3:45pm

**7600 The Future of Primary Care Pediatrics**

PAS Hot Topic

*Chair: Tina L. Cheng, Johns Hopkins University, Baltimore, MD*

Changes in medicine domestically and globally are transforming primary care in the United States. Many have suggested that primary care is in crisis or at least at a crossroads in the United States. Primary care pediatrics has been grappling with its identity and responding to significant changes in medical systems (e.g., managed care, nonphysician providers, specialization), science (e.g., genomics) and family needs (e.g., coordinated care, cultural competence). The pace and scope of these changes are such that primary care pediatricians of the future will not be performing the same role as today. This session will focus on the future of pediatric primary care and identifies potential roles and new models for primary care pediatrics.

*Target Audience: Academicians and practitioners of primary or specialty care.*

**Introduction—Primary Care: Steering the Future**

Tina L. Cheng, Johns Hopkins University, Baltimore, MD

**Patients and Populations: The Challenge to Pediatric Practice**

Barbara Starfield, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

**Pediatric Primary Care and Informatics**

Kevin B. Johnson, Vanderbilt University Medical Center, Nashville, TN

**Pediatric Primary Care and Genetics**

Marilyn C. Dumont-Driscoll, University of Florida College of Medicine, Gainesville, FL

**New and Emerging Models for Pediatric Primary Care**

Neal Halfon, University of California, Los Angeles, CA

**Primary Care Pediatrics Summary**

Tina L. Cheng, Johns Hopkins University, Baltimore, MD

1:45pm–3:45pm

**7601 New Therapeutic Strategies for Classical Pediatric Diseases**

PAS Hot Topic

*Chairs: David Cornfield, University of Minnesota School of Medicine, Minneapolis, MN; and Nina F. Schor, Children's Hospital of Pittsburgh, Pittsburgh, PA*

The pathogenesis of numerous single-gene disorders has been effectively delineated. However, the application of this knowledge to patient care has lagged far behind. This symposium will present recent progress made in the development of therapeutic strategies for four classical pediatric disorders. First, novel genetic therapies for hematologic diseases will be discussed. Second, interventions that reverse the key abnormalities in signal transduction underlying autosomal dominant polycystic kidney disease, a leading cause of end-stage renal disease, will be presented. Third, we will discuss a treatment strategy that normalizes the intracellular processing and function of the mutated cystic fibrosis transmembrane conductance regulator (CFTR), which underlies the majority of cases of CF. Fourth, pharmacologic strategies against muscular dystrophy will be presented. These four innovative approaches provide great hope for patients suffering from these disorders, and they serve as exciting examples of potential means to combat other devastating pediatric conditions.

*Target Audience: Scientists and clinicians involved with the development of new therapeutic strategies for a variety of childhood disorders.*

**Embryonic Globins as Therapeutic Agents for Hemoglobinopathies and Thalassemias**

J. Eric Russell, The Children's Hospital of Philadelphia, Philadelphia, PA

**Novel Therapies for Renal Cystic Diseases**

Vicente E. Torres, Mayo Clinic, Rochester, MN

**Treatment of Cystic Fibrosis with Curcumin**

Marie E. Egan, Yale University School of Medicine, New Haven, CT

**Pharmacologic Strategies Against Muscular Dystrophy**

Tejvir S. Khurana, University of Pennsylvania School of Medicine, Philadelphia, PA

1:45pm–3:45pm

**7602 Pulmonary Hypertension: Mechanisms and Management**

PAS Hot Topic

*Chair: Steve H. Abman, University of Colorado School of Medicine, Denver, CO*

Pulmonary hypertension contributes significantly to high morbidity and mortality in diverse clinical settings, including term or near-term newborns with hypoxemic respiratory failure, premature infants with RDS, congenital heart disease, idiopathic or primary pulmonary hypertension and other diseases. Recent advances in molecular biology, genetics and physiology have led to novel therapeutic strategies that are now available for the treatment of severe pulmonary hypertension. This symposium will present novel mechanisms in the pathogenesis of pulmonary hypertension, as well as critical appraisal of treatment options for neonates, infants and children with pulmonary hypertension. First, basic molecular and cellular mechanisms that underlie the development of pulmonary hypertension will be presented. This will be followed by a discussion of the physiologic basis for current therapeutic approaches to persistent pulmonary hypertension of the newborn and ongoing controversies in patient management. The next speaker will discuss the use of inhaled nitric oxide (iNO) in premature infants. Although approved for use in the term or near-term neonate with hypoxemic respiratory failure, the potential role for iNO in premature newborns for the treatment of acute lung disease or the prevention of bronchopulmonary dysplasia has been highly controversial. Finally, we will learn of novel treatment strategies for children with chronic pulmonary hypertension, including clinical approaches that utilize separate or combined therapies, such as prostacyclin analogues, endothelin receptor antagonists and PDE5 inhibitors.

*Target Audience: Scientists and clinicians from diverse clinical backgrounds, including neonatology, cardiology, pulmonary medicine and critical care who are involved with newborns and children with acute and chronic pulmonary hypertension. This symposium will describe recent advances in the basic science and clinical management strategies of pulmonary hypertension.*

**Novel Mechanisms in the Pathogenesis of Pulmonary Hypertension**

Marlene Rabinovitch, Stanford University School of Medicine, Stanford, CA

**New Insights in the Pathophysiology and Treatment of PPHN**

Robin H. Steinhorn, Northwestern University Medical School, Chicago, IL

**Controversies in the Use of Inhaled NO in Premature Newborns**

John P. Kinsella, University of Colorado School of Medicine, Children's Hospital, Denver, CO

**Novel Therapeutic Strategies for the Treatment of Pulmonary Hypertension**

Robyn Barst, Columbia University School of Medicine, New York, NY

1:45pm–3:45pm

**Subspecialties/Themes**

PAS Original Science Abstract Sessions

Original Science Abstract Programs

(Set in February 2005)



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