Adiposity in Children and Adolescents: Correlates and Clinical Consequences of Fat Stored in Specific Body Depots

Scientific Program

**Monday, December 5**
*All sessions will be held in the Abell Board Room of the Lod Cook Conference Center. (LSU Campus)*

**8:30-8:45**  
Steven B. Heymsfield, MD  
Executive Director, Pennington Biomedical Research Center
*Pennington Biomedical Research Center: Mission and Programs*

**8:45 - 9:00**  
Peter T. Katzmarzyk, PhD, FACSM  
Associate Executive Director, Population Science  
Pennington Biomedical Research Center  
Wei Shen, MD  
Columbia University and New York Obesity Nutrition Research Center  
St. Luke’s Roosevelt Hospital Center  
*Welcome, Symposium Background and Structure*

**SESSION 1 Frontiers in Pediatric Body Composition Imaging Techniques**
*Chair: Wei Shen, MD*

**9:00-9:45**  
Wei Shen, MD  
Columbia University and New York Obesity Nutrition Research Center  
St. Luke’s Roosevelt Hospital Center  
*Pediatric obesity phenotyping by magnetic resonance methods*

**9:45-10:30**  
Prof. Jimmy D. Bell  
Group Head, Metabolic & Molecular Imaging  
Hammersmith Hospital, Imperial College, London, UK  
*Phenotyping Adiposity by MRI/MRS in Neonates and Infants*

**10:30–10:45**  
**BREAK**

**10:45-11:30**  
Vicente Gilsanz, MD, PhD  
Director, Childrens Imaging Research Program, Childrens Hospital Los Angeles  
Professor of Radiology and Pediatrics, University of Southern California  
*Brown Adipose Tissue in Children and Teenagers*

**11:30-12:30**  
**LUNCH**

**SESSION 2 Age, Sex and Ethnic Variation in Depot-Specific Adiposity**
*Chair: Mary Horlick, MD; NIDDK, Director, Pediatric Clinical Obesity Program*

**12:30-1:15**  
Michael Goran, PhD  
Director, Childhood Obesity Research Center  
Professor of Preventive Medicine; Physiology & Biophysics;
and Pediatrics, The Dr Robert C & Veronica Atkins Chair in Childhood Obesity & Diabetes, University of Southern California Keck School of Medicine

Ethnic Differences in Total and Regional Body Fat

1:15-2:00  
Robert Malina, PhD, FACSM  
Professor Emeritus, Department of Kinesiology and Health Education  
University of Texas at Austin; and Research Professor, Tarleton State University  
Age and Maturity-Associated Variation in Body Fat Distribution

2:00-2:45  
Jonathan Wells, PhD  
Childhood Nutrition Research Center  
UCL Institute of Child Health, London, UK  
Sexual Dimorphism in Body Composition During Childhood

2:45-3:00  
BREAK

SESSION 3: Health Consequences of Body Fat Stored in Specific Compartments  
Chair: Ellen Demerath, PhD

3:00-3:45  
Nancy Butte, PhD  
Baylor College of Medicine  
Metabolic Implications of Body Fat Loss Consequent to Bariatric Surgery in Obese Adolescents

3:45-4:30  
Ellen Demerath, PhD  
University of Minnesota, School of Public Health  
Early Life Influences on Infant Body Composition and Later Outcomes

4:30-5:15  
Adam Baxter-Jones, PhD  
University of Saskatchewan, College of Kinesiology  
Saskatoon, Canada  
Total and Trunk Fat in Adolescence and Future Health Outcomes

Tuesday, December 6

SESSION 4  
Anthropometric Markers of Depot-Specific Adiposity and Health Risk: Clinical Implications  
Chair: Anne E. Sumner, MD; NIDDK, Clinical Endocrinology Branch

8:30-9:15  
Peter T. Katzmarzyk, PhD, FACSM  
Associate Executive Director, Population Science  
Pennington Biomedical Research Center  
Anthropometric Markers of Abdominal Body Fat in Children

9:15-10:00  
Prof. Claudio Maffeis  
Department of Mother and Child, Biology-Genetics, Pediatric Unit  
University of Verona, Italy  
Anthropometric Indicators of Metabolic Risk in Children
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00-10:15</td>
<td>BREAK</td>
</tr>
<tr>
<td>10:15-11:00</td>
<td>Valeria Hirschler, MD</td>
</tr>
<tr>
<td></td>
<td>Durand Hospital, Department of Nutrition and Diabetes</td>
</tr>
<tr>
<td></td>
<td>Buenos Aires, Argentina</td>
</tr>
<tr>
<td></td>
<td><em>Utility of Anthropometry in Identifying Children with Metabolic Syndrome</em></td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Consensus Discussion</td>
</tr>
<tr>
<td></td>
<td><em>Address “critical questions in the field.” Develop consensus for meeting report document.</em></td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>Roundtable and Lunch</td>
</tr>
</tbody>
</table>