



Workshop on Developing Precision Medicine Approaches to the Treatment of Severe Obesity in Adolescents

Fishers Lane Conference Center, 5635 Fisher Lane, Rooms 508/509, Rockville, MD

September 18-19, 2017

Day 1: Monday, September 18, 2017 8:00 AM - 5:30 PM

- 8:00 a.m. Introduction and Workshop Goals
Voula Osganian, MD, ScD, National Institute of Diabetes and Digestive and Kidney Diseases
- 8:15 a.m. Welcoming Remarks
Griffin P. Rodgers, MD, MACP, National Institute of Diabetes and Digestive and Kidney Diseases

Session 1: Scope of the Problem: Severe Obesity and the Adolescent

Moderator: *Robert Kuczmarski, PhD, National Institute of Diabetes and Digestive and Kidney Diseases*

- 8:30 a.m. Epidemiology of Severe Obesity in Adolescents
Cynthia Ogden, PhD, Centers for Disease Control and Prevention
- 8:50 a.m. Adolescent Development
Margaret Zeller, PhD, Cincinnati Children's Hospital Medical Center
- 9:10 a.m. Question and Answer Panel

9:40 a.m. MORNING BREAK

Session 2: Biopsychosocial and Behavioral Factors that are Associated with the Development of Severe Obesity in Adolescents

Moderator: *Deborah Hyman-Young, PhD, Office of Behavioral and Social Sciences Research Office of the Director*

- 10:10 a.m. Psychosocial, Behavioral and Environmental Risk Factors
Elissa Jelalian, PhD, Alpert Medical School of Brown University
- 10:35 a.m. Genetics and Epigenetics
Sadaf Farooqi, MBChB, PhD, University of Cambridge

11:00 a.m. Hedonic Eating, Food Reward and Appetite
Ania Jastreboff, MD, PhD, Yale University School of Medicine

11:25 a.m. Question and Answer Panel

11:55 a.m. LUNCH BREAK

Session 3: Treatment Approaches for Severe Obesity in Adolescents

Moderator: *Charlotte Pratt, PhD, National Heart, Lung, and Blood Institute*

12:45 a.m. Lifestyle and Behavioral Interventions
Marsha Marcus, PhD, University of Pittsburgh School of Medicine

1:05 p.m. Pharmacologic Interventions
Aaron Kelly, PhD, University of Minnesota Medical School

1:25 p.m. Surgical Interventions
Thomas Inge, MD, PhD, Children's Hospital Colorado

1:45 p.m. Emerging Therapies
Lee Kaplan, MD, PhD, Harvard Medical School

2:05 p.m. POWER Clinical Registry- Clinical Experience and Health Outcomes
Shelley Kirk, PhD, RD, LD, Cincinnati Children's Hospital Medical Center

2:25 p.m. Developing and testing a Chronic Care Model for the adolescent with severe obesity
Stephen Cook, MD, MPH, University of Rochester Medical Center

2:45 p.m. Question and Answer Panel

3:15 p.m. AFTERNOON BREAK

Session 4: Biomarkers and Phenotypes that Predict Response to Treatment in Adolescents with Severe Obesity

Moderator: *Barbara Linder, MD, Ph.D., National Institute of Diabetes and Digestive and Kidney Diseases*

3:45 p.m. Eating Behaviors and Psychological Phenotypes/Factors
Kerri Boutelle, PhD, University of California, San Diego School of Medicine

4:05 p.m. Physical Activity Phenotypes/Factors
Molly Bray, PhD, RD, LD, The University of Texas at Austin

4:25 p.m. Biomarkers
Charles Burant, MD, PhD, University of Michigan

4:45 p.m. Question and Answer Panel

5:15 p.m. Closing Remarks Day 1 from Co-Chairs

Day 2: Tuesday, September 19, 2017 8:00 AM -12:30 PM

8:00 a.m. Opening Remarks and Goals for Day 2
Voula Osganian, MD, ScD, National Institute of Diabetes and Digestive and Kidney Diseases

8:15 a.m. Breakout Sessions

Working Groups to discuss and report on summary of research gaps and opportunities from each topic area

1. Epidemiology and Subgroups at Risk including Disparities and Special Populations

Leader: *Cynthia Ogden, PhD, Centers for Disease Control and Prevention*

Facilitator: *Pamela Thornton, PhD, National Institute of Diabetes and Digestive and Kidney Diseases*

2. Biopsychosocial and Behavioral Factors Associated with the Development of Severe Obesity

Leader: *Elissa Jelalian, PhD, Alpert Medical School of Brown University*

Facilitator: *Mary Evans, PhD, National Institute of Diabetes and Digestive and Kidney Diseases*

3. Treatment Approaches for Severe Obesity in Adolescents

Leader: *Stephen Cook, MD, MPH, University of Rochester Medical Center*

Facilitator: *Barbara Linder, MD, PhD, National Institute of Diabetes and Digestive and Kidney Diseases*

4. Biomarkers and Phenotypes that Predict Response to Treatment

Leader: *Charles Burant, MD, PhD, University of Michigan*

Facilitator: *Sue Yanovski, MD, National Institute of Diabetes and Digestive and Kidney Diseases*

9:30 a.m. MORNING BREAK

9:45 a.m. Presentations and Full Panel Discussion

Breakout session presentations and full panel discussion to present recommendations for future research needs to develop precision medicine approaches for the treatment of severe obesity in adolescents

9:45 a.m. Breakout Session Subgroup Presentations by Leaders (15 min each)

10:45 a.m. Full Group Panel Discussion led by Co-Chairs

11:45 a.m. Workshop Summary and Recommendations with Concluding Remarks from Co-Chairs

12:15 PM Wrap up and Adjournment
Voula Osganian, MD, ScD, National Institute of Diabetes and Digestive and Kidney Diseases