

**NIH Consensus Development Conference**

# **Diagnosing Gestational Diabetes Mellitus**

## **Program and Abstracts Supplement**

**March 4–6, 2013**

**William H. Natcher Conference Center  
National Institutes of Health  
Bethesda, Maryland**

### **Sponsors**

*Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH  
Office of Disease Prevention, NIH

National Institute of Diabetes and Digestive and Kidney Diseases  
National Institute of Nursing Research  
Office of Research on Women's Health

### **Partners**

Centers for Disease Control and Prevention  
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The Agency for Healthcare Research and Quality provided additional conference development support.



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## Recent Conferences

- NIH Office of Disease Prevention: **Evidence-based Methodology Workshop on Polycystic Ovary Syndrome**  
*December 3–5, 2012*
- NIH State-of-the-Science Conference: **Role of Active Surveillance in the Management of Men With Localized Prostate Cancer**  
*December 5–7, 2011*
- NIH Consensus Development Conference: **Inhaled Nitric Oxide Therapy for Premature Infants**  
*October 27–29, 2010*
- NIH State-of-the-Science Conference: **Preventing Alzheimer’s Disease and Cognitive Decline**  
*April 26–28, 2010*
- NIH Consensus Development Conference: **Vaginal Birth After Cesarean: New Insights**  
*March 8–10, 2010*
- NIH Consensus Development Conference: **Lactose Intolerance and Health**  
*February 22–24, 2010*
- NIH State-of-the-Science Conference: **Enhancing Use and Quality of Colorectal Cancer Screening**  
*February 2–4, 2010*
- NIH Consensus Development Conference: **Management of Hepatitis B**  
*October 20–22, 2008*
- NIH Consensus Development Conference: **Hydroxyurea Treatment for Sickle Cell Disease**  
*February 25–27, 2008*

To access previous conference statements, webcasts, evidence reports, and other conference materials, please visit <http://prevention.nih.gov/cdp>.

# Agenda

## Monday, March 4, 2013

8:30 a.m.      Opening Remarks  
*Alan E. Guttmacher, M.D.*  
Director  
*Eunice Kennedy Shriver* National Institute of Child Health and Human  
Development  
National Institutes of Health

8:40 a.m.      Charge to the Panel  
*David M. Murray, Ph.D.*  
Associate Director for Prevention and  
Director  
Office of Disease Prevention  
National Institutes of Health

8:50 a.m.      Conference Overview and Panel Activities  
*James Peter VanDorsten, M.D.*  
Lawrence L. Hester, Jr. Professor  
Division of Maternal-Fetal Medicine  
Department of Obstetrics and Gynecology  
Medical University of South Carolina

### **General Overview**

9:00 a.m.      Overview of Topic  
*Catherine Y. Spong, M.D.*  
Associate Director  
Extramural Programs  
*Eunice Kennedy Shriver* National Institute of Child Health and Human  
Development  
National Institutes of Health

9:20 a.m.      Epidemiology of Gestational Diabetes Mellitus  
*William M. Callaghan, M.D., M.P.H.*  
Chief  
Maternal and Infant Health Branch  
Division of Reproductive Health  
National Center for Chronic Disease Prevention and Health  
Promotion  
Centers for Disease Control and Prevention

Monday, March 4, 2013 (*continued*)

**I. What are the current screening and diagnostic approaches for gestational diabetes mellitus, what are the glycemic thresholds for each approach, and how were these thresholds chosen?**

9:40 a.m. Current Diagnostic Methods and Thresholds of Gestational Diabetes Mellitus  
*Donald R. Coustan, M.D.*  
Professor of Obstetrics and Gynecology  
Warren Alpert Medical School  
Brown University  
Division of Maternal-Fetal Medicine  
Women & Infants Hospital of Rhode Island

**II. What are the effects of various gestational diabetes mellitus screening/diagnostic approaches for patients, providers, and U.S. healthcare systems?**

10:00 a.m. Comparative Benefits and Harms of Varying Diagnostic Thresholds of Gestational Diabetes Mellitus  
*Wanda Nicholson, M.D., M.P.H., M.B.A.*  
Director  
Diabetes and Obesity Core  
Center for Women's Health Research  
Associate Professor  
Department of Obstetrics and Gynecology  
The University of North Carolina School of Medicine

10:20 a.m. **Discussion**  
*Participants with questions or comments for the speakers should proceed to the designated microphones and wait to be recognized by the panel chairperson. Please state your name and affiliation. Questions and comments not heard before the close of the discussion period may be submitted on the computers in the registration area. Please be aware that all statements made at the microphone or submitted later are in the public domain.*

Monday, March 4, 2013 (*continued*)

**III. In the absence of treatment, how do health outcomes of mothers who meet various criteria for gestational diabetes mellitus and their offspring compare with those who do not?**

- 10:40 a.m. Evidence-based Practice Center Presentation I: Relative Hyperglycemia and Health Outcomes for the Mother and the Fetus  
*Lois E. Donovan, M.D., FRCPC*  
Clinical Associate Professor and Medical Director  
Diabetes in Pregnancy  
Division of Endocrinology and Metabolism  
Department of Obstetrics and Gynecology  
University of Calgary  
Alberta Health Services
- Lisa Hartling, Ph.D.*  
Assistant Professor  
Department of Pediatrics  
Director  
University of Alberta Evidence-based Practice Centre  
Alberta Research Centre for Health Evidence  
University of Alberta
- 11:00 a.m. Relative Hyperglycemia and Health Outcomes for the Mother  
*Patrick M. Catalano, M.D.*  
Professor  
Reproductive Biology  
Director  
Center for Reproductive Health  
Department of Obstetrics and Gynecology  
MetroHealth Medical Center  
Case Western Reserve University
- 11:20 a.m. Relative Hyperglycemia and Health Outcomes for the Fetus  
*David J. Pettitt, M.D.*  
Senior Scientist  
Sansum Diabetes Research Institute
- 11:40 a.m. **Discussion**
- 12:10 p.m. **Lunch—Panel Executive Session**

Monday, March 4, 2013 (*continued*)

**IV. Does treatment modify the health outcomes of mothers who meet various criteria for gestational diabetes mellitus and their offspring?**

- 1:30 p.m. Evidence-based Practice Center Presentation II: Benefits of Treatment of Gestational Diabetes Mellitus on Maternal and Fetal Health Outcomes  
*Lois E. Donovan, M.D., FRCPC*  
Clinical Associate Professor and Medical Director  
Diabetes in Pregnancy  
Division of Endocrinology and Metabolism  
Department of Obstetrics and Gynecology  
University of Calgary  
Alberta Health Services
- Lisa Hartling, Ph.D.*  
Assistant Professor  
Department of Pediatrics  
Director  
University of Alberta Evidence-based Practice Centre  
Alberta Research Centre for Health Evidence  
University of Alberta
- 1:50 p.m. Benefits of Treatment of Gestational Diabetes Mellitus on Maternal Health Outcomes  
*Mark B. Landon, M.D.*  
Richard L. Meiling Professor and Chair  
Department of Obstetrics and Gynecology  
The Ohio State University College of Medicine and Wexner Medical Center
- 2:10 p.m. Benefits of Treatment of Gestational Diabetes Mellitus on Fetal/Infant Health Outcomes  
*Matthew W. Gillman, M.D., S.M.*  
Director  
Obesity Prevention Program  
Professor  
Department of Population Medicine  
Harvard Medical School  
Harvard Pilgrim Health Care Institute
- 2:30 p.m. **Discussion**

Monday, March 4, 2013 (*continued*)

**V. What are the harms of treating gestational diabetes mellitus, and do they vary by diagnostic approach?**

- 3:00 p.m. Evidence-based Practice Center Presentation III: Harms of Treatment of Gestational Diabetes Mellitus and Relationship to Diagnostic Threshold  
*Lois E. Donovan, M.D., FRCPC*  
Clinical Associate Professor and Medical Director  
Diabetes in Pregnancy  
Division of Endocrinology and Metabolism  
Department of Obstetrics and Gynecology  
University of Calgary  
Alberta Health Services
- Lisa Hartling, Ph.D.*  
Assistant Professor  
Department of Pediatrics  
Director  
University of Alberta Evidence-based Practice Centre  
Alberta Research Centre for Health Evidence  
University of Alberta
- 3:20 p.m. Harms of Treatment of Gestational Diabetes Mellitus and Relationship to Diagnostic Threshold  
*Timothy Cundy, M.D.*  
Professor of Medicine  
Faculty of Medical and Health Sciences  
The University of Auckland
- 3:40 p.m. Economic Implications of Altering Gestational Diabetes Mellitus Diagnostic Criteria  
*Aaron B. Caughey, M.D., Ph.D., M.P.P., M.P.H.*  
Professor and Chair  
Department of Obstetrics and Gynecology  
Oregon Health & Science University
- 4:00 p.m. Practice Implications of Altering Gestational Diabetes Mellitus Diagnostic Criteria  
*William H. Barth, Jr., M.D.*  
Chief  
Division of Maternal Fetal Medicine  
Obstetrics and Gynecology Service  
Massachusetts General Hospital  
Associate Professor of Obstetrics, Gynecology and Reproductive Biology  
Harvard Medical School

**Monday, March 4, 2013 (continued)**

**V. What are the harms of treating gestational diabetes mellitus, and do they vary by diagnostic approach? (continued)**

4:20 p.m.      **Discussion**

5:00 p.m.      **Adjournment**

**Tuesday, March 5, 2013**

**VI. Given all of the above, what diagnostic approach(es) for gestational diabetes mellitus should be recommended, if any?**

8:30 a.m.      Review of Maternal Experience of Having Diabetes Mellitus in  
Pregnancy  
*Ilana R. Azulay Chertok, Ph.D., M.S.N., R.N., IBCLC*  
Associate Professor  
West Virginia University School of Nursing

8:50 a.m.      Pro Status Quo  
*Brian M. Casey, M.D.*  
Gillette Professorship  
Obstetrics and Gynecology  
The University of Texas Southwestern Medical Center

9:10 a.m.      Pro International Association of Diabetes and Pregnancy Study  
Groups  
*Boyd E. Metzger, M.D.*  
Emeritus Professor  
Department of Medicine  
Division of Endocrinology, Metabolism and Molecular Medicine  
Northwestern University  
Feinberg School of Medicine

9:30 a.m.      Pro Alternative  
*Edmond A. Ryan, M.D.*  
Professor  
Department of Medicine  
Division of Endocrinology  
University of Alberta

9:50 a.m.      **Discussion**

10:30 a.m.      **Adjournment**



**Wednesday, March 6, 2013**

- 9:00 a.m.      **Presentation of the Draft Consensus Statement**  
*The panel chairperson will read the draft statement to the assembled audience.*
- 9:30 a.m.      **Discussion**  
*The panel chairperson will call for questions and comments from the audience on the draft statement, beginning with the introduction and continuing through each subsequent section, in turn. Please confine your comments to the section under discussion. The chairperson will use discretion in proceeding to subsequent sections so that comments on the entire statement may be heard during the time allotted. Participants with comments should proceed to the designated microphones and wait to be recognized by the panel chairperson. Please state your name and affiliation. Questions and comments not heard before the close of the discussion period may be submitted on the computers in the registration area. For participants viewing the remote webcast, comments may be submitted online at **prevention.nih.gov/cdp/comments**. Comments will not be accepted after 11:30 a.m. Please be aware that all statements made at the microphone or submitted later are in the public domain.*
- 11:00 a.m.      **Adjournment—Panel Meets in Executive Session**
- 2:00 p.m.      **Press Telebriefing**  
*The panel will provide a summary of its findings to the press and will answer questions from reporters via telebriefing. Only members of the press are permitted to ask questions of the panel during this time. Interested conference participants who are not members of the press may call in (from a remote location) to listen to the live telebriefing. Please go to **prevention.nih.gov/gdm** for instructions on joining the call.*
- The panel's draft statement will be posted to **prevention.nih.gov/gdm** as soon as possible after the close of proceedings, and the final statement will be posted 4 to 6 weeks later.*



## Panel

**Panel Chairperson: James Peter VanDorsten, M.D.**  
Lawrence L. Hester, Jr. Professor  
Division of Maternal-Fetal Medicine  
Department of Obstetrics and Gynecology  
Medical University of South Carolina  
Charleston, South Carolina

**William C. Dodson, M.D., FACOG**  
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Infertility  
Milton S. Hershey Medical Center  
Professor  
Department of Obstetrics and Gynecology  
Penn State College of Medicine  
Hershey, Pennsylvania

**Mark A. Espeland, Ph.D., FASA, FSCT**  
Professor of Public Health Sciences  
Department of Biostatistical Sciences  
Division of Public Health Sciences  
Wake Forest School of Medicine  
Winston-Salem, North Carolina

**William A. Grobman, M.D., M.B.A.**  
Professor and Vice-Chair  
Department of Obstetrics and Gynecology  
Northwestern University  
Feinberg School of Medicine  
Chicago, Illinois

**Jeanne Marie Guise, M.D., M.P.H.**  
Director  
Building Interdisciplinary Research Careers  
in Women's Health (BIRCWH) and  
Mentored Clinical Scientists Comparative  
Effectiveness Development K12 Programs  
Oregon Institute for Patient-Centered  
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Oregon Health & Science University  
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Scientific Resource Center for Evidence-  
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Evidence To Inform Decisions About  
Effectiveness Program  
Community Practice and Research for the  
Oregon Clinical and Translational  
Research Institute  
Professor  
Departments of Obstetrics and Gynecology,  
Medical Informatics and Clinical  
Epidemiology, and Public Health and  
Preventive Medicine  
Oregon Health & Science University  
Portland, Oregon

**Brian M. Mercer, M.D.**  
Professor and Chairman  
Reproductive Biology  
Case Western Reserve University–  
MetroHealth Campus  
Chairman  
Department of Obstetrics and Gynecology  
MetroHealth Medical Center  
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**Howard L. Minkoff, M.D., FACOG**  
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Department of Obstetrics and Gynecology  
Maimonides Medical Center  
Professor of Obstetrics and Gynecology  
State University of New York Downstate  
Medical Center  
Brooklyn, New York

**Brenda Poindexter, M.D., M.S., FAAP**  
Professor of Clinical Pediatrics  
Department of Pediatrics  
Director of Clinical Research  
Section of Neonatal-Perinatal Medicine  
Indiana University School of Medicine  
Riley Hospital for Children at Indiana  
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**Lisa A. Prosser, Ph.D.**  
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Department of Health Management and  
Policy  
Director  
Program in Comparative Effectiveness,  
Decision Science, and Child Health  
CHEAR Unit, General Pediatrics  
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**George F. Sawaya, M.D.**  
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Epidemiology and Biostatistics  
The University of California, San Francisco  
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**James R. Scott, M.D.**  
Professor and Chair Emeritus  
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The University of Utah School of Medicine  
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**Robert M. Silver, M.D.**  
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**Lisa Smith, M.A.**  
Public Representative  
American Diabetes Association  
Tulsa, Oklahoma

**Alyce Thomas, R.D.**  
Perinatal Nutrition Consultant  
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Paterson, New Jersey

**Alan T.N. Tita, M.D., Ph.D.**  
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The University of Alabama at Birmingham  
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## Speakers

**William H. Barth, Jr., M.D.**

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Associate Professor of Obstetrics,  
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Auckland  
New Zealand

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