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
Health Resources and Services Administration

The Agency for Healthcare Research and Quality provided additional conference development support.

### 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](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
### 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.
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., FRCP C
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
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
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
V. What are the harms of treating gestational diabetes mellitus, and do they vary by diagnostic approach?

<table>
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<tr>
<th>Time</th>
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| 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., FRCP  
            | 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.
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Department of Biostatistical Sciences
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Feinberg School of Medicine
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Co-Director
Oregon Health & Science University
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Scientific Resource Center for Evidence-based Practice Center and Developing Evidence To Inform Decisions About Effectiveness Program
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The University of Alabama at Birmingham
Birmingham, Alabama
Speakers

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