Purpose: Maternal mortality rates have increased in the United States. The purpose of this workshop is to develop a research agenda targeted at the clinical causes of maternal morbidity and mortality. An interdisciplinary team of experts will address the question of why women die from these conditions (e.g. postpartum hemorrhage, hypertension, cardiovascular disease, infection, etc.) and what can be done to identify patients at risk, and the interventions required to reduce maternal morbidity and mortality.

Day 1

8:00 Welcome and Opening Remarks
Diana W. Bianchi, MD
Director
Eunice Kennedy Shriver National Institute of Child Health and Human Development
National Institutes of Health

8:15 Remarks From HHS
Dorothy Fink, MD
Deputy Assistant Secretary for Women’s Health
Director, Office on Women’s Health
U.S. Department of Health and Human Services

8:30 Voice of the Participant
Jane Ebot- Bish, PhD
Senior Advisor for the Centers for Civic Impact
Johns Hopkins Krieger School of Arts and Science

8:45 Keynote Speaker- Overview of The Clinical Causes of Maternal Morbidity and Mortality
Dr. Mary D’Alton, MD
Willard C. Rappleye Professor
Chair of the Department of Obstetrics and Gynecology
Columbia University Irving Medical Center
9:15  Break

9:30  Session I: Intrapartum Causes of Morbidity and Mortality
Focus: Why do women die and how can the deaths be prevented?

Postpartum Hemorrhage: Research, Readiness, Recognition, and Acute Response to Hemorrhage in Normal and Abnormal Placentation
Karin Fox, MD, MEd
Associate Professor and Associate Fellowship Director
Department of Obstetrics and Gynecology
Baylor College of Medicine

Cynthia Wong, MD
Chair and Department Executive Officer
Professor of Obstetrical Anesthesia
University of Iowa Carver College of Medicine

Pre-eclampsia and Eclampsia: Prevention of Acute and Long-Range Mortality
James Roberts, MD
Professor
Magee-Womens Research Institute
Department of Obstetrics, Gynecology and Reproductive Sciences
University of Pittsburgh

Amniotic Fluid Embolism- New Concepts and Advances in Treatment
Steve L. Clark, MD
Professor of Obstetrics and Gynecology
Division of Maternal Fetal Medicine
Baylor College of Medicine

Panel Discussion and Q&A
Moderator:
Kimberly Gregory, MD, MPH
The Miriam Jacobs Chair in Maternal-Fetal Medicine
Professor, Department of Obstetrics and Gynecology
Vice Chair, Women’s Healthcare Quality and Performance Improvement
Department of Obstetrics and Gynecology
Cedars-Sinai Medical Center

12:00  Lunch
12:30  Session II: Immediate Postpartum Causes of Morbidity and Mortality
Focus: Diagnostic challenges and updates in treatment and prevention to reduce morbidity and mortality.

Maternal Sepsis: Diagnosis and Management
Alan Thevenet N. Tita, MD, PhD
John C. Hauth Endowed Professor
Vice-Chair for Research
Director of the Center for Women’s Reproductive Health
University of Alabama at Birmingham

Venous Thromboembolic Disorders: Prevention, Diagnosis, and Treatment
Alexander Friedman MD, MPH
Associate Professor of Obstetrics and Gynecology
Columbia University

Andra James, MD
Professor of Obstetrics and Gynecology
Duke University School of Medicine

Panel Discussion and Q&A
Moderator:
Elizabeth Howell, MD, MPP
Professor
System Vice Chair for Research
Department of Obstetrics, Gynecology, and Reproductive Science
Icahn School of Medicine at Mount Sinai

2:30  Break

2:45  Session III: Postpartum Causes of Maternal Morbidity and Mortality
Focus: Emphasis on leading causes of maternal morbidity and mortality: cardiovascular disease.

Cardiovascular Disease in Pregnancy: How to Detect and Optimize Postpartum Care?
Afshan Hameed, MD
Maternal Fetal Medicine Specialist and a Cardiologist
Department of Obstetrics, Gynecology, and Cardiology
University of California at Irvine
David Haas, MD  
Robert A. Munick Professor  
Vice-Chair for Research  
Department of Obstetrics and Gynecology  
Indiana University School of Medicine

**Peripartum Cardiomyopathy**  
Dennis McNamara, MD  
Professor of Medicine  
Director of Center for Heart Failure Research  
University of Pittsburgh Medical Center

**Maternal Stroke**  
Eliza Miller, MD  
Assistant Professor of Neurology  
Vascular Neurologist, Division of Stroke and Cerebrovascular Disease  
Columbia University

**Panel Discussion and Q&A**  
**Moderator:**  
Lisa Hollier, MD  
Professor  
Department of Obstetrics and Gynecology  
Baylor College of Medicine

**Panelist:**  
Janet Rich-Edwards, ScD, MPH  
Director, Developmental Epidemiology  
Connors Center for Women’s Health and Gender Biology  
Associate Professor of Medicine at Harvard Medical School  
Harvard T.H. Chan School of Public Health

5:30  **Summary and Closing Remarks**
Day 2

8:15  Welcome and Opening Remarks
Janine Clayton, MD
NIH Associate Director for Research on Women’s Health
Director, Office of Research on Women’s Health
National Institutes of Health

8:30  Session IV (a) Maternal Conditions That Increase Risk of Morbidity and Mortality
Focus: Optimizing the care of mothers with medical conditions during pregnancy and beyond.

Chronic Hypertension: Pharmacologic Management in Pregnancy and Superimposed Pre-Eclampsia
Suzanne Oparil, MD
Distinguished Professor of Medicine
Professor of Cell, Developmental and Integrative Biology
Director, Vascular Biology and Hypertension Program
Department of Medicine, Division of Cardiovascular Disease
University of Alabama at Birmingham

Sleep Disordered Breathing: Diagnosis and Management During Pregnancy and Implications for Cardiometabolic Risk
Ghada Bourjeily, MD
Professor of Medicine
Director of Women’s Health Research
Women’s Medicine Collaborative at The Miriam Hospital
Warren Alpert Medical School of Brown University

Pulmonary Hypertension Before, During, and After Pregnancy
Corey Ventetuolo, MD, MS
Assistant Professor of Medicine
Associate Professor of Health Services, Policy, and Practice
Brown Alpert Medical School of Brown University

Pre-Existing Chronic Kidney Disease, Acute Kidney Injury and Maternal Pregnancy Complications
Vesna Garovic, MD, PhD
Professor
Department of Internal Medicine
Division of Nephrology and Hypertension
Mayo Clinic

Gestational Diabetes: A Metabolic Stress Test and Harbinger of Future Metabolic Dysfunction
Patrick Catalano, MD
Professor
Vice Chair of Obstetrics and Gynecology Research
Mother Infant Research Institute
Tufts University School of Medicine

11:00 Break

11:15 Panel Discussion and Q&A
Moderator:
Judette Louis MD, MPH
President, Society for Maternal Fetal Medicine
James M. Ingram Professor
Department Chair of Obstetrics and Gynecology
Morsani College of Medicine
University of South Florida

Panelist:
Lisa Levine, MD, MSCE
Assistant Professor, Maternal Fetal Medicine
Maternal and Child Health Research Center
University of Pennsylvania

12:00 Session IV (b) Maternal Conditions that Increase Risks of Morbidity or Mortality
Focus: Optimizing the care of mothers with medical conditions during pregnancy.

Substance Use Disorders During Pregnancy and the Postpartum Period: What We Know and Need to Know
Hendrée Jones, PhD
Professor in the Department of Obstetrics and Gynecology
University of North Carolina in Chapel Hill

Pregnancy Complications and Outcomes Among Women with Intellectual and Developmental Disabilities
Monika Mitra, PhD
Nancy Lurie Marks Associate Professor of Disability Policy
Director, Lurie Institute for Disability Policy
Heller School for Social Policy and Management
Brandeis University
Panel Discussion and Q&A

Moderator:
Michael Lu, MD, MS, MPH
Dean, School of Public Health
University of California Berkeley

Panelist:
Morénike Giwa Onaiwu, MA
Global Advocate, Educator
Autistic Women & Nonbinary Network

1:30  Lunch

2:30  Session V: Mental Health Conditions
Focus: Optimizing the care of mothers with medical conditions during pregnancy and postpartum.

Pregnancy as a Sensitive Period of Psychobiological Maternal Development: Implications for Psychopathology and Birth Outcomes
Laura Glynn, PhD
Professor of Psychology
Associate Dean for Research
Chapman University

Catherine Monk, PhD
Professor of Medical Psychology
Director, Women’s Mental Health at Obstetrics and Gynecology
Columbia University Medical Center

Risk-Benefit Trade-Off for Psychiatric Medications in Pregnancy
Krista F. Huybrechts, PhD, MS
Associate Professor of Medicine
Harvard Medical School
Brigham and Women's Hospital

Pregnancy-Associated Mortality and Morbidity from Substance Abuse, Self-Harm, and Violence
Sidra Goldman-Mellor, PhD
Assistant Professor of Public Health
University of California, Merced
Claire Margerison, PhD  
Associate Professor  
Department of Epidemiology and Biostatistics  
Michigan State University

4:15 Break

4:30 Panel Discussion and Q&A

Moderator/Panelist:  
Childbirth Triggered Posttraumatic Stress Disorder  
Sharon Dekel, PhD  
Assistant Professor of Psychology  
Department of Psychiatry  
Harvard Medical School  
Massachusetts General Hospital

5:15 Gaps and Next Steps and Final Wrap Up