

# Global Implementation Science Approaches to Improve Maternal Heart, Lung, Blood, and Sleep Health Outcomes

Virtual Workshop | September 16-17, 2024



## DAY ONE:

September 16, 2024 | 10:00 am – 4:00 pm EDT

10:00 – 10:05 am

### WORKSHOP INTRODUCTION AND LOGISTICS

Karen Plevock Haase, PhD, MS, *Program Director, Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health*

10:05 – 10:15 am

### WELCOMING REMARKS

Cara Lewis, PhD, *Deputy Director, Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health*

10:15 – 11:30 am

### KEYNOTES

Moderator: Makeda Williams, PhD, MPH

10:15 – 10:20 am

### PANEL INTRODUCTION

10:20 – 10:45 am

### ADVANCING BIRTH EQUITY WITH TRANSNATIONAL APPROACHES TO IMPROVE MATERNAL HEART, LUNG, BLOOD, AND SLEEP HEALTH OUTCOMES

Joia Crear-Perry, MD, FACOG, *Founder & President, National Birth Equity Collaborative*

10:45 – 11:10 am

### BREAKING DOWN SILOS TO ENHANCE MATERNAL HEALTH OUTCOMES

Eche Ezeanolue, MD, MPH, *Director, IVAN Research Institute; Professor of Pediatrics, Infectious Diseases and Epidemiology; College of Medicine, University of Nigeria*

11:10 – 11:30 am

### DISCUSSION & Q&A

**Overview:** This session will feature insightful talks on birth equity and implementation research in maternal health, both domestically and globally, with a focus on heart, lung, blood, and sleep health. Emphasizing reciprocal learning, the keynotes aims to foster a global exchange of knowledge and strategies to equitably advance maternal health.

11:30 – 11:35 am

### BREAK

11:35 – 1:00 pm **PANEL 1: CARDIOVASCULAR HEALTH**

Moderator: Ayesha Siddiqui, MD, PhD

11:35 – 11:40 am **PANEL INTRODUCTION**

11:40 – 11:50 am **HYPERTENSIVE DISORDERS IN PREGNANCY IN PAKISTAN: REACHING THE UNREACHED**

Zulfiqar Bhutta, MBBS, PhD, *Founding Director, Centre of Excellence in Women and Child Health and the Institute of Global Health & Development, The Aga Khan University (South Asia, Central Asia & East Africa); Chair in Global Child Health and Co-Director of the Centre for Global Child Health, University of Toronto*

11:50 – 12:00 pm **LEARNINGS FROM IMPLEMENTING SEVERE MATERNAL MORBIDITY SURVEILLANCE (SMM) IN MARYLAND**

Andreea Creanga, MD, PhD, *Professor, Bloomberg School of Public Health, School of Medicine, Johns Hopkins University*

12:00 – 12:10 pm **CARDIOVASCULAR HEALTH IN PREGNANCY: CHALLENGES AND INNOVATIONS**

Shuchita Mundle, MD, *Professor and Head of Obstetrics and Gynaecology, All India Institute of Medical Sciences, Nagpur*

12:10 – 12:20 pm **PRIOR PRETERM BIRTH AND EFFECTS ON CARDIOVASCULAR HEALTH**

Cynthia Gyamfi-Bannerman, MD, MS, *Chair and Professor of Obstetrics, Gynecology, and Reproductive Sciences, University of California San Diego*

12:20 – 1:00 pm **PANEL DISCUSSION & Q&A**

**Overview:** In recent years, the intersection of maternal cardiovascular health and implementation science has emerged as a crucial opportunity for enhancing maternal health outcomes. This panel aims to tackle the complexities and innovative approaches for addressing cardiovascular health challenges among pregnant and postpartum women through the lens of implementation science.

1:00 – 1:35 pm **LUNCH**

1:35 – 3:00 pm **PANEL 2: HEMATOLOGY AND BLOOD TRANSFUSION AS FACTORS IN MATERNAL MORBIDITY AND MORTALITY**

Moderator: Ilana Goldberg, PhD

1:35 – 1:40 pm **PANEL INTRODUCTION**

1:40 – 1:50 pm **POLICY AND PARTNERSHIPS: IMPROVING MATERNAL HEALTH OUTCOMES THROUGH HAEMATOLOGY AND BLOOD TRANSFUSION**

Julie Makani, MD, PhD, FRCP, FTAAS, *Physician Scientist in the Department of Haematology and Blood Transfusion at Muhimbili University of Health and Allied Sciences (MUHAS)*

1:50 – 2:00 pm **GO THE DISTANCE: TRANSFORMING PREGNANCY OUTCOMES FOR PEOPLE WITH SICKLE CELL DISEASE**  
*Lydia Pecker, MD, Associate Professor, Johns Hopkins University School of Medicine; Interim Director, Johns Hopkins Sickle Cell Center for Adults; Director, Young Adult Clinic, Johns Hopkins Sickle Cell Center for Adults*

2:00 – 2:20 pm **ADDRESSING THE DISPROPORTIONATELY HIGH MATERNAL AND PERINATAL MORTALITY ASSOCIATED WITH SICKLE CELL DISEASE IN AN LMIC: THE ROLE OF MULTIDISCIPLINARY CARE**  
*Samuel Opong, BSc, MBChB, FWACS, Professor, University of Ghana Medical School and Eugenia Asare, BSc, MBChB, MGCPS, Adult Hematologist, Korle-Bu Teaching Hospital / University of Ghana Medical School*

2:20 – 2:30 pm **STRUCTURAL RACISM & MATERNAL HEALTH IN THE US: SUCCESSES & CHALLENGES OF INTERVENTION & IMPLEMENTATION**  
*Peprah Emmanuel, PhD, Director, Implementation Science for Global Health & Assistant Professor, New York University College of Global Public Health*

2:30 – 3:00 pm **PANEL DISCUSSION & Q&A**  
**Overview:** The panel discussion will explore the challenges and opportunities in advancing implementation research, training, and capacity-building as it relates to managing blood disorders such as sickle cell disease (SCD) and hemorrhage in maternal health. Overall, the panel will seek to identify gaps, and explore opportunities to enhance maternal health outcomes related to blood and bleeding disorders through implementation research.

3:00 – 3:55 pm **PANEL 3: MATERNAL HEALTH COMMUNITY IMPLEMENTATION PROGRAMS**  
Moderator: Candice Price, PhD

3:00 – 3:05 pm **PANEL INTRODUCTION**

3:05 – 3:13 pm **PROJECT IMPROVING PRECONCEPTION ACTIONS AND CHOICES FOR TOMORROW (IMPACT)**  
*Natalie Hernandez, PhD, MPH, Associate Professor, Morehouse School of Medicine and Mary Nicholson Jackson, CLC, Community Engagement Director, Reaching Our Sisters Everywhere, Inc.*

3:13 – 3:21 pm **JUSTMOTHERS**  
*Natasha Williams, EdD, MPH, Associate Professor, New York University Langone Health and Damalia D. Jackson, MPH, Program Director, CAMBA, Brooklyn, NY*

3:21 – 3:29 pm

### **IDENTIFYING MATERNAL HEALTH PRIORITIES AND ADDRESSING DISPARITIES THROUGH COMMUNITY ENGAGEMENT IN THE TEXAS PANHANDLE**

Christine Garner, PhD, RD, CLC, *Associate Professor, Texas Tech University Health Sciences Center* and Casie Stoughton, MPH, RN, *Director of Public Health, Amarillo Public Health*

3:29 – 3:37 pm

### **IMPROVING RECOGNITION AND RESPONSE TO PREGNANCY RELATED HYPERTENSION THROUGH EQUITY FOCUSED COMMUNITY ENGAGED IMPLEMENTATION SCIENCE**

M. Kathryn Menard, MD, MPH, *UpJohn Distinguished Professor, University of North Carolina School of Medicine* and Kamara Barnett, *Community Collaborator, Patient Action Group Lead*

3:37 – 3:45 pm

### **STRATEGIES FOR IMPLEMENTING A POSTPARTUM LIFESTYLE INTERVENTION IN WIC CLINICS (STRIVE)**

Kirsten Dorans, ScD, *Assistant Professor, Tulane University* and Mary Schultheis, *Founder, President, CEO, Crescent City Family Services*

3:45 – 3:55 pm

### **PANEL DISCUSSION & Q&A**

**Overview:** The panel will spotlight current NIH-funded researchers focused on advancing maternal health through community-engaged implementation science. Key programs include the Maternal Health Community Implementation Program (MH-CIP) and the Implementing a Maternal health and PRegnancy Outcomes Vision for Everyone Community Implementation Program (IMPROVE-CIP). The programs empower communities to engage fully in implementation research to reduce maternal morbidity and mortality.

3:55 – 4:00 pm

### **DAY 1 CLOSING REMARKS**

Karen Plevock Haase, PhD, MS, *Program Director, Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health*

4:00 pm

### **ADJOURN**

*Thank you*

## **DAY TWO:**

September 17, 2024 | 10:00 am – 4:00 pm EDT

10:00 – 10:05 am

### **WELCOME TO DAY 2**

Veronica Tonwe, MSHS, PMP, *Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health*

10:05 – 11:00 am

### **KEYNOTE**

Moderator: Mary Masterson, PhD, MS

10:05 – 10:10 am **KEYNOTE INTRODUCTION**

10:10 – 10:40 am **IMPROVING THE EVIDENCE BASE FOR IMPROVING MATERNITY CARE**

Mary Dixon-Woods, MSc, PhD, *Director, University of Cambridge*

11:40 – 11:00 am **DISCUSSION & Q&A**

11:00 – 11:10 am **BREAK**

11:10 – 12:20 pm **PANEL 4: SLEEP**

Moderator: Shilpy Dixit, PhD

11:10 – 11:15 am **PANEL INTRODUCTION**

11:15 – 11:30 am **MATERNAL HEALTH AND SLEEP DISORDERS**

Ghada Bourjeily, MD, *Professor of Medicine, Health Services, Policy and Practice; The Warren Alpert Medical School and School of Public Health of Brown University; Director of Women's Research at Lifespan*

11:30 – 11:45 am **SLEEP AND CIRCADIAN HEALTH AS A PREDICTOR OF MATERNAL AND FETAL HEALTH**

Sarah England, PhD, *Alan A. and Edith L. Wolff Professor of Medicine; Vice Chair of Research, Department of Obstetrics and Gynecology; Director - Center for Reproductive Health Sciences Washington University, St. Louis*

11:45 – 12:00 pm **STATE OF THE SCIENCE ON SLEEP IMPLEMENTATION RESEARCH**

Suzanne Bertisch, MD, *Clinical Director of Behavioral Sleep Medicine, Brigham and Women's Hospital; Assistant Professor of Medicine, Harvard Medical School*

12:00 – 12:20 pm **PANEL DISCUSSION & Q&A**

12:20 – 12:50 pm **LUNCH**

12:50 – 2:15 pm **PANEL 5: LUNG**

Moderator: Mihaela Stefan, MD, PhD

12:50 – 12:55 pm **PANEL INTRODUCTION**

12:55 – 1:05 pm **FIGHTING FOR AIR: CHALLENGES AND OPPORTUNITIES IN MATERNAL ASTHMA AND INHALED EXPOSURES DURING PREGNANCY**

Sonali Bose, MD, MPH, ATSF, *Associate Professor of Medicine, Associate Professor of Pediatrics, Division of Pulmonary, Critical Care, and Sleep Medicine, Icahn School of Medicine at Mount Sinai, NY*

- 1:05 – 1:15 pm **IMPLEMENTING INTEGRATED CARE APPROACHES TO REDUCE DISPARITIES IN SEVERE MATERNAL MORBIDITY**  
*Stephanie Fitzpatrick PhD, FSMB, Professor, Institute of Health System Science, Feinstein Institutes for Medical Research at Northwell Health*
- 1:15 – 1:25 pm **IMPROVING EVIDENCE-BASED SMOKING CESSATION CARE DURING PREGNANCY**  
*Megan Passey, MPH, MSc, PhD, Professor of Rural Health, Stream Lead for Tobacco, Behaviour Change and Implementation Research, The Daffodil Centre, the University of Sydney*
- 1:25 – 1:35 pm **MATERNAL AND PERINATAL OUTCOMES IN RARE LUNG DISEASE: LESSONS FROM CYSTIC FIBROSIS**  
*Jennifer L. Taylor-Cousar, MD, MSCS, ATSF, Professor, Departments of Medicine and Pediatrics, Divisions of Pulmonary, Critical Care and Sleep Medicine and Pediatric Pulmonary Medicine; University of Colorado Anschutz Medical Campus; National Jewish Health, Denver*
- 1:35 – 2:15 pm **PANEL DISCUSSION & Q&A**  
**Overview:** This panel discussion will focus on the intersection of maternal health care, implementation research, and lung health, with an emphasis on community-engaged implementation science (IS) both globally and domestically. Panelists will explore challenges and opportunities for advancing research, training, and capacity-building specifically for maternal lung health.
- 2:15 – 2:20 pm **BREAK**
- 2:20 – 3:45 pm **PANEL 6: INNOVATIVE METHODS FOR CARE DELIVERY**  
Moderator: Maliha Ilias, PhD
- 2:20 – 2:25 pm **PANEL INTRODUCTION**
- 2:25 – 2:35 pm **USE GLOBAL SUCCESSES (ESPECIALLY IN LMICS) TO DETERMINE HOW EVIDENCE-BASED PRACTICES CAN BE CONTEXTUALLY ADAPTED TO IMPROVE MATERNAL HEALTH IN VULNERABLE POPULATIONS BOTH IN THE US AND ABROAD**  
*Joan Shepherd, PhD, Head of Department Midwifery and Obstetrical Nursing Faculty of Nursing and Midwifery, University of Sierra Leone, College of Medicine and Allied Health Services, Faculty of Nursing/Midwives*
- 2:35 – 2:45 pm **INNOVATIONS IN HEALTH DELIVERY IN RESOURCE-LIMITED SETTINGS: EXPERIENCES FROM NIGERIA**  
*Ngozi Idemili-Aronu, PhD, Director, Operations, IVAN Research Institute. Department of Sociology/Anthropology; Department of Community Medicine, University of Nigeria, Nsukka*

2:45 – 2:55 pm

**INNOVATIVE METHODS FOR CARE DELIVERY**

Zaleha Abdullah Mahdy, PhD, *Professor, Department of Obstetrics & Gynaecology, Faculty of Medicine, Universiti Kebangsaan Malaysia*

Panelist: Sarah Chen, MSc, PhD, *Vice President, Maven Clinic*

2:55 – 3:45 pm

**PANEL DISCUSSION & Q&A**

**Overview:** This panel discussion will examine how innovative methods for care delivery can address pressing needs and transform maternal care as an implementation strategy. The panelists highlight innovative methods that have been used both domestically and globally. Our expert panel includes a seasoned midwife, a telehealth specialist, a drone delivery innovator, and interdisciplinary collaborators.

3:45 – 4:00 pm

**CROSS-CUTTING THEMES, SUMMARY, AND CLOSING STATEMENTS**

Veronica Tonwe, MSHS, PMP, *Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health*

4:00 pm

**ADJOURN**

*Thank you*