

**Saturday, March 8, 2025**  
**First Scientific Session: Oral Presentations**

**Moderators: Ai-ris Collier, MD and Liz McGowan, MD**

- 9:00 AM Parental status is associated with differences in Tdap vaccination rates among united states adults. M. Slater\* WIHRI
- 9:12 AM Assessment of obstetric providers' practice surrounding vaccine counseling and administration for non-birthing partners. N. Passarelli \* WIHRI
- 9:24 AM Serotonin gene expression in the gut during gestation and early life. I. Phan\* Yale
- 9:36 AM Pasteurized donor human milk: assessing disparities in patient knowledge, perspectives and uptake. O. Iwuchukwu\* WIHRI
- 9:48 AM Postpartum diabetes testing after pregnancies affected by diabetes. J. Patel\* UMass
- 10:00 AM Trends in active management of periviable liveborn neonates in the United States, 2016-2023. S. Martinez\* BIDMC
- 10:12 AM A novel simulation curriculum to improve physician assistant NRP skills. R. Satty\* Tufts
- 10:24 AM Decisions around periviable neonatal resuscitation and cesarean delivery before and after hospital policy change. A. Asirwatham\* UMass

**10-MINUTE BREAK**

- 10:34 AM Metabolic concentrations in early human milk differ with obesity and diabetes in pregnancy. C. Keeney\* Yale and Quinnipiac
- 10:46 am Interplay between endogenous glycan fermentation and klebsiella pathogenicity in the intestinal lumen. S. Khasgiwala\* CCMC and Uconn
- 10:58 am Extubation of extremely preterm infants using non-invasive positive pressure ventilation: A quality improvement project. S. Gnecco-Gonzalez\* BIDMC
- 11:10 AM The molecular effects of maternal cannabis use on infant feeding regulation. N. Finton\* Tufts
- 11:22 AM Differences in administration of antenatal corticosteroids in the late preterm period. K. Descartes\* UConn
- 11:34 AM The association between co-occurring substance use and HIV-1 exposure on placental pathology and pregnancy outcomes. N. Chadha\* BMC
- 11:46 AM Maternal perceived ethnic discrimination impacts stress-responsive placental mRNA and miRNA. F. Carasi-Schwartz\* Tufts

**\*Denotes person in training**

**Saturday, March 8, 2025**  
**Second Scientific Session: Oral Presentations**

**Moderators: Helen Christou, MD and Michael House, MD**

- 3:30 pm Association of weight stigma with postpartum depression: a multi-state prams analysis. A. Wayne\* UMass
- 3:42 pm Redefining bowel wall thickness benchmarks for preterm infants. M. Vogel\* Tufts
- 3:54 pm Association of periviable birth and postpartum psychiatric morbidity in the Medicaid population. A. Trochtenberg\* Tufts
- 4:06 pm Can a remote blood pressure monitoring program reduce racial disparities in healthcare utilization and severe maternal morbidity among postpartum patients with hypertension. S. Talbot\* UConn
- 4:18 pm Randomized controlled trial of traxi panniculus retractor use for improving surgical time and patient and provider reported outcomes. E. Stonestreet\* BIDMC
- 4:30 pm Developmental outcomes at 18 to 36 months corrected age of very preterm or very low birth weight infants with older siblings. N. Rahman\* UConn
- 4:42 pm Factors associated with exclusive formula feeding in individuals with hypertensive disorders. J. S. Agudugo\* BIDMC
- 4:54 pm Neonatal acute kidney injury: Incidence, risk factors, and outcomes in multiple tele-NICU sites in India. S. Mathias\* BCH

**10-MINUTE BREAK**

- 5:05 pm Geographic variations in clinical outcomes in the placenta accreta spectrum. R. Martin\* BIDMC
- 5:17 pm Implementation of universal screening for syphilis in pregnant patients presenting for birth hospitalization. T. Lueck\* BIDMC
- 5:29 pm Lung ultrasound score and left ventricular eccentricity index in preterm infants with respiratory distress syndrome. J. Kelner\* CCMC
- 5:41 pm Characterization of funding sources and reported significance in neonatal randomized trials. R. Johnstone\*, BIDMC
- 5:53 pm Adequacy of chorionic villus sampling in one vs two pass procedures. D. Febres-Cordero\* BIDMC
- 6:05pm Human neonatal CD8 t cells exhibit rapid, short-lived, effector responses and a unique transcription factor landscape. M. Chakder \* Yale

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**SATURDAY, MARCH 8, 2025**  
**Third Scientific Session: Poster Walk**

**Poster Walk A: Moderators—Liz Yen, MD and Michele Hacker, ScD**

Coding and non-coding transcriptome expression in the placental of mothers affected by obesity.  
R. Spadafora, Tufts

Beyond 911 and medical control: Creation of 24/7 baby and a new national model and cross-disciplinary collaboration and program innovation to improve neonatal outcomes and team success.  
B. Redmond, Yale

Functions of placental t cells in distal fetal mucosal tissues using organoid and non-human primate models.  
K. Gawon\* Yale

Sex-specific molecular pathways in neonates exposed to maternal opioid use.  
T. Keneko-Tarui, Tufts

Religious minority status and maternal mental health: Perinatal depression, anxiety and stress among Muslim patients in the US.  
R. Forati\*, Harvard Med School, BIDMC

Association of perinatal vaccination counseling and non-birthing partners vaccination rates.  
L. Griffin\* WIHRI

Smart phone applications to support perinatal mental health: A systemic review.  
E. Chang\* WIHRI, Brown

Impact of maternal flu immunization on infant antibody levels 1-3 months following flu immunization.  
R. Bhowmik\* BIDMC

Racial/ethnic and nativity disparities in heavy metal(loid) exposure and sources among women of reproductive age in the US, NHANES 2011-2020.  
K. Kui\* Tufts

The experience continually affects daily life: A qualitative analysis of how birthing ob/gyns define birth trauma. N. Echeng\* WIHRI

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**SATURDAY, MARCH 8, 2025**  
**Third Scientific Session: Poster Walk**

**Poster Walk B: Moderators—Liz McGowan, MD and David Sink, MD**

SDOH needs in a community special care nursery highlight importance of keeping care local.  
M. Young, Tufts

Quality of reporting neonatal randomized controlled trials: A 5-year analysis.  
K. Ruiz-Arellanos \* BIDMC

Gestational age, feeding type, and infant feeding behaviors in very and extremely preterm infants.  
M. Mourao\* BIDMC

Produce prescriptions on improving pregnancy outcomes: Results from a pilot intervention.  
F. Zhang, Tufts

Placenta accreta spectrum and perinatal mental health: A national study in the United States.  
V. Karabadjji\* BIDMC

Obstetric outcomes following maternal respiratory syncytial virus vaccination.  
T. Hsieh\*, BIDMC

Inpatient versus outpatient management of preterm prelabor rupture of membranes: A systematic review and meta-analysis.  
R. Germano-Toledo\* BIDMC

Association of neonatal hypoglycemia with neurobehavior using continuous glucose monitors.  
A. Coburn-Sanderson\* BWH

Characteristics of paternal visitation in the neonatal intensive care unit.  
J. Bernardo, MGH

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**SUNDAY, MARCH 9, 2025**  
**Fourth Scientific Session: Oral Presentations**

**Modertors: Liz Yen, MD and Michael House, MD**

- 9:00 am Time to early nutrition milestones among extremely preterm low birth weight infant in the NICU: Differences by gestational age. S. Talebiyan\* BWH
- 9:12 am Impact of stress and anxiety o milk macronutrient and energy content. S. Roytek\* and E. Zucker\* BWH
- 9:24 am Discontinuity during outpatient pregnancy care: A retrospective cohort study. D. Reyes\* BIDMC
- 9:36 am Memory T cell activation in the second trimester prior to preeclampsia onset. A. Mutoni\* BIDMC
- 9:48 am Maternal mid-upper arm circumference during pregnancy in Ethiopia: Trends and association with adverse birth outcomes. Y. Kim\* Brown
- 10:00 am Association between time npo and body composition in VLBW infants. V. Belavusava\* Tufts
- 10:12 am Assessing adherence to first trimester diabetes screening guidelines in publicly insured patients. Z. Kassem\* Tufts
- 10:24 am Predictors of perinatal perceived stress among pregnant women in rural Ethiopia. S. Jensen\* BCH
- 10-MINUTE BREAK
- 10:34 AM Non-invasive prenatal testing results, nuchal translucency size, and second-trimester resolution modify first trimester cystic hygroma outcomes. M. Wang\* BIDMC
- 10:46 am Accuracy of infant clinical signs to predict neonatal mortality in rural Bangladesh. S. Widyarningsih\* BWH
- 10:58 am scRNAseq reveals immune profile differences at the maternal-fetal interface across gestation. Y. Cao\* Yale
- 11:10 am Accuracy of patient and provider prediction of spontaneous labor at term. A. Oppong\* BIDMC
- 11:22 am Improving intubation premedication use in infants  $\leq 1500g$ . D. Daniel\* Yale
- 11:34 am Comparative analysis of NICU visitation and social vulnerability by preferred language to inform intervention development. A. Acevedo\*, MGH
- 11:46 am Adverse perinatal outcomes among patients with iron deficiency without anemia and implications for treatment. I. Sigman\* WIHRI
- 11:58 am Impact of lesion-specific delivery room guidelines on resuscitation practices for newborns with critical congenital heart disease. E. Hauser\* BWH

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