

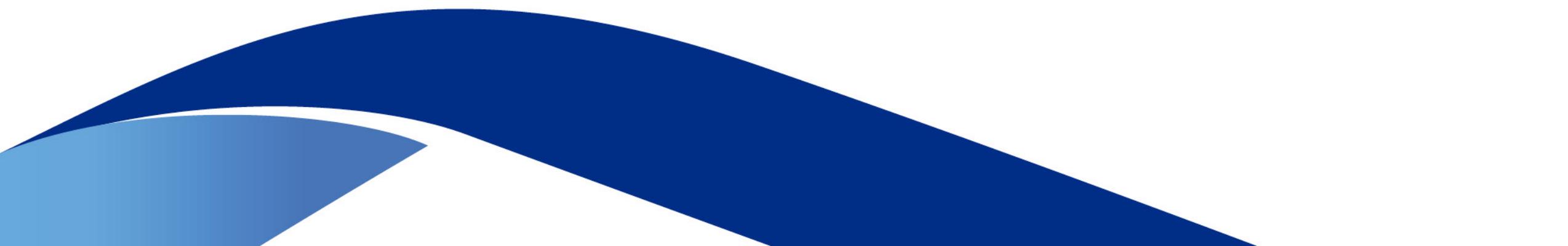


**National Heart, Lung, and Blood Institute (NHLBI)**  
**MMM Updates**

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# NHLBI MMM Program Updates

- Maternal and women’s health priorities span all objectives of the **NHLBI Strategic Vision**

- **NHLBI partners with NICHD, NIDDK, ORWH, and OBSSR** on many maternal health programs.

- **NHLBI RFA-HL-18-003** explores normal biology “The Interaction of Basal Risk, Pharmacologic Ovulation Induction, Pregnancy and Delivery on Hemostatic Balance”

## Objective 1: Normal Biology

Resilience (e.g., hormonal influences on HLBS diseases; vascular biology of hypertension in pregnancy; sex hormone induced thromboembolism in premenopausal women [RFA-HL-18-003](#))

## Objective 2: Pathobiology, Onset, & Progression of HLBS Diseases

Disease mechanisms and presentation such as preeclampsia

## Objective 3: Population Differences

Studies of sex differences— sex-specific studies on conditions more prevalent/differentially in affecting women

## Objective 4: Precision Medicine

Risk prediction and treatment (e.g., adverse pregnancy outcomes and CV health, [nuMoM2b Heart Health Study](#) — precision medicine and trans-omics research; [cardiomyopathy and preeclampsia research](#))

## Objective 5: Novel Diagnostics & Therapeutics

Biomarkers of HLBS disease development; [LIFE-Moms](#); [NuMoM2B Sleep-Disordered Breathing study](#)

## Objective 6: Clinical & Implementation Research

Clinical science; sex-specific analyses; inclusion gaps; eliminate care/management disparities

## Objective 7: Data Science

Genome-phenome activities (e.g., [DataStage](#), [TOPMed](#))  
Meta-analyses of Clinical Trial endpoints in women

## Objective 8: Workforce & Resources

Multidisciplinary/team science (e.g., trans-NIH collaboration)

# NHLBI MMM Future Research/Programs

***Focus of Maternal Health Programs: Women face increased risk of cardiovascular disease during and after pregnancy due to disruptions in sleep, blood pressure, and metabolism.***

- **Chronic Hypertension and Pregnancy (CHAP)** - Large multi-center trial evaluating the efficacy and safety of treating pregnant women for mild chronic hypertension (>140/90 mmHg)
- **nuMoM2b Heart Health Study** (NHLBI, NICHD, OBSSR, ORWH, ODP) - Effect of pregnancy outcomes (normal, preeclampsia, gestational diabetes, preterm birth) on the future risk of cardiovascular disease in women
- **NuMoM2b Sleep-Disordered Breathing Study** (NHLBI and NICHD) - Association between sleep disordered breathing and preeclampsia, hypertensive disorders of pregnancy, and gestational diabetes mellitus
- **Hispanic Community Health Study/Study of Latinos (SOL)** - Longitudinal cohort study of self-identified Mexican Americans, Puerto Ricans, Cuban Americans, and Central/South Americans; pregnancy-related complications (including pre-eclampsia, eclampsia, and gestational diabetes) were added as outcome measures in 2013
- **Effect of Preeclampsia on Cardiovascular Health (EPOCH)** - The goal of the study is to improve cardiovascular health in women, by learning how pregnancy affects heart disease later in life

