Overview of Maternal Health Characteristics and Outcomes

Presenter: Carolyn K. Nyamasege, PhD, MPH, MS

Maternal and Child Health Section

Bureau of Family Health and Nutrition

Division of Public Health Services

New Hampshire Department of Health and Human Services



Prioritized Health Indicators and Associated Risk Factors

Social Determinants of Health

- Location of unplanned, out of hospital birth places (i.e., en-route birth places)
- Insurance status at time of pregnancy and prior
- Housing status
- Food security
- Prenatal care utilization (timing of entry, adequacy of care, quantity of care
- Intimate partner violence
- Accessing family planning services

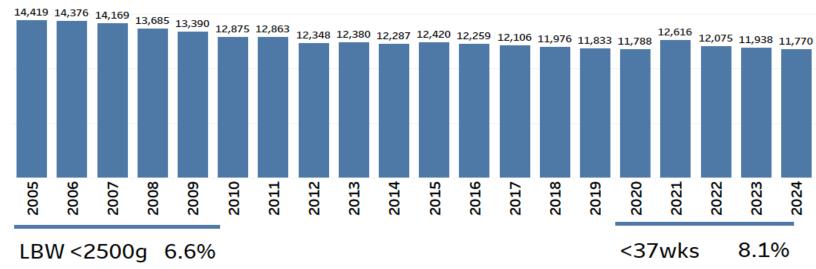
Clinical

- Substance Use Disorder (SUD) and Opioid Use Disorder (OUD) in pregnancy
- Perinatal Mental Health Conditions identified
- Breastfeeding rate, at discharge, at 6 weeks and at 6months postpartum
- Pre-Pregnancy BMI, Hypertension and Diabetes
- Severe Maternal Morbidity
- Maternal Mortality

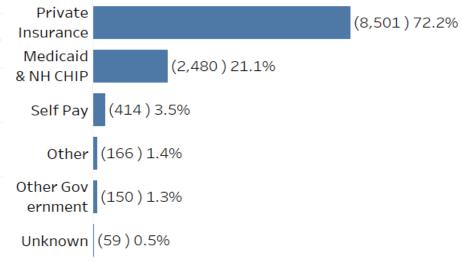


New Hampshire Birth Population

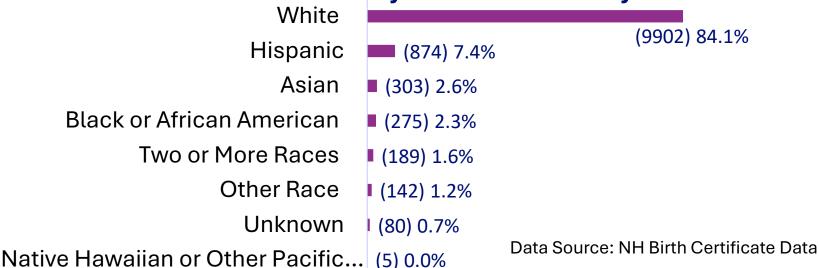
Trend of NH Residents Births



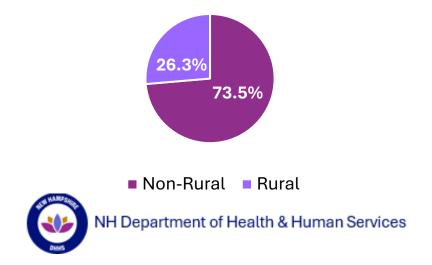
2024 NH Residents Births by Payor



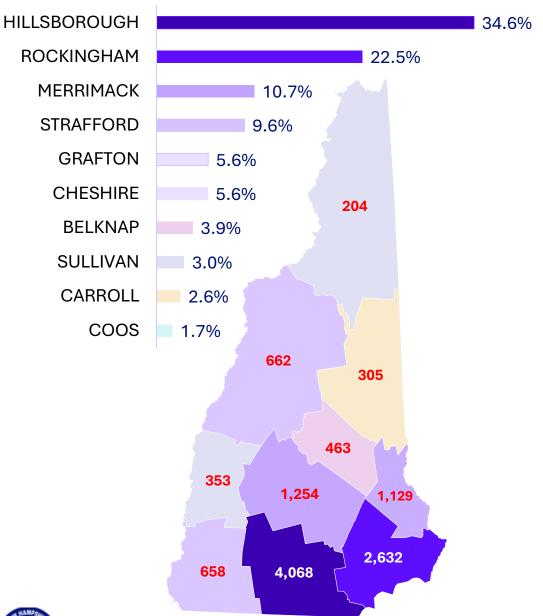
2024 NH Resident Births By Race and Ethnicity



2024 NH Resident Births by Rural Vs Non-Rural



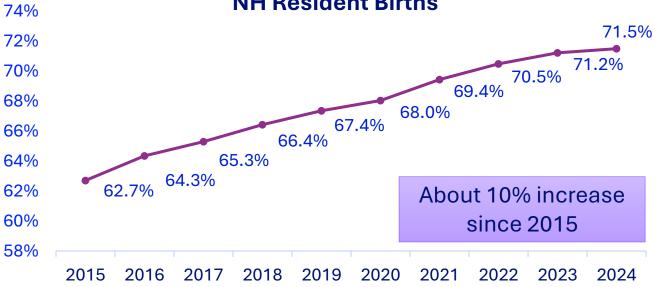
2024 NH Residents Births Occurring in Each NH County



Prevalence of Overweight and Obese Pre-Pregnancy BMI, 2024 NH Resident Births

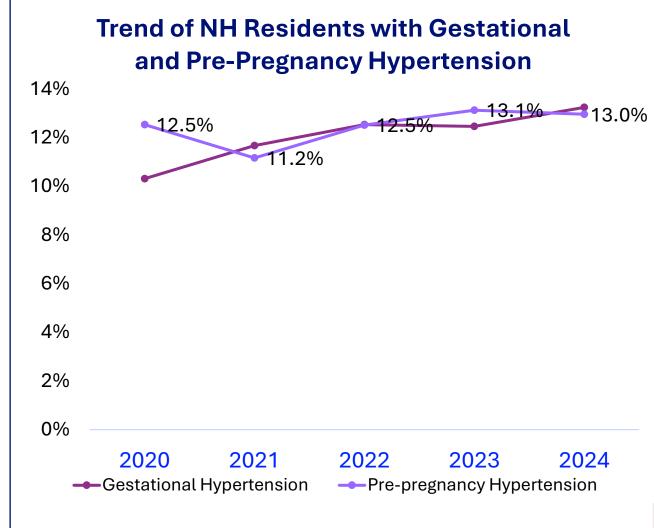


Trend of Pre-Pregnancy Overweight and Obesity, **NH Resident Births**

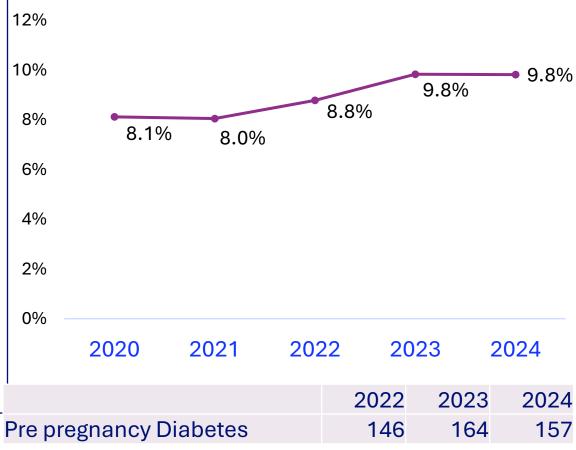




58%



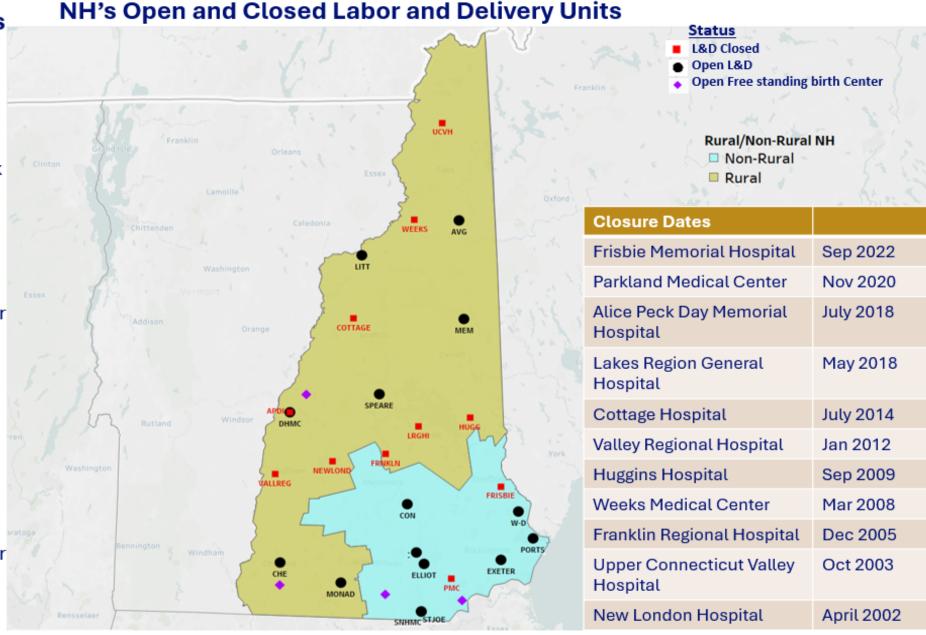
Trend of NH Residents with Gestational Diabetes





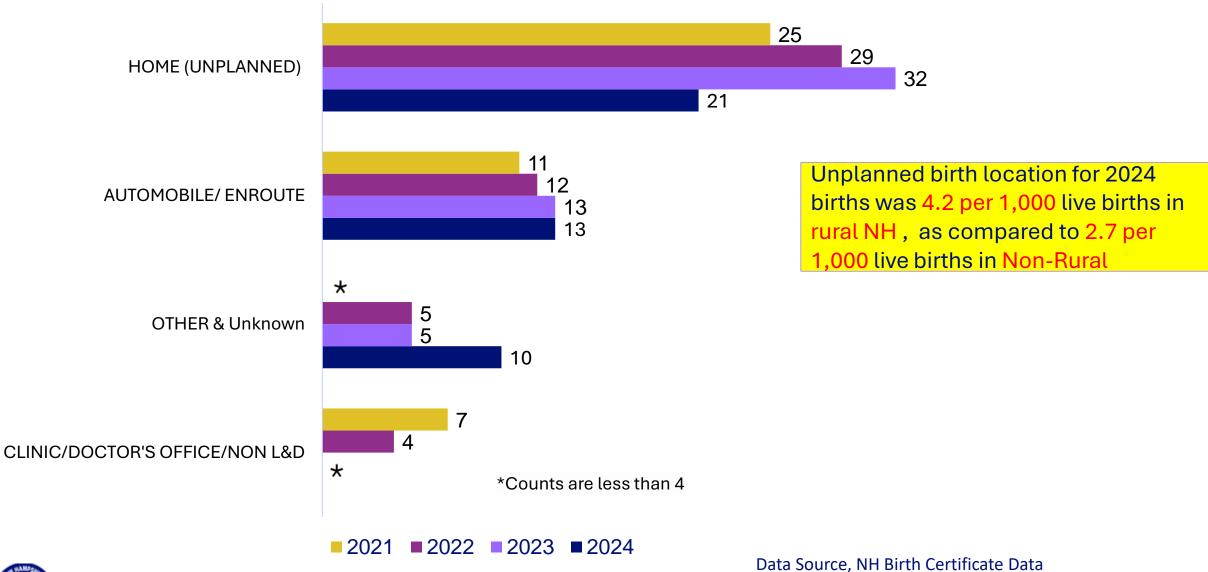
Open Birthing Hospitals

- AVG-Androscoggin Valley Hospital
- 2. LITT-Littleton Regional Healthcare
- 3. MEM-Memorial Hospital
- DHMC-Dartmouth-Hitchcock Medical CTR
- SPEARE Memorial Hospital
- SNHMC-Southern New Hampshire Medical CTR
- 7. Con-Concord Hospital
- 8. CMC-Catholic Medical Center
- W-D-Wentworth-Douglass Hospital
- 10. PORTS-Portsmouth Regional Hospital
- 11. EXETER Hospital
- 12. ELLIOT Hospital
- 13. ST. JOE-ST. Joseph Hospital
- 14. MONAD-Monadnock Community Hospital
- CHE-Cheshire Medical Center



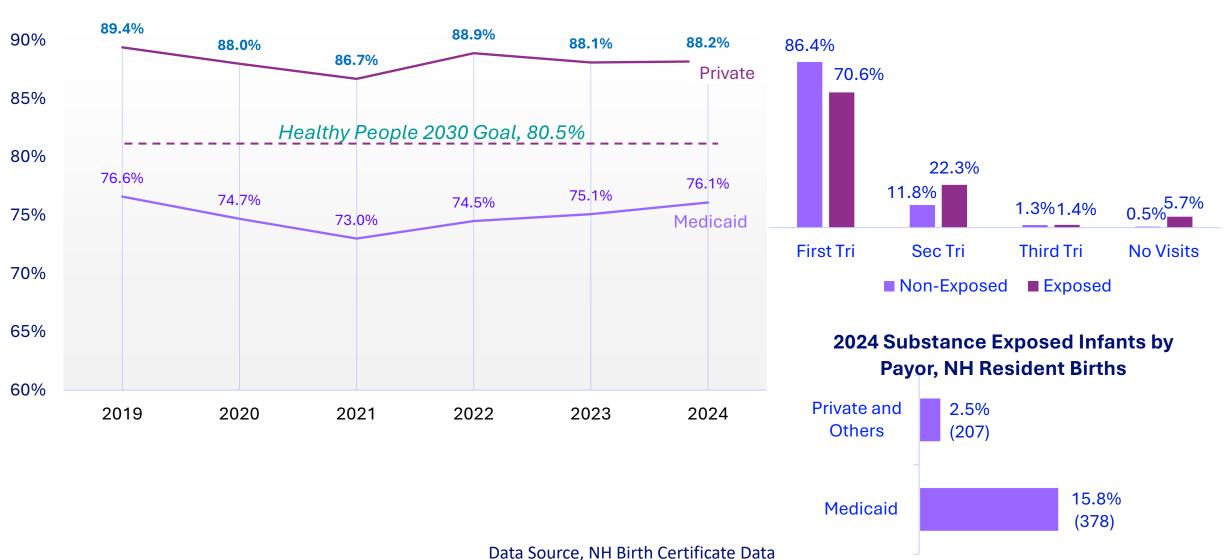


Total Births that Occurred in Specified Unplanned Birth Locations by Year



NH Residents Receiving Prenatal Care in the First Trimester

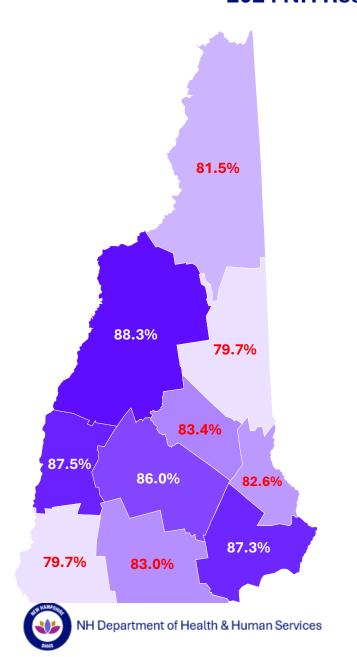
Entry Into Prenatal Care By Substance Exposure, 2024 NH resident Births



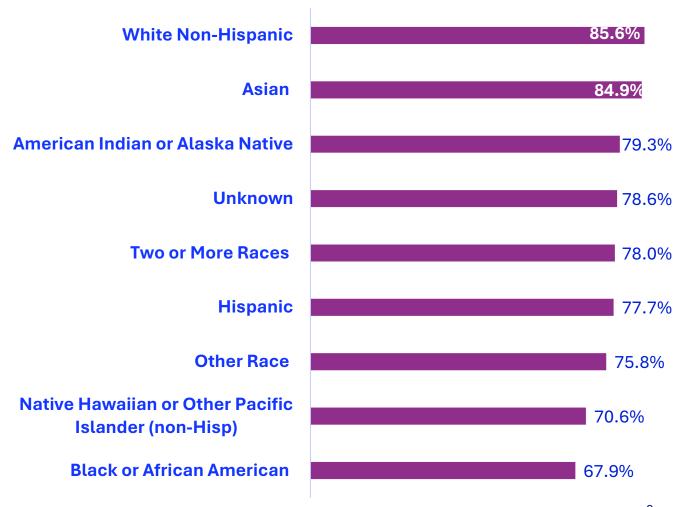


95%

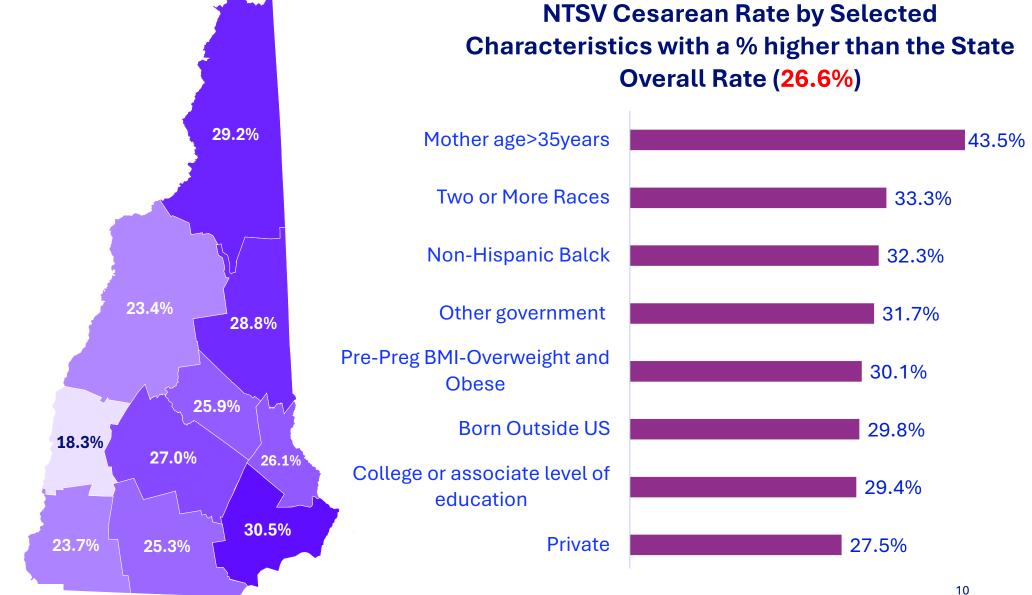
First Trimester Prenatal Care Entry by County of Residence, 2019-2024 NH Resident Births



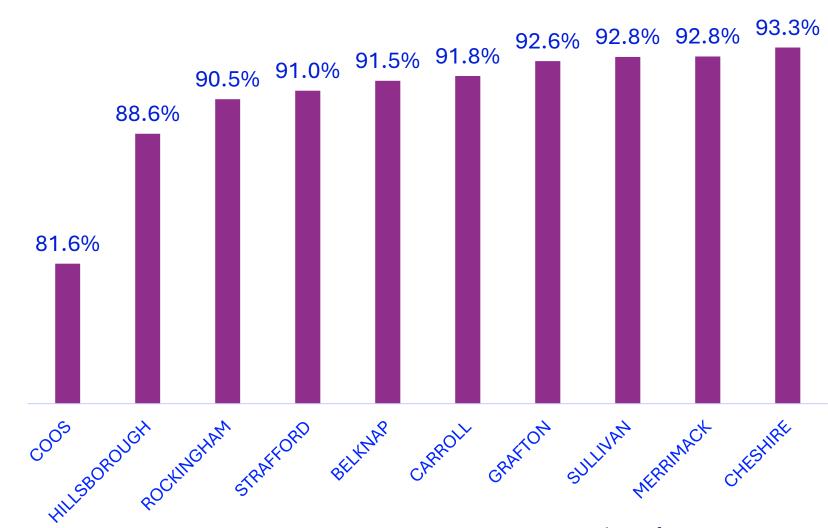
First Trimester Entry to Prenatal Care by Mother's Race and Ethnicity, 2019-2024 NH Resident Births



Percentage of Cesarean Deliveries Occurring Among Nulliparous, Term, Singleton, Vertex (NTSV) Pregnancies



Prevalence of Breastfeeding Rate at Discharge, 2024 Deliveries by Mother's County of Residence



78.0% reported breastfeeding for more than eight weeks PRAMS 2022

31.6% reported Exclusive
Breastfeeding for 6
months
55% Born outside U.S.
NSCH 2022-23

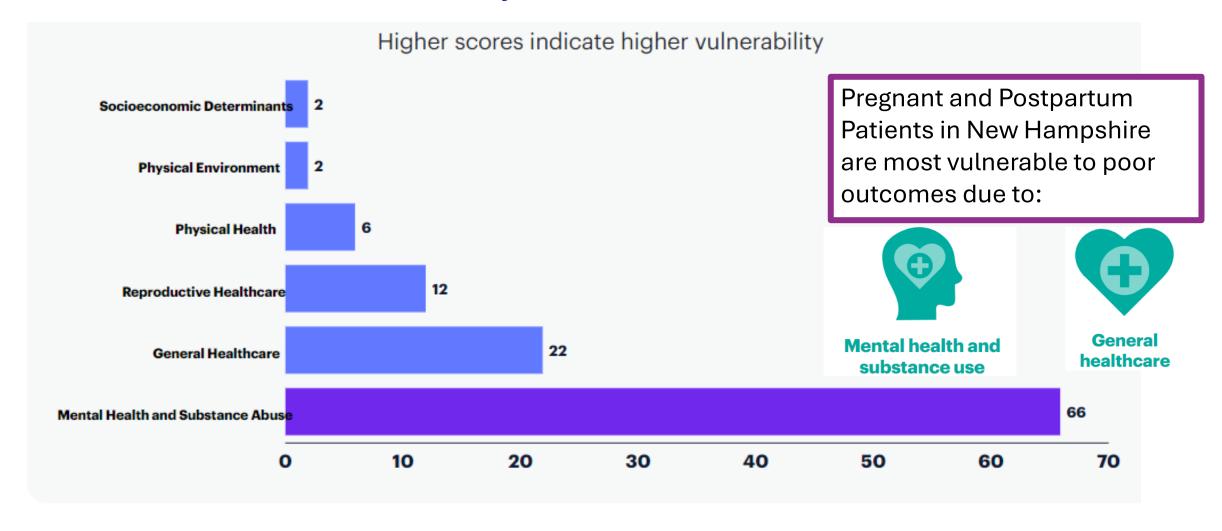
Lowest Breastfeeding Rates

- 2+ Adverse Childhood Experiences 21.6%
- High school graduate 19.6%
- Medicaid 20.4%
- Income-poverty ratio 100%-199% =24.0%
- Born in U.S.=23.9% NSCH 2022-23

Data Source, NH Birth Certificate Data



Factors Related to Maternal Vulnerability

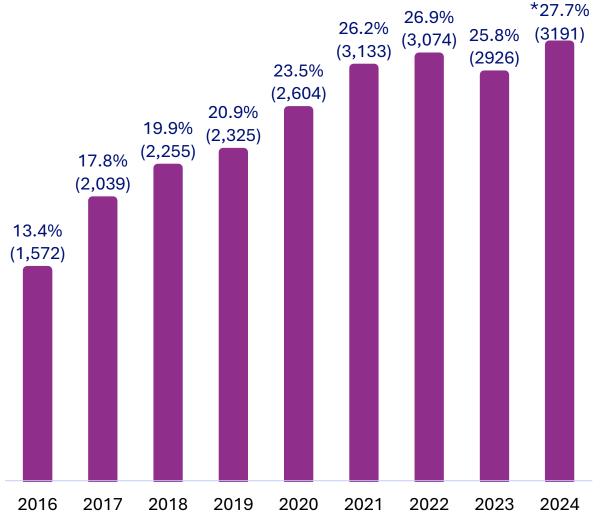


Notes: The Maternity Vulnerability Index (MVI) is a tool used to understand where birthing people in each state may be more likely to have poor outcomes, including preterm birth and maternal death, due to clinical risk factors and other social, contextual, and environmental factors. Visit https://mvi.surgoventures.org.

Source: Surgo Health, Maternal Vulnerability Index, 2023.



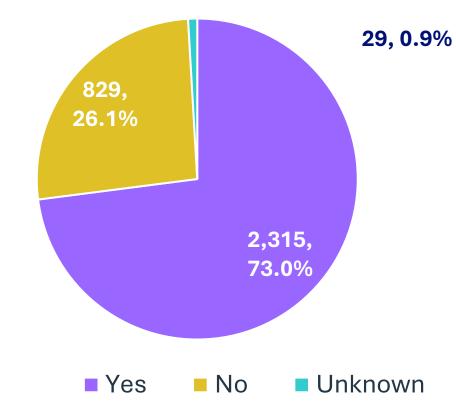
Trend of Diagnosed Perinatal Mental Health Conditions Occurring in NH Birthing Hospitals



(NH Delivery Hospitalization Data and *NH Vital Records Birth Certificate Data,

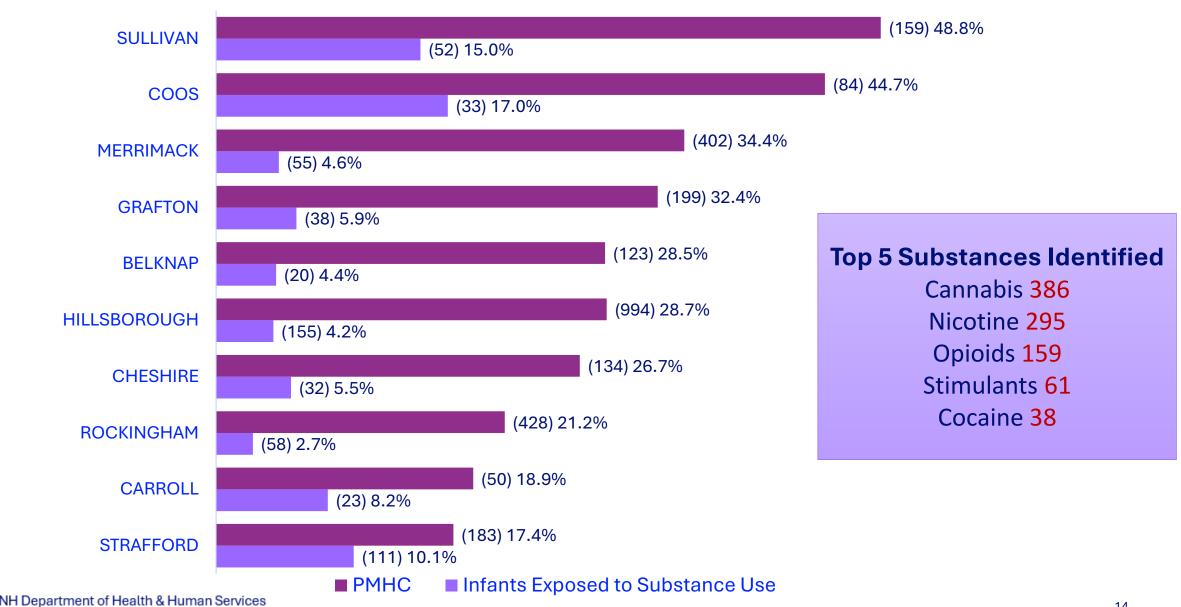


Percentage of Patients with a PMHC Who Were Treated or Referred, 2024 Occurrent Births

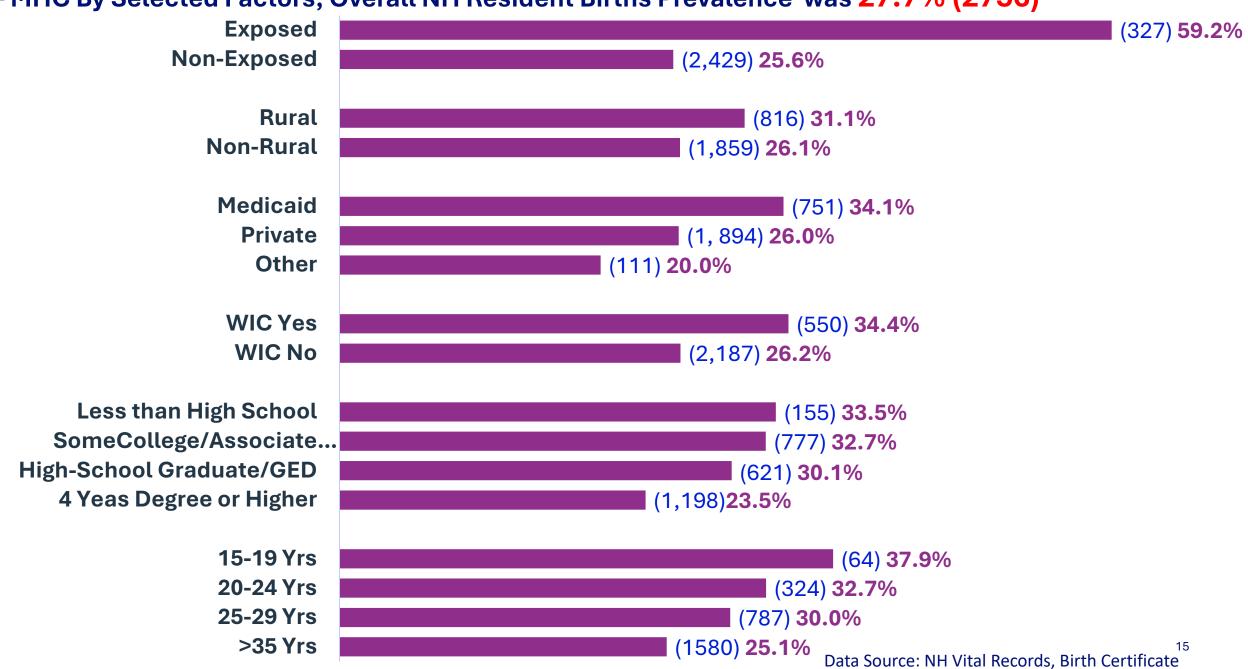




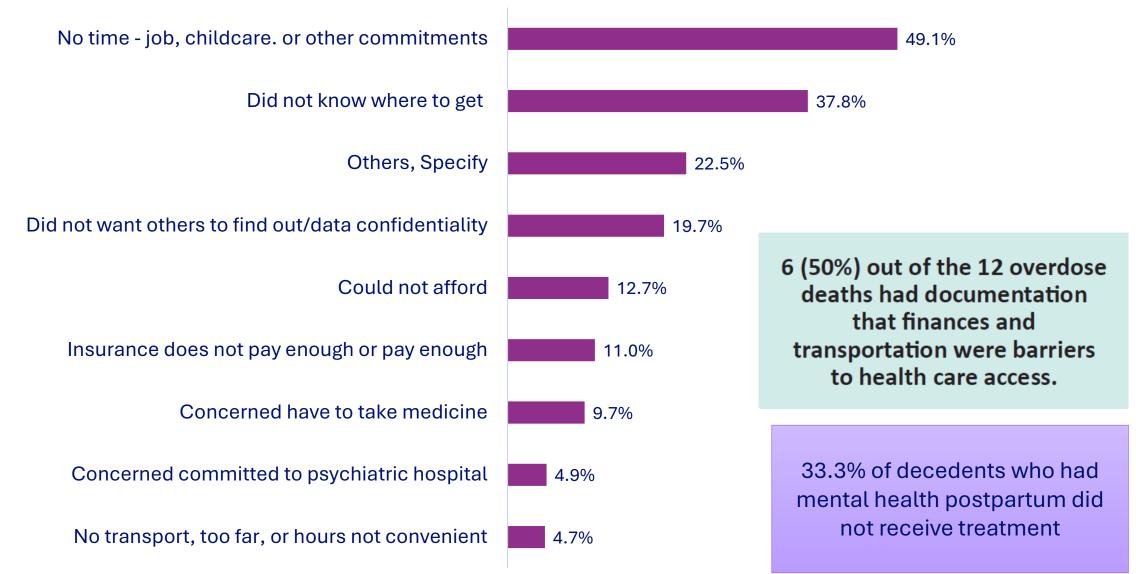
Mothers With a Perinatal Mental Health Diagnosis and Infants Monitored for Substance **Exposure by County of Residence, 2024 Resident Births Occurring in NH**



PMHC By Selected Factors; Overall NH Resident Births Prevalence was 27.7% (2756)

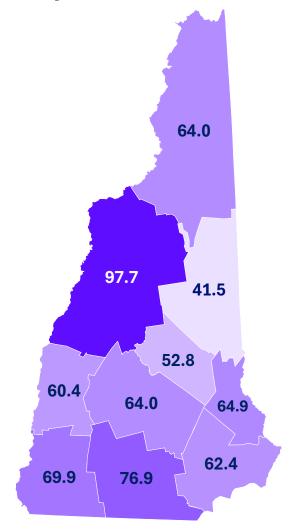


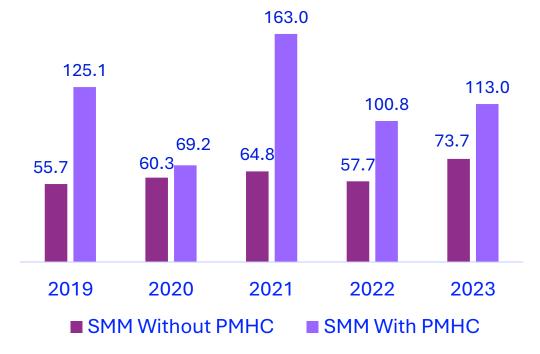
Barriers to seeking mental health services, PRAMS 2022 SDOH Supplement



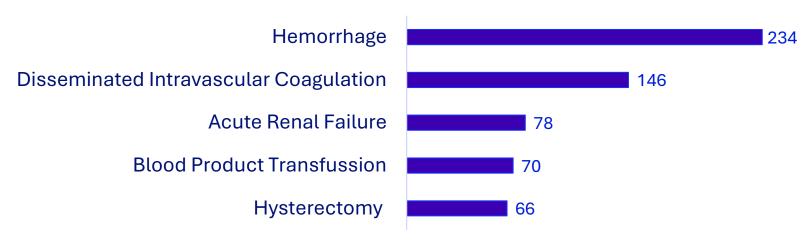
Rate of Severe Maternal Morbidity (SMM) By County of Residence, 2016-2023

The SMM Rate Nearly Doubles Among Those with a Perinatal Mental Health Diagnosis, NH Deliveries

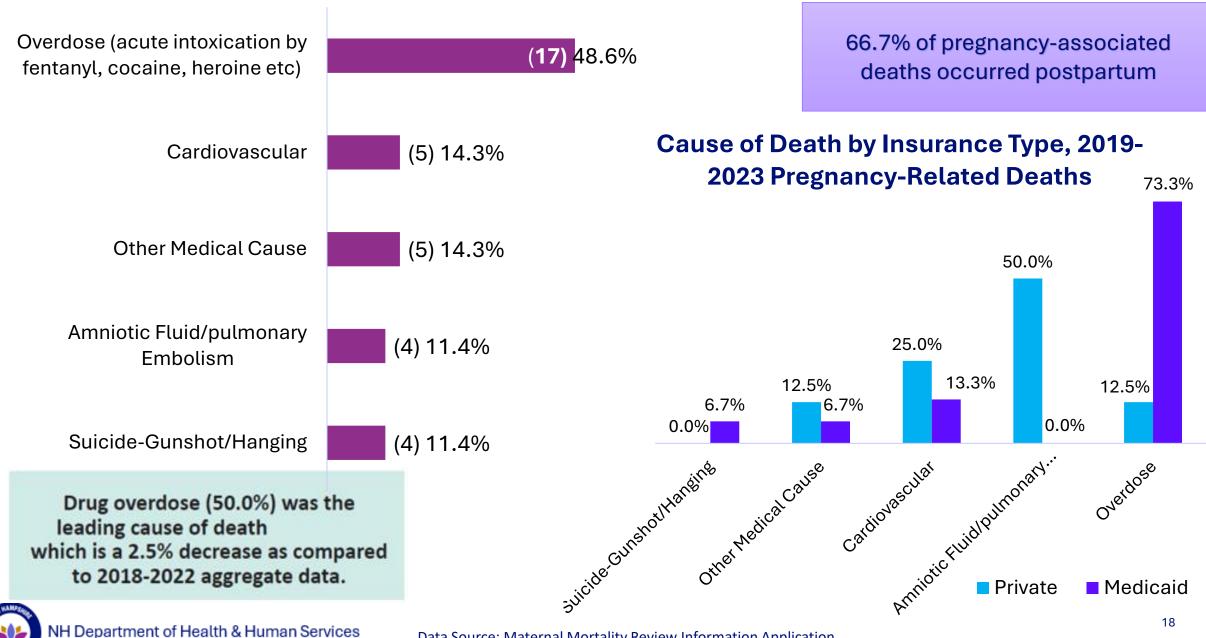




Top 5 Conditions Reported Between 2019-2023



Causes of Pregnancy-Associated Deaths Among NH Residents (2019-2023)





THANK YOU! QUESTIONS

Contact us:

Carolyn.K.Nyamasege@affiliate.dhhs.nh.gov

Scan me!!





The NH PQC Tableau Public Site with Data Dashboards