

# Montana Maternal Health Key Indicators

Annie Glover, PhD, MPH, MPA  
Director of Research



CENTER FOR CHILDREN, FAMILIES  
AND WORKFORCE DEVELOPMENT

# Maternal Mortality



- Pregnancy-related deaths per 100,000 live births
  - United States: 29.6
  - Montana: 40.7
    - National rank: 6<sup>th</sup> highest rate among 50 states
    - Regional rank: Highest rate in Western states
  - AI/AN population in Montana: 167.2
  - Non-Hispanic white population in Montana: 23.9
  - Healthy People 2020 goal: 11.4
- National maternal mortality has more than doubled since 1987
  - Racial disparities are driving much of the increase

Source: Rate from CDC Wonder, 2019 report of 5-year (2013-17) pregnancy-related death rate estimate; Rankings by America's Health Rankings, United Health Foundation

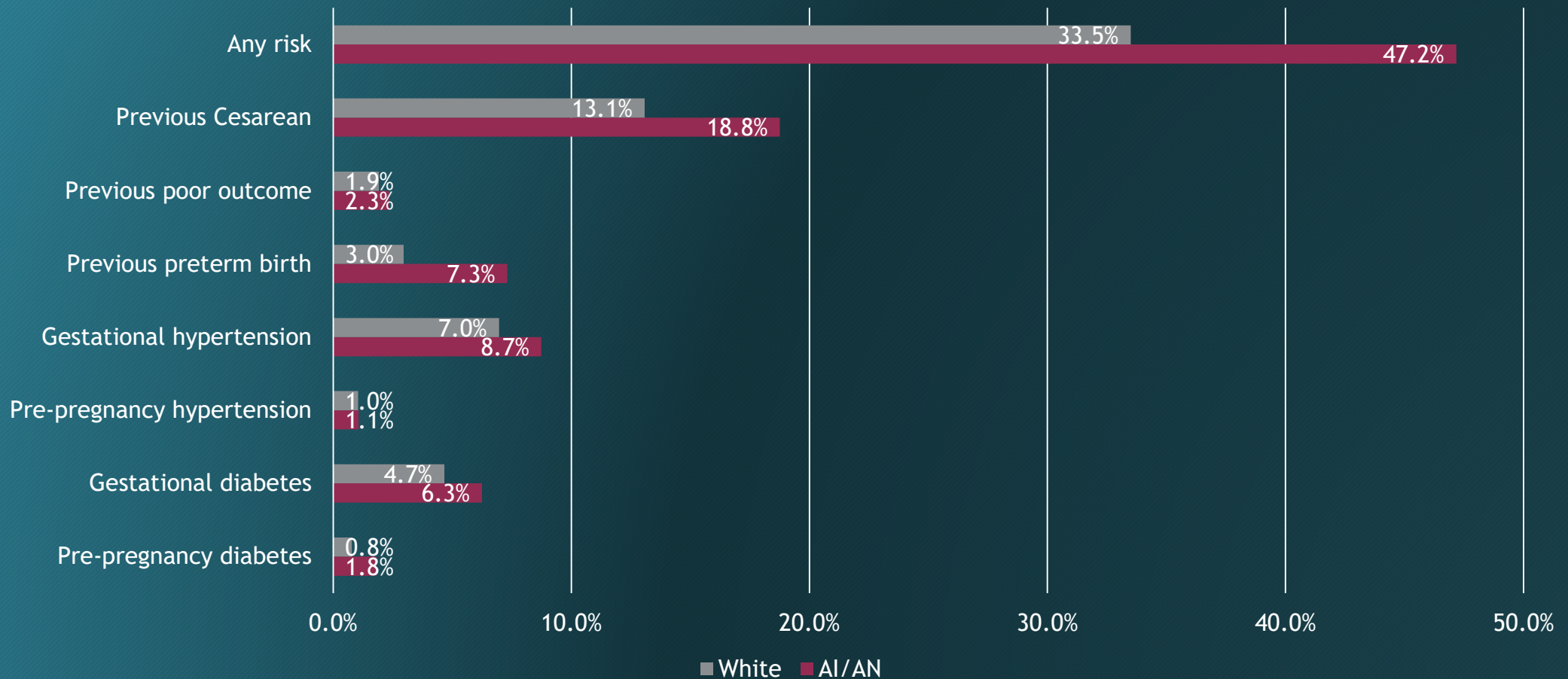
# Severe Maternal Morbidity

- Qualifying conditions and complications per 10,000 hospital-based deliveries
  - Montana: 194
  - United States: 144
- Most common SMM subtypes in Montana: blood transfusions, sepsis, eclampsia, and hysterectomy.
- National disparities:
  - AI/AN population: 206
  - Non-Hispanic white population: 139



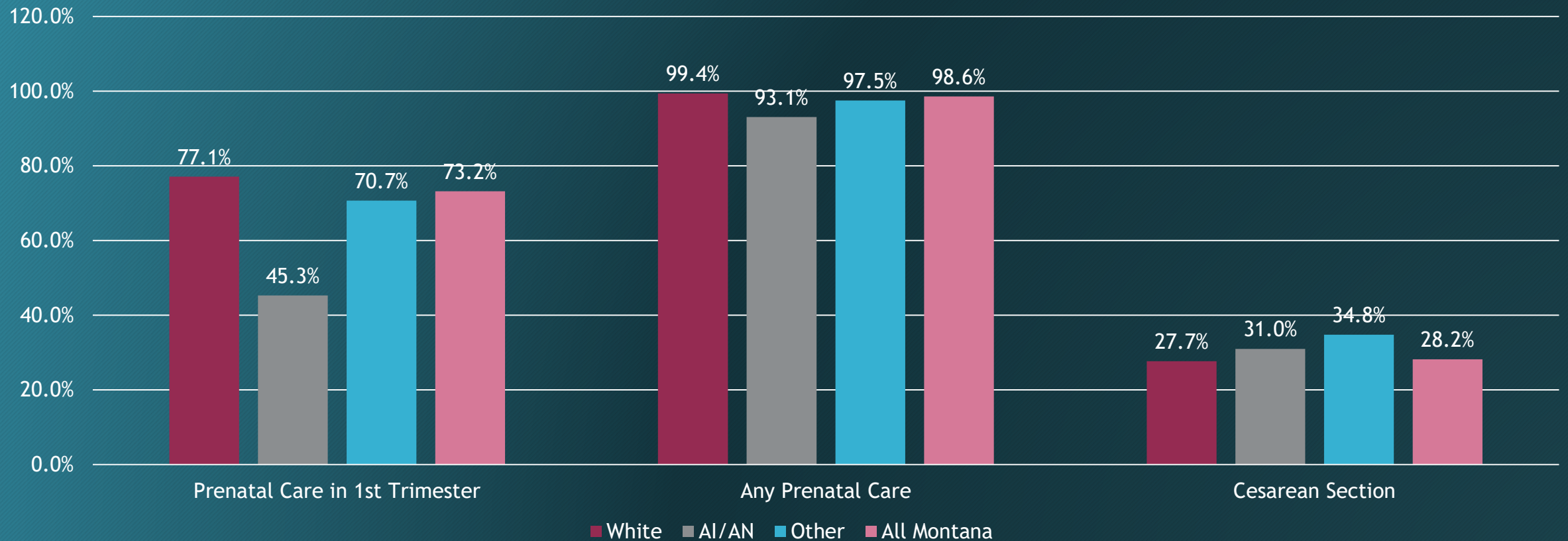
# Pregnancy Risk Factors

RACIAL DISPARITIES IN RISK FACTORS (% OF LIVE BIRTHS, 2014-2018, MONTANA VITAL RECORDS)



# Prenatal Care Utilization

RACIAL DISPARITIES IN MATERNAL HEALTHCARE (% OF LIVE BIRTHS, 2018, MONTANA VITAL STATS)



# Maternal Health Report 2020: Additional Topics

- Mental health
- Alcohol & substance Use
- Pregnancy during adolescence
- Family planning & STI
- Rural disparities
- Health insurance coverage
- Primary care



# Definitions: Mortality

- **Pregnancy-related death:** Death of a woman while pregnant or within 1 year of the end of a pregnancy—regardless of the outcome, duration, or site of the pregnancy—from any cause related to or aggravated by the pregnancy or its management, excluding accidental or incidental causes
- **Pregnancy-associated death:** Death of a woman, from any cause, while she is pregnant or within 1 year of termination of pregnancy.
- **Maternal death:** Death of a woman while pregnant or within 42 days of termination of pregnancy, excluding accidental/incidental causes.

# Definitions: Morbidity

**Severe maternal morbidity: Unexpected outcomes of labor and delivery that result in significant short- or long-term consequences to a woman's health.**

acute myocardial infarction	eclampsia	sickle cell disease with crisis
aneurysm	heart failure/arrest during surgery or procedure	air and thrombotic embolism
acute renal failure	puerperal cerebrovascular disorders	blood products transfusion
adult respiratory distress syndrome	pulmonary edema/acute heart failure	hysterectomy
severe anesthesia complications	severe anesthesia complications	temporary tracheostomy
cardiac arrest/ventricular fibrillation	sepsis	blood products transfusion
conversion of cardiac rhythm	shock	ventilation
disseminated intravascular coagulation		



# References

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DPHHS. Hospital Discharge Data System Secondary Hospital Discharge Data System 2017

Creanga AA, Bateman BT, Kuklina EV, Callaghan WM. Racial and ethnic disparities in severe maternal morbidity: a multistate analysis, 2008-2010. Am J Obstet Gynecol 2014;210(5):435.e1-35.e8 doi: 10.1016/j.ajog.2013.11.039