Montana Maternal Health
Key Indicators

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Director of Research
Maternal Mortality

- Pregnancy-related deaths per 100,000 live births
  - United States: 29.6
  - Montana: 40.7
    - National rank: 6th 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

Sources: 2017 Montana Hospital Discharge Data; ACOG SMM Screening and Review
Pregnancy Risk Factors

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

- Any risk: 33.5% (White), 47.2% (AI/AN)
- Previous Cesarean: 13.1% (White), 18.8% (AI/AN)
- Previous poor outcome: 1.9% (White), 2.3% (AI/AN)
- Previous preterm birth: 3.0% (White), 7.3% (AI/AN)
- Gestational hypertension: 7.0% (White), 8.7% (AI/AN)
- Pre-pregnancy hypertension: 1.0% (White), 1.1% (AI/AN)
- Gestational diabetes: 4.7% (White), 6.3% (AI/AN)
- Pre-pregnancy diabetes: 0.8% (White), 1.8% (AI/AN)
Prenatal Care Utilization

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

- Prenatal Care in 1st Trimester:
  - White: 77.1%
  - AI/AN: 45.3%
  - Other: 70.7%
  - All Montana: 73.2%

- Any Prenatal Care:
  - White: 99.4%
  - AI/AN: 93.1%
  - Other: 97.5%
  - All Montana: 98.6%

- Cesarean Section:
  - White: 27.7%
  - AI/AN: 31.0%
  - Other: 34.8%
  - All Montana: 28.2%
Maternal Health Report 2020: Additional Topics

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

Source: Centers for Disease Control & Prevention
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.

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

Source: Centers for Disease Control & Prevention


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