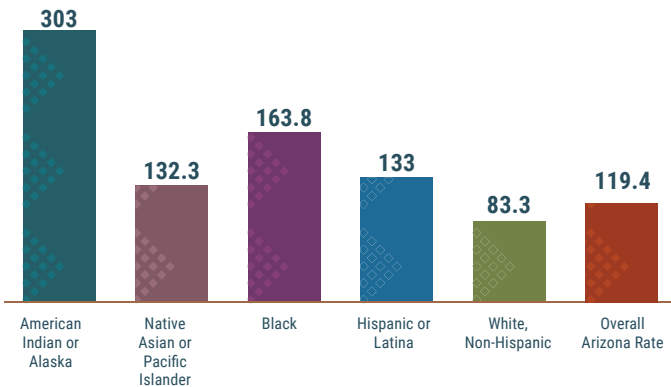


ITCA MATERNAL HEALTH INNOVATION DATA SUMMARY

This document contains a summary of the key American Indian and Alaska Native (AI/AN) data points that were presented to the Inter Tribal Council of Arizona (ITCA) Maternal Health Innovation Steering Committee from October 2021 - August 2022.

SEVERE MATERNAL MORBIDITY (SMM) RATES

SMM Rate by Race and Ethnicity
(2016-2019)¹



Top Diagnosis Indicators of SMM for AI/AN Women (2016-2019)¹

Acute Renal Failure	11.5%
Adult Respiratory Distress Syndrome	9.7%
Pulmonary Edema / Acute Heart Failure	7.7%
Shock	6.9%
Disseminated Intravascular Coagulation	4.3%
Sepsis	4.3%

Top AI/AN SMM Diagnosis Codes within the IHS 2011-2015 Hospital Data

(n=18), ICD-9 Code²

Complications during procedure or surgery	44%
Disseminated intravascular coagulation	28%
Adult Respiratory Distress Syndrome	11%

Top AI/AN SMM Procedure Codes within the IHS 2011-2015 Hospital Data

(n=86), ICD-9 Code²

Blood transfusion	98%
Operations of the heart and pericardium	5%
Cardio monitoring	3%
Hysterectomies	3%

Top AI/AN SMM Diagnosis Codes within the Arizona 2011-2015 Hospital Discharge Data

(n= 34), ICD-9 Code²

Adult Respiratory Distress Syndrome	44%
Disseminated intravascular coagulation	44%
Pulmonary Edema	15%
Sepsis	15%

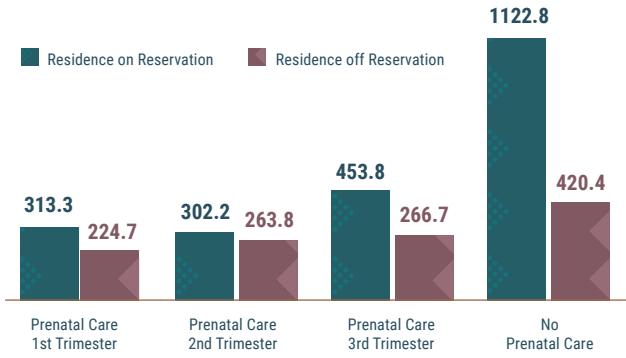
Top AI/AN SMM Procedure Codes within the Arizona 2011-2015 Hospital Discharge Data

(n= 391), ICD-9 Code²

Blood transfusion	92%
Operations of the heart and pericardium	7%
Hysterectomies	6%

ITCA MATERNAL HEALTH INNOVATION DATA SUMMARY

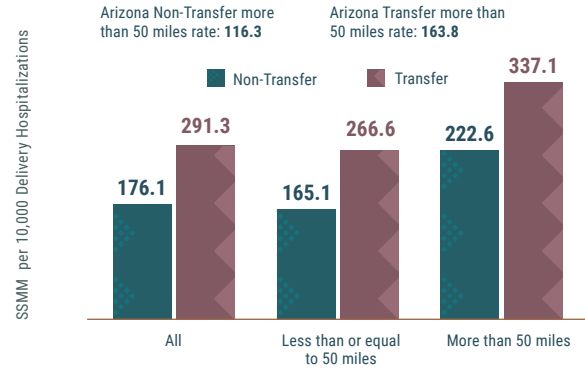
SMM Rate for AI/AN Women by Initiation of Prenatal Care (2016-2019)¹



*per 10,000 Arizona Resident Delivery Hospitalizations

SMM rates in Arizona among AI/AN deliveries from 2016 through 2019 were **highest** among births **paid primarily through self-pay**.³

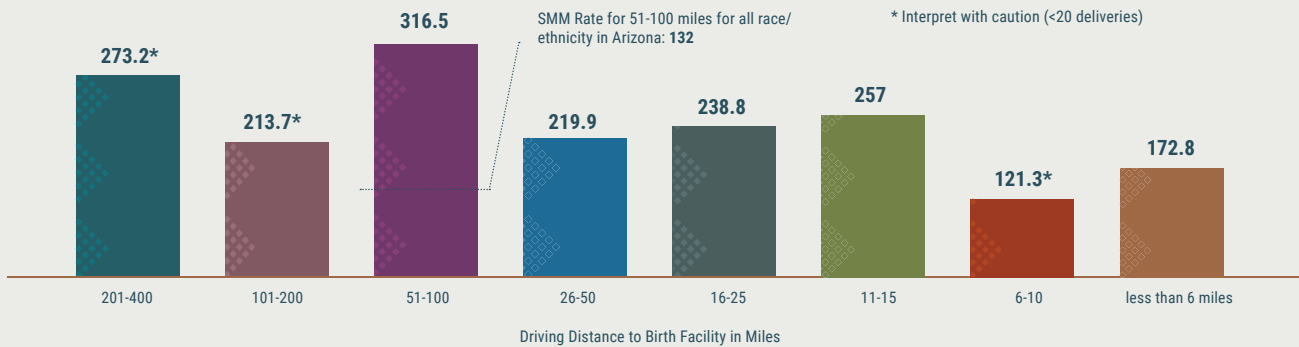
SMM Rate for AI/AN by Driving Distance and Transfer to Birth Facility Among Term Singleton Arizona Resident Delivery Hospitalizations (2016-2019)



Arizona Non-Transfer more than 50 miles rate: 116.3
Arizona Transfer more than 50 miles rate: 163.8

SMM rates for AI/AN among term singleton Arizona resident delivery hospitalizations from 2016-2019 were **higher** for patients who were **transferred into the birthing facility** and had **higher travel distance** from their residence.³

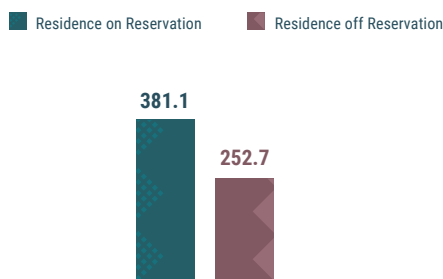
SMM Rate of Severe Maternal Morbidity for AI/AN by Driving Distance to Birth Facility Zip Code from Residence Zip Code Among Term Singleton Arizona Resident Delivery Hospitalizations (2016-2019)



SMM Rate for 51-100 miles for all race/ethnicity in Arizona: 132

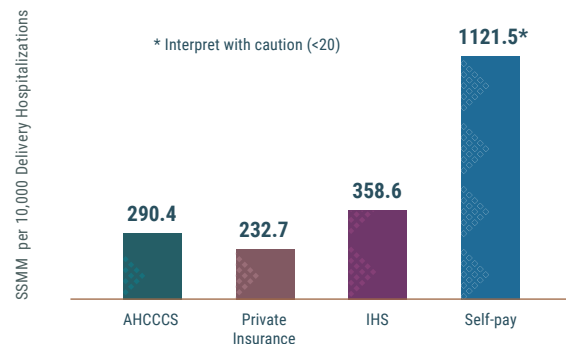
* Interpret with caution (<20 deliveries)

SMM Rate for AI/AN Women by Residence (2016-2019)¹



*per 10,000 Arizona Resident Delivery Hospitalizations

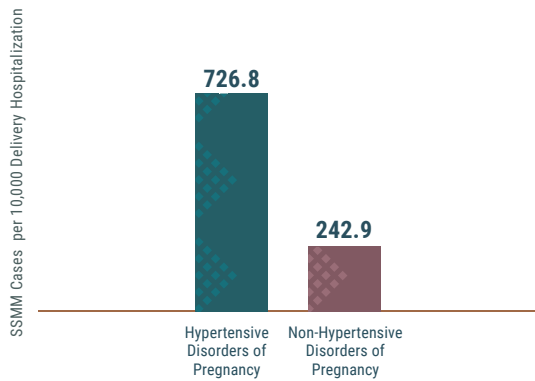
SMM Rate by Primary Payer Type Among Arizona Resident AI/AN deliveries (2016-2019)



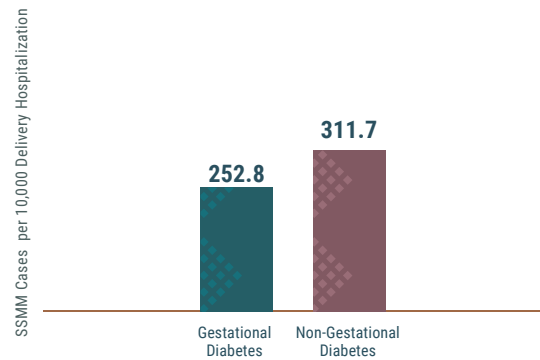
* Interpret with caution (<20)

ITCA MATERNAL HEALTH INNOVATION DATA SUMMARY

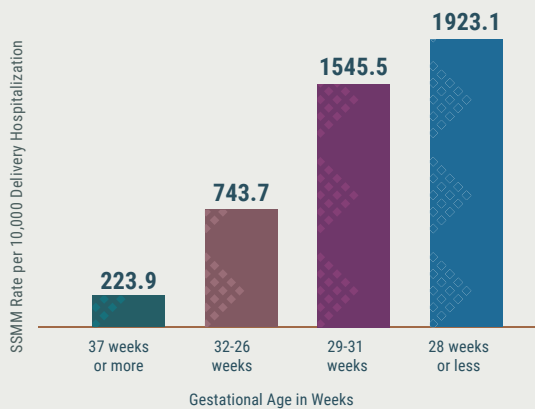
SMM Rate by Hypertensive Disorders of Pregnancy
Among Arizona Resident American Indian or Alaska Native Delivery Hospitalizations (2016-2019)



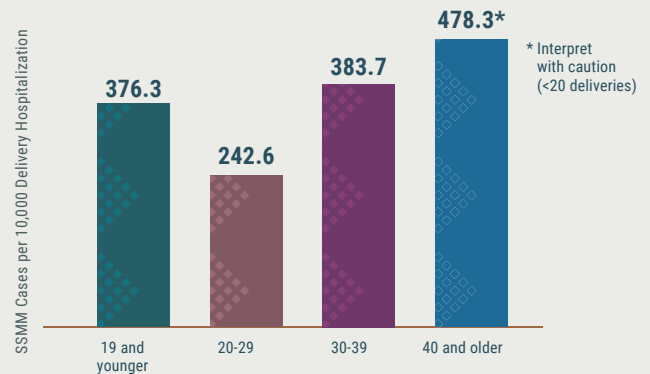
SMM Rate by Gestational Diabetes
Among Arizona Resident American Indian or Alaska Native Delivery Hospitalizations (2016-2019)



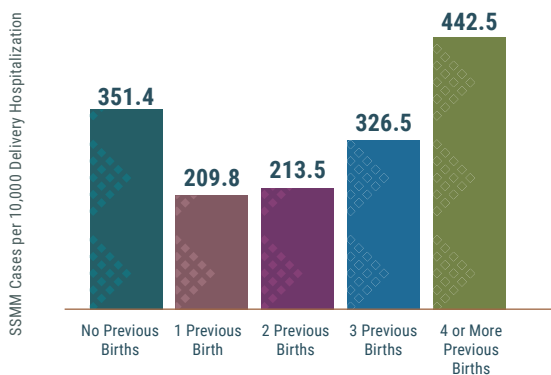
Rate of Severe Maternal Morbidity by Gestational Age for AI/AN
Among Arizona Resident Delivery Hospitalizations (2016-2019)



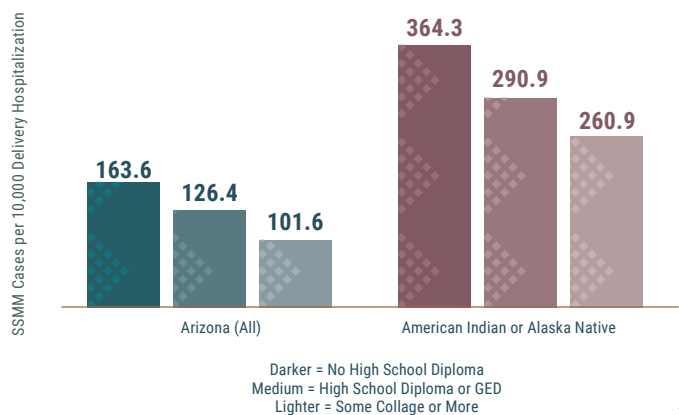
SMM Rate by Maternal Age
Among Arizona Resident American Indian or Alaska Native Delivery Hospitalizations (2016-2019)



SMM Rate by Number of Previous Live Births
Among Arizona Resident American Indian or Alaska Native Delivery Hospitalizations (2016-2019)



SMM Rate by Level of Completed Education by Race & Ethnicity
Among Arizona Resident American Indian or Alaska Native Delivery Hospitalizations (2016-2019)



ITCA MATERNAL HEALTH INNOVATION DATA SUMMARY

MATERNAL MORTALITY RATES AND INFANT MORTALITY RATES

Summary of Maternal Mortality

Among AI/AN Women in Arizona (2016-2018)¹

Total Maternal Deaths	24 11.8% of all deaths in Arizona
Percent of Maternal Deaths that were Preventable	88%
Percent of Maternal Deaths that were Pregnancy-Associated but Not Related <small>Pregnancy-related counts are too small to report</small>	79%
Pregnancy Associated Mortality Ratio (PAMR) Per 100,000 live births	160.5 <small>PAMR for all AZ is 80.5</small>

Manner of Death for AI/AN Women in Arizona (2016-2018)¹

Accident (Motor Vehicle)	29%
Suicide or Homicide	29%
Natural Deaths	25%
Accident (Overdose)	**

** Percentages are too low to report, but manners of death are listed in order of highest incidence

Factors Contributing to Death (yes/probably) for AI/AN Women in Arizona (2016-2018)¹

Mental Health	33%
Substance Abuse Disorder	38%

Definitions

Pregnancy-Associated: The death of a woman during pregnancy or within one year of the end of pregnancy, regardless of the cause.¹

Pregnancy-Related: The death of a woman during pregnancy or within one year of the end of pregnancy, from a pregnancy complication, a chain of events initiated by pregnancy, or the aggravation of an unrelated condition by the physiologic effects of pregnancy.¹

► In 2020, the **Maternal Mortality Rate** for AI/AN women living in Arizona was **70.8** deaths per 100,000. This rate is higher than the overall maternal mortality rate across all populations in Arizona (27.3), and the national average of 21.5.5

► In 2019, the **Infant Mortality Rate** for American Indian infants in Arizona was **9.8** deaths per 1,000 live births. This rate is higher than the overall infant mortality rate across all populations in Arizona (5.6), and the national average of 5.8.5