# Salt Lake City Urban Indian Health Program

Community Health Profile & Individual Site Report





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Urban Indian Health Institute would like to thank the staff at the urban Indian health and social service organizations nationwide for the excellent work they do daily on behalf of their communities.

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#### Terminology

The authors use the terms "Native", "Indian", "Indigenous" and "American Indian and Alaska Native" interchangeably throughout this report. The demographic terminology included in source material is referenced when appropriate.

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## **EXECUTIVE SUMMARY**

Urban Indian Health Institute (UIHI) analyzed data from the American Community Survey (ACS), the National Vital Statistics System (NVSS), National Notifiable Disease Surveillance System (NNDSS), and Behavioral Risk Factor Surveillance System (BRFSS) to describe health outcomes among urban American Indians and Alaska Natives across more than 30 health indicators.

This Community Health Profile aggregates data on the sociodemographics, maternal and child health, infectious disease, and mortality of American Indians and Alaska Natives (Al/ANs) in the Salt Lake City UIH service area. The data in this report are five-year estimates from 2013 to 2017.

Key findings show that urban American Indians and Alaska Natives (AI/AN) frequently experience higher proportions of poverty and inequities in disabled status, infant and maternal health, and household income when compared to their non-Hispanic White (NHW) counterparts. We acknowledge the role colonization has had on Indigenous communities and the health indicators listed in this report.

As this profile may show, there is still work to be done from local, state, and federal entities to collect quality, accurate data. Urban Indian Health Programs should work closely with their local and state health jurisdictions to access the most current data and, where possible, urge better tracking of demographics to inform care.

### **KEY FINDINGS**

The proportion of AI/AN children aged 17 years or younger whose household income was below the federal poverty level was 3.6 times that of NHW children (26.0% vs 7.2%).

The proportion of SNAP participation among AI/AN households was 4.1 times that of the NHW population (24.8% vs 6.1%).

The proportion of disability in AI/AN children aged 17 years and younger was lower than that of NHW children of the same age range (2.9% vs 3.5%).

The proportion of births to AI/AN teenage women were 2.8 times that of NHW teenage women (7.4% vs 2.6%).

Pregnant AI/AN women were 2.4 times as likely as pregnant NHW women to be diagnosed with gestational diabetes (11.1% vs 4.7%).

Pregnant AI/AN women were no more likely than NHW women to give birth to an infant at a low birthweight (7.0% vs 6.7%).

AI/AN newborns were no more likely than NHW newborns to be admitted to the NICU (11.6% vs 10.4%).

The age-adjusted all-cause mortality rate for the Al/AN population was approximately 20.4% lower than the mortality rate of the NHW population (591.4 deaths per 100,000 vs 742.8 deaths per 100,000).

AI/AN individuals were no more likely than NHW individuals to die by suicide (21.0% vs 23.5%).

### INTRODUCTION

Across the United States, an examination of the health outcomes of urban Native people shows a disproportionately high incidence of disease, co-morbidity, and mortality, particularly among mothers. This is significant because, of the 5.2 million Americans who identify as American Indian and/or Alaska Native, 71% live in urban areas.<sup>1</sup> To meet their health needs, numerous health and social service programs provide culturally attuned and holistic care. Many offer services that are grounded in Indigenous knowledge and bring traditional and Western medicine together.

As Urban Indian Health Programs and other Urban Indian Organizations strive to provide the highest-quality care to urban Native people, relevant data are needed. Since 2000, Urban Indian Health Institute (UIHI) has created an aggregate Community Health Profile (CHP), along with individual CHPs for each of the UIH sites serving the urban Indigenous population in their area.

#### Who are urban Indians?

Urban Indians are tribal members who are currently living outside of federally defined tribal lands in U.S. cities.<sup>1</sup> For many Native communities, systemic issues such as racism, poverty, and poor education have given rise to health disparities.<sup>2</sup> For urban Indians, government policies that forced relocation in the 1950s, and termination policies that forced assimilation into non-Native culture, have had long-term negative health effects.<sup>2</sup> Indigenous people come to cities for educational, employment, or housing opportunities and health care needs, resulting in an Indigenous urban population that is diverse and inter-tribal.

#### How to use this report

Improving community health through effective planning and decision making requires reliable information.<sup>2</sup> This CHP provides an overview of the health status of American Indian and Alaska Native populations who reside in the UIH service areas (Appendix A: Service Areas). While limited in scope and restricted to available data, this report provides valuable information for service providers serving an urban Indian population with unique needs and health priorities. The report is intended for use as a supplement to other local data available and can be used for program planning, applying for funding, identifying gaps in data, and conducting research.



# **METHODS AND DATA**

#### THIS REPORT INCLUDES INFORMATION FROM RESIDENTS OF THE SALT LAKE CITY UIH SERVICE AREA, INCLUDING DAVIS COUNTY, SALT LAKE COUNTY, TOOELE COUNTY, UTAH COUNTY, WEBER COUNTY, USING THE FOLLOWING DATA SOURCES:

- American Community Survey, 2013–2017
- 2010 U.S. Census, 2013–2017
- National Vital Statistics System; Death Certificates, 2013–2017
- National Vital Statistics System; Birth Certificates, 2013-2017
- National Notifiable Disease Surveillance System, 2013–2017
- Behavioral Risk Factor Surveillance System, 2013–2017

There are limitations to this data, particularly due to variations in how race is defined and collected.

#### **Data Sources**

#### 2010 U.S. Census

The U.S. Census takes place every 10 years and provides official population counts for individuals living in the United States. It also presents information on age, race, Hispanic origin, and sex. Starting in 2000, the U.S. Census allowed individuals to self-report belonging to more than one racial group. Prior to the 2000 U.S. Census individuals could only select one racial group. When determining a population count, this report considers people to be AI/AN if they report AI/AN as their only race or, if available, they report being AI/AN in combination with other races.

For more information about the U.S. Census, visit: www.census.gov

#### American Community Survey

The American Community Survey (ACS) is a nationwide survey that collects demographic, housing, social, and economic data every year. To provide reliable estimates for small counties, neighborhoods, and population groups, the ACS provides one-, three-, and five-year aggregate estimates.

Race is self-reported in ACS with similar race categories as the U.S. Census. However, some ACS data are not easily accessible for multiple racial groups. Therefore, ACS data are reported for AI/AN alone in this report. ACS estimates in this profile are not adjusted for age. Observed differences in estimates may be due to a true difference in proportions or due to differences in age distribution in the population.

For more information about the ACS, visit: www.census.gov/acs

#### National Vital Statistics System

Mortality data from the National Vital Statistics System (NVSS) is generated from death certificates. All mortality data are age-adjusted to the U.S. population for the year 2000. Age-adjusted death rates are useful when comparing different populations because they remove the potential bias that can occur when comparing populations with different age distributions. For example, Al/ANs historically are a younger population than other racial groups.

Birth certificate data from NVSS data files include all documented births occurring within the U.S. as filed in each state. These data include demographic information about parents, the mother's risk factors, information on the infant, and information on the birth.

Since not all states allow individuals to identify as more than one race, National Center for Health Statistics (NCHS) releases bridged-race population estimates for calculation of rates. The bridged-race population estimates are the result of bridging the 31 race categories in the Census 2000 and Census 2010 to four race categories due to the shifting use of 1977 Office of Management and Budget (OMB) standards to 1997 OMB standards. As a result, estimates in this report may not match local and county estimates because of differing projection methods.

For more information about Vital Statistics, visit: <u>http://www.cdc.gov/nchs/nvss.htm</u> For more information about bridged-race, visit: <u>https://www.cdc.gov/nchs/nvss/bridged\_race.htm</u>

#### National Notifiable Disease Surveillance System

Sexually transmitted infections (STIs) are a component of the National Notifiable Disease Surveillance System (NNDSS). Incident cases are submitted to the Centers for Disease Control and Prevention (CDC) from state health departments and other local reporting jurisdictions. The majority of cases are reported in non-STI clinic settings such as private physician offices. It is mandatory that reportable disease cases be reported to state health departments when identified by a health provider, hospital, or laboratory. However, it is voluntary that notifiable disease cases be reported to the CDC by the state for national surveillance. Estimates of rates are based on the states for the UIH service areas.

For more information about NNDSS, visit: https://www.cdc.gov/nndss/

#### Behavioral Risk Factor Surveillance System

Behavioral Risk Factor Surveillance System (BRFSS) is a nationwide health-related telephone survey that collects state data about U.S. residents. Random Digit Dialing (RDD) is used to conduct the surveys on landlines and cellphones. Each state uses a standardized core questionnaire, optional modules, and state-added questions. A vast amount of data on health-related risk behaviors and events, chronic health conditions, and use of preventive services are collected by this survey.

For more information about BRFSS, visit: https://www.cdc.gov/brfss/index.html

#### **Data Limitations**

Frequently, data are only available for AI/AN alone and not inclusive of AI/AN who also identify with another race or ethnicity. Therefore, the outcomes may be an underestimation of the true value of an outcome or risk factor for any indicator analyzed.

Racial misclassification impacts the accuracy of rates of disease, risk factors, or outcomes, which leads to underestimations. Racial misclassification occurs when the race of an individual is captured inaccurately, whether it be from the subjective use of personal observation by the data collector or using a surname to determine race/ethnicity. AI/AN people are more likely to experience incorrect classification on death certificates. Therefore, true morbidity and mortality rates among AI/AN people are assumed to be higher than presented in this report.<sup>3,4</sup>

### **Analysis**

A list of indicators for the community health profile was selected after investigating available data sources. For each indicator, prevalence or incidence is calculated for the AI/AN population and compared to the NHW population. NHWs are included as the comparison group to assess disparities in health indicators in recognition of the effects of structural racism on health. The AI/AN population was defined as AI/AN only and AI/AN in combination with other races, unless otherwise indicated. The NHW population was defined as White only and excluded the Hispanic population, unless otherwise indicated. Results are calculated using aggregated data over a five-year period.

In some instances, confidence intervals—an interval of numbers used to assess the accuracy of a point estimate and measure the variability in data—are calculated and used to show differences in outcomes for specific indicators. The point estimate may be a rate such as a death rate or a frequency such as a percent of individuals living in poverty.

Confidence intervals also account for the difference between a sample from a population and the population itself. For analyses included in this report, confidence intervals are calculated at a p-value of <0.05, a 95% confidence level. This means that 95 times out of 100 the confidence interval captures the true value for the population. Where confidence intervals of the study group (AI/AN) do not overlap with the comparison group (NHW), this may be an indication of a true difference in outcomes.

Standard data suppression was used to protect the privacy of individuals within all groups, including suppression of any estimates or rates based on counts of less than 10. As a result, certain indicators that are included in the aggregate CHP are not available for individual sites due to small numbers.



# **SOCIODEMOGRAPHICS**

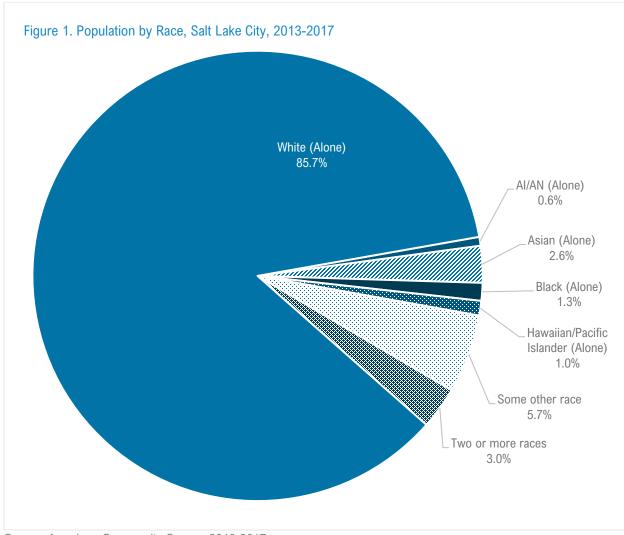
The health of an individual or a population is largely determined by where they live, work, play, and learn. Race and economic status also play key roles.<sup>5,6</sup> Decades of research show a relationship between greater social disadvantage and poorer health. Race, lack of access to education, unemployment, poverty, and housing all create inequities between urban AI/AN and NHW populations.<sup>5</sup> This section presents data on measures of demographics and social determinants of health to illustrate the disparities between AI/AN and NHW populations.

#### Race

Race, ethnicity, and socioeconomic status directly impact the distribution of disease.<sup>7</sup> Lacking access to education, employment, and other opportunities is often distributed along racial lines, thus we see stark health disparities between racial groups. Therefore, it is important to not only understand the rates of disease within a given area but also the racial distribution.

An estimated 30,288 (1.3%) individuals identified as AI/AN alone or in combination with one or more races in the Salt Lake City service area, with 14,789 (0.6%) individuals identifying as AI/AN alone (Figure 1). Those who identified as White alone comprised the largest proportion (approximately six out of seven) of the total population (85.7%) in the Salt Lake City UIH service area.

How race is defined in data matters. All sociodemographic estimates in this report represent those that identify as AI/AN alone—this is due to a limitation in the data. AI/AN are among the fastest growing multiracial group in the U.S.<sup>1</sup>

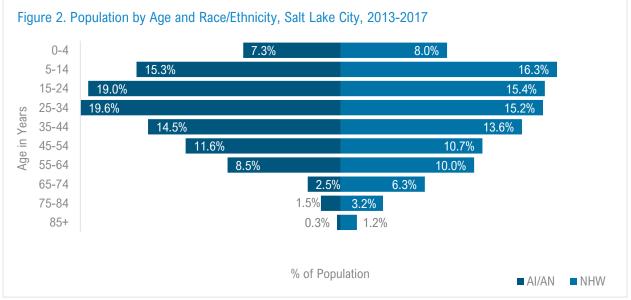


Source: American Community Survey, 2013-2017

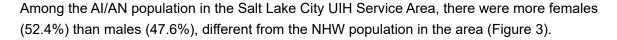
### Age and Sex

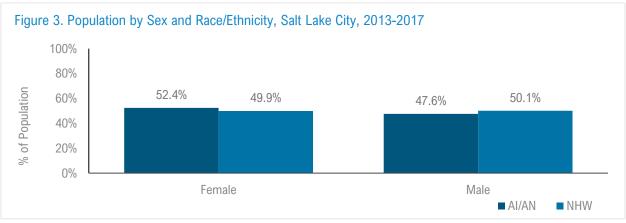
Rates of disease and risk factors can often vary widely between age groups as well as between sexes. For example, life expectancy differs by both race and sex. Therefore, we stratify by both age and sex to examine these differences more closely.

Relative to the NHW population, the AI/AN population in the Salt Lake City UIH Service area was younger (Figure 2). Of the AI/AN population, 41.6% were under the age of 25 years, compared to 39.7% of the NHW population. In contrast, 4.3% of the AI/AN was over the age of 65 years, compared to 6.9% of the NHW population.



Source: American Community Survey, 2013-2017



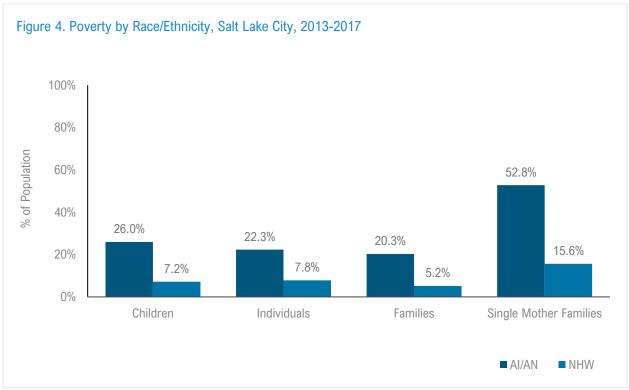


Source: American Community Survey, 2013-2017

#### **Poverty**

Poverty limits access to healthy foods, quality housing, economic opportunities, and adequate health care.<sup>8,9</sup> These foundational social and economic factors are inextricably connected to health outcomes. Also, the impacts of poverty on the health and well-being of a child can be detrimental and may have negative effects on early childhood and secondary academic achievement.<sup>10,11</sup>

In the Salt Lake City UIH service area, AI/AN children experienced more poverty than NHW children (Figure 4). Over a quarter of AI/AN children aged 17 and under (26.0%) lived in households with an income below the federal poverty level. This proportion is 3.6 times that of NHW children (7.2%). A fifth of AI/AN families in the Salt Lake City UIH service area (20.3%) lived in households with an income below the federal poverty level, almost 3.9 times that of their NHW counterparts (5.2%). In addition, 52.8% of AI/AN single mother households experienced poverty, 3.4 times that of the proportion of NHW single mother households (15.6%). Finally, over a fifth of AI/AN individuals lived in poverty (22.3%), compared to 7.8% of NHW individuals.

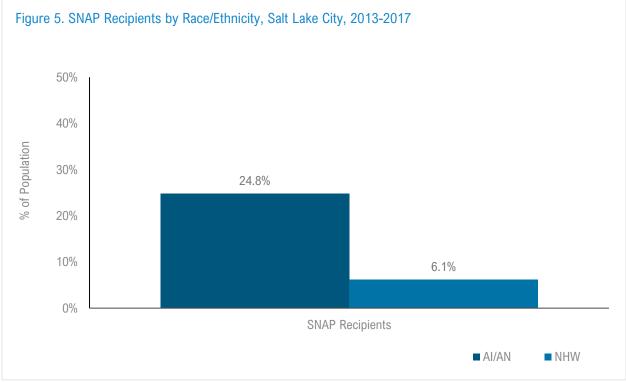


Source: American Community Survey, 2013-2017

#### **Supplemental Nutrition Assistance Program**

Households experiencing poverty are more likely to be food insecure.<sup>12</sup> Food insecurity can have a negative effect on the overall health of an individual, which increases the susceptibility to negative health outcomes.<sup>13</sup> As the largest food assistance program in the United States, the Supplemental Nutrition Assistance Program (SNAP), formerly known as the Food Stamp program, is a crucial part of the social safety net.<sup>14</sup> SNAP reduces the prevalence of food insecurity and, in turn, can reduce the prevalence of negative health outcomes.<sup>13</sup> In most states, many households with an income below 130% of the federal poverty level are eligible to receive SNAP benefits.

In the Salt Lake City UIH service area, nearly a quarter of AI/AN households received SNAP benefits in the past year (24.8%; Figure 5). The proportion of SNAP participation among AI/AN households in this area was 4.1 times that of the NHW population (6.1%).

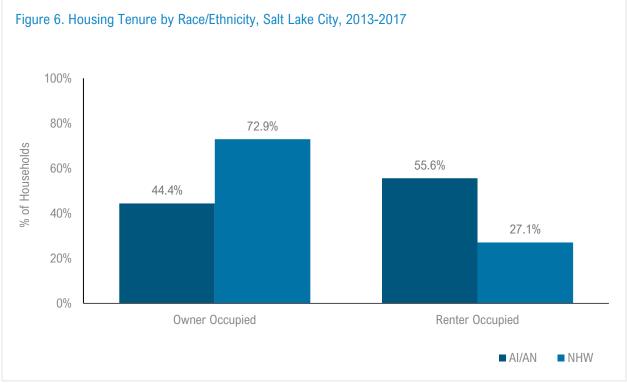


Source: American Community Survey, 2013-2017

#### Housing

Several studies have found that home ownership is associated with many health benefits.<sup>15,16</sup> These benefits may be explained by the fact that homeowners likely experience higher socioeconomic status, fewer problems of overcrowding, and lower exposure to neighborhood violence. In contrast, renters are more likely to experience poorer self-reported health, higher proportions of coronary heart disease, and more risk factors such as smoking.<sup>17</sup>

In the Salt Lake City UIH service area, over half of the AI/AN population (55.6%) rented their homes compared to over a quarter of the NHW population (27.1%; Figure 6). The proportion of AI/AN individuals who rented their home was 2.1 times that of NHW individuals. In contrast, in the Salt Lake City UIH service area, home ownership amongst the AI/AN population was 60.9% that of the NHW population.

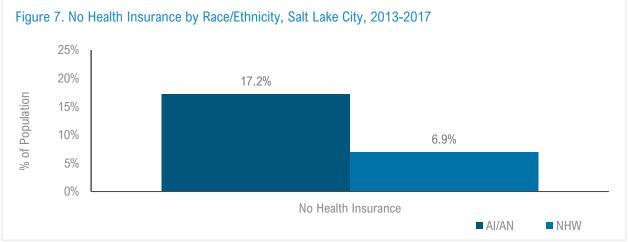


Source: American Community Survey, 2013-2017

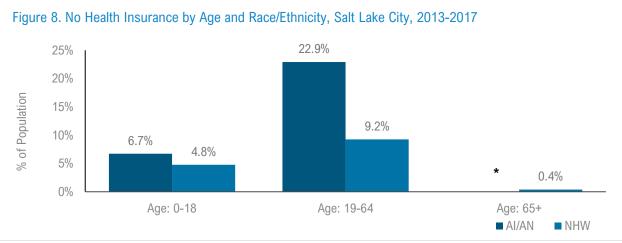
### **Health Insurance Coverage**

Those without health insurance coverage have higher mortality rates than those with coverage.<sup>18</sup> Individuals without health insurance are also less likely to receive care and often take longer to recover after an unintentional injury or the onset of a chronic disease than those with health insurance.<sup>19</sup>

In the Salt Lake City UIH service area, over a sixth of the AI/AN population (17.2%) reported having no health insurance, compared to 6.9% of the NHW population (Figure 7). Approximately three in ten AI/AN individuals under the age of 65 (29.6%) reported having no health insurance, a proportion 2.1 times that of NHW individuals (14.0%; Figure 8). The proportion of uninsured AI/AN children under the age of 19 (6.7%) in the Salt Lake City UIH service area was 1.4 times that of their NHW counterparts (4.8%).



Source: American Community Survey, 2013-2017



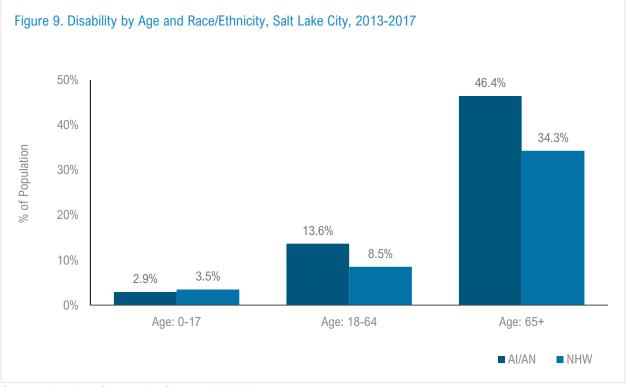
Source: American Community Survey, 2013-2017

\* Suppressed data < 10

### **Disability Status**

A disabling condition can be present at birth, occur early in life, can be acquired through injury or a chronic condition, or can develop later in life.<sup>20</sup> In general, across a range of health indicators and social determinants of health, people with disabilities tend to fare worse than their nondisabled counterparts.<sup>20</sup> It is important to include prevalence of disability as a foundation to monitor health status and existing disparities to inform program planning and to potentially obtain funding for programs for people with disabilities. However, it is important to note that the understanding of disability varies across Indigenous cultures—current ways of understanding disability are largely a result of colonization.<sup>21</sup>

In the Salt Lake City UIH service area, for those under 18, 2.9% of AI/AN children reported having a disability, compared to 3.5% of NHW children (Figure 9). For those aged 18-64, the proportion of AI/AN individuals who reported having a disability was 1.6 times that of NHW individuals in the same age range who reported having a disability (13.6% vs 8.5%, respectively). Additionally, 46.4% of AI/AN individuals over the age of 65 reported having a disability compared to 34.3% of NHW individuals over the age of 65.

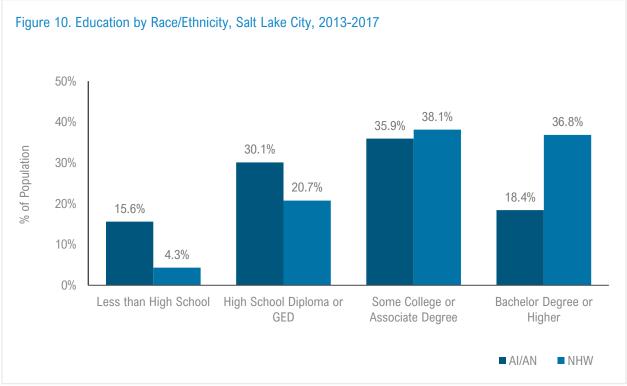


Source: American Community Survey, 2013-2017

#### **Education**

The relationship between education and health is well documented.<sup>22,23</sup> Those with more education are generally more likely to be employed and have access to health resources through insurance. They are also more likely to have a higher income, allowing them to afford resources when needed. Thus, disparities in life expectancy by level of education are found among all demographic groups and are increasing over time.<sup>23</sup>

In the Salt Lake City UIH service area, a higher percentage of the AI/AN population aged 25 and older had neither completed high school nor passed the General Education Development (GED) exam (15.6%) compared to the NHW population (4.3%; Figure 10). A lower percentage of AI/AN individuals (18.4%) reported an undergraduate or graduate degree as their highest level of education compared to NHW individuals (36.8%). However, a higher percentage of AI/AN individuals reported attending some college, receiving an Associate's degree, a Bachelor's degree or higher than reported receiving a high school diploma/equivalent or no diploma (54.3% vs 45.7%, respectively).

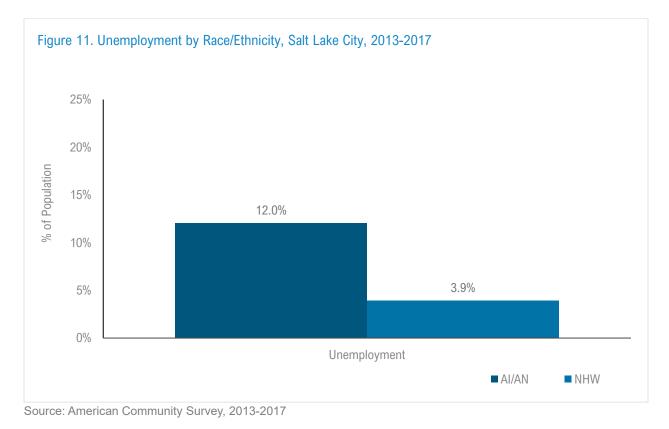


Source: American Community Survey, 2013-2017

### Unemployment

Extensive evidence has shown that unemployment has a negative effect on health.<sup>24</sup> Individuals experiencing unemployment may experience financial insecurity and are more likely to lack health insurance coverage.<sup>25</sup> Beyond that, unemployment can be identified as a major stressor, causing lasting damage to the physical and emotional health of an individual.<sup>26</sup>

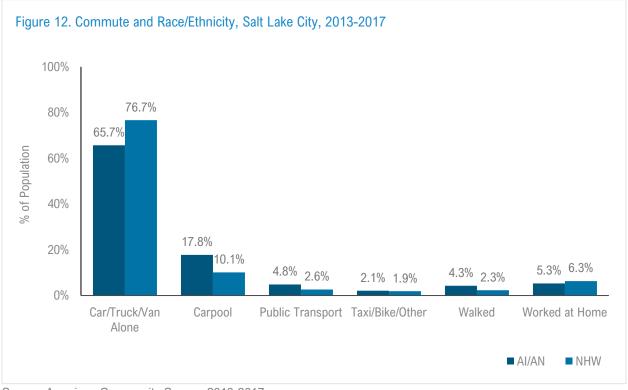
In the Salt Lake City UIH service area, the percent of unemployed AI/ANs over 16 years of age was 3.1 times that of NHWs (12.0% vs 3.9%; Figure 11).



#### **Means of Transportation to Work**

How individuals travel to work impacts their health.<sup>27</sup> Researchers are still studying the effects long commutes may have on health.<sup>28</sup> Time spent commuting is most often reallocated from physical activity, food preparation, time eating with family, and sleeping.<sup>29</sup> Over time, these changed behavioral patterns can contribute to poor health outcomes. This indicator offers a starting step to understanding how the health of urban AI/AN people may be impacted by their commute.

For the Salt Lake City UIH service area, AI/AN and NHW workers had similar means of transportation to work. However, a few of the categories differed (Figure 12). The proportion of AI/AN workers who drove to work in a car, truck or van was 85.7% that of NHW workers (65.7% vs 76.7%, respectively). A difference was also seen among those who walked to work, which was 2.0% higher for AI/AN workers than NHW workers (4.3% vs 2.3%, respectively). Additionally, AI/AN workers carpooled to work at a proportion which was 1.8 times that of NHW workers (17.8% vs 10.1%, respectively). AI/AN workers also took public transit to work at proportion which was 1.8 times that of NHW workers (4.8% vs 2.6%, respectively).



Source: American Community Survey, 2013-2017

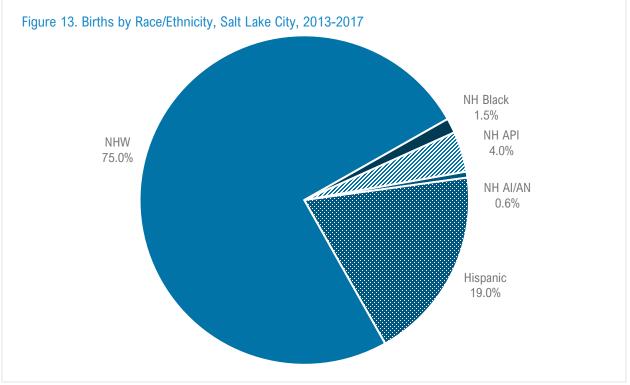


# **MATERNAL AND CHILD HEALTH**

Understanding the state of maternal and child health (MCH) for urban Indians is key to creating the foundation for healthy children, mothers, and future generations. Tracking maternal smoking, gestational diabetes, prenatal care, and preterm births can help urban Indian health organizations make the best decisions regarding programs for pregnant mothers and infants. For the purposes of this report, language around birth and maternal health data includes traditionally female terminology, but it is understood that not every person who gives birth identifies as such.

### **Births by Race/Ethnicity**

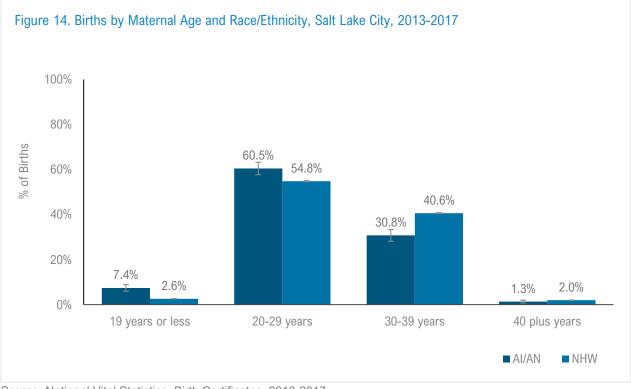
From 2013 to 2017 there were a total of 199,714 births across the Salt Lake City UIH service area. Among those births, about 0.6% (1,189 births) were identified as non-Hispanic American Indian or Alaska Native (AI/AN) alone (Figure 13). The largest proportions of births among the racial/ethnic groups were from non-Hispanic White (NHW) women (75.0%) and Hispanic women (19.0%). Non-Hispanic Asian and Pacific Islander women accounted for 4.0% of all births, while non-Hispanic Black women accounted for 1.5% of all births.



Source: National Vital Statistics, Birth Certificates, 2013-2017

#### **Births by Maternal Age Group**

In general for Salt Lake City UIH service area, AI/AN women tended to give birth at statistically significantly younger ages than their NHW counterparts (Figure 14). Across this service area, 7.4% of all births among AI/AN women were to teenage women (19 years or younger) compared to 2.6% of NHW births. The proportion of births to AI/AN teenage women were 2.8 times that of NHW teenage women. In addition, 60.5% of all births among AI/AN women were to women in their 20s; this was higher than the 54.8% among NHW women. Conversely, NHW women had more children in their 30s compared to AI/AN women (40.6% vs. 30.8%).

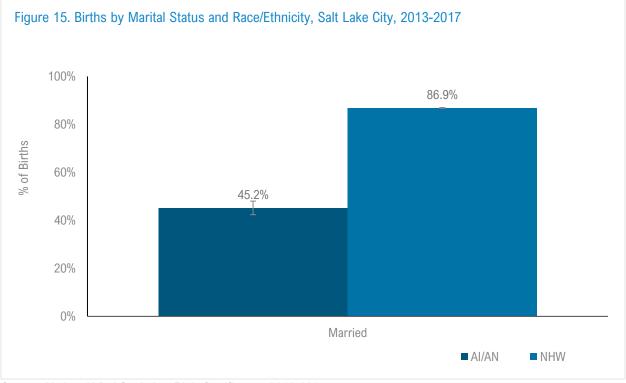


Source: National Vital Statistics, Birth Certificates, 2013-2017

#### **Births by Marital Status**

Studies have shown positive associations between marriage and health outcomes.<sup>31</sup> Married couples tend to have more than one income source providing for their family, allowing them to afford nutritious food and access to other health resources.<sup>31</sup> Marital status during first birth has been found to be associated with health outcomes later on in their lives for white and black women.<sup>32,33</sup>

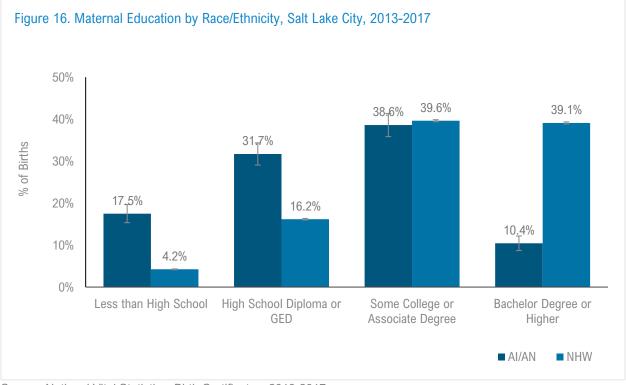
Across the Salt Lake City UIH service area, 45.2% of all births to AI/AN women were to women who were married (Figure 15). This was statistically significantly different from the 86.9% of all NHW births to NHW women who were married. The proportion of births to unmarried AI/AN women was 4.2 times that of their NHW counterparts.



#### **Maternal Education**

Numerous studies have looked at the causal link between maternal education and maternal and child health outcomes.<sup>34</sup> A mother's primary school completion was found to be associated with positive infant health outcomes, indicated by birth weight.<sup>35</sup>

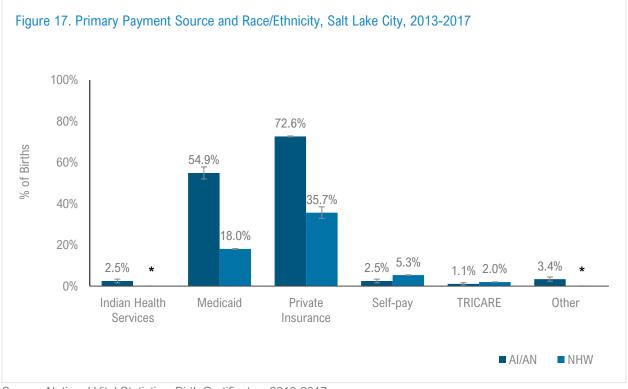
Over a sixth of all AI/AN births in the Salt Lake City UIH service area were to AI/AN women who did not complete high school (17.5%) and 31.7% were to AI/AN women whose highest level of education was a high school diploma or equivalent degree (Figure 16). These percentages were both higher than the percentages of births to NHW women who did not complete high school (4.2%) or received a high school diploma or equivalent degree (16.2%). The highest proportion of AI/AN births were to mothers who had attended some college or received an Associate degree (38.6%). The percentage of births to AI/AN women with some college or a higher degree was statistically significantly different from that of NHW women (10.4% vs 39.1%, respectively).



#### **Insurance Status**

Maternity health coverage became mandatory in 2014 under the Affordable Care Act. A study prior to 2014 found differences in health insurance coverage could affect the type of care received during childbirth.<sup>36</sup> For example, compared to those covered by private health insurance, those with Medicaid coverage or those who were uninsured were less likely to receive intervention during childbirth (cesarean delivery, labor induction, and episiotomy).<sup>36</sup> Health insurance coverage has also been found to be associated with an increase in use of prenatal care, which can reduce the likelihood of adverse birth outcomes.<sup>37</sup>

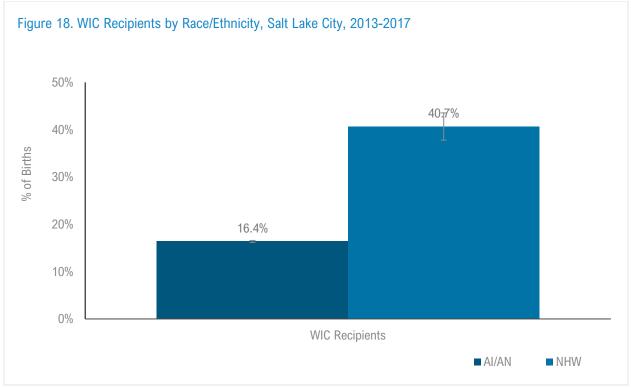
Across the Salt Lake City UIH service area, the proportions of payment for birth through Medicaid, private insurance, self-pay, and TRICARE were statistically significantly different between AI/AN and NHW women (Figure 17). The biggest differences in payment source were for births paid by Medicaid and private insurance. Approximately 54.9% of AI/AN births were paid by Medicaid, whereas 18.0% of NHW births were paid by Medicaid. Similarly, 72.6% of AI/AN births were covered by private health insurance compared to 35.7% of NHW births.



#### Women, Infants, and Children Status

Women, Infants, and Children (WIC) is a federal program that provides supplemental food to lowincome pregnant, post-partum, and breastfeeding women. Al/AN people often experience food insecurity, high rates of hunger, and malnutrition, which increases likelihood of participating in WIC services.<sup>38,39</sup> Food insecurity has been found to have numerous effects on health outcomes, such as birth defects, anemia, and cognitive problems.<sup>13</sup> For that reason, participation in WIC services can be a protective factor for these adverse health outcomes.

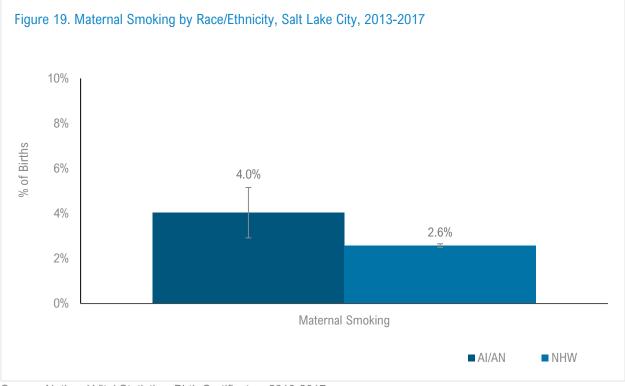
Across the Salt Lake City UIH service area, 16.4% of pregnant AI/AN women reported receiving WIC services prior to birth, compared to 40.7% of NHW women (Figure 18). NHW women were 2.5 times as likely as AI/AN women to access WIC.



#### **Maternal Smoking**

There are many negative infant and child outcomes linked to maternal tobacco use during pregnancy.<sup>40</sup> These negative outcomes include low birthweight, preterm birth, and various birth defects.<sup>40,41</sup> Of racial and ethnic groups, AI/AN women had the highest prevalence of smoking during pregnancy.<sup>40</sup> This disparity can be attributed to a difference in access to resources and tobacco advertising that target these communities.<sup>42</sup>

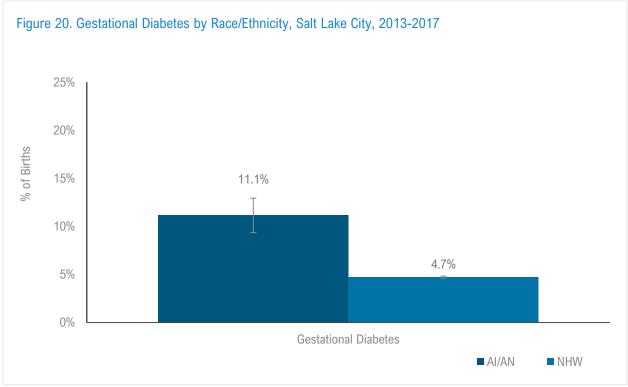
Across the Salt Lake City UIH service area, 4.0% of AI/AN women smoked while pregnant, compared to 2.6% of NHW women (Figure 19). AI/AN women were 1.5 times as likely as NHW women to smoke while pregnant.



#### **Gestational Diabetes**

Every year in the U.S., 2–10% of pregnancies are affected by gestational diabetes.<sup>43</sup> Gestational diabetes can increase the risk of high blood pressure during pregnancy as well as the likelihood of a high birthweight baby that will need to be delivered by cesarean section.<sup>43</sup> A lack of access to prenatal care and screening services contributes to disparities in gestational diabetes seen across racial groups.<sup>44</sup> Age of a pregnant person can increase their risk of developing gestational diabetes during a pregnancy. The risk of gestational diabetes tends to increase as the age of the pregnant person increases.<sup>45</sup>

Across the Salt Lake City UIH service area, approximately 11.1% of AI/AN births were to women who were diagnosed with gestational diabetes during their pregnancy (Figure 20). This proportion was statistically significantly different from that of NHW women, among whom 4.7% were diagnosed with gestational diabetes. Pregnant AI/AN women were 2.4 times as likely as pregnant NHW women to be diagnosed with gestational diabetes.

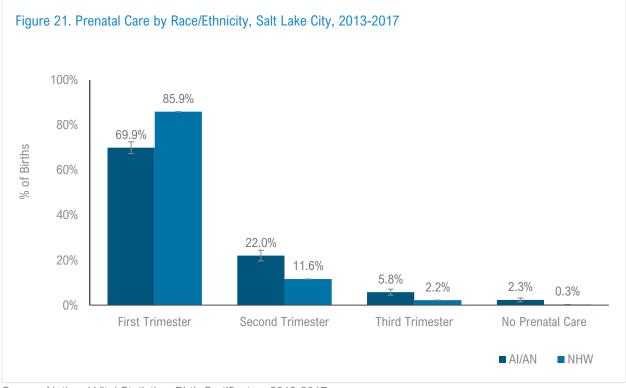




#### **Prenatal Care**

Prenatal care refers to the medical attention received by women before or during their pregnancy. Early prenatal care is a significant component in ensuring a healthy pregnancy.<sup>46</sup> Women who receive late or no prenatal care are at risk for having undetected complications during their pregnancy that can result in severe maternal morbidity and mortality and serious consequences to the unborn infant including low birthweight, preterm birth, and morbidity, and mortality.<sup>46</sup> In addition, a lack of access, knowledge of resources and other social and structural barriers can also prevent utilization of prenatal care.<sup>47,48</sup> Disparities in prenatal care for AI/AN women varies by region and state.<sup>49</sup>

Among pregnant women within the Salt Lake City UIH service area, 69.9% of Al/AN women began prenatal care in the first trimester compared to 85.9% of NHW women, a statistically significant difference (Figure 21). In addition, 8.1% of pregnant Al/AN women began prenatal care in the third trimester or did not receive any prenatal care during their pregnancy compared to 2.5% of NHW pregnant women. The proportion of women beginning prenatal care in their third trimester or receiving no prenatal care among Al/AN women was 3.2 times that of NHW women.

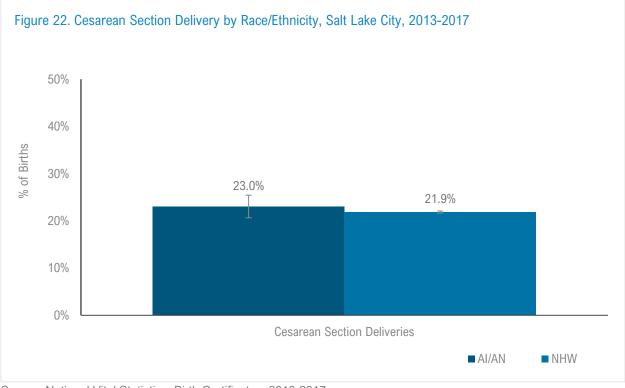


Source: National Vital Statistics, Birth Certificates, 2013-2017

#### **Cesarean Section**

Cesarean sections can often be a life-saving intervention when necessary. This procedure can also lead to longer hospital stays and higher costs.<sup>50</sup> While cesarean sections can prevent maternal and infant mortality and morbidity, there is little to no advantage for women who have the procedure electively.<sup>51,52</sup> Cesarean sections are associated with both short- and long-term risks that come along with a major surgery such as infection, blood loss, and damage to organs.<sup>53-55</sup> The incidence of severe complications from cesarean sections increases significantly in those over the age of 35.<sup>56</sup> Moreover, the rate of cesarean sections has only increased among the general population, therefore we need to understand the disparities between the women receiving this procedure.<sup>50</sup>

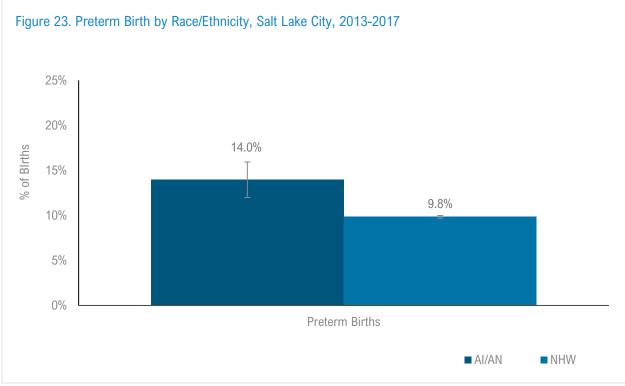
Across the Salt Lake City UIH service area, an estimated 23.0% of births were delivered by cesarean section among AI/AN females (Figure 22). This was not statistically significantly different from the proportion of deliveries by cesarean section among NHW births at 21.9%.



#### **Preterm Births**

A preterm birth is defined as a birth that occurs before 37 completed weeks of pregnancy.<sup>57</sup> Preterm birth disproportionately affects AI/AN women.<sup>58</sup> Tobacco use, low socioeconomic status, low maternal age, and single marital status put women at higher risk for having a preterm delivery.<sup>58</sup> A factor associated with preterm birth is age—teens and women over 35 have an increased likelihood of preterm birth.<sup>59</sup>

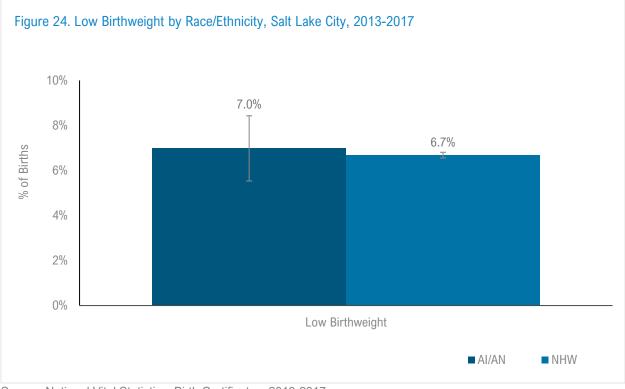
Across the Salt Lake City UIH service area, 14.0% of all infants born to AI/AN women were born preterm, which was statistically significantly different from the percentage of their NHW counterparts born preterm at 9.8% (Figure 23). Additionally, pregnant AI/AN women were 1.4 times as likely as NHW women to have an infant born preterm.



#### Low Birthweight

Low birthweight is classified when a baby is born less than 2,500 grams, or 5 pounds 8 ounces.<sup>60</sup> Preterm birth can result in low birthweight. Smoking during pregnancy is also associated with an increased likelihood of low birthweight.<sup>61</sup> Additionally, it has been strongly suggested that exposure to cumulative stress such as historical trauma is associated with adverse birth outcomes.<sup>61,62</sup>

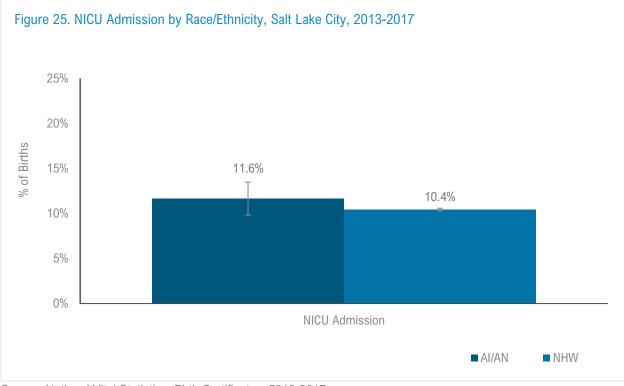
Across the Salt Lake City UIH service area, 7.0% of all infants born to AI/AN women were born at a low birthweight, which was not statistically significantly different from the proportion of their NHW counterparts born at a low birthweight at 6.7% (Figure 24). Pregnant AI/AN women were as likely as NHW women to give birth to an infant at a low birthweight.



#### **Neonatal Intensive Care Unit Admission**

The Neonatal Intensive Care Unit (NICU) is where newborn babies go when they need intensive medical care. Newborns in the NICU can be preterm, have low birthweight, or have a birth defect.<sup>63</sup> Maternal age is a factor associated with admittance to NICU.<sup>63</sup> There is increased risk for an infant to be admitted to NICU if the mother is younger than age 16 or older than age 40.<sup>63</sup>

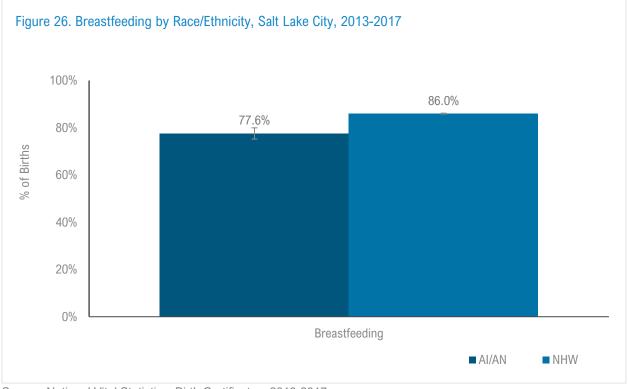
Admission to the NICU for newborns across the Salt Lake City UIH service area was not statistically significantly different between AI/AN and NHW newborns (Figure 25). An estimated 11.6% of AI/AN newborns were admitted to the NICU compared to 10.4% NHW newborns. AI/AN newborns were as likely as NHW newborns to be admitted to the NICU.



#### **Breastfeeding**

Breastfeeding has been viewed as a way to nourish a baby's mind, body, and spirit.<sup>64</sup> Breastfeeding is an important way for infants to get nutrition in the first six months of their life and is tailored to the needs of the infant.<sup>65</sup> Benefits of breastfeeding for the infant include a lower risk of asthma, obesity, ear and respiratory infection, sudden infant death syndrome (SIDS), and gastrointestinal infections.<sup>65</sup>

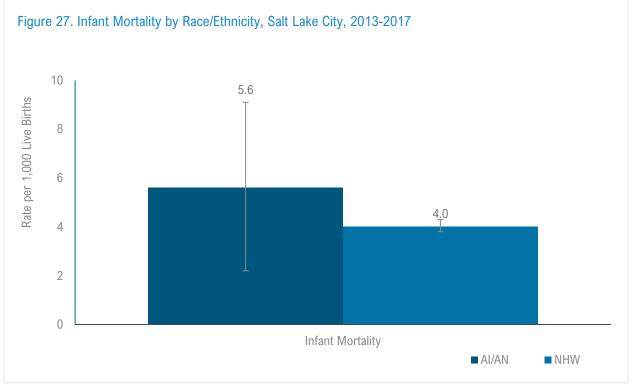
Across the Salt Lake City UIH service area, 77.6% of infants born to AI/AN women were breastfeeding at the time of discharge from the hospital, compared to 86.0% of infants born to NHW women (Figure 26). This was a statistically significant difference.



#### **Infant Mortality**

Infant mortality, an important indicator of the health of a community, is defined as the number of deaths of infants younger than one year of age per 1,000 live births for a given time period.<sup>66</sup> Infant mortality may be related to the underlying health of the mother, public health practices, socioeconomic conditions, and the availability and use of appropriate pre- and post-natal health care.<sup>66</sup> Causes of infant deaths are primarily due to health problems of the infant or a difficult pregnancy.<sup>67</sup>

The infant mortality rate for the AI/AN population across the Salt Lake City UIH service area was 5.6 per 1,000 live births (Figure 27). This was not statistically significantly different from the infant mortality rate of the NHW population (4.0 per 1,000 live births). AI/AN infants were as likely as NHW infants to die within their first year of life.



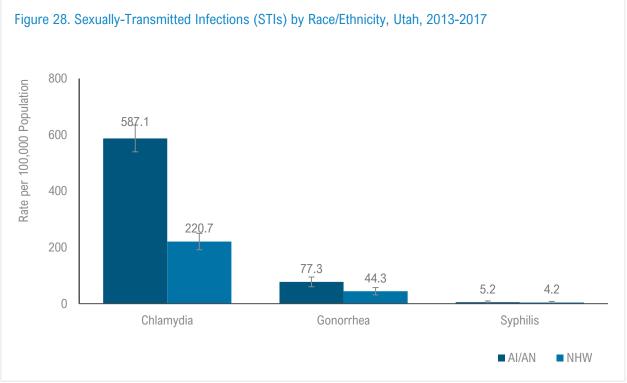


# **SEXUALLY TRANSMITTED INFECTIONS**

With an estimated 20 million new infections occurring each year, STIs represent a significant public health challenge across all communities in the United States.<sup>68</sup> Al/ANs experience disproportionately high rates of STIs, with rates of STIs in Al/AN communities 2–6 times greater than among NHWs. Left untreated, many STIs can lead to significant health impacts including blindness, stroke, heart disease, ectopic pregnancies, miscarriage, stillbirth, and early infant death.<sup>69-71</sup>

Due to a limitation of the data, STI estimates represent the state where UIH service areas are located, as estimates were not available at the county level.

Within the state of Utah in 2013-2017, the rates of chlamydia and gonorrhea were statistically significantly different between the AI/AN and NHW populations (Figure 28). The rate of chlamydia among the AI/AN population (587.1 cases per 100,000) was 2.7 times that of the NHW population (220.7 cases per 100,000). The rate of gonorrhea among the AI/AN population (77.3 cases per 100,000) was 1.7 times that of the NHW population (44.3 cases per 100,000). The rate of syphilis among the AI/AN population (5.2 cases per 100,000) was 1.2 times that of the NHW population (4.2 cases per 100,000), however this was not a statistically significant difference.

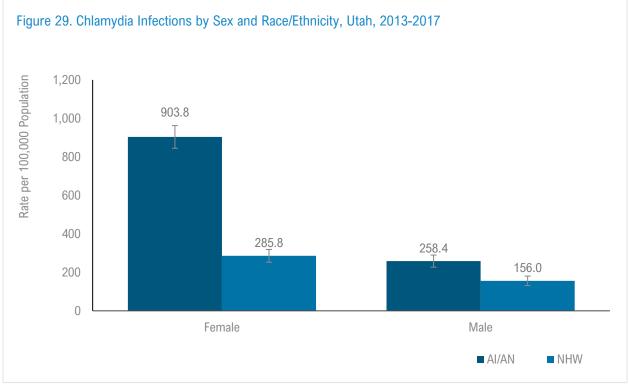


Source: National Notifiable Disease Surveillance System, 2013-2017

#### Chlamydia

Chlamydia is the most common STI in the United States. It is a bacterial STI that is often asymptomatic and underreported.<sup>68</sup> Disparities in chlamydia infections between AI/AN and NHW individuals is likely due to the many structural and social factors afflicting Native communities, including historical and ongoing trauma, lack of access to healthcare and screening services, poverty, and geographic isolation.<sup>68,72</sup> Due to the asymptomatic nature of chlamydia, both screening and treatment are essential to preventing and controlling its spread.<sup>73</sup> Untreated chlamydia can further spread the infection in a community, lead to permanent damage of an individual's reproductive organs, and cause pregnancy complications.<sup>73</sup> Serious, untreated cases can even result in infertility.

The rate of chlamydia infection among AI/AN females in Utah (903.8 cases per 100,000) was statistically significantly different from that of NHW females (285.8 cases per 100,000) and was 3.5 times that of AI/AN males (258.4 cases per 100,000; Figure 29). NHW females had a rate of chlamydia infection that was 1.8 times that of NHW males (156.0 cases per 100,000 population). The rate of chlamydia infection among AI/AN males was 1.7 times that of NHW males, a statistically significant difference.

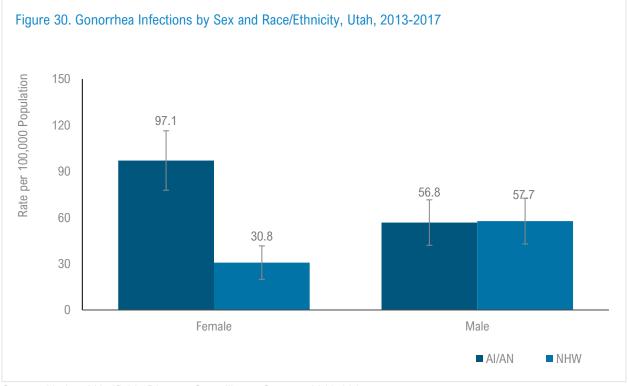


Source: National Notifiable Disease Surveillance System, 2013-2017

#### Gonorrhea

In the U.S., cases of gonorrhea increased by 67% between 2013 and 2017.<sup>69</sup> Gonorrhea is a bacterial STI that is often asymptomatic. When left untreated, it can cause serious complications such as pelvic pain, ectopic pregnancy, and infertility.<sup>70</sup> Untreated gonorrhea can also increase the risk of HIV transmission.<sup>70</sup> Although it is currently treatable with antibiotics, gonorrhea has become progressively more resistant to multiple antibiotics over the past three decades. Consequently, there is a need for robust public health monitoring and response to prevent the spread of these emerging resistant strains.<sup>70</sup>

The rate of gonorrhea infection among AI/AN females in Utah (97.1 cases per 100,000) was statistically significantly different from that of NHW females (30.8 cases per 100,000) and was 1.7 times that of AI/AN males (56.8 cases per 100,000; Figure 30). NHW females had a rate of gonorrhea infection that was 53.4% that of NHW males (57.7 cases per 100,000 population). The rate of gonorrhea infection among AI/AN males was nearly the same as that of NHW males (56.8 cases per 100,000, respectively).



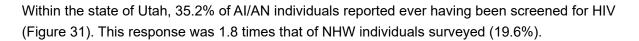
Source: National Notifiable Disease Surveillance System, 2013-2017

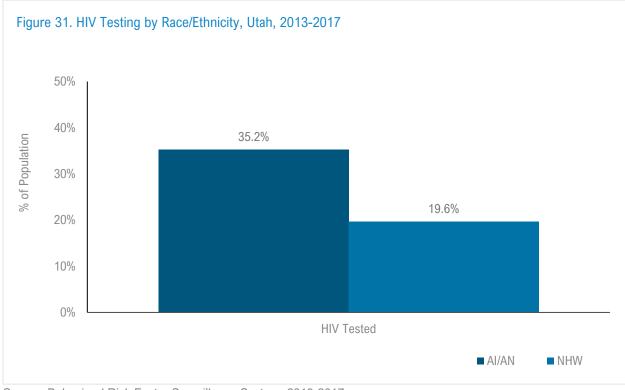
#### **Syphilis**

Syphilis is a serious STI caused by a bacterial infection.<sup>71</sup> Syphilis is divided into stages: primary stage, secondary stage, latent stage, and tertiary stage. Early symptoms are often minor but, if left untreated, can cause severe medical problems such as paralysis, dementia, and death.<sup>71</sup> Due to the underreporting of syphilis, the numbers recorded are likely an undercount of the true number of cases, even as the U.S. has reported for 2017 its highest rate of syphilis since 1993.<sup>74</sup> Incidence of syphilis in the U.S. varies by racial and ethnic groups, which is likely a reflection of the social determinants of health that contribute to syphilis presence in a community.<sup>75</sup>

#### **HIV Screening**

Human Immunodeficiency virus (HIV) remains a pressing public health threat throughout marginalized communities. It is estimated that 3,000 AI/AN people are living with HIV.<sup>74</sup> Both structural and environmental factors contribute to increased risk of HIV infection, including environmental resources, access to care, stigma, and economic status.<sup>75</sup> Among the general U.S. population, about 1 in 7 individuals with HIV do not know they are positive.<sup>76</sup> It is important for individuals to get tested and to start treatment as soon as possible, if necessary.





Source: Behavioral Risk Factor Surveillance System, 2013-2017

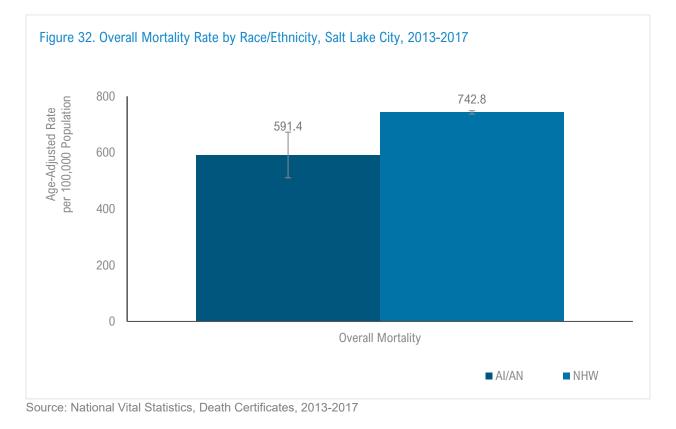


# MORTALITY

Mortality data provide an indication of a community's or population's health and socioeconomic development status.<sup>77,78</sup> Mortality data are also a key component to understanding population size and future growth. Examining mortality data is one way to measure the burden of disease in a community or population.<sup>78</sup> Tracking death rates may identify groups that are at an increased risk of premature death and may identify specific underlying causes of death that are more prevalent in certain populations. In addition, high mortality rates may indicate an issue with environmental, risk, and/or socioeconomic factors as well as communicable diseases.

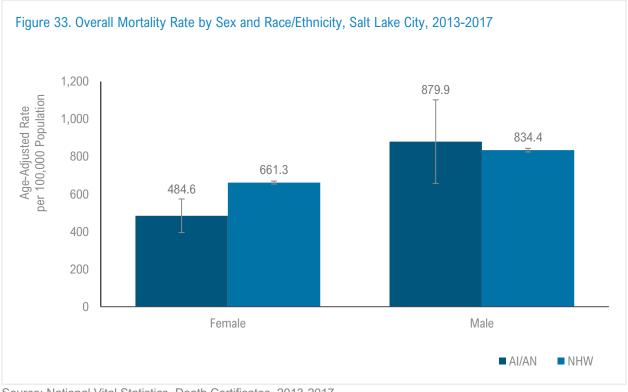
### **All-cause Mortality**

From 2013-2017, there were a total of 390 deaths among the Al/AN population of the Salt Lake City UIH service area compared to 57,106 deaths among the NHW population of the same area. The age-adjusted all-cause mortality rate for the Al/AN population was approximately 20.4% lower than the mortality rate of the NHW population (591.4 deaths per 100,000 vs 742.8 deaths per 100,000, respectively), a statistically significant difference (Figure 32).



#### **All-cause Mortality by Sex**

The mortality rates for females were statistically significantly different between the AI/AN and NHW populations of the Salt Lake City UIH service area (Figure 33). The mortality rate for AI/AN males was not statistically significantly different from that of NHW males (879.9 deaths per 100,000 vs 834.4 deaths per 100,000, respectively). AI/AN females (484.6 deaths per 100,000) had a 26.7% lower mortality rate than NHW females (661.3 deaths per 100,000). Additionally, the mortality rate for AI/AN females was 44.9% lower than that of AI/AN males.

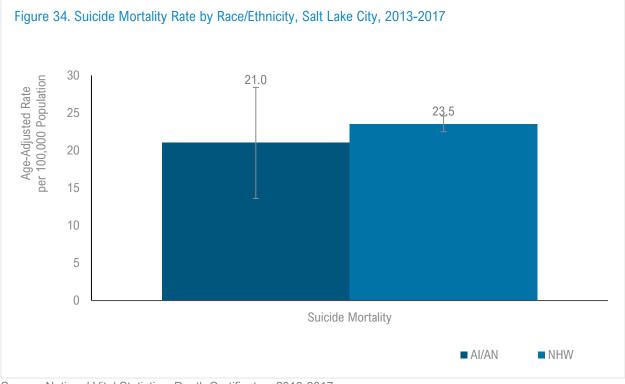


Source: National Vital Statistics, Death Certificates, 2013-2017

#### **Suicide Mortality**

Suicide is defined as a death caused by intentional self-directed injury.<sup>81</sup> It is recognized as a critical public health issue on a global, national, and regional scale.<sup>81</sup> The rates of completed suicide have been increasing in the AI/AN population since 2003.<sup>82</sup> Accurate and reliable information on levels and trends of suicide mortality are needed to inform suicide prevention and postvention efforts.<sup>81</sup>

In the Salt Lake City UIH service area, the AI/AN population had a suicide rate that was not statistically significantly different from that of the NHW population (21.0 deaths per 100,000 vs 23.5 deaths per 100,000, respectively; Figure 34). AI/AN individuals were as likely as NHW individuals to die by suicide.



#### **Top Causes of Mortality**

Mortality rates often reflect the influence of environments, risk factors, socioeconomic status, and communicable diseases.<sup>83</sup> Understanding the top underlying causes of mortality can inform disease prevention goals, priorities, and strategies.<sup>83</sup>

The AI/AN population of the Salt Lake City UIH service area had a number one cause-specific mortality rate of vascular disease (174.1 deaths per 100,000) which was 82% that of the NHW population of the same service area (212.3 deaths per 100,000; Figure 1). Similarly, the cause-specific mortality rate of cancer amongst the AI/AN population (81.8 deaths per 100,000) was 63.7% that of the NHW population (128.4 deaths per 100,000). In contrast, the AI/AN population had a cause-specific mortality rate of unintentional injuries (59.6 deaths per 100,000) which was 1.3 times that of the NHW population (45.2 deaths per 100,000), and a cause-specific mortality rate of chronic liver disease and cirrhosis (30.2 deaths per 100,000) which was 3.6 times that of the NHW population (8.4 deaths per 100,000).

AI/AN		NHW			
Rank	Cause	Rate (per 100k)	Rank	Cause	Rate (per 100k)
1	Vascular Disease	174.1	1	Vascular Disease	212.3
2	Cancer	81.8	2	Cancer	128.4
3	Unintentional Injuries	59.6	3	Unintentional Injuries	45.2
4	Chronic liver disease and cirrhosis	30.2	10	Chronic liver disease and cirrhosis	8.5
5	Chronic lower respiratory disease	27.6	5	Chronic lower respiratory disease	35.9

#### Table 1. Top Causes of Mortality, Salt Lake City, 2013-2017

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### **APPENDIX A**

### Sociodemographic Indicators among AI/AN (alone) in Salt Lake City Service Area vs. All Service Areas

	AI/AN	AI/AN in All UIO Service Areas
	(alone)	
	in Salt	
	Lake	
	City	
# Individuals	14,789	767,432
% of Population	0.6%	0.8%
Age (% of Population)		
0-4	7.3%	7.0%
5-14	15.3%	15.0%
15-24	19.0%	16.4%
25-34	19.6%	16.1%
35-44	14.5%	13.4%
45-54	11.6%	12.9%
55-64	8.5%	10.7%
65-74	2.5%	5.6%
75-84	1.5%	2.1%
85+	0.3%	0.8%
Sex (% of Population)		
Female	52.4%	51.1%
Male	47.6%	48.9%
Poverty (% of Population)		
Children	26.0%	30.5%
Individuals	22.3%	24.5%
Families	20.3%	20.3%
Single Mother Families	52.8%	31.0%
SNAP Recipients (% of Population)		
All	24.8%	23.6%
Housing Tenure (% of Households)		
Owner Occupied	44.4%	45.3%
Renter Occupied	55.6%	54.7%
No Health Insurance (% of Population)		
All	17.2%	19.7%
Age: 0-18	6.7%	12.6%
Age: 19-64	22.9%	25.3%
Age: 65+	*	2.5%

\* Suppressed data < 10.

Source: American Community Survey, 2013-2017

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	AI/AN (alone) in Salt Lake City	AI/AN in AII UIO Service Areas
Disability (% of Population)		
Age: 0-17	2.9%	4.7%
Age: 18-64	13.6%	15.5%
Age: 65+	46.4%	46.0%
Education (% of Population 25 years and older)		
Less than High School	15.6%	20.5%
High School Diploma or GED	30.1%	28.2%
Some College or Associate Degree	35.9%	34.7%
Bachelor Degree or Higher	18.4%	16.6%
Unemployed (% of Population 16 years and older)		
All	12.0%	11.2%
Commute Type (% of Employed Population 16 years and older)		
Car/Truck/Van Alone	65.7%	67.9%
Carpool	17.8%	12.8%
Public Transport	4.8%	8.5%
Taxi/Bike/Other	2.1%	3.0%
Walked	4.3%	3.8%
Worked at Home	5.3%	3.9%

\* Suppressed data < 10.

Source: American Community Survey, 2013-2017

## **APPENDIX B**

# Maternal and Child Health Indicators among Al/AN in Salt Lake City Service Area vs. All Service Areas

	AI/AN in Salt Lake City		AI/AN in All UIO Service Areas	
	%	(95% CI)	%	(95% CI)
# of Births	1,189		47,556	
% of All Births	0.6%	(0.6% - 0.6%)	0.8%	(0.8% - 0.8%)
Maternal Age (% of Births)		· · ·		· · ·
19 years or less	7.4%	(5.9% - 8.9%)	9.3%	(9.0% - 9.5%)
20-29 years	60.5%	(57.7% - 63.3%)	56.9%	(56.5% - 57.4%)
30-39 years	30.8%	(28.2% - 33.4%)	31.6%	(31.2% - 32.0%)
40 plus years	1.3%	(0.7% - 2.0%)	2.2%	(2.1% - 2.3%)
Marital Status (% of Births)				
Married	45.2%	(42.4% - 48.0%)	33.9%	(33.5% - 34.3%)
Maternal Education (% of Births)				
Less than High School	17.5%	(15.3% - 19.7%)	19.1%	(18.7% - 19.4%)
High School Diploma or GED	31.7%	(29.1% - 34.4%)	29.6%	(29.2% - 30.0%)
Some College or Associate Degree	38.6%	(35.8% - 41.4%)	33.0%	(26.6% - 26.7%)
Bachelor Degree or Higher	10.4%	(8.7% - 12.2%)	11.9%	(11.6% - 12.2%)
Primary Payment Source (% of Births)				
Indian Health Services	2.5%	(1.6% - 3.4%)	6.3%	(6.0% - 6.5%)
Medicaid	54.9%	(52.0% - 57.8%)	62.5%	(62.1% - 63.0%)
Private Insurance	72.6%	(72.4% - 72.9%)	26.1%	(70.1% - 70.2%)
Self-pay	2.5%	(1.6% - 3.4%)	2.0%	(2.6% - 2.6%)
WIC Status (% of Births)				
All	16.4%	(16.2% - 16.6%)	52.4%	(52.0% - 52.9%)
Maternal Smoking (% of Births)				
All	4.0%	(2.9% - 5.2%)	9.1%	(8.9% - 9.4%)
Gestational Diabetes (% of Births)				
All	11.1%	(9.3% - 12.9%)	9.9%	(9.6% - 10.2%)
Prenatal Care (% of Births)				
First Trimester	69.9%	(67.3% - 72.5%)	64.7%	(64.3% - 65.1%)
Second Trimester	22.0%	(19.6% - 24.4%)	23.6%	(23.2% - 24.0%)
Third Trimester	5.8%	(4.4% - 7.1%)	8.4%	(8.2% - 8.7%)
No Prenatal Care	2.3%	(1.5% - 3.2%)	3.2%	(3.1% - 3.4%)
Cesarean Section Delivery (% of Births)				
All	23.0%	(20.7% - 25.4%)	27.7%	(27.3% - 28.1%)
Preterm Birth (% of Births)		· · ·		. ,
All	14.0%	(12.0% - 15.9%)	13.3%	(13.0% - 13.7%)
Low Birthweight (% of Births)				· · · · · ·
All	7.0%	(5.5% - 8.4%)	7.6%	(7.4% - 7.9%)

	AI/AN in Salt Lake City		AI/AN in All UIO Service Areas	
	%	(95% CI)	%	(95% CI)
NICU Admission (% of Births)				
All	11.6%	(9.8% - 13.5%)	10.2%	(9.9% - 10.5%)
Breastfeeding (% of Births)				
All	77.6%	(75.2% - 80.0%)	81.9%	(81.5% - 82.3%)
	Rate per 1,000		Rate per 1,000	
	Live Births	(95% CI)	Live Births	(95% CI)
Infant Mortality (Rate per 1,000 Live Births)				
All	5.6	(2.2 - 9.1)	14.2	(13.2 - 15.1)

# **APPENDIX C**

# Sexually Transmitted Infection (STI) Indicators among AI/AN in Utah vs. All Service States

	AI/AN in Utah		AI/AN in All UIO Service States	
	Rate per 100,000	(95% CI)	Rate per 100,000	(95% CI)
Chlamydia (Rate per 100,000 Population)				
All	587.1	(539.7 - 634.6)	716.6	(664.1 - 769.0)
Female	903.8	(844.9 - 962.7)	1080.7	(1016.2 - 1145.1)
Male	258.4	(226.9 - 289.9)	341.3	(305.1 - 377.5)
Gonorrhea (Rate per 100,000 Population)				
All	77.3	(60.1 - 94.5)	208.5	(180.2 - 236.8)
Female	97.1	(77.8 - 116.4)	253.6	(222.4 - 284.8)
Male	56.8	(42.0 - 71.6)	162.0	(137.1 - 187.0)
Syphilis (Rate per 100,000 Population)				
All	5.2	(0.7 - 9.7)	13.8	(6.5 - 21.1)
	%		%	
Ever HIV Tested (% of Population)				
All	35.2%		39.4%	

Source: National Notifiable Disease Surveillance System, 2013-2017

### **APPENDIX D**

### Mortality Indicators among AI/AN in Salt Lake City Service Area vs. All Service Areas

	AI/AN in Salt Lake City		AI/AN in All UIO Service Areas	
	Rate per 100,000	(95% CI)	Rate per 100,000	(95% CI)
# of Deaths	390		26,600	
All Cause Mortality (Age-Adjusted Rate per 100,000 Population)				
		(510.3 -		(526.4 -
All	591.4	672.5)	533.4	540.4)
		(395.0 -		(441.4 -
Female	484.6	574.2)	449.9	458.4)
		(657.2 -		(625.7 -
Male	879.9	1102.6)	637.7	649.6)
Homicide Mortality (Age-Adjusted Rate per 100,000 Population)				
All	*		5.7	(5.2 - 6.3)
Suicide Mortality (Age-Adjusted Rate per 100,000 Population)				
All	21.0	(13.6 - 28.4)	9.8	(9.1 - 10.6)

\* Suppressed data < 10.





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