COMMUNITY HEALTH PROFILE
Individual Site Report | St. Louis Service Area
Acknowledgments

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The report contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention.

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EXECUTIVE SUMMARY

Urban Indian Health Institute (UIHI) analyzes data from the American Community Survey and the National Vital Statistics System to estimate proportions for 33 health indicators. With this data, UIHI creates Community Health Profiles for service areas throughout the United States.

This Community Health Profile contains sociodemographic, mortality, and maternal and child health data on American Indians and Alaska Natives (AI/ANs) that has been aggregated over a five-year period from the St. Louis service area, which includes St. Louis County. The sociodemographic data as well as the mortality data are from 2010-2014, and the maternal and child health data are from 2008-2012.

The county data shows that urban Indians living in the St. Louis service area frequently experience higher proportions of poverty and disparities in employment, education, and food security when compared to their Non-Hispanic White (NHW) counterparts. 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:

Compared to NHW, urban AI/AN in these counties are:

• More than three and a half times as likely to experience unemployment,

• Approximately 34% less likely to have a Bachelor’s degree or higher, and

• More than three and a half times as likely to participate in food assistance programs

It is also important to note the high percent of missing data for some key maternal and child health indicators:

• Over 40% of the gestational diabetes data were missing

• Over 40% of the prenatal care data were missing
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INTRODUCTION

The health needs of America’s urban Indian population present unique challenges. Across the U.S., an examination of the health outcomes of urban Indians show disproportionately high incidence of disease, co-morbidity, and mortality, particularly for urban Indian mothers. This is significant because, of the 5.2 million Americans who identify as American Indian/Alaska Native (AI/AN), 71% live in urban areas. To meet their health needs, numerous health and social service programs are providing culturally appropriate and holistic care. Many offer services that are grounded in indigenous knowledge and bring Western and traditional medicine together.

As Urban Indian Health Programs and Native health organizations strive to provide the highest-quality care to urban Indians, relevant data are needed. Since 2000, UIHI has created Community Health Profiles for 35 cities where urban Indian people reside, and, in 2018, nine cities were added. This individual Community Health Profile details the data for the St. Louis service area, which includes St. Louis County.
ST. LOUIS SERVICE AREA

What is an urban Indian?

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

71% of American Indians and Alaska Natives live in urban areas

SERVING THE HEALTH NEEDS OF URBAN INDIANS

Programs across the United States are providing holistic health care to urban Indians, including private, non-profit corporations receiving partial funding from the Indian Health Service as well as social- and faith-based organizations. UIHI defines the service areas of these programs as Urban Indian Health service areas and are illustrated below in Map 1.
HOW TO USE THIS REPORT

Improving community health through effective planning and decision making requires good information about the factors that influence the health status of community members. While limited in scope and restricted to available and usable data, this report provides valuable information for service providers serving an urban Indian population with unique needs and greater risk factors. The information provided here is intended to supplement other local data available to your organization.

Program Planning

Data in this report can be used by urban Indian organizations to identify health priorities, allocate resources, and guide the development of innovative programs.

Funding

Data and figures help tell the story of existing health disparities in the AI/AN population compared to NHWs. This report may be useful to include as information for grant applications and other funding opportunities. It can also be cited as a reference.

Identifying Gaps in Data

This report may reveal the need to close current gaps in nationally-collected data. Providers may want to consider pushing their jurisdictions to link other relevant data to help correctly classify AI/ANs in state death records. Another way to improve data collection is by oversampling AI/ANs in national surveys, which provides sufficient statistical power to allow for more stable estimates.

Research

Data in this report can be used to generate additional hypotheses for future studies, evaluations, or assessments.
METHODS AND DATA

This report includes information from residents of St. Louis County as well as data from the 2010 U.S. Census, American Community Survey, and National Vital Statistics System. There are limitations to this data particularly due to variations in how race is defined and collected.

Analysis

A list of indicators for the community health profile was selected after an analysis of the available data sources. For each indicator, prevalence or incidence was calculated for the AI/AN population and compared with the NHW population. Since NHWs are the racial/ethnic majority, this population was chosen as the comparison group. The AI/AN population was defined as AI/AN only, and 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 were calculated using aggregated data over a five-year period. Which added stability to estimates and protected individual privacy.

In some instances, confidence intervals—ranges of numbers used to assess the accuracy of a point estimate and measure the variability in data—were 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 account for the uncertainty that arises from the natural variation inherent in the world around us.

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 were calculated at a p-value of <0.05, which is a 95 percent confidence level. This means that 95 times out of 100 the confidence interval captures the true value for the population. Differences in outcomes were called significant if confidence intervals of the study group (AI/AN) did not overlap with the comparison group (NHW). Data analysis for indicators were analyzed using the statistical software SAS version 9.4.

Data Limitations

Although data analysis and assessment of results were conducted for 33 indicators, data limitations were found. In some instances, the number of cases or sample size was limited, data collection excluded AI/AN in combination, or there was possible racial misclassification of AI/AN. These limitations impact the analysis and prevent or limit the reporting of results.
Frequently, data were only available for AI/ANs alone and not inclusive of AI/ANs who also identify with another race or ethnicity. Therefore, the estimates provided in this report may be an underestimation of the true value of the outcome or risk factor for any indicator analyzed.

Racial misclassification, particularly for mortality data, can greatly underestimate the true rate of disease, risk factor, or outcome. AI/ANs are especially likely to experience problems of incorrect classification on death certificates. Therefore, true mortality rates among AI/ANs are assumed to be higher than reported. 5, 6

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. In 2010, the U.S. Census allowed individuals to self-report belonging to more than 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 they report being AI/AN in combination with other races. Some Census statistics are not easily accessible when including individuals who report multiple races, so, for these indicators, only individuals who report AI/AN alone are included.

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

American Community Survey

The American Community Survey (ACS) is a nationwide, continuous 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 1-, 3-, and 5-year aggregate estimates. Estimates for this report are from aggregated data from 2010-2014.

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 rates 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) are generated from death certificates. The five most recent years for which complete mortality data were available was from 2010-2014. The five most recent years for which complete infant mortality data were available was from 2008-2012. 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, AI/ANs historically are a younger population than other race groups.

Birth certificate data from NVSS data files include all documented births occurring within the United States as filed in each state. These data include demographic information about parents, information on the infant, the mother’s risk factors, and information on the birth. The five most recent years for which complete natality data were available was from 2008-2012.

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. As a result, estimates in this report may not match local and county estimates because of differing projection methods.

For more information about NVSS, visit: http://www.cdc.gov/nchs/nvss.htm
Introduction

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.\textsuperscript{7,8} 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 Indian and Non-Hispanic White populations.\textsuperscript{7} This section presents data on measures of demographics and social determinants of health to illustrate the disparities between AI/ANs and NHWs.
Age and Gender

Relative to the NHW population, the AI/AN population in the St. Louis service area was younger (Figure 1; Figure 2). In the St. Louis service area, 29.8% of AI/ANs were under the age of 25 years, compared with 27.3% of NHWs. In contrast, 7.6% of AI/ANs were over the age of 65 years, compared with 18.7% of NHWs.

Figure 1. AI/AN Population by Age and Gender, St. Louis Service Area, 2010-2014

Source: American Community Survey, 2010-2014

Figure 2. NHW Population by Age and Gender, St. Louis Service Area, 2010-2014

Source: American Community Survey, 2010-2014
**Race**

As shown in Figure 3, an estimated 1,438 (0.1%) individuals identified as AI/AN alone in the St. Louis service area, and an estimated 8,265 (0.8%) individuals identified as AI/AN alone or in combination with one or more races (data not shown). Those who identified as White alone comprised the largest proportion (70.0%) of the total population (1,000,423) in the St. Louis service area. In addition, Black or African American was the second largest population identified, making up 23.3% of the total population.

**Unemployment**

Extensive evidence has shown that unemployment has a negative effect on health. Unemployed individuals may experience financial insecurity and are more likely to lack health insurance coverage. In the St. Louis service area, the percent of unemployed AI/ANs over 16 years of age was 3.6 times higher than NHWs (20.6% vs. 5.8%; Figure 4).
Poverty

Poverty limits access to healthy foods, quality housing, economic opportunities, and adequate health care.\textsuperscript{11, 12} These foundational social and economic factors are inextricably connected to health outcomes. The impacts of poverty on a child’s health and well-being can be detrimental, including negative effects on early childhood and secondary academic achievement.\textsuperscript{13, 14} In this report, poverty is defined as an annual income less than 100% of the federal poverty level. For example, in 2017, 100% of the federal poverty level for a family of four was no more than $24,600.\textsuperscript{15}

In the St. Louis service area, approximately one-quarter of AI/AN individuals lived in poverty (24.6%), compared to just 6.3% of NHWs (Figure 5). The percentage of AI/AN children experiencing poverty was higher than NHW children. Approximately one in four AI/AN children aged 17 and under (25.7%) lived in households with an income below the federal poverty level. This proportion is 4.1 times that of their NHW counterparts (6.2%). In addition, 14.6% of AI/AN families in the St. Louis service area lived in households with an income below the federal poverty level. This is 3.6 times higher than the proportion of NHW families (4.1%).

\textbf{Figure 5. Income Below the Federal Poverty Level in Past Year, St. Louis Service Area, 2010-2014}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{poverty-figure.png}
\caption{Income Below the Federal Poverty Level in Past Year, St. Louis Service Area, 2010-2014}
\end{figure}

\# - Data not available
Source: American Community Survey, 2010-2014
Educational Attainment

The relationship between education and health is well documented. Disparities in life expectancy by level of education are found among all demographic groups and are arguably increasing over time. In the St. Louis service area, a similar proportion of AI/ANs and NHWs aged 25 and older had not completed high school or passed the General Educational Development (GED) exam (5.1% vs. 5.5%; Figure 6). A lower proportion of AI/ANs (30.4%) reported a Bachelor’s degree or higher as their highest level of education compared with the NHW population (46.4%). The proportion of AI/ANs that reported a Bachelor’s degree or higher in the St. Louis service area was 34.5% lower than NHWs.

Figure 6. Educational Attainment for the Population 25 and Older, St. Louis Service Area, 2010-2014

Source: American Community Survey, 2010-2014

Health Insurance Coverage

Those without health insurance coverage have higher mortality rates than those with coverage. Individuals without health insurance are also less likely to receive care and take longer to return to health after an unintentional injury or the onset of a chronic disease than those with health insurance.

In the St. Louis service area, 16.5% of AI/ANs under age 65 reported having no health insurance, a proportion 2.6 times higher than that of NHWs (6.4%; Figure 7). The proportion of uninsured AI/AN children under the age of 18 (6.4%) in the St. Louis service area was 2.1 times higher than their NHW counterparts (3.0%; Figure 8).

Figure 7. Population Under 65 with No Health Insurance Coverage, St. Louis Service Area, 2010-2014

Source: American Community Survey, 2010-2014

Figure 8. Population Under 18 with No Health Insurance Coverage, St. Louis Service Area, 2010-2014

Source: American Community Survey, 2010-2014
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Figure 7. Population Under 65 with No Health Insurance Coverage, St. Louis Service Area, 2010-2014

![Figure 7: Population Under 65 with No Health Insurance Coverage](source)

Source: American Community Survey, 2010-2014

Figure 8. Population Under 18 with No Health Insurance Coverage, St. Louis Service Area, 2010-2014

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Source: American Community Survey, 2010-2014
**Housing**

Several studies have found that home ownership is associated with many health benefits.\textsuperscript{20, 21} 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.\textsuperscript{22}

In the St. Louis service area, 51.8% of all homes of Al/ANs were owner occupied compared with 79.1% of NHW households (Figure 9). The proportion of home ownership among Al/ANs was 34.5% lower than NHWs. In contrast, nearly one-half of all Al/AN households were renter occupied (48.2%) compared with approximately one in five NHW households (20.9%). The proportion of renter occupation among Al/ANs was 2.3 times higher than NHWs.

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**Figure 9. Housing Tenure, St. Louis Service Area, 2010-2014**

<table>
<thead>
<tr>
<th></th>
<th>Owner Occupied</th>
<th>Renter Occupied</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI/AN</td>
<td>51.8%</td>
<td>48.2%</td>
</tr>
<tr>
<td>NHW</td>
<td>79.1%</td>
<td>20.9%</td>
</tr>
</tbody>
</table>

Source: American Community Survey, 2010-2014
**Food Stamps**

Households experiencing poverty are more likely to be food insecure. As the largest food assistance program in the United States, the Supplemental Nutrition Assistance Program (SNAP), formerly known as the federal Food Stamp program, is a crucial part of the social safety net. In most states, many households with an income below 130% of the federal poverty level are eligible to receive SNAP benefits.

In the St. Louis service area, 17.5% of AI/AN households received SNAP benefits in the past year (Figure 10). The proportion of SNAP participation among AI/ANs in these areas was 3.6 times higher than NHWs (4.9%).

![Figure 10. SNAP Use, St. Louis Service Area, 2010-2014](source: American Community Survey, 2010-2014)
Introduction

Mortality data provide an indication of a community’s or population’s health and socioeconomic development status. Mortality data are also a key component to understanding population size, future growth, and change. Examining mortality data is one way to measure the burden of disease in a community or population. 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. Relevant and accurate data are needed on the health of urban Indians. UIHI recommends local, state, and national organizations work to improve the quality and availability of data to serve this diverse and unique population.
All-Cause Mortality Rate

In the St. Louis service area, the all-cause mortality rate was 71.7% lower for the AI/AN population than for the NHW population, which is a significant difference (Figure 11).

Figure 11. All-Cause Mortality, St. Louis Service Area, 2010-2014

Source: National Vital Statistics, Death Certificates, 2010-2014
Introduction

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 premature births can help urban Indian health organizations make the best decisions regarding programs for pregnant mothers and infants. In the St. Louis service area, UIHI found similarities between AI/AN and NHW for most key indicators. This section presents data on measures of MCH and can be used to inform programs to address the issues explored here.
Total Birth
From 2008 to 2012, there were a total of 107,630 births in the St. Louis service area. Among those births, 0.2% were identified as Non-Hispanic AI/AN alone (Figure 12). The largest proportions of births among the racial/ethnic groups were from NHW women (70.3%) and Non-Hispanic Black women (21.9%). Non-Hispanic Asians and Pacific Islanders were 3.9% of all births and Hispanics were 3.7% of all births.

Age
In general, AI/AN women tend to give birth at younger ages than their NHW counterparts (Figure 13). In the St. Louis service area, 9.1% of all births among AI/AN women were to teenage women (less than 19 years of age) compared to 3.8% of NHW births. The proportion of births to teenage women were 2.4 times higher in AI/ANs compared to NHWs. In addition, 56.3% of all births among AI/AN women were to women in their 20s, compared to 46.8% among NHWs. Conversely, NHW women had more children in their 30s compared to AI/AN women (46.3% vs. 32.3%).
Marital Status

In the St. Louis service area, 52.5% of all births to AI/ANs were to women who were married and 47.5% were to women who were not married (Figure 14). This was significantly different compared to NHWs in which 77.9% of births were to married mothers and 22.1% of births were to unmarried mothers. The proportion of births to unmarried women was 2.1 times higher among AI/ANs compared to their NHW counterparts.

Figure 14. Births by Marital Status, St. Louis Service Area, 2008-2012

Cesarean Section

While cesarean sections can prevent maternal and infant mortality and morbidity, there is no advantage for women who have the procedure electively.\textsuperscript{25, 26} Possible complications of cesarean sections include infection, hemorrhage or increased blood loss, injury to organs, and extended hospital stay.\textsuperscript{27, 28}

In the St. Louis service area, an estimated 36.6% of births were delivered by cesarean section among AI/AN females. This proportion was similar to their NHW counterparts at 36.5% (Figure 15).

**Figure 15. Births by Cesarean Section, St. Louis Service Area, 2008-2012**

Gestational Diabetes

A woman with gestational diabetes may have a larger than average baby.\textsuperscript{29} Diabetes during a pregnancy leads to the unborn child having a higher-than-normal blood sugar level, which causes an overproduction of insulin in the unborn child. That overproduction produces extra calories that are stored as fat, making the baby larger than average. Due to the size of the child, there may be delivery complications for both the mother and the baby.

In the St. Louis service area, 6.2% of Al/AN births were to women who were diagnosed with gestational diabetes during their pregnancy (Figure 16). This proportion was not statistically different from NHW women, where 3.9% of women giving birth were diagnosed with gestational diabetes. It may also be important to note that 41% of the data was missing for this indicator.
Maternal Smoking

Smoking before and during pregnancy is the single most preventable cause of illness and death among mothers and infants. Maternal smoking can result in complications during delivery for both mother and newborn and may result in adverse outcomes for the infant. Complications include low birth weight, preterm birth, ectopic pregnancy, miscarriage, stillbirths, slow fetal growth, placenta previa and abruption, severe vaginal bleeding, intrauterine growth restriction, sudden infant death syndrome (SIDS), and birth defects.

In the St. Louis service area, 16.7% of AI/AN women smoked while pregnant compared to 11.7% of NHW women (Figure 17). The proportion of maternal smoking was not statistically different between AI/AN and NHW women.
**Prenatal Care**

Prenatal care refers to the medical attention received by women before or during their pregnancy. The goal of prenatal care is to detect potential problems early in the pregnancy and to prevent potential complications. Early prenatal care is a significant component in ensuring a good pregnancy outcome and it is recommended for women to begin prenatal care during the first trimester. 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 birth weight, premature birth, morbidity, and mortality.

Among pregnant women in the St. Louis service area, 80.3% of AI/AN women began prenatal care in the first trimester compared to 91.6% of NHW women, a significant difference (Figure 18). In addition, 15.5% of AI/AN pregnant women began prenatal care in the second trimester compared to 7.3% of NHW pregnant women. It is important to note that 43% of the data were missing for this variable.

![Figure 18. Prenatal Care Initiation by Trimester, St. Louis Service Area, 2008-2012](image)

A premature birth is defined as, “childbirth occurring between 20 and 37 completed weeks of pregnancy.” Infants born prematurely have an increased risk of health complications, including infant mortality, and are at a greater risk of developing long-term disabilities. The risk of adverse outcomes is directly related to the length of a woman’s pregnancy. The shorter the pregnancy, the greater the risk of complications and disabilities in the newborn.

In the St. Louis service area, 13.4% of all infants born to AI/AN women were born prematurely, which was not statistically different from their NHW counterparts at 12.3% (Figure 19).

![Figure 19. Premature Birth Rate, St. Louis Service Area, 2008-2012](image)
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Premature Births

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Figure 19. Premature Birth Rate, St. Louis Service Area, 2008-2012

Low Birth Weight

Low birth weight is defined as less than 2,500 grams (5.5 pounds). Low birth weight infants have higher rates of subnormal growth, and adverse health conditions. In the St. Louis service area, 9.6% of all infants born to AI/AN women were low birth weight, which was not statistically different from their NHW counterparts at 8.1% (Figure 20).

Neonatal Intensive Care Unit Admission

Most babies admitted to the neonatal intensive care unit (NICU) are premature, have low birth weight, or have a medical condition that requires special care. Babies with medical conditions such as heart problems, infections, or birth defects are also cared for in the NICU.

There was no significant difference between AI/AN and NHW infants who were admitted to the NICU in the St. Louis service area (Figure 21). An estimated 7.4% of AI/AN newborns were admitted to the NICU compared to 6.5% of NHW newborns.
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REFERENCES


24. Kreider B, Pepper Jv, Gundersen C, Jolliffe D. Identifying the effects of SNAP (food stamps) on child health outcomes when


