



Community Health Profile 2009

Nebraska Urban Indian Health Coalition
Lincoln, NE



Urban Indian Health Institute
Seattle Indian Health Board
PO Box 3364 Seattle, WA 98114
Ph. (206) 812-3030 Fx. (206) 812-3044 Website. www.uihi.org

Community Health Profile

Note to Readers

For a complete list of urban Indian health organizations, and links to their health profiles, please visit: www.uihi.org

This is one of thirty four community health profiles produced by the Urban Indian Health Institute to examine the health of American Indians and Alaska Natives (AI/AN) living in select urban counties. These counties are served by the network of title V urban Indian health organizations across the country.

This health profile provides an overview of the health status of the AI/AN population living in the service area of the Nebraska Urban Indian Health Coalition. It examines preventable causes of illness, death, access to care, and burden of disease for this urban community. While this report covers key health indicators, not every health concern affecting the AI/AN community is examined.

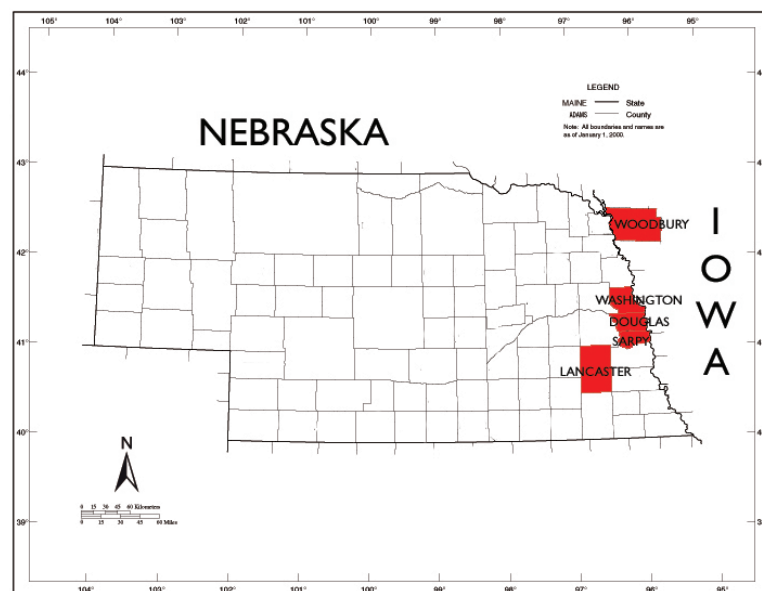
The health indicators covered provide data across two comparison groups: AI/AN and the general population (all race). In the instance where local data are unavailable, state or national data are presented.

For more information please contact the
Urban Indian Health Institute
Seattle Indian Health Board
PO Box 3364
Seattle, WA 98114
(206) 812-3030
Website: www.uihi.org
e-mail: info@uihi.org

Counties served by the
Nebraska Urban Indian Health
Coalition:

- Douglas
- Lancaster
- Sarpy
- Washington
- Woodbury (IA)

Figure 1. Nebraska



Source: 2000 US Census.

Note: Counties served by the Nebraska Urban Indian Health Coalition are highlighted in red.

Notes on Data Use and Limitations

General Limitations:

Racial misclassification is defined as incorrect coding of an individual's race or ethnicity in public records. Racial misclassification of AI/AN on surveillance data is well documented,^{1,2} complicating epidemiologic assessments. For example, the monitoring of AI/AN health status and evaluation of health outcomes are made more difficult by racial misclassification, which often results in a gross underestimate of the true disease burden.³ Additionally, racial misclassification distorts overall population counts and can negatively impact equitable resource allocation. Because of this consistently documented research, we assume that many of the health disparities presented in this community health profile using vital records data are larger than reported.

Data presented are specific to the county(s) in this urban Indian health organization service area. However, in some instances, county level data are aggregated with other counties because the number of events (e.g., births, deaths, respondents) are too small to report.

Behavioral Risk Factors Surveillance System (BRFSS):

While the BRFSS is the world's largest on-going telephone survey, and includes enough AI/AN respondents at the national level for meaningful analysis, it has several limitations. First, as a telephone survey, only households with phone service are included in this survey, which eliminates certain segments of the population that may be more at risk of poor health outcomes. Second, phone surveys introduce the possibility of bias. There may be something inherently different about people who agree to participate in the phone survey compared to those who do not. Because we have no information about individuals who do not participate in the survey, we cannot assess the degree to which there is a difference in health and behaviors between these groups. Finally, individuals may have difficulty recalling information accurately or may choose not to answer questions truthfully. For more information about the BRFSS, please visit: <http://www.cdc.gov/BRFSS>.

Census Data:

Readers of this community health profile will note the use of 2000 U.S. Census data. While this data is currently the only data available, it is almost 10 years old at the time of this report's publication. As such, it does not reflect the changes in population count and poverty that are predicted.

Vital Records:

Collection methods for prenatal care and maternal smoking collected on birth certificates have recently changed. In order to address this, we present data pre-certificate change (1998-2002). To protect individual confidentiality, some indicators (e.g., SIDS) are presented with more years (1995-2004) so that reporting on this important indicator is possible.

Notes on Race Classification:

Data from the 2000 Census allow for multiple race categories, and mixed racial background reporting. Census data presented in this profile include people reporting AI/AN heritage alone and AI/AN heritage in combination with another race. The terms "all race" and "general population" are used interchangeably.

For the BRFSS data, respondents are asked two questions regarding race:

1. Which one or more of the following would you say is your race?
2. Which one of these groups would you say best represents your race?

The BRFSS data presented in this community health profile reports on individuals who selected AI/AN as "the group that best represents your race."

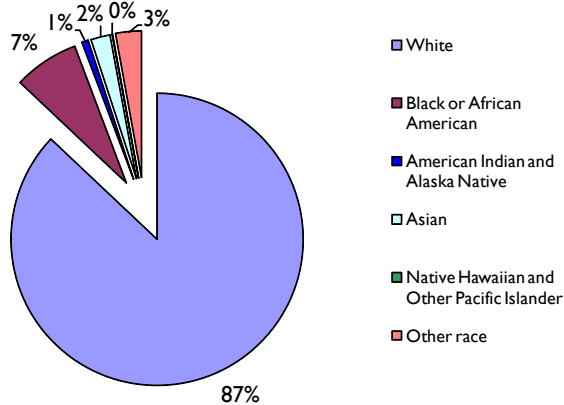
Census Overview

The Nebraska Urban Indian Health Coalition (NUIHC) service area is home to a diverse group of AI/AN people. According to the 2000 Census, over 11,000* residents reported that they are of AI/AN heritage.

* This number includes AI/AN alone and in combination with another race

Race/Ethnicity

Figure 2. Total Population, NUIHC Service Area



Source: 2000 US Census.

Note 1: Legend corresponds clockwise on the pie graph starting from the largest population group, White.

Note 2: This figure refers to those who identify themselves as AI/AN alone.

Population

Figure 3. NUIHC Service Area

Total population: 959,128
AI/AN population: 11,543

Source: 2000 US Census.

Age

The AI/AN population in this service area is younger than the population overall.

Figure 4. Age Distribution

Age	All Race	AI/AN
0-17 yrs	26.4%	36.8%
18-24 yrs	11.5%	13.5%
25-44 yrs	30.9%	31.5%
45-64 yrs	20.7%	14.6%
65+ yrs	10.6%	3.5%

Source: 2000 US Census.

Educational Attainment

AI/AN suffer disparities in educational attainment. In this service area, 23.6% of AI/AN residents do not have a high school degree compared with 11.7% of the general population.

Figure 5. Educational Attainment, 25 and older

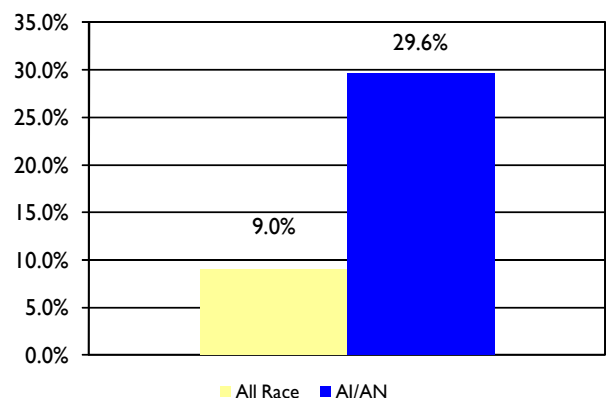
Highest Level of Education	All Race	AI/AN
No High School Diploma/GED	11.7%	23.6%
High School Diploma/GED	26.9%	33.8%
Some College	31.7%	32.9%
BA/MA/PhD Degree	29.6%	9.6%

Source: 2000 US Census.

Poverty

In this service area, 29.6% of AI/AN residents are living in poverty - more than three times the general population (9%).

Figure 6. Poverty Status



Source: 2000 US Census.

Mortality Overview

Top Causes of Mortality

Similar to the general population, heart disease and cancer are the two most common causes of death among AI/AN residents in this service area, followed by diabetes and cerebrovascular disease. Unintentional injury ranks fifth in all cause mortality among AI/AN, significantly higher than the general population.

Deaths due to unintentional injury pose a great health risk for the AI/AN population, and because of racial misclassification, the magnitude of the disparity could be an underestimate. In order to address this disparity, health workers must better understand the risk factors, and design culturally appropriate interventions to prevent these injuries.

Figure 7. AI/AN Top Cause Mortality, 2001-2005

Top Causes of Death	Rate (Per 100,000)
1. Heart disease	247.1
2. Cancer	169.9
3. Diabetes	73.0
4. Cerebrovascular disease	60.2
5. Unintentional injury	54.9

Source: US Centers for Health Statistics.

Cancer Mortality

Lung cancer is the leading cause of cancer deaths among AI/AN living in this service area. Many factors contribute to the risk of developing lung cancer including: smoking and being around others who smoke, exposure to radon gas or asbestos, and a family history of lung cancer.⁴

Figure 8. AI/AN Cancer Mortality, 2001-2005

Top Causes of Cancer Mortality	Rate (Per 100,000)
1. Lung	52.6
2. Breast	*
3. Colorectal	*

Source: US Centers for Health Statistics.

*Numbers too small to report

Disparities in Mortality

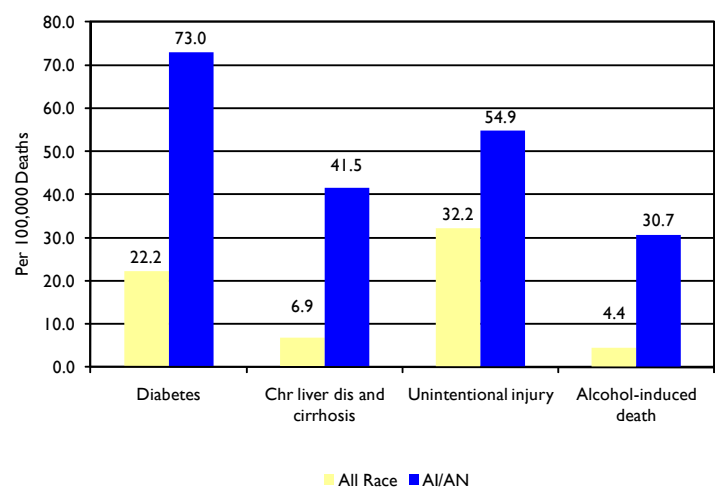
Figure 9 shows select mortality disparities among the AI/AN population living in this service area.

Among AI/AN residents, the diabetes mortality rate is 73.0/100,000, greater than the general population (22.2/100,000)

Among AI/AN residents, the chronic liver disease and cirrhosis mortality rate is 41.5/100,000, higher than the general population (6.9/100,000)

Among AI/AN residents, the alcohol-induced mortality rate is 30.7/100,000, greater than the general population (4.4/100,000)

Figure 9. Select Mortality Disparities, 2001-2005



Source: US Centers for Health Statistics.

Reported Health and Health-Influencing Behaviors

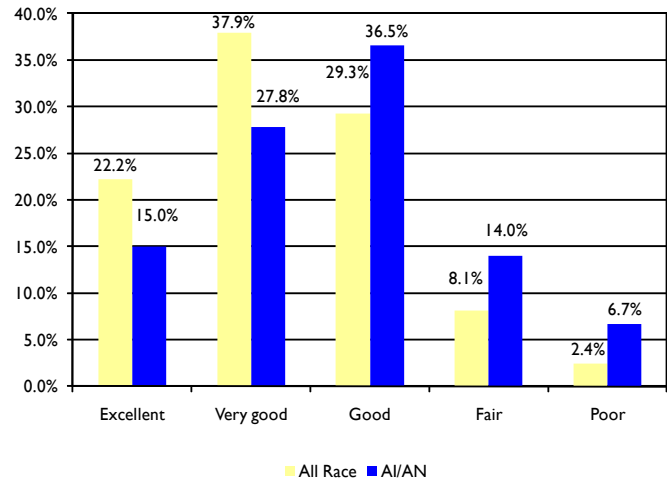
Self-Reported Health Status

Self-reported health status captures symptoms of disease in addition to diagnosed illness. Its use broadens the scope of information gathered to include perceptions of health, treatment adherence, and resources available within the environment.⁵

For the Behavioral Risk Factors Surveillance System (BRFSS), respondents are asked to rate their own health using one of the following options: “Excellent”, “Very Good”, “Good”, “Fair” or “Poor”.

Over 20% of the AI/AN population in this service area rated their own health as fair or poor - almost double that of the general population at 10.5%.

Figure 10. Self-Reported Health Status, 2004-2008



Source: CDC, Behavioral Risk Factor Surveillance System.

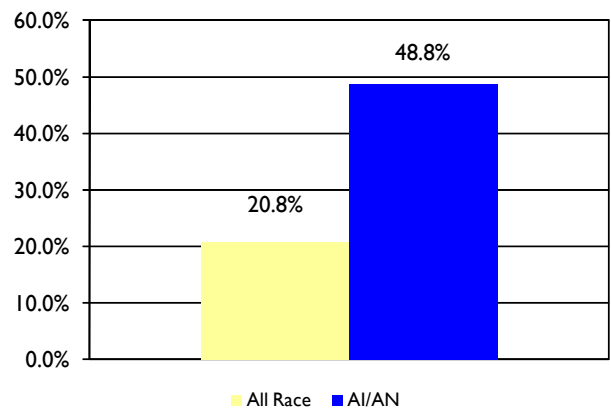
Tobacco Use

Over 48% of AI/AN residents in this service area report that they are current smokers compared with 20.8% of the general population.

The negative health effects of smoking are well documented and include an increased risk of lung cancer and stroke.⁶

For information on how your urban Indian health organization can help reduce rates of smoking in your service area, contact your local health department.

Figure 11. Current Smoker, 2004-2008



Source: CDC, Behavioral Risk Factor Surveillance System.

Disease Prevention Note: No matter how long one has been smoking, quitting is the most important step to take in order to reduce the risk of developing cancer and lung disease. According to the American Cancer Society, people who stop smoking before age 50 cut their risk of dying in the next 15 years in half compared with those who keep smoking.⁷

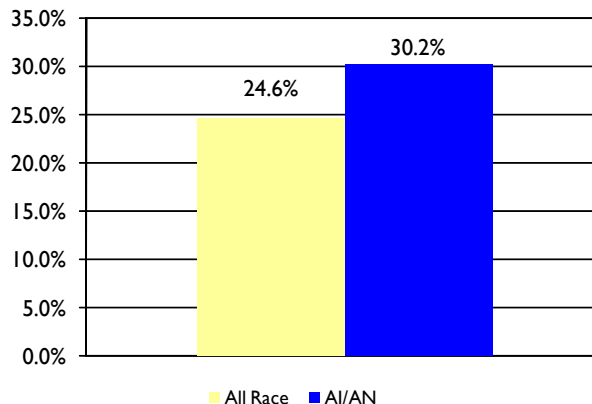
Reported Health and Health-Influencing Behaviors (cont'd)

Obesity

The prevalence of obesity in AI/AN communities points to an urgent need for culturally appropriate prevention programs and increased access to healthy foods. Over 30% of AI/AN living in this service area report they are obese compared with 24.6% of the general population.

The lack of fitness and physical activity combined with overconsumption of unhealthy foods likely drive the obesity epidemic. Exercising and eating healthy are two ways to prevent obesity.

Figure 12. Obesity (BMI \geq 30), 2004-2008



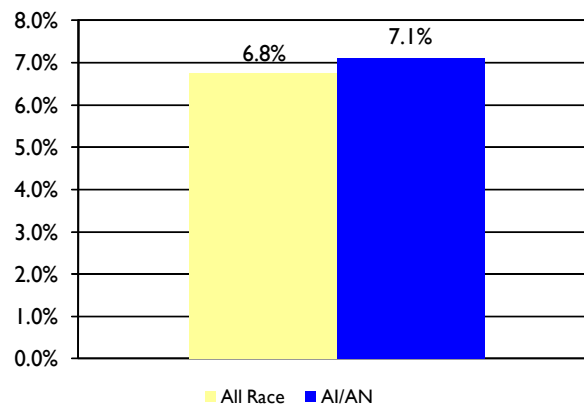
Source: CDC, Behavioral Risk Factor Surveillance System.

Diabetes

Nationally, AI/AN suffer a disproportionate burden of diabetes. Among AI/AN living in this service area, 7.1% have been told by a doctor that they have diabetes compared to 6.8% of the general population. Given the limitations of the survey method the magnitude of the diabetes burden among AI/AN reported through BRFSS is likely an underestimate.

With diagnosis of diabetes comes the additional cost of managing the disease. According to the American Diabetes Association, people with diabetes, on average, have medical expenditures that are 2.3 times higher than those without diabetes.

Figure 13. Diagnosed with Diabetes, 2004-2008



Source: CDC, Behavioral Risk Factor Surveillance System.

Disease Prevention Note: There is a strong relationship between obesity and diabetes,⁸ and research suggests weight loss can help prevent the onset of type 2 diabetes. Diabetes is associated with a number of life threatening conditions including heart disease, stroke, high blood pressure and kidney disease. If not properly managed, diabetes can result in amputations, blindness and premature death.⁸

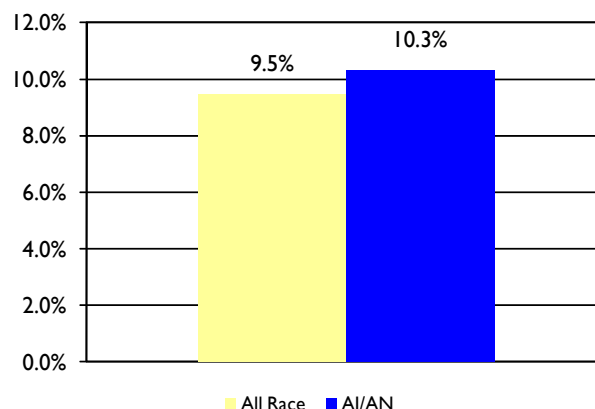
Barriers to Care

Could Not See Doctor Because of Cost

Affordable health care is an essential component of health promotion and disease prevention. One of the Healthy People 2010 (HP 2010) goals is to reduce the proportion of families that experience difficulties or delays in obtaining health care or do not receive needed care for one or more family members.

The HP 2010 target is 7%. Among AI/AN living in this service area, 10.3% report they were unable to see a doctor in the past year because of cost issues.

Figure 14. Could Not See a Doctor Because of Cost, 2004-2008



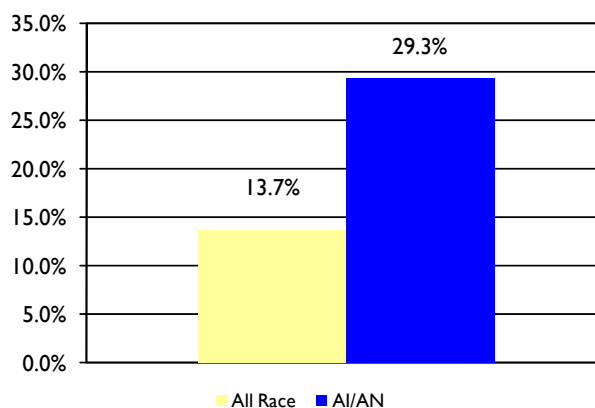
Source: CDC, Behavioral Risk Factor Surveillance System.

Had No Insurance in Past 12 Months

Over 29% of AI/AN living in this service area report not having health care coverage (including federal programs) in the past year compared to 13.7% of the general population.

Health service research has documented serious health and financial consequences associated with being uninsured. Those without adequate health coverage have 55% fewer interactions with health care providers. The uninsured receive less preventive care, are typically diagnosed with more advanced disease status, and have higher mortality rates compared to the insured.⁹

Figure 15. No Health Insurance, 2004-2008



Source: CDC, Behavioral Risk Factor Surveillance System.

Disease Prevention Note: Access to health care is an essential component of preventing illness and treating disease. The network of title V urban Indian health organizations make outpatient health services accessible to urban Indians, either directly or by referral. Despite increasing numbers of AI/AN in census defined urban areas, funding for urban Indian health has remained at approximately 1% of Indian Health Services' annual appropriations since 1979.¹⁰

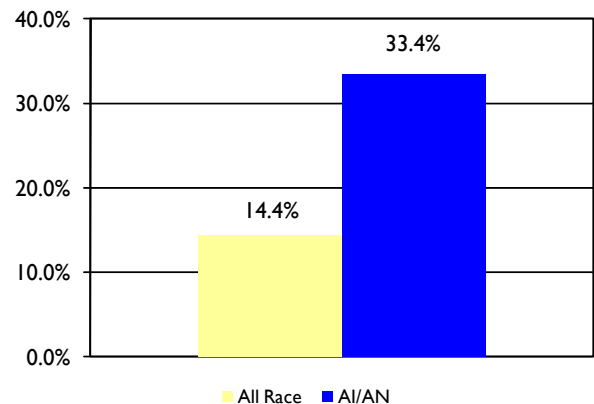
The Health of Mothers and Children

Smoking During Pregnancy

Over 33% of AI/AN women in this service area report smoking during pregnancy compared to 14.4% of the general population.

Smoking during pregnancy has been identified as the most important potentially preventable cause of low birth-weight in the United States. According to the CDC, babies born to women who smoke during pregnancy are about 30% more likely to be born prematurely.¹¹

Figure 16. Smoking During Pregnancy, 1998-2002*



Source: US Centers for Health Statistics.
* See limitations section for use of data 1998-2002

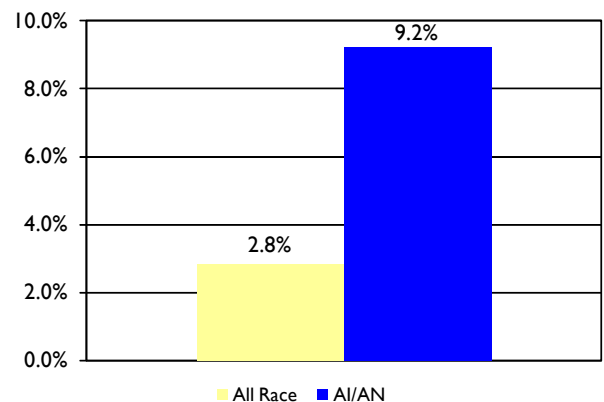
Births to Teen Mothers

In this service area, 9.2% of AI/AN births are to teen mothers compared with 2.8% in the general population.

Teen births can carry additional health risks for the mother and the baby, including premature birth and low birth weight.¹²

Accessing prenatal resources and navigating the health care system is difficult enough for most new mothers, but the risk of inadequate prenatal care for young mothers is even greater.¹²

Figure 17. Births to Teen Mothers, 2001-2005



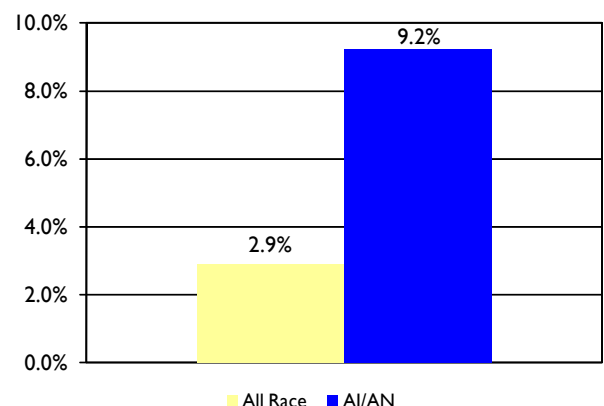
Source: US Centers for Health Statistics.

Late or No Prenatal Care

Late prenatal care is defined as care received at the 7th month of pregnancy or later. Over 9% of AI/AN women in this service area are receiving late or no prenatal care compared with 2.9% of the general population.

Comprehensive prenatal care can promote healthy pregnancies. Women who receive early prenatal care can detect and manage preexisting conditions and receive health behavior advice, reducing the risk of adverse birth outcomes.¹³

Figure 18. Late or No Prenatal Care, 1998-2002*



Source: US Centers for Health Statistics.
* See limitations section for use of data 1998-2002

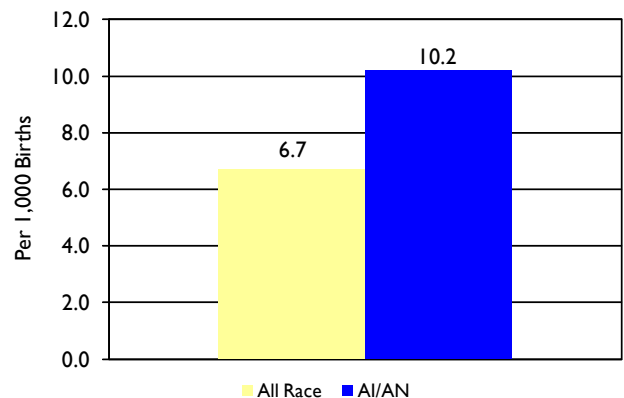
The Health of Mothers and Children (cont'd)

All Cause Infant Mortality

The infant mortality rate is defined as the number of babies less than one year of age that die per 1,000 live births.

In this service area, the rate of AI/AN infant deaths is 10.2 out of every 1,000 live births - higher than that reported in the general population (6.7).

Figure 19. All Cause Infant Mortality, 2000-2004



Source: US Centers for Health Statistics.

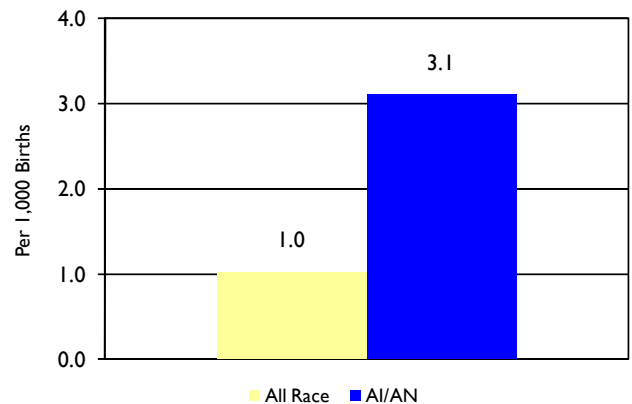
SIDS

In this service area, the rate of AI/AN infant deaths due to Sudden Infant Death Syndrome (SIDS) is 3.1 out of every 1,000 live births.

Little is known about the causes of SIDS, or why the AI/AN community has a higher prevalence of SIDS related deaths.

Parents can reduce the risk to their baby by always placing the baby on his/her back to sleep, placing the baby on a firm sleep surface, and avoid letting the baby overheat during sleep.¹⁴

Figure 20. Infant Mortality Due to SIDS, 1995-2004



Source: US Centers for Health Statistics.

Funding for this report was provided by the Indian Health Service Division of Epidemiology and Disease Prevention.

The UIHI would like to thank the National Center for Minority Health and Health Disparities, the staff at the urban Indian health organizations for their input, and acknowledge the excellent work they do daily on behalf of their communities.

For questions or comments please contact:
Urban Indian Health Institute
Seattle Indian Health Board
info@uihi.org
Phone: 206-812-3030
www.uihi.org

References:

- ¹ Thoroughman DA, Frederickson D, Cameron HD, Shelby LK, Cheek JE. Racial misclassification of American Indians in Oklahoma State surveillance data for sexually transmitted diseases. *Am J Epidemiol.* 2002 Jun 15;155(12):1137-41.
- ² Bertolli J, Lee LM, Sullivan PS; AI/AN Race /Ethnicity Data Validation Workgroup. Racial misidentification of American Indians/Alaska Natives in the HIV/AIDS Reporting Systems of five states and one urban health jurisdiction, U.S., 1984-2002. *Public Health Rep.* 2007 May-Jun;122(3):382-92.
- ³ Rhoades DA. Racial misclassification and disparities in cardiovascular disease among American Indians and Alaska Natives. *Circulation. Journal of the American Health Association.* 2005 Mar 15;111(10):1250-6.
- ⁴ Centers for Disease Control and Prevention. Lung Cancer Basics, Information, and Risk Factors. www.cdc.gov/cancer/lung/basic_info/risk_factors.htm [accessed 2009 June 14].
- ⁵ Idler, EL., Benyamini, Y. Self-rated health and mortality: a review of twenty-seven community studies. *Journal of Health and Social Behavior.* 1997 Mar; 38(1): 21-37.
- ⁶ Centers for Disease Control and Prevention. Annual Smoking-Attributable Mortality, Years of Potential Life Lost, and Economic Costs—United States, 1995–1999. *Morbidity and Mortality Weekly Report* [serial online]. 2002;51(14):300–303 [accessed 2009 June 20].
- ⁷ American Cancer Society: Guide to Quitting Smoking. http://www.cancer.org/docroot/PED/content/PED_10_13X_Guide_for_Quitting_Smoking [accessed 2009 May 19].
- ⁸ Centers for Disease Control and Prevention. National diabetes fact sheet: general information and national estimates on diabetes in the United States, 2003. Rev ed. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2004. <http://www.cdc.gov/diabetes/pubsfactsheet.htm>. [accessed 2009 June 4].
- ⁹ The Kaiser Commission on Medicaid and the Uninsured. The cost of care for the uninsured: what do we spend, who pays, and what would full coverage add to medical spending? Issue update, 2004.
- ¹⁰ Indian Health Services, Health Services Appropriation History, 1983-1999; Indian Health Service, History of Appropriations 1977-1982, 01/09/82; FY 2001 Approved I.H.S. Budget.
- ¹¹ Centers for Disease Control and Prevention. Tobacco Use and Pregnancy. www.cdc.gov/reproductivehealth/tobaccoUsePregnancy/index.htm [accessed 2009 May 2].
- ¹² National Institutes of Health. National Library of Medicine. Medline Plus Health Topics. <http://www.nlm.nih.gov/medlineplus/teenagepregnancy.html> [accessed 2009 June 14].
- ¹³ Kogan MD, Martin JA, Alexander GR, Kotelchuck M, Ventura SJ, Frigoletto FD. The changing pattern of prenatal care utilization in the United States, 1981 - 1995, using different prenatal care indices. *JAMA* 1998; 279: 1623-1628.
- ¹⁴ National Institutes of Health, National Institute of Child Health and Human Development. http://www.nichd.nih.gov/publications/pubs/safe_sleep_gen.cfm [accessed 2009 June 4].