Diabetes Among American Indians and Alaska Natives in California: Prevention is the Key

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California is home to more American Indian and Alaska Natives (AIANs) than any other state in the U.S. with 627,600 people. An estimated 14% of the native population are members of California's Indigenous tribes. There are 107 federally recognized tribes in California, more than any other state, except Alaska.

Diabetes, a serious and growing public health problem, is the sixth leading cause of death in the U.S. and the seventh in California. It is also the leading medical cause of amputations, blindness, and kidney disease. In California, diabetes affects more than 1.4 million or 5.9% of adults over the age of 18. Approximately 30,000 AIAN adults (7.4%) have been diagnosed with diabetes. Prevalence increases with age – 2.6% of AIAN adults between the ages of 18 and 44 report having diabetes, increasing to 8.9% among those aged 45–54, 15.3% among those aged 55–64, and 21.9% among those age 65 and older.¹

Diabetes and Co-morbidities

Diabetes is a risk factor for health conditions such as hypertension, heart disease, and stroke.

■ Approximately three out of every five AIAN adults with diagnosed diabetes in California (62.1%) have also been diagnosed with hypertension, nearly 2.8 times the rate of adults not diagnosed with diabetes (Exhibit 1).

■ In addition, a comparison of co-morbidity rates among AIAN adults to Healthy People 2010 objectives demonstrates that AIANs fall especially short of targets for high blood pressure and oral health (data not shown).

■ Approximately one in four AIAN adults with diagnosed diabetes in California (26.2%) have also been diagnosed with heart disease, nearly 3.4 times the rate of adults not diagnosed with diabetes (Exhibit 1).

Risk Factors for Diabetes

Being overweight or obese greatly increases the risk of developing diabetes.

■ Approximately four in five AIAN adults with diabetes (81.1%) are overweight or obese. This proportion is highest among AIAN adults ages 18-64 (86.4%).

■ Compared with AIAN adults of normal weight, overweight or obese AIAN adults are 2.6 times more likely to have diabetes (data not shown).

Health Insurance Coverage

The only recognized “political minority” in the U.S., members of federally-recognized tribes have legal rights to health care. In California, some American Indians are not members of federally-recognized tribes, but they are legally eligible for Indian Health Service (IHS) programs...

¹ Surprisingly, the data showed relatively small differences (non-significant) between urban and rural AIAN populations, thus it was not discussed in this fact sheet.

² Beginning in 1998, the U.S. Census Bureau ceased counting IHS eligibility as health insurance coverage, thus it is excluded from the non-IHS coverage section.
Access to Care

Over six in ten AIAN adults over the age of 18 with diabetes (64.8%) live below 300% of the Federal Poverty Level (FPL), compared to just over half of AIAN adults without diabetes (53.3%). Almost one in three AIAN adults over the age of 18 with and without diabetes (31.1%) reported at least some type of delay in seeking care.

Policy Issues and Recommendations

AIAN adults in California have high rates of access to diabetes care measures (e.g. annual foot exams and self-blood-glucose-monitoring). However, this population has moderate rates of uninsurance and is at significant risk for diabetes as seen in the high rates of obesity, including in younger populations. A focus on prevention and control of obesity, co-morbidities of diabetes – such as hypertension and heart disease – and oral health, are greatly needed for the AIAN population.

The current downturn in the economy is increasing the burden on an already overworked, inadequate system of care. As unemployment increases, so do the demands on a poorly funded health system for the AIAN population. Yet, federal funding remains far behind the increases in medical care costs for AIANs. State contributions to Indian health programs have been almost flat and are currently in jeopardy of significant reductions.

Policymakers, researchers and health advocates at the federal, state, tribal and urban Indian level should place greater emphasis on programs and funding for:

- Prevention of diabetes for younger generations
- Prevention of obesity – a major risk factor for diabetes
- Prevention and control of co-morbidities of diabetes, such as hypertension and heart disease
- Expansion of IHS and state programs’ coverage, fulfilling both the federal and state obligation of health care
- Preparation of “mainstream” health delivery services to serve native people, especially in the state with the largest population of AIANs

Conducting additional studies of sub-AIAN populations, such as immigrant-AIAN and non-U.S. federally-recognized AIANs, to identify key diabetes prevention and control issues in California.

For more information on American Indians and Alaska Natives by urban and rural constructs, please visit http://www.chis.ucla.edu/.


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Data Source

This fact sheet is based on data from the 2001 California Health Interview Survey (CHIS 2001). CHIS 2001 completed interviews with 55,428 adults, 5,801 adolescents ages 12-17, and 12,592 parents of young children ages 0-11. This fact sheet uses the CHIS 2001 RDD sample and defines AIAN as any person who self-identified as AIAN alone or in combination with any other race (n=3,990); it does not exclude immigrant indigenous, persons from non-federally recognized tribes, or AIANs who are of Latino ethnicity. Within this group, 266 AIAN adults reported having diabetes. The data were weighted based on the 2000 Census.

The California Health Interview Survey (CHIS) is a collaboration of the UCLA Center for Health Policy Research, the California Department of Health Services, and the Public Health Institute. Funding for CHIS 2001 was provided by the California Department of Health Services, The California Endowment, the National Cancer Institute, the California Children and Families Commission, the Centers for Disease Control and Prevention (CDC), and the Indian Health Service. For more information on CHIS, visit www.chis.ucla.edu.