

AMERICAN INDIAN/ALASKA NATIVES & TOBACCO USE

Despite reductions in smoking* prevalence achieved since the first Surgeon General's report on the consequences of smoking in 1964, smoking remains the leading cause of preventable death in the United States. 1 Smoking accounts for 480,000 deaths in the United States each year, and is a major risk factor for four of the leading causes of death: heart disease, cancer, chronic obstructive pulmonary disease, and stroke.² American Indians and Alaska Natives (Al/AN), as a whole, have an especially high risk of suffering from tobacco-related death and disease because they have the highest prevalence of smoking compared to any other population group in the United States.

Tobacco Use Among American Indian/Alaska Native Adults

American Indians and Alaska Natives (Al/AN) have a higher smoking rate than any other racial/ethnic subgroup, According to the 2020 National Health Interview Survey (NHIS) of adults ages 18 and over. 27.1 percent of Al/AN[†] currently smoke cigarettes (more than twice the overall adult current smoking rate of 12.5% from that same year). In comparison, 13.3 percent of Whites, 14.4 percent of African Americans, 8.0 percent of Hispanics, and 8.0 percent of Asian Americans reported currently smoking cigarettes in 2020.

A study of National Survey on Drug Use and Health (NSDUH) trends from 2002 to 2016 found that while there have been significant downward trends in the smoking rates among all other race/ethnic groups, there was no significant change in the smoking rates of Al/ANs. Additionally, the study found that the high smoking rates among Als/ANs increased when other risk factors were present, including lower levels of education and income. 4

Within the Al/AN population, smoking rates can vary considerably from one tribe to another. According to a 2005 study, 14 percent of Southwest tribal members were smokers compared to a 50 percent smoking rate among Northern Plains tribal members. 5 A 2010 study found that, despite a lack of tobacco-related tribal traditions, cigarette use was four times higher among Alaska Natives than American Indians in the Southwest United States (32 percent vs. 8 percent).6

According to the Centers for Disease Control and Prevention, Al/AN women have the highest rate of smoking during pregnancy of any racial or ethnic group. 16.7 percent of Al/AN women smoke during their pregnancy, compared to 10.5% of whites, 6.0% of African Americans, 1.8% of Hispanics, and 0.6% of Asian Americans. Tobacco use during pregnancy is one of the key preventable causes of adverse pregnancy outcomes.

In addition to having the highest smoking rate among all racial/ethnic groups, AI/ANs have the highest prevalence of use of any tobacco product. According to the 2020 NHIS, 34.9% of Al/AN adults are current users of any tobacco product[‡] (compared to 21.1% for Whites, 19.4% for African Americans, and 11.7% for Hispanics).8

Tobacco Use Among American Indian/Alaska Native Youth

Al/AN high school students have traditionally had the highest rates of tobacco use of all racial/ethnic groups. According to the 2022 National Youth Tobacco Survey (NYTS)§, Al/AN high school students also have the highest rates of e-cigarette use (14.6%) and any tobacco product use (20.0%), and the second highest rate of any combustible tobacco product use (6.6%). Data for other tobacco products, such as

References to smoking or tobacco use throughout this document refer to the use of commercial tobacco and not the sacred and traditional use of tobacco by some American Indian communities

[†] NHIS 2021 did not report rates for tobacco product use among Al/AN adults as it had in previous years.

[‡] See previous footnote regarding NHIS 2021.

[§] NYTS 2023 did not report rates among Al/AN youth.

cigarettes and cigars were not available from the 2022 NYTS. However, earlier data from the 2021 High School Youth Risk Behavior Survey (YRBS) showed that for Al/AN high school students both cigarette (6.7%) and cigar (6.0%) smoking rates were also among the highest compared to their peers.⁹

Tobacco Use Health Consequences Among American Indian/Alaska Natives

Cancer is the third leading cause of death among Al/ANs.¹⁰ Each year, over 3,800 Al/ANs are diagnosed with a tobacco-related cancer and over 1,800 die from a tobacco-related cancer.¹¹

Lung cancer is the second leading cause of cancer incidence and the leading cause of cancer death.¹²

- From 2001-2009, the vast majority of lung cancer deaths (88 percent for men, 84 percent for women) were attributable to smoking among Al/AN over age 35 living in 637 Indian Health Service Contract Health Service Delivery Area (IHS CHSDA) counties.¹³
- Overall, the 5-year relative survival rate for lung cancer is lower among Al/ANs compared to Whites (19% versus 22%).¹⁴ Al/ANs are 14% more likely to die from lung cancer than Whites.¹⁵
- However, lung cancer rates among Al/ANs vary greatly by tribal region. The Northern Plains region, which has some of the highest smoking prevalence among Al/ANs, has the highest rate of lung cancer incidence, followed by the Southern Plains and Alaska regions. ¹⁶ From 2014-2018, rates of lung cancer incidence among Al/ANs in the Northern and Southern Plains, Alaska, and the Pacific Coast regions were significantly higher than rates for their White counterparts. ¹⁷
- Unlike for other racial/ethnic subgroups, whose declines in overall smoking prevalence have led
 to a narrowing of disparities in lung cancer rates, lung cancer incidence among AI/AN men have
 only recently begun to decline, and lung cancer incidence among AI/AN women have remained
 relatively stable since the 1990s.¹⁸

The 2007 annual report on the status of cancer in the U.S. found that there is wide variation in Al/AN cancer surveillance, and that regional and tribe-specific data is needed to fully understand the disease burden among Indian tribes. Regional and tribal variations in cancer rates likely reflect geographic and tribal variations in risk factors and access to screening. For example, among Al/ANs, regional lung cancer rates mirrored regional smoking prevalence rates.¹⁹

In 2018, Al/ANs were 1.5 times more likely to be diagnosed with a coronary heart disease than their White counterparts.²⁰ Further, heart disease is a leading cause of death among Al/ANs, for which tobacco use is an important risk factor.²¹ Heart disease death rates for Al/ANs show geographic disparities, with the highest rates occurring primarily in Northern Plains states, including North and South Dakota, as well as Wisconsin and Michigan.²² The CDC estimates that racial/ethnic disparities for smoking-attributable mortality are most pronounced for cardiovascular disease. From 2001-2009, smoking-attributable mortality for ischemic heart disease, other heart disease and stroke for Al/AN women over age 35 was double that of White women, among those living in 637 HIS CHSDA counties.²³

Tobacco Industry Targeting of American Indian/Alaska Natives

As with other minority populations, the tobacco industry strategically targets Al/ANs. The industry has provided funding to cultural events like powwows and rodeos to build credibility. Additionally, the industry promotes brands like Natural American Spirit that use the cultural image of traditional American-Indian warriors.²⁴

Helping American Indian/Alaska Natives Quit Smoking

Since federally recognized tribes are considered sovereign nations, they are exempt from state taxation of tobacco products, making cigarettes cheaper on tribal lands. Recommendations for lowering the high rate of smoking-caused cancer and heart disease include reducing tobacco use among this community by better tailoring tobacco cessation and treatment programs to the Al/AN community, increasing tobacco product prices and increasing funding for tribal tobacco control programs.²⁵

Additional Sources of Information

- National Indian Health Board, http://www.nihb.org, and its Area Health Boards
- Native CIRCLE, American Indian/Alaska Native Cancer Information Resource Center and Learning Exchange, at Mayo Clinic, http://www.mayo.edu/research/centers-programs/cancer-research/other-initiatives/native-populations.
- Indian Health Service, http://www.ihs.gov/epi/index.cfm?module=epi_tobacco_main_
- Bureau of Indian Affairs, http://www.bia.gov/
- Association of American Indian Physicians, http://www.aaip.org/

Campaign for Tobacco-Free Kids, January 26, 2024, Marela Minosa

¹ Smoking and Health: Report of the Advisory Committee to the Surgeon General of the Public Health Service, PHS publication 1103, 1964, http://www.cdc.gov/tobacco/sgr/sgr_1964/sgr64.htm. McGinnis, JM, et al., "Actual causes of death in the United States," Journal of the American Medical Association (JAMA) 270:2207-2212, 1993.

² HHS, *The Health Consequences of Smoking*—50 Years of Progress: A Report of the Surgeon General, 2014, http://www.surgeongeneral.gov/library/reports/50-years-of-progress/.; Curtin SC, et al. Deaths: Leading causes for 2020. National Vital Statistics Reports; vol 72 no 13. Hyattsville, MD: National Center for Health Statistics. 2023. DOI: https://dx.doi.org/10.15620/cdc:133059. See Table C. Deaths and percentage of total deaths for the 10 leading causes of death: United States, 2019 and 2020.

³ Cornelius ME, et al. Tobacco Product Use Among Adults — United States, 2020. MMWR Morb Mortal Wkly Rep 2022;71:397–405. DOI: http://dx.doi.org/10.15585/mmwr.mm7111a1. Current smoking is defined as persons who reported having smoked ³ 100 cigarettes during their lifetimes and, at the time of the survey, reported smoking every day or some days.

⁴ Agaku, IT, et al., "Disparities in current cigarette smoking among US adults, 2002-2016" *Tob Control, 0:1-8, Published online May* 30, 2019.

⁵ Henderson, et al., "Correlates of Cigarette Smoking Among Selected Southwest and Northern Plains Tribal Groups: The Al-SUPERPFP Study," *American Journal of Public Health (AJPH)* 95:867-872, 2005.

⁶ Redwood, D, et al. "Differences in cigarette and smokeless tobacco use among American Indian and Alaska Native people living in Alaska and the Southwest United States," *Nicotine and Tobacco Research*, 12(7): 791-796, July 2010.

⁷ CDC, "Cigarette Smoking During Pregnancy: United States, 2016." NCHS Data Brief, 305, February 2018, https://www.cdc.gov/nchs/data/databriefs/db305.pdf.

⁸ Cornelius ME, et al. Tobacco Product Use Among Adults — United States, 2020. MMWR Morb Mortal Wkly Rep 2022;71:397–405. DOI: http://dx.doi.org/10.15585/mmwr.mm7111a1.

⁹ CDC, 2021 High School Youth Risk Behavior Survey Data. Available at https://yrbs-explorer.services.cdc.gov/#/. Accessed on May 5, 2023. 3.8 percent of US high school students are current smokers. Another survey, the 2021 National Youth Tobacco Survey, using different methodology than the YRBS, found that 1.9% of US high school students smoke.

¹⁰ Curtin SC, et al. Deaths: Leading causes for 2020. National Vital Statistics Reports; vol 72 no 13. Hyattsville, MD: National Center for Health Statistics. 2023. DOI: https://dx.doi.org/10.15620/cdc:133059. See Table D. Deaths and percentage of total deaths for the 10 leading causes of death, by race and Hispanic origin: United States, 2020.

¹¹ CDC, "Vital Signs: Disparities in Tobacco-Related Cancer Incidence and Mortality—United States, 2004-2013," *Morbidity & Mortality Weekly Report*, 65(44): 1212-1218, http://www.cdc.gov/mmwr/volumes/65/wr/mm6544a3.htm.

¹³ Mowery, P.D., et al., "Disparities in Smoking-Related Mortality Among American Indian/Alaska Natives," *Am J Preve Med,* published online July 6, 2015.

⁴ American Cancer Society. Cancer Facts & Figures 2022. Atlanta: American Cancer Society; 2022.

¹⁵ American Cancer Society. Cancer Facts & Figures 2024. Atlanta: American Cancer Society; 2024. https://www.cancer.org/research/cancer-facts-statistics/all-cancer-facts-figures/2024-cancer-facts-figures.html.

¹⁶ American Cancer Society. Cancer Facts & Figures 2022. Atlanta: American Cancer Society; 2022.; HHS, *Tobacco Use Among U.S. Racial and Ethnic Minority Groups, Report of the Surgeon General*, 1998, http://www.cdc.gov/tobacco/data statistics/sgr/sgr 1998/index.htm.

¹⁷ American Cancer Society, Cancer Facts & Figures 2022, Atlanta: American Cancer Society; 2022.

¹⁸ American Cancer Society. Cancer Facts & Figures 2022. Atlanta: American Cancer Society; 2022.

¹⁹ Espey, D, et al. "Annual Report to the Nation on the Status of Cancer, 1975–2004, Featuring Cancer in American Indians and Alaska Natives," *Cancer*, 110(10):2119-52, November 2007.

²⁰ Villarroel MA, et al. Tables of Summary Health Statistics for U.S. Adults: 2018 National Health Interview Survey. National Center for Health Statistics. 2019. Available from: http://www.cdc.gov/nchs/nhis/SHS/tables.htm.

²¹ Curtin SC, et al. Deaths: Leading causes for 2020. National Vital Statistics Reports; vol 72 no 13. Hyattsville, MD: National Center for Health Statistics. 2023. DOI: https://dx.doi.org/10.15620/cdc:133059. See Table D. Deaths and percentage of total deaths for the 10 leading causes of death, by race and Hispanic origin: United States, 2020. See also, HHS, The Health Consequences of Smoking—50 Years of Progress: A Report of the Surgeon General, http://www.surgeongeneral.gov/library/reports/50-years-of-

progress/; HHS, "Tobacco Use Among U.S. Racial and Ethnic Minority Groups, Report of the Surgeon General," 1998,

http://www.cdc.gov/tobacco/data_statistics/sgr/sgr_1998/index.htm.

22 Casper, M., et al. "Atlas of Heart Disease and Stroke Among American Indians and Alaska Natives," 2005, http://www.cdc.gov/dhdsp/atlas/aian_atlas/.

http://www.cdc.gov/dhdsp/atlas/aian_atlas/.

23 Mowery, P.D., et al., "Disparities in Smoking-Related Mortality Among American Indian/Alaska Natives," *Am J Preve Med*, published online July 6, 2015.

published online July 6, 2015.

24 HHS, *The Health Consequences of Smoking—50 Years of Progress: A Report of the Surgeon General*,

http://www.surgeongeneral.gov/library/reports/50-years-of-progress/; HHS, "Tobacco Use Among U.S. Racial and Ethnic Minority

Groups, Report of the Surgeon General," 1998, http://www.cdc.gov/tobacco/data_statistics/sgr/sgr_1998/index.htm.

25 See, e.g., Espey, DK, et al., "Annual Report to the Nation on the Status of Cancer, 1975-2004, Featuring Cancer in American

²⁵ See, e.g., Espey, DK, et al., "Annual Report to the Nation on the Status of Cancer, 1975-2004, Featuring Cancer in American Indians and Alaska Natives," *Cancer* (DOI: 10.1002/cncr. 23044) Published online, October 15, 2007; Print issue date, November 15, 2007, http://www3.interscience.wiley.com/cgi-bin/fulltext/116330621/HTMLSTARTW?CRETRY=1&SRETRY=0.