



NATIONAL CANCER TRENDS FOR AAs AND NHPIS^{[1][2][3]}

National cancer trends (1990-2008) among Native Hawaiians and Pacific Islanders (NHPIS) and Asian Americans (AAs) identified persistent cancer disparities and new ethnic-specific issues. NHPIS share a similar burden in common cancers such as breast, prostate, lung, and colorectal as non-Hispanic Whites (NHW), but they face higher risks from cancers such as stomach, liver, and uterus. In addition, NHPIS have higher cancer incidence rates compared to AAs. Increasing cancer incidence rates among Samoans and Guamanians/Chamorros and differences for Native Hawaiians in Hawai'i versus the mainland are key areas of concern. Further understanding social factors such as migration, acculturation, and geography may provide insights for reducing NHPIS cancer disparities.

According to CDC, Asian Americans are the only racial group in which cancer is the leading cause of death. Among most AAs, breast cancer was the most common cancer, followed by prostate, lung, colorectal, liver, and stomach cancers. AAs continue to experience the lowest screening rates (breast, cervical, colorectal cancers) compared to all other racial groups. Disparities in cancer incidence and mortality after diagnosis are more evident among foreign-born, low income AAs and those living in ethnic enclaves. Targeted ethnic-specific community prevention and screening efforts are critical to reducing AA cancer disparities.

IMPACT OF CANCER ON AAs AND NHPIS^{[1][2][4]}

- Among NHPIS women, increase in cancer incidence was found in breast, uterine, and colorectal cancers among Samoan women.
- Among NHPIS, increase in overall cancer incidence was found among Guamanians/Chamorros.
- Samoan women experienced higher rates of stomach (4.8 times) and uterine (3.3 times) cancers compared to Non-Hispanic White women.
- Samoan men experienced higher rates of liver (3.8 times), stomach (2.8 times), and lung (1.3 times) cancers compared to Non-Hispanic White men.
- Among AAs, screening rates for breast (64.1%), cervical (75.4%), and colorectal (46.9%) cancer were the lowest compared with all other racial groups.
- Among AA women, increasing cancer incidence were found in uterine (Asian Indians, Chinese, Filipina, Japanese), colorectal (Koreans, Laotians, Vietnamese), lung (Filipinas, Koreans), thyroid (Filipinas), and breast cancer (most AAs).
- Among AA men, increasing cancer incidence were found for prostate (Asian Indians and Pakistanis, Filipinos, Koreans, Kampuchean), liver (Filipinos, Vietnamese, Kampuchean), and colorectal (Koreans) cancers.
- Southeast Asian women: Kampuchean (24.8), Laotian (23.7), and Vietnamese (20.9) women have the higher rates of liver cancer compared with Non-Hispanic White women.
- Southeast Asian men: Laotian (64.5), Vietnamese (58.5), and Kampuchean (52.7) have the higher rates of liver cancer compared with Non-Hispanic White men.

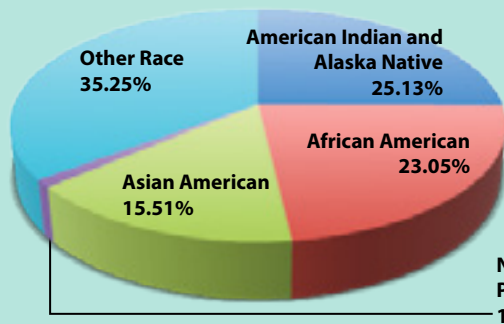
ARIZONA'S STATE POPULATION (ALONE)

Race	Population 2009-2011	Percent
White	5,098,588	79.50%
African American	261,723	4.08%
American Indian and Alaska Native	285,273	4.45%
Asian American	176,048	2.75%
Native Hawaiian and Pacific Islander	12,093	0.19%
Other race	400,133	6.24%
Two or more races	179,082	2.79%
Total	6,412,940	100.00%

Source: U.S. Census Bureau, 2009-2011 American Community Survey

- Arizona has over 6 million residents, of which 30% (1,907,341) are Hispanic or Latino. (Federal agencies only recognize five race categories: White, African American, American Indian and Alaska Native, Asian American, and Native Hawaiian and Pacific Islander. The federal government considers race and Hispanic/Latino origin to be two separate and distinct concepts.)

ARIZONA'S MINORITY POPULATION



In 2011, the greatest concentration of Asian Americans and NHPs was in the Maricopa County. 75.15% of Asians and 62.11% of Native Hawaiians and Pacific Islanders live in Maricopa County, which includes the cities of Mesa, Phoenix, and Tempe.

Source: U.S. Census Bureau, 2009-2011 American Community Survey

ARIZONA'S ASIAN AMERICAN POPULATION (ALONE)

Asian American Group	Population 2005-2007	Population 2009-2011	Percent 2009-2011	Percent Change
Asian Indian	27,821	32,258	18.32%	15.95%
Bangladeshi	840	869	0.49%	3.45%
Cambodian	1,295	1,993	1.13%	53.90%
Chinese, except Taiwanese	31,429	36,031	20.47%	14.64%
Filipino	26,749	34,720	19.72%	29.80%
Hmong	16	174	0.10%	987.50%
Indonesian	1,064	764	0.43%	-28.20%
Japanese	8,892	9,841	5.59%	10.67%
Korean	12,227	16,981	9.65%	38.88%
Laotian	2,617	1,718	0.98%	-34.35%
Malaysian	0	208	0.12%	†
Pakistani	1,156	2,328	1.32%	101.38%
Sri Lankan	454	264	0.15%	-41.85%
Taiwanese	829	1,279	0.73%	54.28%
Thai	2,965	3,837	2.18%	29.41%
Vietnamese	21,549	23,658	13.44%	9.79%
Other Asian	2,943	7,871	4.47%	167.45%
Other Asian, not specified	1,543	1,254	0.71%	-18.73%
Total	144,389	176,048	100.00%	21.93%

Source: U.S. Census Bureau 2005-2007, 2009-2011 American Community Survey

† Cannot calculate percent change because there was no Malaysian population in Arizona from 2005-2007

2.75% of Arizona's population is Asian. Chinese, except Taiwanese are the largest group, comprising of 20.47% of the Asian population. Filipino (19.72%) and Asian Indian (18.32%) are the next most prevalent groups. Malaysians are the fastest growing population of all Asian groups in Arizona with an increase from no Malaysian population to 208 Malaysians, followed by Hmong (987.50%).

ARIZONA'S NATIVE HAWAIIAN AND PACIFIC ISLANDER POPULATION (ALONE)

NHPI Group	Population 2005-2007	Population 2009-2011	Percent 2009-2011	Percent Change
Native Hawaiian	3,385	4,772	39.46%	40.97%
Samoan	1,065	1,838	15.20%	72.58%
Tongan	798	1,803	14.91%	125.94%
Guamanian or Chamorro	2,209	1,452	12.01%	-34.27%
Fijian	75	163	1.35%	117.33%
Other Pacific Islander	1,346	2,065	17.08%	53.42%
Total	8,878	12,093	100.00%	36.21%

Source: U.S. Census Bureau 2005-2007, 2009-2011 American Community Survey

The NHPI population of Arizona is 0.19% and its population is increasing at 36.21%. There are many NHPI groups that are growing. The top two are Tongan (125.94%) and Fijian (117.33%). Of the small NHPI population, Native Hawaiians are the largest, making up 39.46% of NHPIs in the state.

LANGUAGES SPOKEN

Asian Americans, Native Hawaiians and Pacific Islanders speak over 100 languages and dialects. In Arizona, 58.12% (28,762) of native Asians and 15.93% (3,164) of foreign-born Asian Americans speak English only. Of Asian Americans who speak other language(s) besides English, 15.27% (3,164) of natives and 48.25% (47,399) of foreign-born speak English not well or not at all.

Source: U.S. Census Bureau, 2009-2011 American Community Survey

INCOME

Group	Median Family Income	Per Capita Income
AA	\$75,729	\$28,935
NHPI	\$46,526	\$16,530
White	\$60,527	\$26,699
AZ	\$57,477	\$24,541

Asian Americans have the highest median family and per capita income than that of the other groups. This is due to a greater number of individuals in Asian American households. Native Hawaiian and Pacific Islanders report the lowest income and per capita income, over \$10,000 and \$8,000 under the state median.

Source: U.S. Census Bureau, 2009-2011 American Community Survey

EDUCATIONAL ATTAINMENT

Population 25 years and over	AZ	AA	NHPI
Less than high school diploma	32.80%	13.45%	11.18%
High school graduate (includes equivalency)	26.40%	15.14%	37.93%
Some college or associate's degree	24.90%	21.44%	37.00%
Bachelor's degree or higher	19.00%	49.97%	13.90%

Almost half of Asian Americans have a Bachelor's degree or higher compared to the state average. The majority of Native Hawaiians and Pacific Islanders are high school graduates (37.93%) and only 13.90% hold a bachelor's degree or higher.

Source: U.S. Census Bureau, 2009-2011 American Community Survey

HEALTH INSURANCE COVERAGE

Groups	Number of Individuals Uninsured	Percentage
AA	23,800	13.63%
NHPI	2,305	21.18%
White	780,475	15.53%
AZ	1,059,460	16.83%

From 2009-2011, 13.63% of Asian Americans and 21.18% of Native Hawaiian and Pacific Islanders in Arizona were uninsured. The uninsured rate for all state residents was 16.83%. Asian Americans and Native Hawaiian and Pacific Islanders make up 2.94% of Arizona's total population and 2.47% of the total uninsured population.

Source: U.S. Census Bureau, 2009-2011 American Community Survey

TOP 5 CANCER SITES: 2005-2009, MALE AND FEMALE, ARIZONA⁵

NOS = not otherwise specified, IBD = intrahepatic bile duct

Incidence (Rates Per 100,000)

Rank	All Races	White	AA and NHPI
1	Prostate 118.1	Prostate 112.7	Female Breast 63.6
2	Female Breast 106.7	Female Breast 108.1	Prostate 57.5
3	Lung & Bronchus 54.6	Lung & Bronchus 55.9	Lung & Bronchus 29.9
4	Colon & Rectum 36.5	Colon & Rectum 36.3	Colon & Rectum 26.8
5	Corpus & Uterus, NOS 19.3	Urinary Bladder 19.3	Corpus & Uterus, NOS 15.2

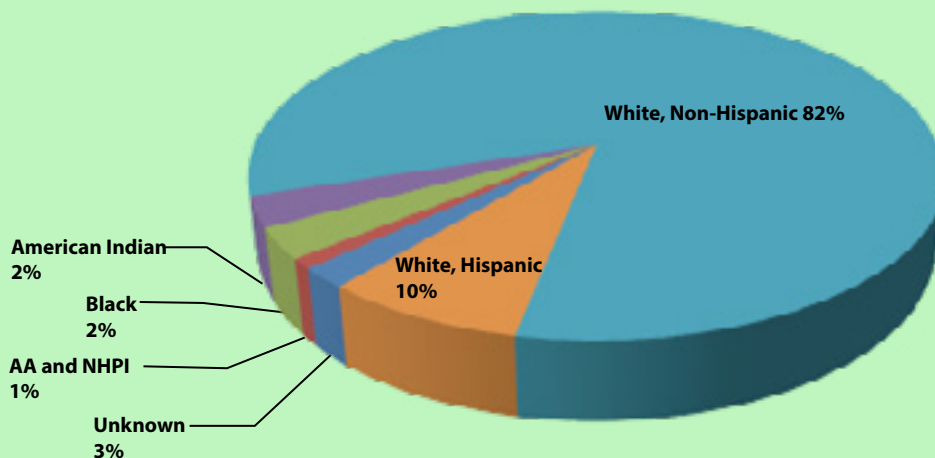
Mortality (Rates Per 100,000)

Rank	All Races	White	AA and NHPI
1	Lung & Bronchus 40.8	Lung & Bronchus 42.1	Lung & Bronchus 20.7
2	Female Breast 20.5	Female Breast 20.8	Prostate 10.7
3	Prostate 19.7	Prostate 19.7	Colon & Rectum 8.5
4	Colon & Rectum 14.0	Colon & Rectum 14.2	Female Breast 7.4
5	Pancreas 9.3	Pancreas 9.4	Liver & Intrahepatic Bile Duct 6.9

Source: U.S. Cancer Statistics: Working Group. U.S. Cancer Statistics 2005-2009 Incidence and Mortality Web-based Report.

The same cancers that are prevalent in whites also affect AAs and NHPIs, with the exception of urinary bladder. Mortality is also attributed to the same cancer sites: lung and bronchus, female breast, prostate, and pancreas.

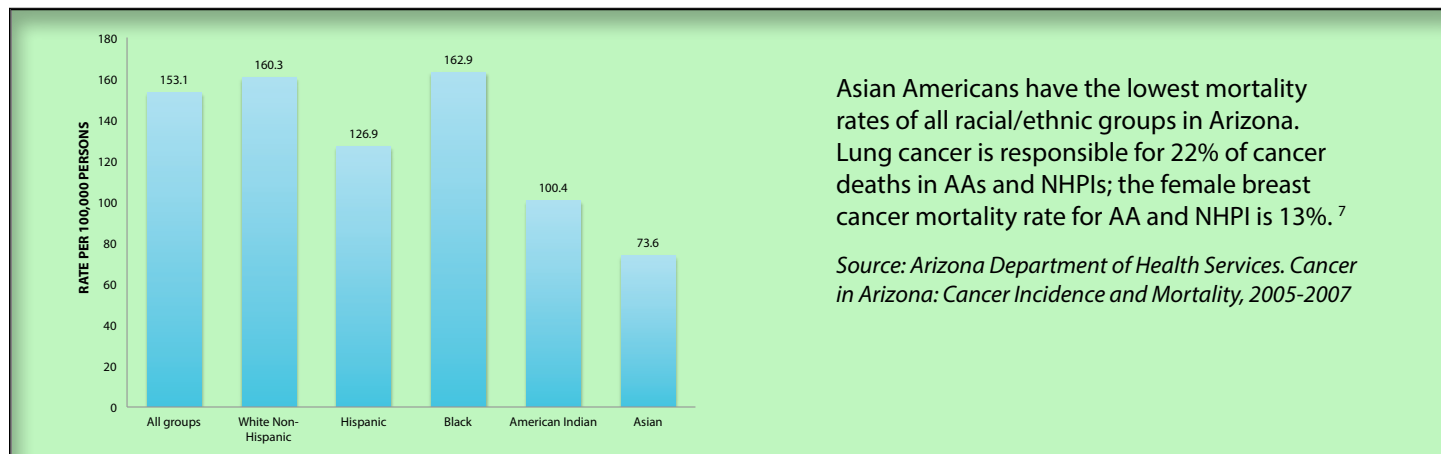
CANCER CASES BY RACE/ETHNICITY IN ARIZONA, ANNUAL AVERAGE COUNT, 2005-2007⁶



Only 1% of cancer cases in Arizona are AA and NHPI. Non-Hispanic whites by far have the greatest incidence of cancer. About 20% of cancer cases in AA and NHPI males are of the prostate and 11% are of the lung, while 33% of the AA and NHPI females diagnosed with cancer have breast cancer.⁶

Source: Arizona Department of Health Services. Cancer in Arizona: Cancer Incidence and Mortality, 2005-2007

AVERAGE ANNUAL AGE-ADJUSTED MORTALITY RATES OF INVASIVE CANCER CASES BY RACE/ETHNICITY, 2005-2007⁷



ACKNOWLEDGEMENTS

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CULTURAL ORGANIZATIONS

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Arizona Buddhist Temple
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Arizona International Buddhist
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Arizona Korean Association
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Website: <http://www.azkorean.org/>

Arizona Lao Association
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Arizona Refugee Community Center
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Bhaktivedanta Cultural Center
100 S. Weber Drive
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Indonesia American Association
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Website: <http://www.indonesianamericanassociation.org/>

Japanese American Community Center
5414 West Glenn Drive
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Myung Wol Zen Center (Korean)
P.O. Box 11084
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Phoenix Chinese Senior Citizen Center
734 West Elm Street
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Thai Association of Arizona
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REFERENCES

All data taken from 2009-2011 American Community Survey unless stated otherwise.

¹ Gomez, Scarlett Lin, Lihua Liu, Anne-Michelle Noone, Steve Scoppa, James T. Gibson, Daphne Lichtensztajn, Kari Fish, Lynne R. Wilkens, Marc T. Goodman, Cyllene Morris, Sandy Kwong, Dennis Deapen, and Barry A. Miller. "Cancer Incidence Trends Among Native Hawaiians and Other Pacific Islanders in the United States, 1990-2008." *JNCI Journal of the National Cancer Institute* (2013): n. pag. 22 July 2013. Web. 1 Sept. 2013.

² Gomez, Scarlett Lin, Lihua Liu, Anne-Michelle Noone, Steve Scoppa, James T. Gibson, Daphne Lichtensztajn, Kari Fish, Lynne R. Wilkens, Marc T. Goodman, Cyllene Morris, Sandy Kwong, Dennis Deapen, and Barry A. Miller. "Cancer Incidence Trends Among Asian Americans in the United States, 1990-2008." *JNCI Journal of the National Cancer Institute* (2013): n. pag. 22 July 2013. Web. 1 Sept. 2013.

³ Heron, Melonie (2012). *Deaths: Leading Causes for 2009*. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2013. Available at: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_07.pdf

⁴ Klabunde, Carrie N., Martin Brown, Rachel Ballard-Barbash, Mary C. White, Trevor Thompson, Marcus Plescia, and Sallyann Sallyann Coleman King. "Cancer Screening — United States, 2010." *Centers for Disease Control and Prevention. Centers for Disease Control and Prevention*, 27 Jan. 2012. Web. Sept. 2013. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6103a1.htm?s_cid=mm6103a1_w

⁵ U.S. Cancer Statistics Working Group. *United States Cancer Statistics: 1999-2009 Incidence and Mortality Web-based Report*. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2013. Available at: www.cdc.gov/uscs

⁶ Arizona Department of Health Services. *Cancer in Arizona: Cancer Incidence and Mortality, 2005-2007, Figure 3*. Phoenix, AZ: Bureau of Public Health Statistics, Office of Health Registries, Arizona Cancer Registry; July 2007. Available at: <http://www.azdhs.gov/phs/phstats/acr/reports.htm>

⁷ Arizona Department of Health Services. *Cancer in Arizona: Cancer Incidence and Mortality, 2005-2007, Figure 10*. Phoenix, AZ: Bureau of Public Health Statistics, Office of Health Registries, Arizona Cancer Registry; July 2007. Available at: <http://www.azdhs.gov/phs/phstats/acr/reports.htm>