



HEART DISEASE VS. CANCER:

AN EPIDEMIOLOGIC TRANSITION IN
MORTALITY RISKS

ARIZONA RESIDENTS, 2008-2018



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HEART DISEASE VS. CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS ARIZONA RESIDENTS, 2008-2018

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HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

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PURPOSE

The purpose of our report is to provide Arizona-specific evidence of the epidemiologic transition¹ in the two leading causes of mortality, and to discuss both, the reasons for this transition, as well as the implications. The theory of epidemiologic transition identifies mortality as a fundamental force in population change. During the earlier stage of the transition, infectious diseases in general, including tuberculosis started to decline. In 1900², the top three causes of death in the United States consisted of *pneumonia & influenza* (202.2 deaths per 100,000 persons), *tuberculosis* (194.4/100,000), and *diarrhea, enteritis, ulceration of the intestines* (142.7/100,000). *Diseases of the heart* ranked four (137.4/100,000), and *cancer* was the 8th leading cause of death (64.0/100,000).

Both diseases of the heart and malignant neoplasms (cancer) belong to, what Omran classifies as, the degenerative diseases replacing infectious diseases in Western countries throughout the 20th century. For over 100 years mortality from diseases of the heart exceeded the mortality from cancer, as measured by the age adjusted mortality rate. However, cancer surpassed heart disease to become the leading cause of death in 2009-2010 and then 2012-2015. In 2016, 2017, and 2018, the risk of death from heart disease exceeded mortality risk from cancer.

METHODS AND SOURCES

Three data sources are utilized in this publication: the death certificate database, the hospital discharge database, and the population denominator databases. The death certificate database contains demographic characteristics of the deceased (age, gender, race/ethnicity, marital status, educational attainment), and cause of death. For the purpose of mortality statistics, every death is attributed to one underlying (i.e. primary) cause of death. The underlying cause is defined as the disease or injury that initiated the chain of events leading directly to death. It is selected from up to 20 causes and conditions entered by the physician on the death certificate. The totality of all these conditions is known as multiple cause of death. Since 2000, the causes of death are classified by the Tenth Revision of the International Classification of Diseases (ICD-10), replacing the Ninth Revision used during 1979-1999.

¹Abdel R. Omran: **The Epidemiologic Transition Theory: A Preliminary Update.** *Journal of Tropical Pediatrics*, vol. 29, December 1983.

²**Vital Statistics Rates in the United States 1900-1940.** United States Government Printing Office, Washington: 1943

The deaths due to malignant neoplasms (cancer) are classified by the ICD-10- category codes C00-C97. In ICD-9, the corresponding category codes are 140-208. Mortality from the diseases of the heart is classified by the ICD-10 category codes I00-I09, I11, I13, and I20-I51. The ICD-9 category codes defining the diseases of the heart are as follows 390-398, 402, 404, 410-429.

The descriptive subcategories comprising the **diseases of the heart** include acute rheumatic fever and chronic rheumatic heart diseases, hypertensive heart disease, hypertensive heart and renal disease, ischemic heart diseases (acute myocardial infarction, other acute ischemic heart diseases, other forms of chronic ischemic heart disease, atherosclerotic cardiovascular disease so described, all other forms of chronic ischemic heart disease), other heart diseases (acute and subacute endocarditis, diseases of pericardium and acute myocarditis, heart failure, and all other forms of heart disease).

The descriptive categories comprising **malignant neoplasms (cancer)** include malignant neoplasms of lip, oral cavity and pharynx, malignant neoplasm of esophagus, malignant neoplasm of stomach, malignant neoplasm of colon, rectum and anus, malignant neoplasms of liver and intrahepatic bile ducts, malignant neoplasm of pancreas, malignant neoplasm of larynx, malignant neoplasm of trachea, bronchus and lung, malignant neoplasm of skin, malignant neoplasm of breast, malignant neoplasm of cervix uteri, malignant neoplasm of corpus uteri and uterus, part unspecified, malignant neoplasm of ovary, malignant neoplasm of prostate, malignant neoplasm of kidney and renal pelvis, malignant neoplasm of bladder, malignant neoplasm of meninges, brain and other parts of the nervous system, malignant neoplasm of lymphoid, hematopoietic and related tissue (Hodgkin's disease, Non-Hodgkin's lymphoma, leukemia, multiple myeloma and immunoproliferative neoplasms, other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue), and all other and unspecified malignant neoplasms.

Several data tables (Table 2B-6, Table 2C-27, Table 2C-28, Table 5E-11, and Table 5E-12) in the annually updated Arizona Health Status and Vital Statistics report (<http://pub.azdhs.gov/health-stats/report/ahs/index.php>) provides the frequency counts of deaths and mortality rates for each of the above detailed subcategories.

Race/ethnic designations used in this report are White non-Hispanic, Hispanic or Latino (who are either White or identify themselves with "other race group", i.e., other than Asian, Black, or American Indian), Black or African American, American Indian or Alaska Native (including Aleut and Eskimo) and Asian or Pacific Islander (including Hawaiian). Asian, Black, or American Indian Hispanics are included in their appropriate race groups. The American Indian figures include those living both on and off the reservation.

The primary focus of this publication is on the comparative mortality risks associated with the diseases of the heart and malignant neoplasms (cancer). However, we also utilize the hospital discharge database to explore the temporal changes in inpatient hospitalization patterns with the principal diagnosis of heart disease or cancer. An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been hospitalized more than once in a given calendar year will be counted multiple times as a discharge and included more than once in the hospital inpatient discharge data set; thus, the hospitalization rates we report here are for discharges, not persons.

The population denominator datasets used to compute the age-specific and age-adjusted mortality rates for Arizona residents for 2008-2018, as well as hospitalization rates for 1995-2018, are available online at (<http://pub.azdhs.gov/health-stats/menu/info/pop/index.php>).

Rate is a measure of the frequency of some event in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. Rates express the likelihood (or risk) of the event in the specified population during a particular time and are generally expressed as units of population in the denominator (per 1,000, 10,000, 100,000 and so forth). The most common, and perhaps the most valuable measure of the likelihood (or risk) of death in the specified population during a particular time is the **crude death rate**. The crude death rates for 1990-2018 shown in figure 1 were computed as the number of deaths per 100,000 population.

Because mortality from most causes of death occurs predominately among the elderly, a population group with a larger proportion of older persons would have a higher mortality rate. The **"age-adjustment"** removes the effect of the age differences among sub-population (or in the same population over time) by placing them all in a population with a standard age distribution. All age-adjusted mortality rates in this report were computed by the direct method that is by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the summary rate for all ages combined. Beginning with the 2000 data year, a new population standard for the age adjustment of mortality rates has replaced the standard based on the 1940 population and used since 1943. The new standard uses the age composition of the 2000 U.S. projected population.

For comparison with the national data, the rates of inpatient discharges (hospitalizations) are expressed per 10,000 population.

DATA ORGANIZATION

The introductory part of this publication is focused on temporal changes in mortality rates for diseases of the heart and malignant neoplasm (cancer) in 1900-2018 (Figure 1 – Figure 12). It is followed by the cause-specific mortality counts and gender-specific proportions for two age groups: Arizonans 0-84 years old and those 85 years or older (Figure 13 – Figure 17). Gender-specific differences in the median age at death and the cause-specific proportions of mortality before reaching the expected years of life are presented in Figure 18 – Figure 19. Trends in the age-specific mortality rates for diseases of the heart and cancer are shown in Figure 21 and Figure 22. The final part of the report looks at inpatient hospitalization patterns by gender and year for 2008-2018, with heart disease or cancer as the primary diagnoses.

SUMMARY OF FINDINGS

✓ The age-adjusted cancer mortality rate declined by 6.6 percent from 145.5 deaths per 100,000 population in 2008 to 135.9 per 100,000 population in 2018. The age-adjusted mortality rate for diseases of the heart decreased by 59.4 percent from 346.3 deaths per 100,000 population in 1980 to 140.5/100,000 in 2018. In Arizona, the relative risk of mortality for heart disease compared to cancer increased from 2.6 percent in 2008 to 3.4 percent in 2018.

✓ In 2008, 350 more Arizonans died from diseases of the heart than cancer. In 2018, the number of deaths from heart disease exceeded the number of cancer deaths by 313.

✓ During the 2008-2018 period, cancer was leading as the number one cause of death among Arizonans aged 0-84 years, as measured by the number of deaths. In 2008, the annual number of cancer deaths exceeded the number of deaths from heart disease by 2,076. In 2018, 2,382 more Arizonans 0-84 years old died from cancer (10,014) than heart disease (7,632).

✓ It is only among the oldest, 85 or older, that heart disease continues to be the number one cause of death, as measured by the number of deaths. In 2018, the elderly aged 85 years or older accounted for 16.8 percent of all deaths from cancer but 38.5 percent of all deaths from heart disease. In 2018, the median age at death from heart disease was 80 years (84 years among females, 77 years among males) and only a minority of deaths (52.6 percent among males; 34.6 percent among females) was premature, i.e., before reaching the expected years of life at birth for all U.S. residents (78.8 years in 2018).

✓ In contrast, there was no gender difference in the median age of cancer, both Arizona females and males who died from cancer did so at age 73.

✓ Only among Asians that the relative risk of death from cancer exceeded the mortality risk of death from heart disease in 2018.

✓ The epidemiologic transition to a mortality risk greater for cancer than heart disease occurred for a brief period and stopped in 2016. The implications of this increase are: lowering of the average age at death and increasing the age-adjusted mortality rates (because the weights assigned to mortality at younger ages are substantially greater than the weights associated with mortality of those who are 65 years old or older).

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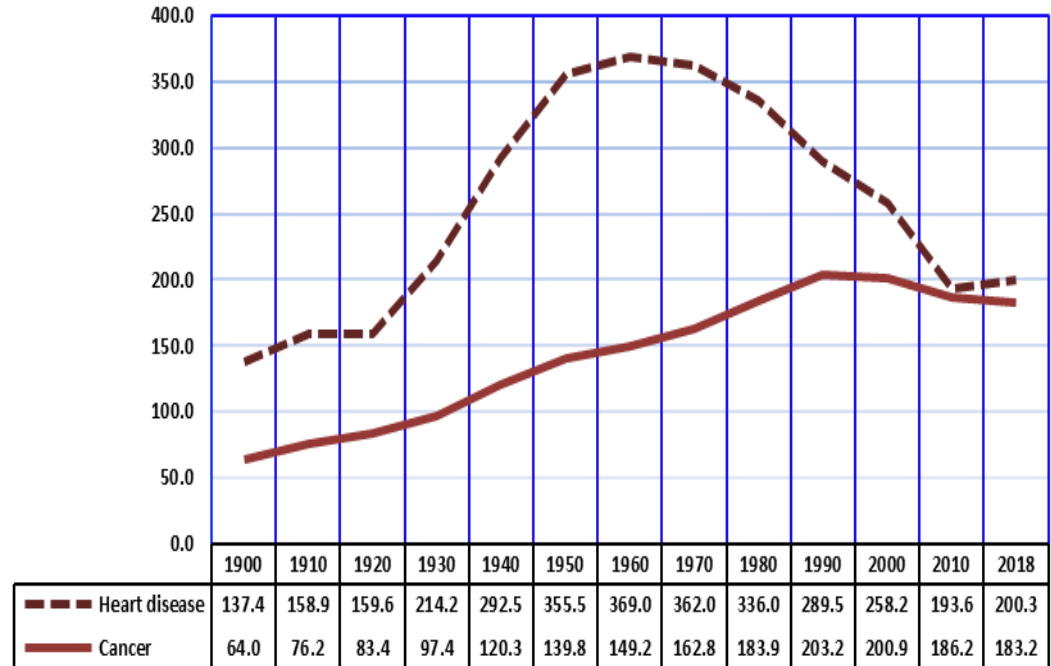
Figure 1 provides the crude death rates (the number of deaths from a specific cause per 100,000 resident population) for the entire United States. From years 1900 and every 10 years until 1970 the risk of death from diseases of the heart was over 2 times greater than the risk of death from cancer; except for 1920, where it was a 1.9 greater risk.

Unlike age-adjustment mortality rates, crude death rates are rather imperfect measures of changes in mortality risks over time, because they are affected by the changes in the age composition of the population at risk (increasing proportion of older persons is likely to raise the mortality rates).

If a comparison of crude rates is a comparison of the mortality experience of populations that may differ in age distribution, the rates in **Figure 1** also are unadjusted for the numerous changes in the definitions of heart disease and cancer as adopted by the periodic revisions of the International Classification of Diseases (ICD). Each of these revisions produces breaks in the continuity of cause-of-death statistics.

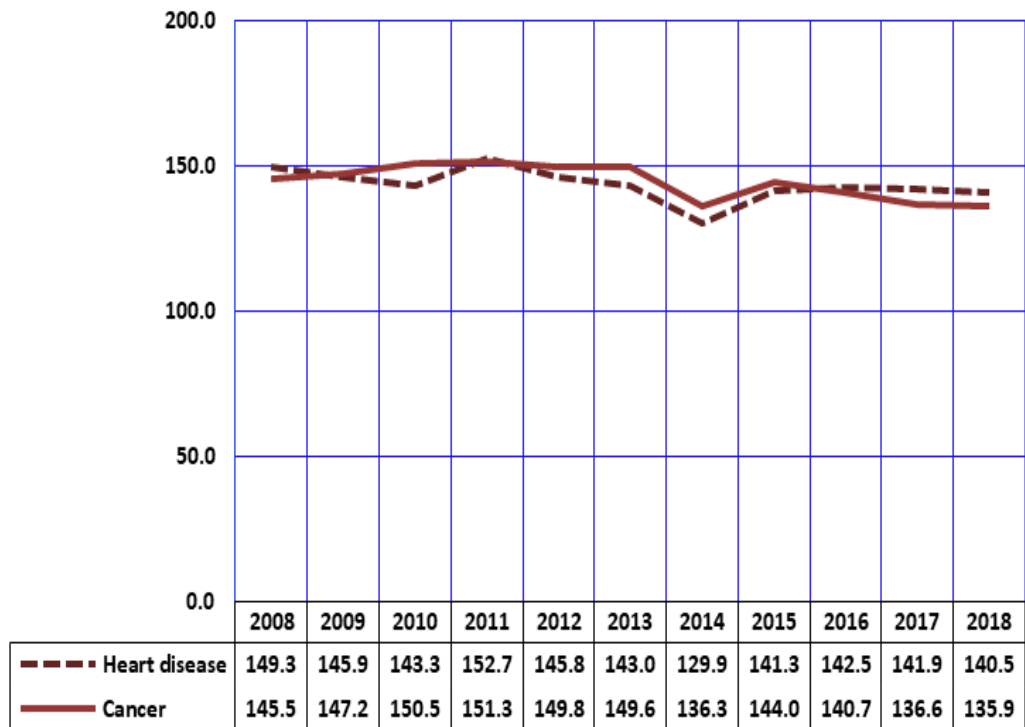
The crude mortality rate for heart disease peaked in 1960 at 369 deaths per 100,000 persons, 2.5 times greater than the cancer death rate of 149.2/100,000. In 1970 we see a decline in heart disease deaths from 362 deaths to 193 in 2010. From 2010 to 2018, the crude mortality rate for cancer has decreased by 1.6 percent, while the crude death rate for diseases of the heart has seen an increase of 3.5 percent.

FIGURE 1
CRUDE MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), UNITED STATES, 1900-2018



Sources: *Vital Statistics Rates in the United States 1900-1998*. www.cdc.gov/nchs/data/dvs/lead1900_98.pdf.
Deaths: Leading causes for 2000 https://www.cdc.gov/nchs/data/nvsr/nvsr50/nvsr50_16.pdf.
Deaths: Leading causes for 2010 https://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04.pdf.
CDC wonder: 2018 deaths <http://wonder.cdc.gov/ucd-icd10.html>

FIGURE 2
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA RESIDENTS, 2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

All mortality rates for 2008-2018 in **Figure 2 – Figure 12** are not only age-adjusted but also Arizona specific.

In 2008, the mortality rate for diseases of the heart (149.3 deaths per 100,000 population) was 2.6 percent higher than the cancer death rate of 145.5/100,000. However, in 2009, the mortality rate for diseases of the heart (145.9 deaths per 100,000 population) was 0.9 percent lower than the cancer death rate of 147.2. (**Table 1, Figure 2**).

It is important to note that in 2009, a crossover occurred, causing the cancer death rate to surpass the heart disease mortality rate for two consecutive years. In 2011, heart disease mortality rate slightly peaked, then again declined from 2012-2015, making cancer the leading cause of death for four consecutive years. However, since 2016 cancer mortality remained lower than heart disease mortality.

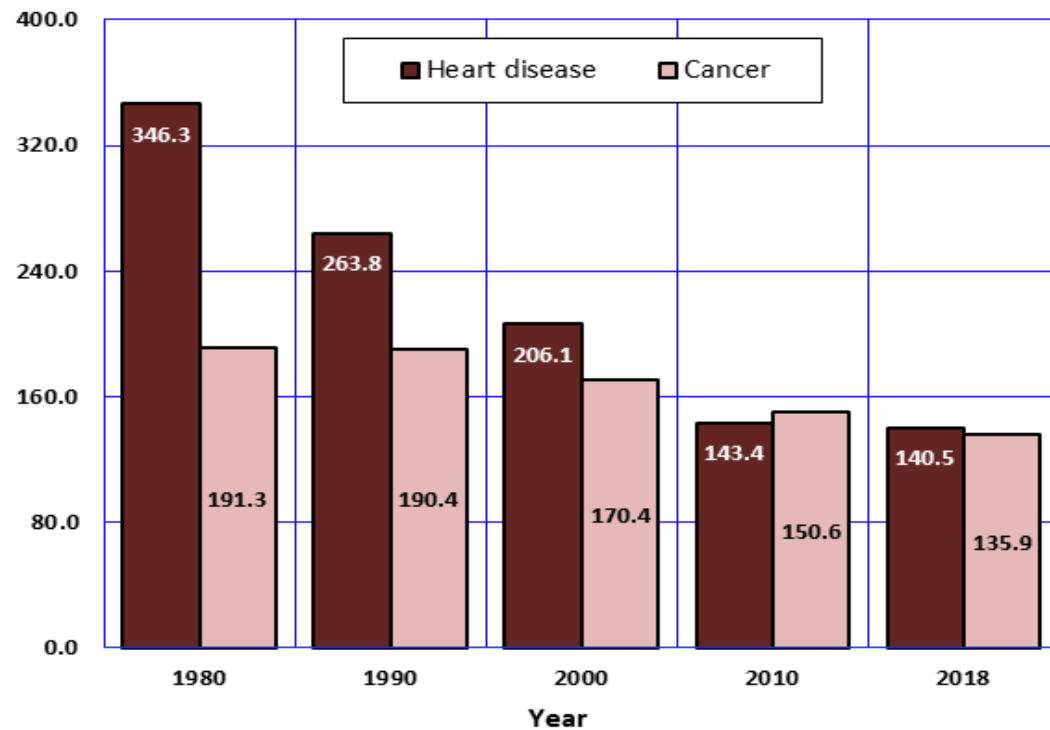
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In Arizona, the relative risk of death from the two leading causes narrowed from 81 percent greater for heart disease in 1980 to 21 percent greater in 2000. But in 2010 cancer exceeded heart disease by 4.8 percent (**Figure 3**). In 2018, heart disease surpassed cancer by 3.4 percent.

In 1980, 2,660 more Arizonans died from diseases of the heart (7,094) than cancer (4,434). In 2000, the number of deaths from heart disease (10,430) exceeded the number of cancer deaths (8,994) by 1,436 then from 2010-2015 it was cancer deaths which surpassed diseases of the heart.

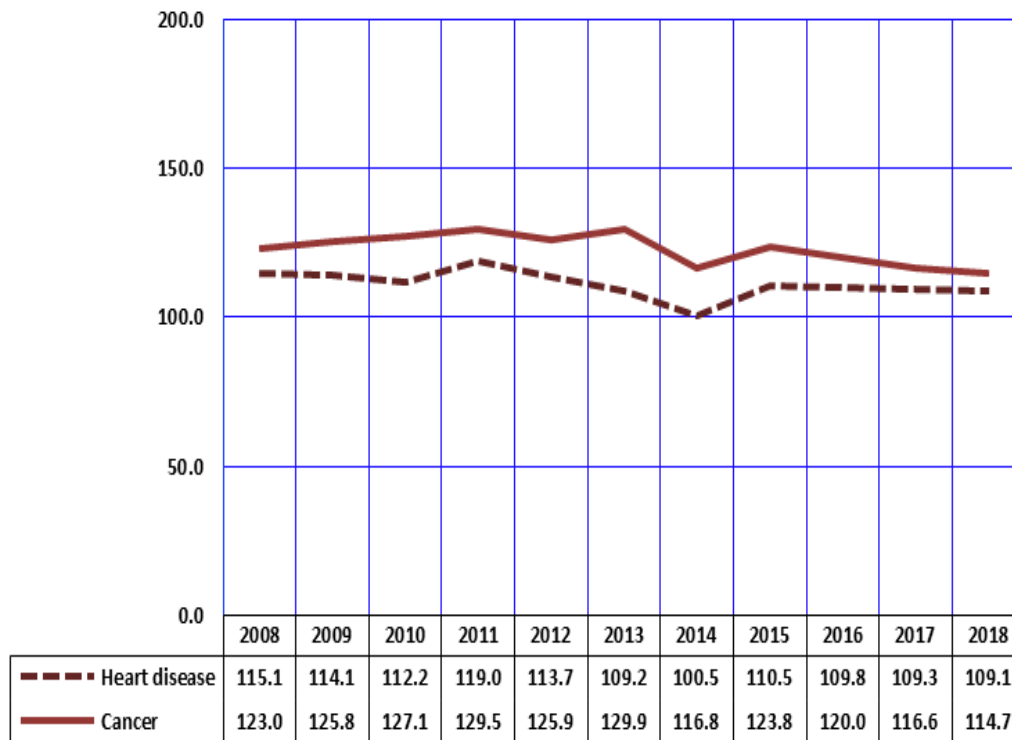
The unintended consequence of the reduction in heart disease mortality is that cancer replaced diseases of the heart as the leading cause of death in 2010 through 2015. However, in 2016, 2017, and 2018 cancer death rates were again lower than heart disease mortality rates.

FIGURE 3
COMPARISON OF AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA RESIDENTS, 1980, 1990, 2000, 2010, AND 2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

FIGURE 4
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA FEMALE RESIDENTS, 2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

In 2008, the cancer mortality rates exceeded the mortality rates for diseases of the heart among Arizona females by 6.9 percent (**Figure 4**).

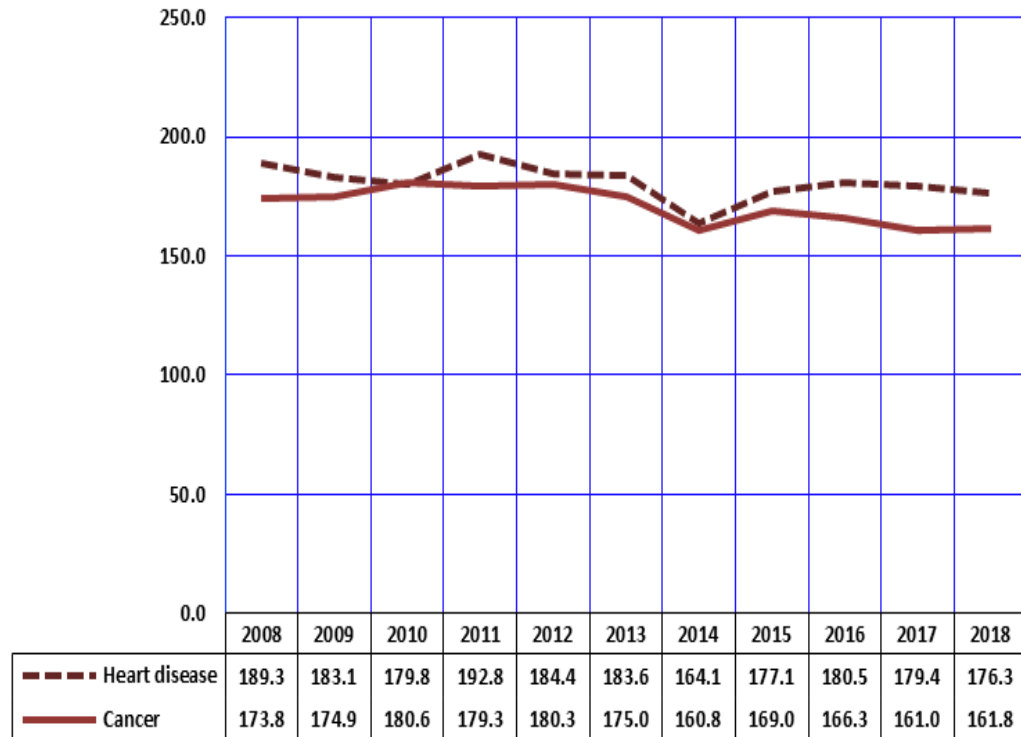
In 2018, cancer still remained the leading cause of death among Arizona females. Cancer was the number one cause of death among Arizona White non-Hispanic, Hispanic or Latino, and Asian or Pacific Islander females while diseases of the heart were the leading cause of female mortality among Black and African American and American Indian or Alaska Natives.

^a Table 2B-4 in Arizona Health Status and Vital Statistics 2018 report at:
<http://pub.azdhs.gov/health-stats/report/ahs/ahs2018/pdf/2b4.pdf>

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From 2008 to 2009, the age-adjusted mortality rates for diseases of the heart exceeded the age-adjusted mortality rates for cancer among Arizona males (**Figure 5**). However, in 2010, cancer surpassed heart disease as the leading cause of death among Arizona male residents. In 2018, only among Black or African American males was cancer the number one cause of death^a. Diseases of the heart followed by cancer were the two leading causes of death among White non-Hispanic, Hispanic or Latino, and Asian or Pacific Islander males. Among American Indian or Alaska Native males, unintentional injury followed by diseases of the heart were the two top leading causes of death in 2018.

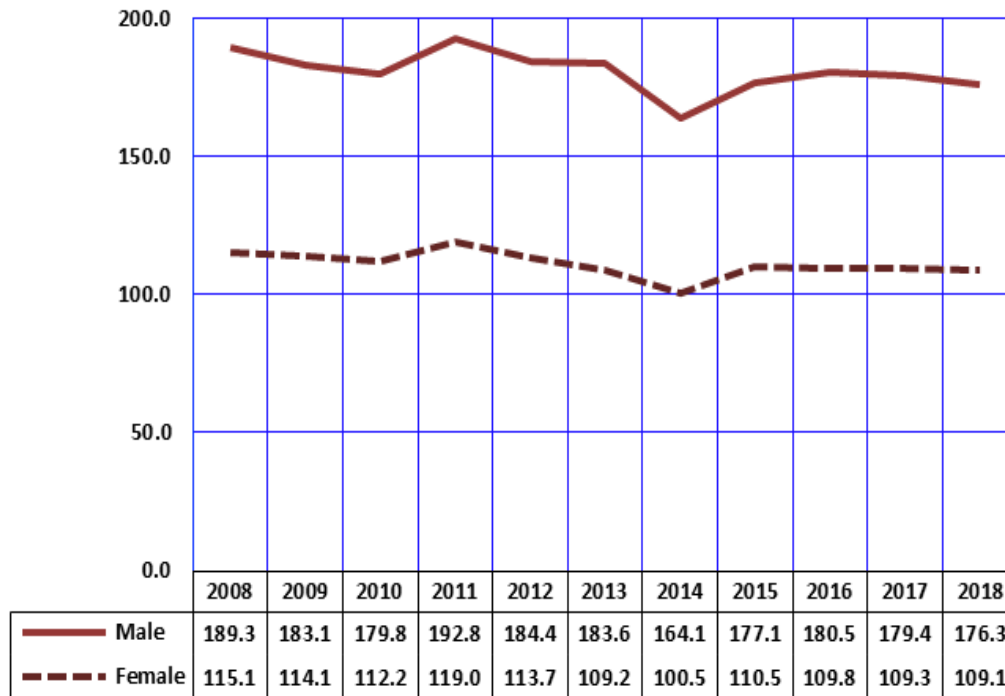
FIGURE 5
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA MALE RESIDENTS, 2008-2018



^a Table 2B-4 in Arizona Health Status and Vital Statistics 2018 report at:
<http://pub.azdhs.gov/health-stats/report/ahs/ahs2018/pdf/2b4.pdf>

Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

FIGURE 6
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART BY GENDER AND YEAR,
ARIZONA RESIDENTS, 2008-2018



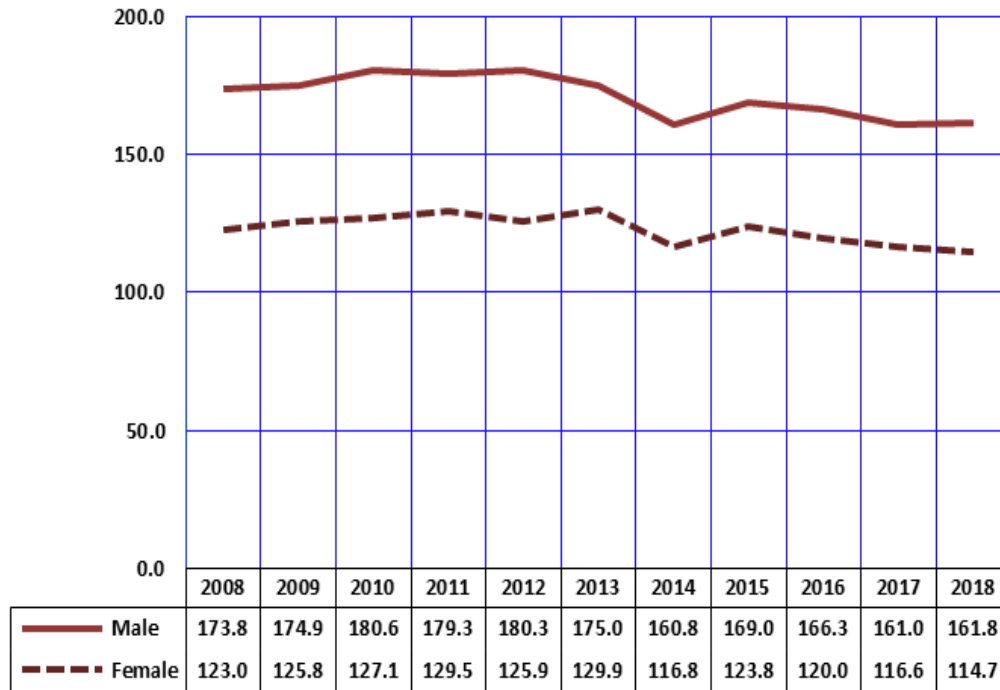
Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

In each of the 28 years from 1990 to 2018, Arizona male mortality rates for diseases of the heart were greater than the rates of their female counterparts (**Figure 6**). Both genders experienced a substantial (more than 40 percent) decline in their mortality risk since 1990; however, the male to female differential in mortality risk remained unchanged at 1.6 times greater for males than females.

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Similar to the trend of diseases of the heart, Arizona male mortality rates for cancer were greater than the rates of their female counterparts in each of the 28 years from 1990 to 2018 (**Figure 7**). From 1990 to 2008, the male mortality rate declined by 27 percent, compared to a 21 percent decline among females. The male to female differential in the cancer mortality risk changed from 1.5 times greater for males than females in 1990 to 1.4 greater in each year during 2008 - 2018, except in 2013 where the ratio was 1.3. For both genders, the mortality rate declined by 6 percent from 2008-2018.

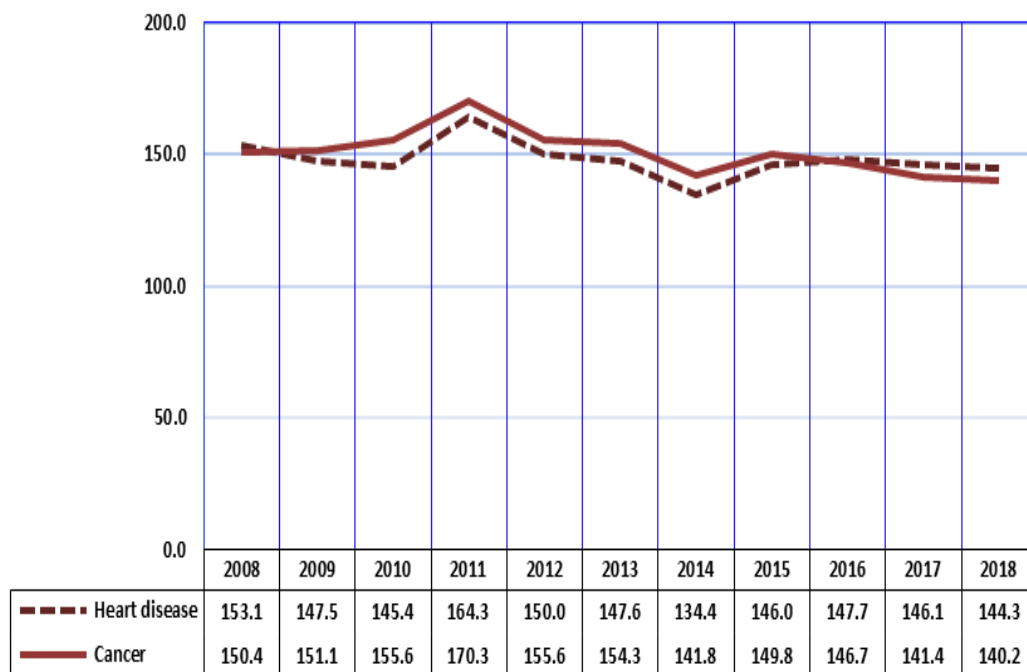
FIGURE 7
AGE-ADJUSTED^a MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER),
BY GENDER AND YEAR, ARIZONA RESIDENTS, 2008-2018



^a Table 2B-4 in Arizona Health Status and Vital Statistics
2018 report at:
<http://pub.azdhs.gov/health-stats/report/ahs/ahs2018/pdf/2b4.pdf>

Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

FIGURE 8
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA WHITE NON-HISPANIC RESIDENTS,
2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

In both 2008 and 2009, the age-adjusted mortality rates for cancer (150.4 and 151.1 respectively), among White non-Hispanic residents of Arizona exceeded by less than 1 percent the mortality rates for heart disease (153.1 and 147.5 **Table 1, Figure 8**). The same pattern was observed in 2017 as well as 2018.

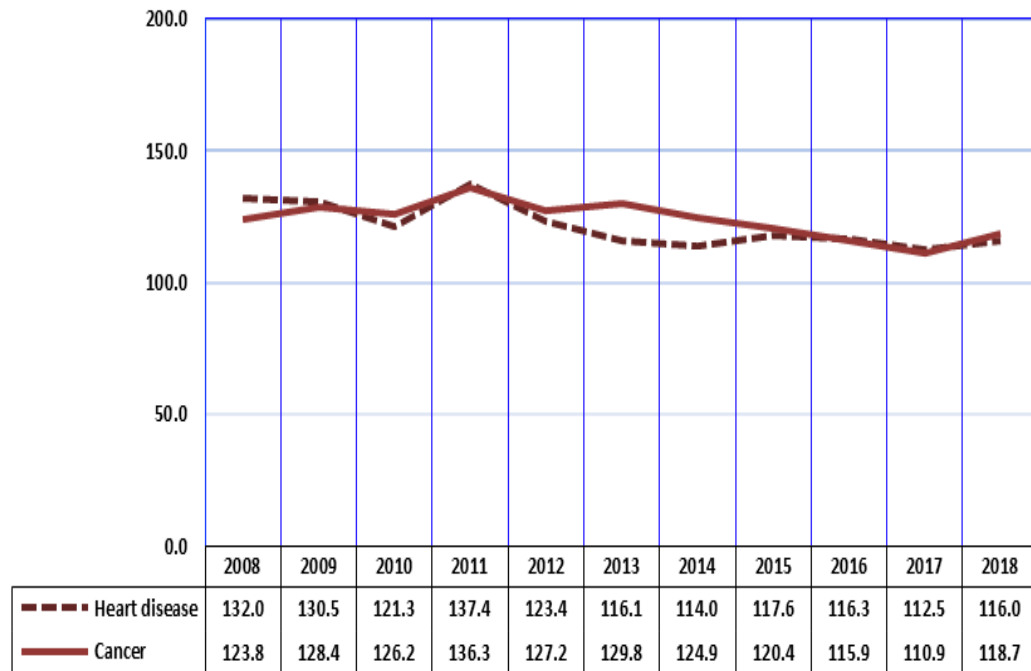
It is important to note in 2018, White non-Hispanic Arizonans 75 years or older accounted for six out of ten deaths from heart disease (67.6 percent; **Table 3**), while those younger than 75 years accounted for the absolute majority of death from cancer (51.6 percent).

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The evidence of the transition in mortality risks for diseases of the heart and cancer applies not only to White non-Hispanics, but to other racial/ethnic groups as well.

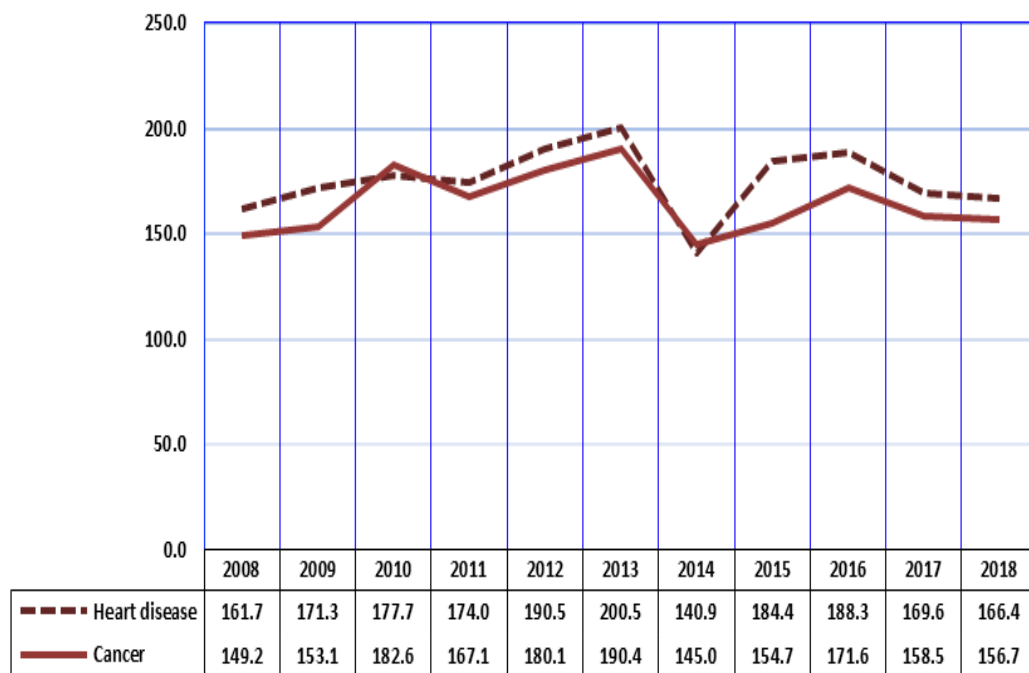
Among Hispanic or Latino residents of the State, the mortality differential between diseases of the heart and cancer slightly narrowed down from 1.1 times in 2008 to a ratio of 1 in 2018 (**Figure 9, Table 1**).

FIGURE 9
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA HISPANIC OR LATINO RESIDENTS,
2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

FIGURE 10
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA BLACK OR AFRICAN AMERICAN RESIDENTS,
2008-2018



Similarly, the temporal pattern of changes in the mortality risks for diseases of the heart and cancer among Black or African American residents was marked by some variations. Mortality due to heart disease exceeded cancer at a ratio of 1.1 in 2008 and 2018 (**Figure 10, Table 1**).

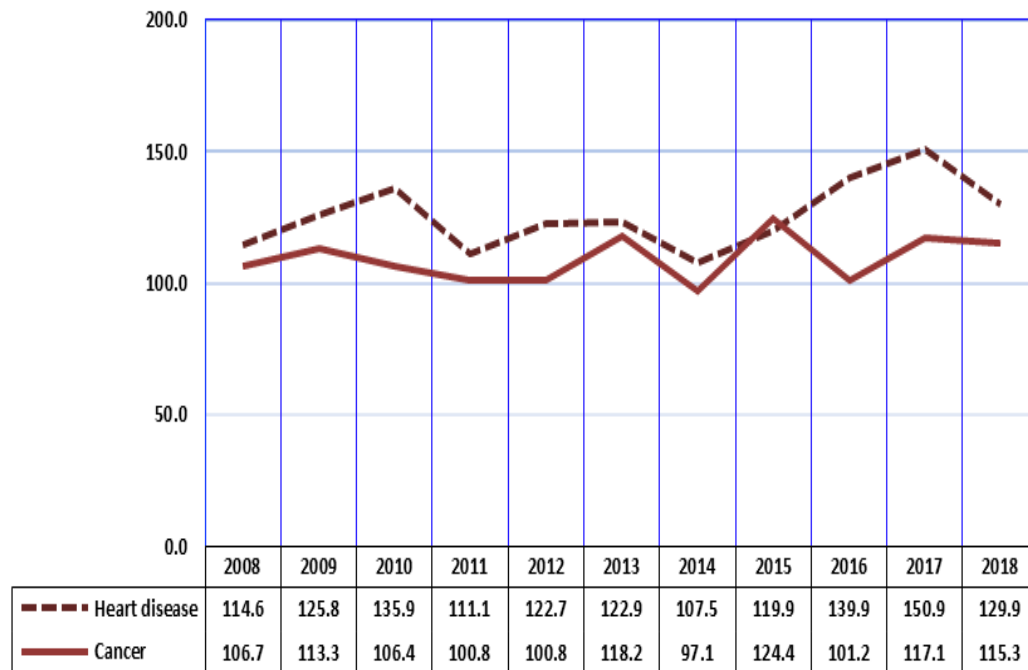
Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

The pattern of changes in the mortality risks for diseases of the heart and cancer among American Indian or Alaska Natives (**Figure 11**) is comparable to that of White non-Hispanics, Blacks or African American and Hispanic or Latinos.

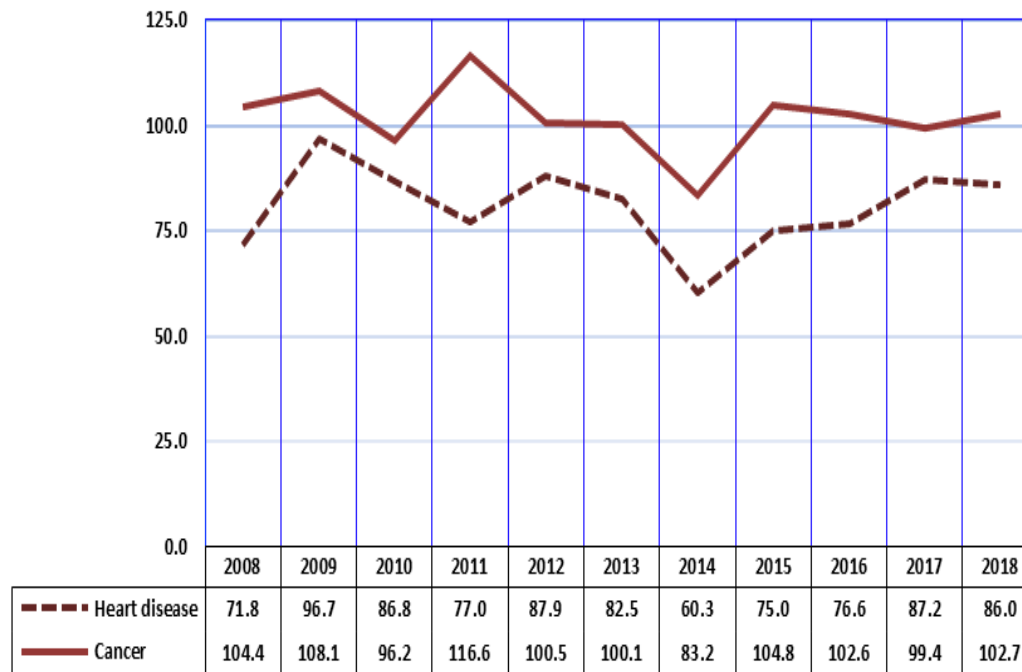
In 2008, the cancer mortality rate was 106.7/100,000, while the heart disease rate was 114.6/100,000 (**Table 1**), corresponding to a rate differential of 7.4 percent. In 2018, the rate differential between the rate of the two diseases almost doubled; mortality rate for diseases of the heart was 12.7 percent greater than the rate for cancer.

FIGURE 11
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA AMERICAN INDIAN OR ALASKA NATIVE
RESIDENTS, 2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

FIGURE 12
AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), ARIZONA ASIAN OR PACIFIC ISLANDER RESIDENTS,
2008-2018



Notes: ^a Adjusted to the 2000 U.S. standard. See Table 1.

During 2008-2018, the mortality rate for diseases of the heart and cancer followed for the most part the same tendency among Asian or Pacific Islander residents of Arizona (**Figure 12, Table 1**), the smallest racial/ethnic group in the State. The cancer mortality rate exceeded the death rate for diseases of the heart during the 11-year-period.

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

We have been discussing the temporal changes in mortality risks – or mortality rates – for diseases of the heart and cancer. Based on the age-adjusted mortality rates, we have documented that cancer has been gradually displacing heart disease as the leading cause of death from time to time, but in 2018, the risk of mortality due to heart disease surpassed cancer mortality.

Changes in the annual number of deaths for these two leading causes of mortality also provide the evidence of the transition in mortality risks. In 2008, there were 350 more deaths from diseases of the heart than cancer among Arizona residents (**Figure 13, Table 2**). In 2018, the difference in the number of deaths from heart disease and cancer was 313.

FIGURE 13
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND
MALIGNANT NEOPLASMS (CANCER), BY YEAR, ARIZONA RESIDENTS,
2008-2018

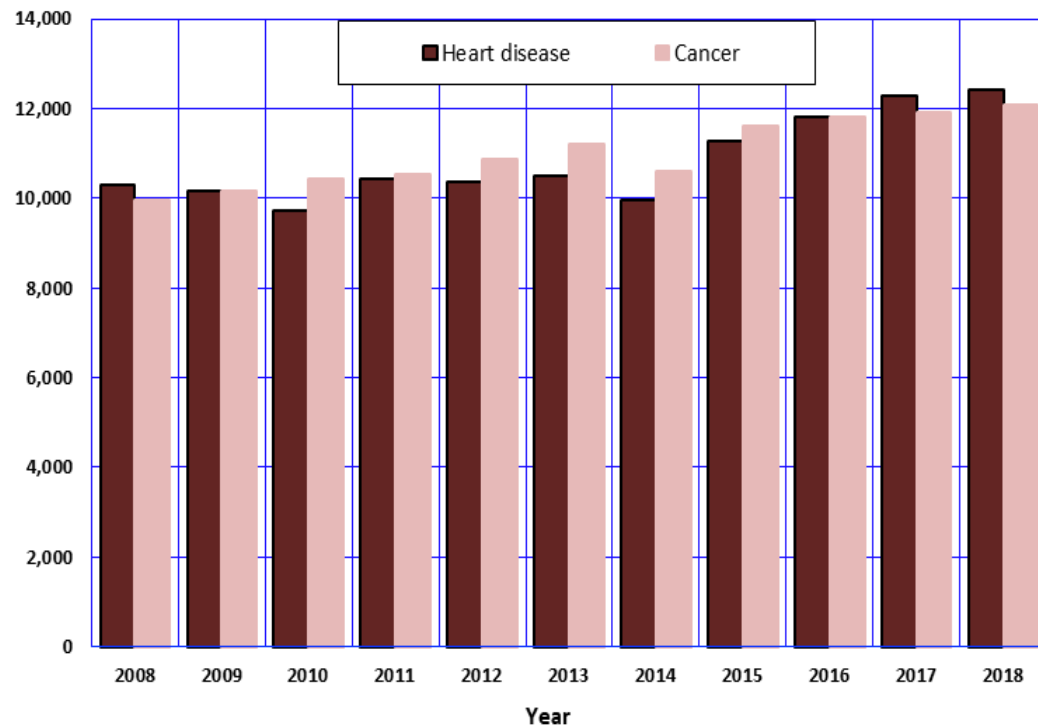
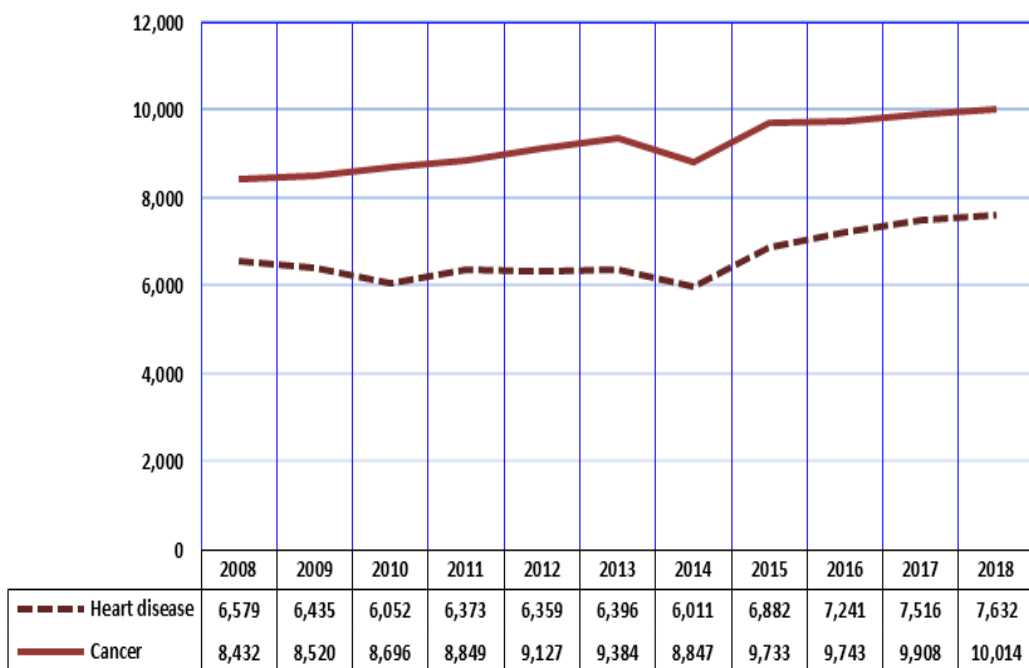


FIGURE 14
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER),
AMONG ARIZONA RESIDENTS 0-84 YEARS OLD,
2008-2018



It is not very widely known that for the past thirteen years cancer has already been the number one cause of death among Arizonans aged 0-84 years (**Figure 14, Table 4, and Table 5**). Beginning in 1996, the annual number of cancer deaths exceeded the number of deaths from heart disease. In 2018, 2,382 more Arizonans 0-84 years old died from cancer (10,014) than heart disease (7,632).

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

It is only among the oldest, 85 years or older, that heart disease continues to be the number one cause of death (**Figure 15, Table 6, Table 7**). In 2018, the elderly aged 85 years or older accounted for 16.8 percent of all deaths from cancer but 38.5 percent of all deaths from heart disease.

From 2008 to 2018, the number of deaths from cancer among Arizonans 85 years or older increased by 34.3 percent, an increase larger than the one seen for diseases of the heart (28.4 percent increase).

FIGURE 15
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER),
AMONG ARIZONA RESIDENTS 85+ YEARS OLD,
2008-2018

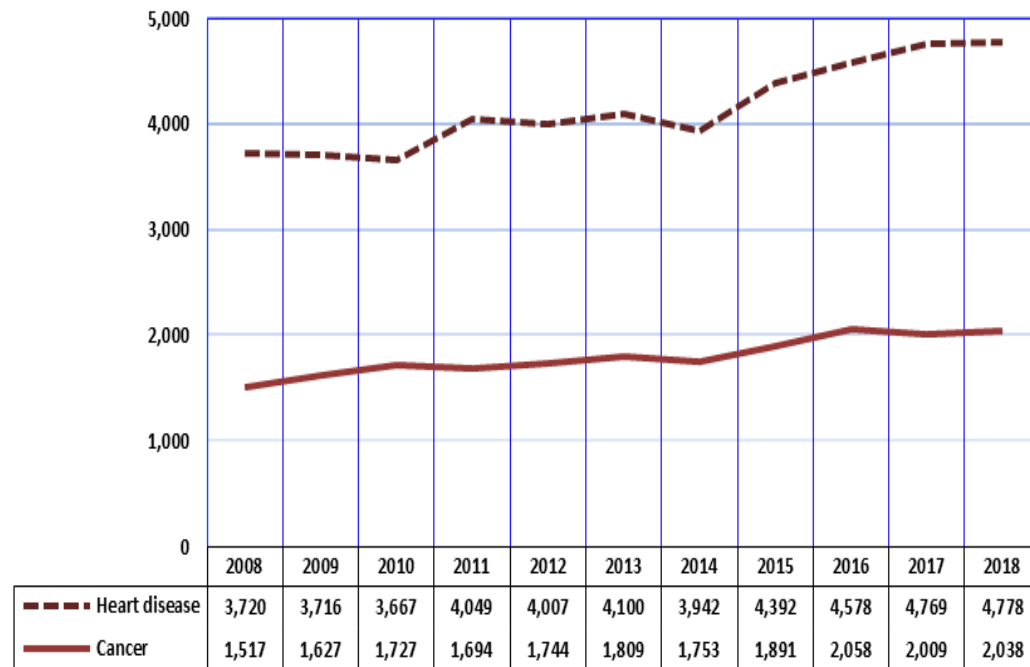
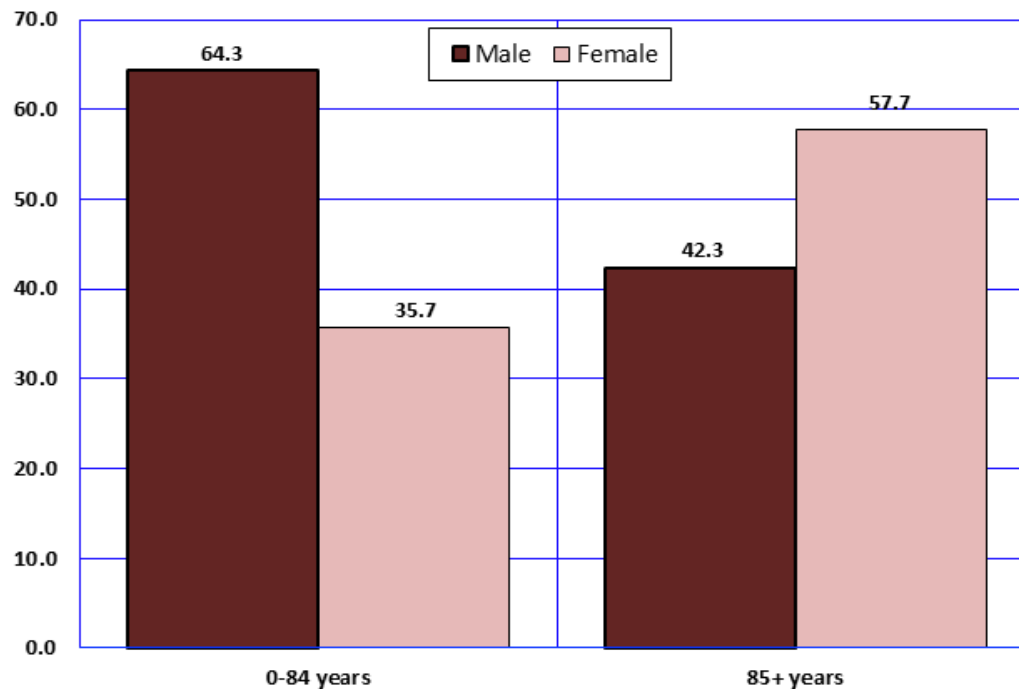


FIGURE 16
PROPORTION OF DEATHS FROM DISEASES OF THE HEART BY GENDER AMONG
ARIZONA RESIDENTS 0-84 AND 85+ YEARS OLD,
(BASED ON CUMULATIVE NUMBER OF DEATHS FOR 2008-2018)



The gender-specific pattern of mortality from diseases of the heart reveals that males accounted for the absolute majority (64.3 percent) of those who died from the disease in 2008-2018 before reaching the age of 85 years (**Figure 16, Table 8, Table 9**). The opposite is true for Arizonans aged 85 years old or older; females accounted for the majority (57.7 percent) of deaths from diseases of the heart among that age group.

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

The gender-specific pattern of mortality from cancer at ages 0-84 years and 85 years or older reveals differences, however, less pronounced as those for the diseases of the heart.

In 2008-2018 males accounted for absolute majority (54.8 percent) of those who died from cancer prior to the age of 85 years (**Figure 17, Table 8, Table 9**). Gender differences were less pronounced among Arizonans aged 85 years or older. Males (50.7 percent) were almost as likely as women (49.3 percent) to die from cancer.

FIGURE 17
PROPORTION OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY GENDER AMONG
ARIZONA RESIDENTS 0-84 AND 85+ YEARS OLD,
(BASED ON CUMULATIVE NUMBER OF DEATHS FOR 2008-2018)

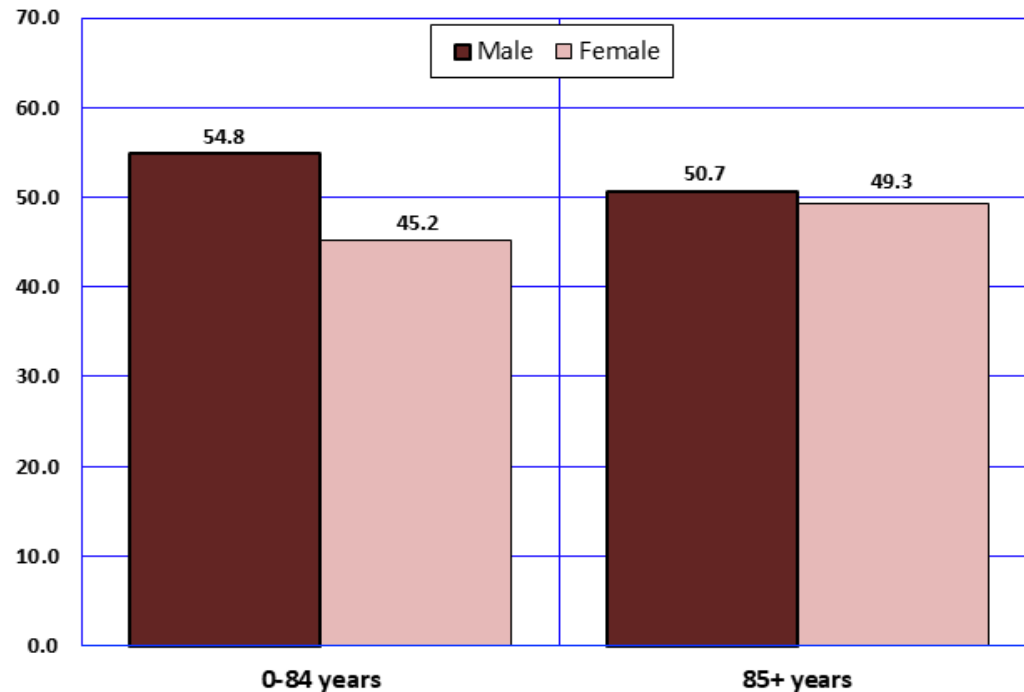
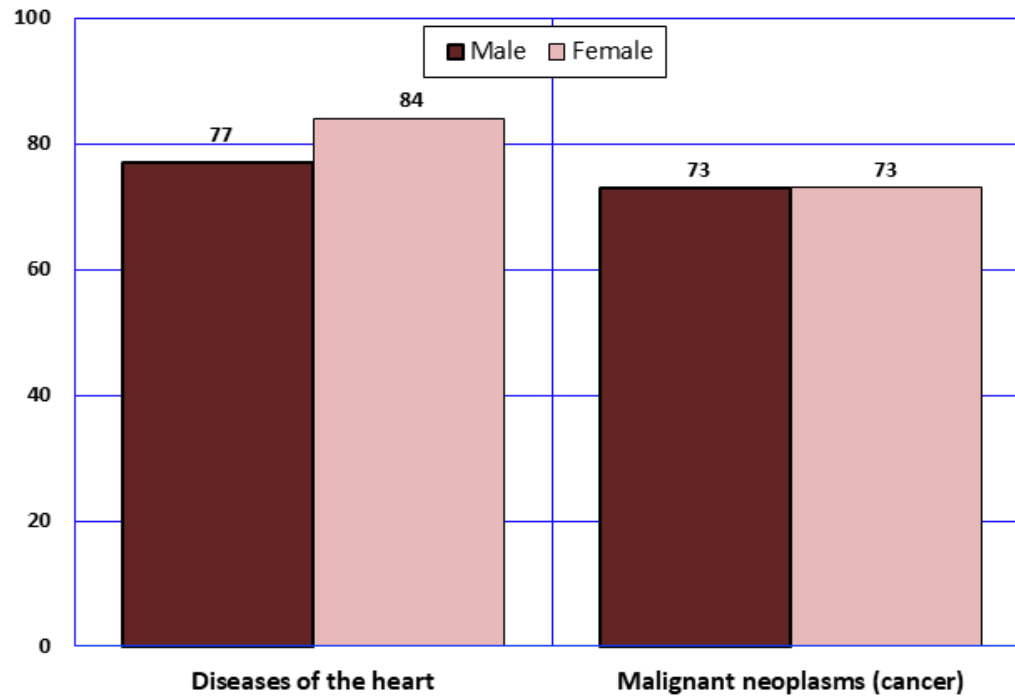


FIGURE 18
MEDIAN AGE AT DEATH FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER),
BY GENDER AMONG ARIZONA RESIDENTS, 2018



In 2018, there was no difference by gender in the median age of cancer victims^a. Fifty percent of both males and females who died from cancer that year were 73 years old (**Figure 18**). In the same year, the median age at death ranged from 70 years for victims of breast cancer, to 80 years for victims of prostate cancer.

Among those who died from diseases of the heart, the median age of females was 84 years, exceeding by seven years the median age of males (77 years).

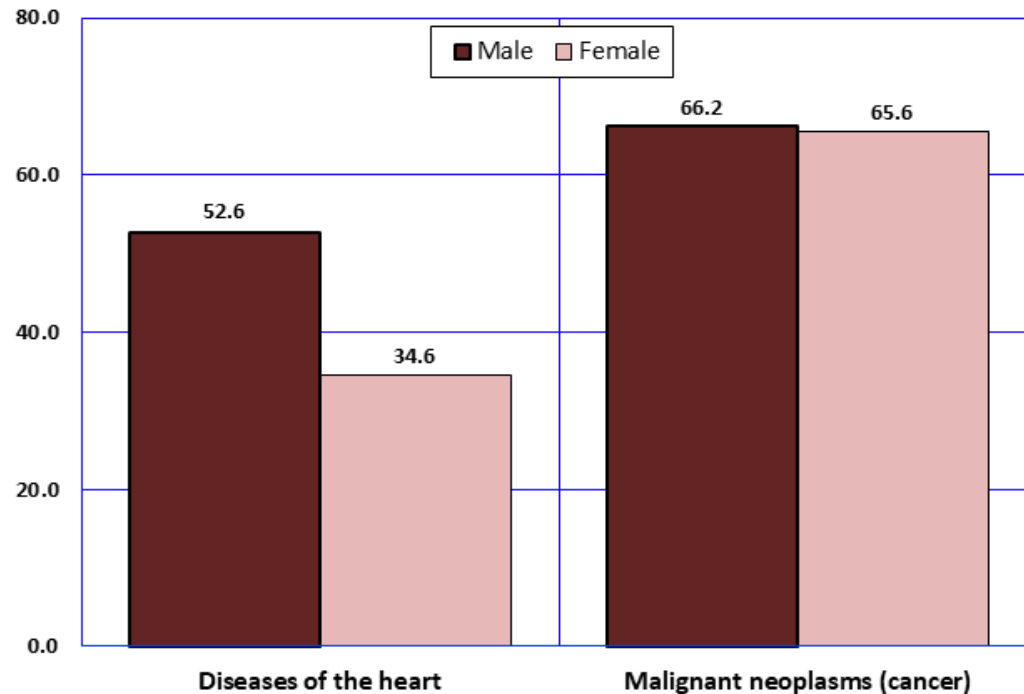
The median age at death of Arizonans who died from heart disease was noticeably greater than the median age at death from cancer. The magnitude of this difference was substantially greater for females than males.

^a Table 2D-3 in Arizona Health Status and Vital Statistics 2018 report at:
<http://pub.azdhs.gov/health-stats/report/ahs/ahs2018/pdf/2d3.pdf>

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

Among females who died in 2018 from heart disease, only 34.6 percent of deaths (Figure 19) were premature^a (i.e., occurring before the expected years of life reached for all U.S. residents), compared to 65.6 percent deaths from cancer. The majority of male deaths either from cancer (66.2 percent) or heart disease (52.6 percent) were premature.

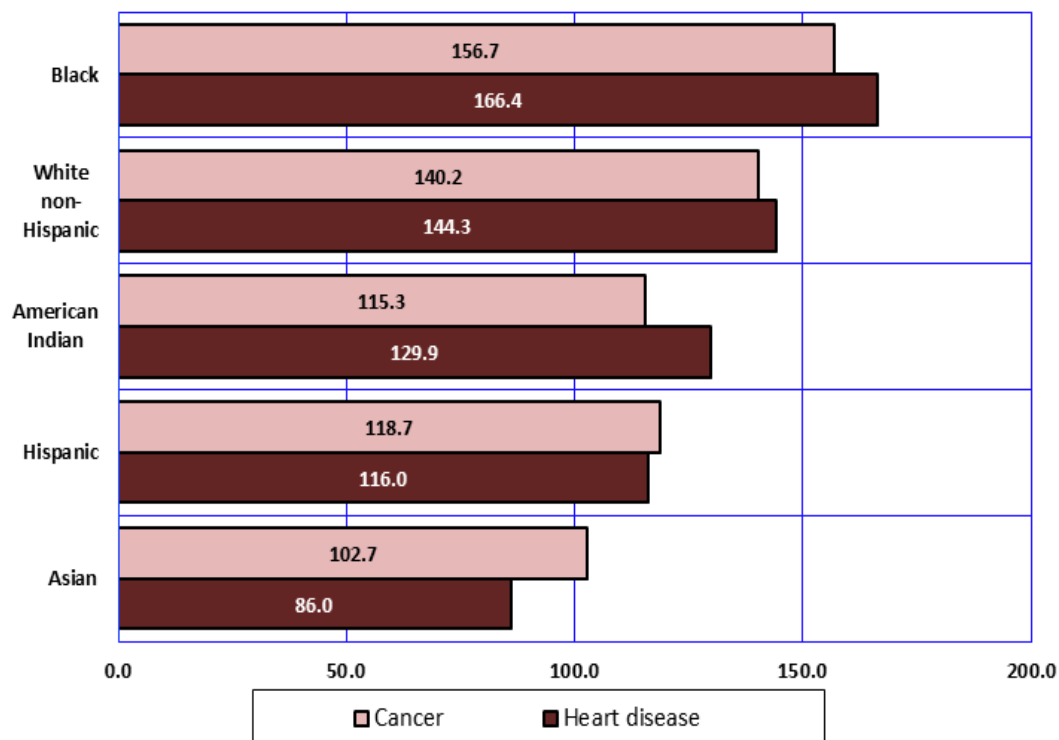
FIGURE 19
PERCENT DEATHS BEFORE EXPECTED YEARS OF LIFE REACHED FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY GENDER AMONG ARIZONA RESIDENTS, 2018



Notes: ^a Expected years of life at birth for all U.S. residents.

^a Table 2D-4 in Arizona Health Status and Vital Statistics 2018 report at: <http://pub.azdhs.gov/health-stats/report/ahs/ahs2018/pdf/2d4.pdf>

FIGURE 20
AGE-ADJUSTED MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY RACE/ETHNICITY AMONG ARIZONA RESIDENTS, 2018



In 2018, among racial/ethnic groups, Black or African Americans were 1.9 times more likely to die from diseases of the heart and 1.5 times more likely to die from malignant neoplasms than Asian or Pacific Islanders, the group with the lowest risk of both heart disease and cancer death among racial/ethnic groups (**Figure 20, Table 1**).

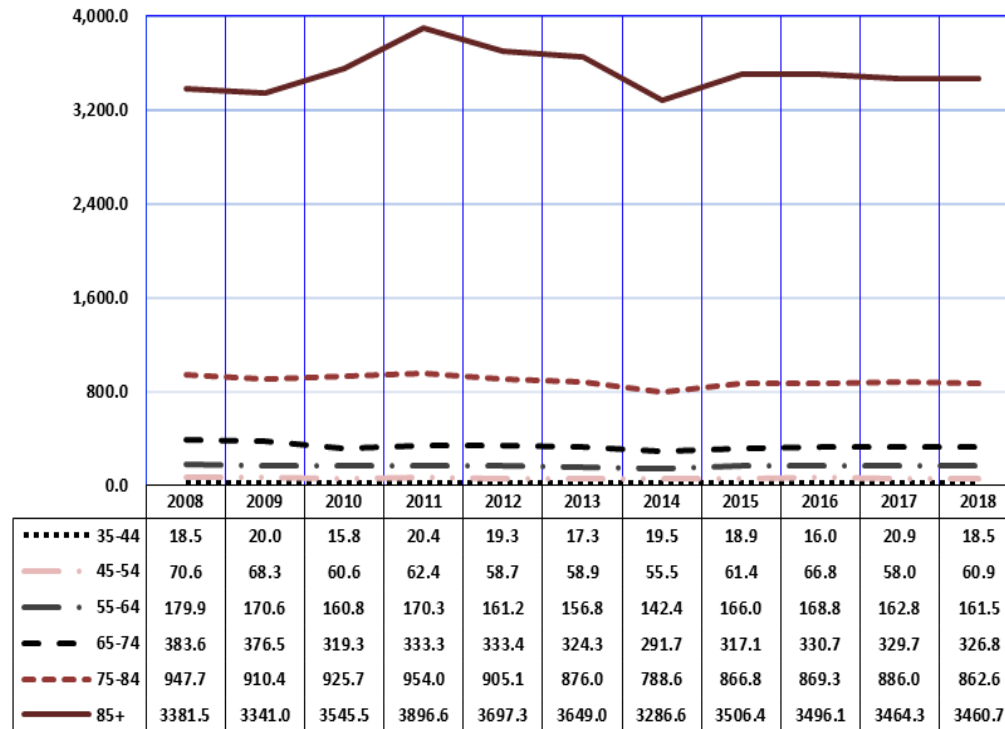
Among Asian or Pacific Islanders, the relative risk of death from cancer exceeded the mortality risk of death from heart disease in 2018.

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

The mortality rates for diseases of the heart vary widely by age groups, ranging from less than 25 deaths per 100,000 persons aged 35-44 years, to about 1,000 deaths per 100,000 persons 75-84 years old, and almost 4,000 deaths per 100,000 elderly 85 years or older, (**Figure 21**) uses a logarithmic scale to accommodate the differing magnitudes.

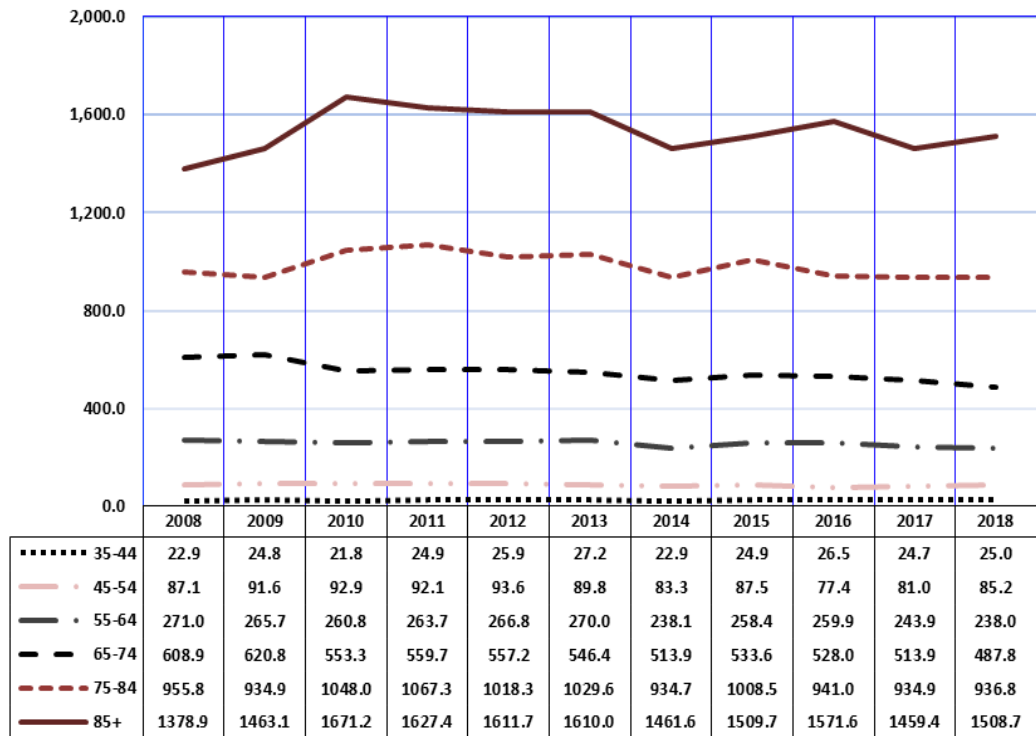
Compared to 2008, age-specific mortality rates for diseases of the heart were lower in 2018 for Arizonans aged 45-54, 55-64, 65-74, and 75-84 years (**Figure 21**, **Table 12**) except for Arizonans aged 35-44 and 85+.

FIGURE 21
TRENDS IN AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART AMONG SELECTED AGE GROUPS OF ARIZONA RESIDENTS, 2008-2018



Note: log scale.

FIGURE 22
TRENDS IN AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER)
AMONG SELECTED AGE GROUPS OF ARIZONA RESIDENTS, 2008-2018



Note: log scale.

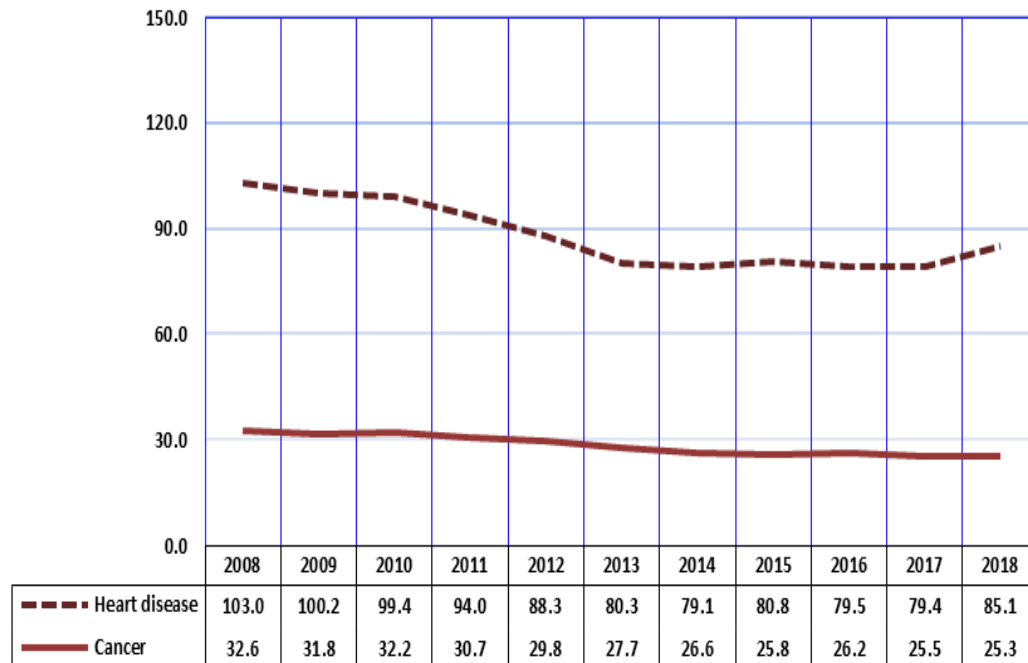
Figure 22 also uses a logarithmic scale to reflect the magnitude and changes over time in age-specific mortality rates for cancer. Compared to 2008, mortality rates for cancer have declined in 2018 during the same period for all the remaining age groups, except for age groups 35-44 and 85+ (**Table 13**). The decline was more pronounced among Arizona residents aged 65-74 (19.9 percent) and 55-64 (12.2 percent) than among those aged 45-54 (2.2 percent) and 75-84 (2.0 percent).

HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

In 2018, there were 60,185 inpatient discharges with the first-listed diagnosis of heart disease, approximately 9.3 percent of all inpatient discharges, and 2.8 times more than the number of inpatient discharges with cancer as the principal diagnosis (17,911).

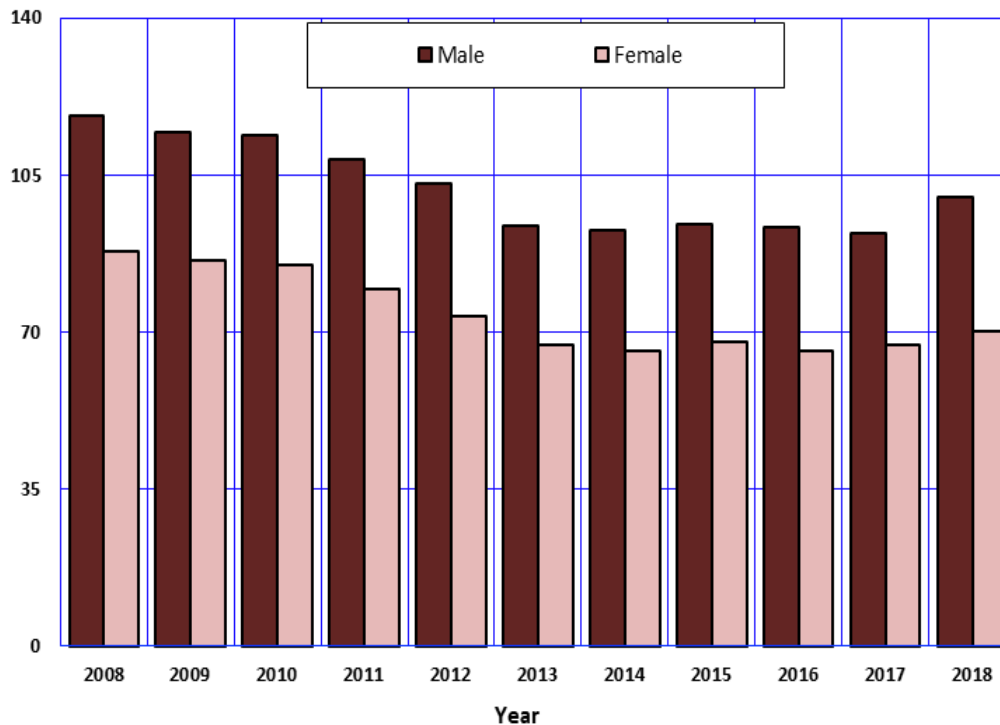
Interestingly, in spite of rather meaningful changes over time in mortality risks associated with heart disease and cancer, the inpatient hospitalization rates in Arizona have been continuously decreasing for the most part during the 2008-2018 period (**Figure 23, Table 14**). The exceptions were the inpatient discharge rate with heart disease diagnosis, which increased in 2015; the inpatient discharge rate with cancer diagnosis slightly decreased from 35.7/10,000 in 1995 to 32.6/10,000 in 2008, then witnessed a substantial decrease to 25.3 in 2018.

FIGURE 23
RATES OF INPATIENT DISCHARGES^a WITH DISEASES OF THE HEART OR MALIGNANT NEOPLASMS (CANCER) AS FIRST-LISTED DIAGNOSIS BY YEAR, ARIZONA RESIDENTS, 2008-2018



Note: ^a Number of inpatient discharges per 10,000 resident population.

FIGURE 24
RATES OF INPATIENT DISCHARGES^a WITH DISEASE OF THE HEART AS FIRST-LISTED DIAGNOSIS
BY GENDER AND YEAR, ARIZONA RESIDENTS, 2008-2018



Note: ^a Number of inpatient discharges per 10,000 resident population in specified group.

In each of the 11 years from 2008 to 2018, Arizona male inpatient discharge rates with first-listed diagnosis of heart disease were greater than the rates of their female counterparts (**Figure 24, Table 14**). Both genders experienced a decline in the hospitalization rates, more so among females (20 percent) than males (15.3 percent) during the eleven-year period.

In 2018, among the 60,185 Arizonans who were discharged with diseases of the heart as first-listed diagnosis, the most frequent procedures performed while hospitalized was therapeutic procedure such as imaging (21,861) and cardiac catheterization (16,010).

No specific procedure was recorded for 39.0 percent of the inpatient discharges with the first-listed diagnosis of heart disease.

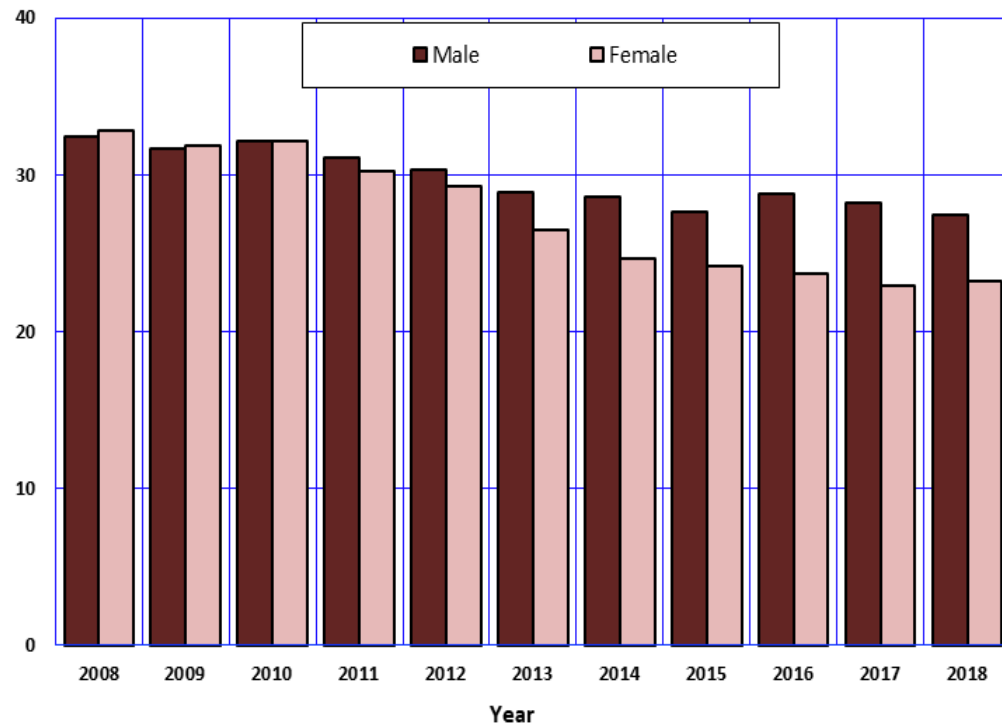
HEART DISEASE VS CANCER: AN EPIDEMIOLOGIC TRANSITION IN MORTALITY RISKS

Except 2008 and 2009, Arizona female inpatient discharge rates with first-listed diagnosis of cancer were lower than the rates of their male counterparts (**Figure 24, Table 14**). From 2008 to 2018, the female inpatient hospitalization rate witnessed an increase in the inpatient hospitalization rates, while the male hospitalization rate decreased from 32.4/10,000 to 27.4/10,000 during that time.

In 2018, among the 17,911 Arizonans who were discharged with malignant neoplasm as first-listed diagnosis, 15,690 (87.6 percent) had at least one procedure performed while hospitalized. Operation on the gastrointestinal (5,031), operation on lymphatic system (4,353), and operation on the urinary system (2,305) were the top three most frequently reported procedures.

No specific procedure was recorded for approximately 12.4 percent of the inpatient discharges with the first-listed diagnosis of cancer.

FIGURE 25
RATES OF INPATIENT DISCHARGES^a WITH MALIGNANT NEOPLASMS (CANCER) AS FIRST-LISTED DIAGNOSIS BY GENDER AND YEAR, ARIZONA RESIDENTS, 2008-2018



Note: ^a Number of inpatient discharges per 10,000 resident population.

TABLE 1
TRENDS IN AGE-ADJUSTED^a MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER)
BY RACE/ETHNICITY, GENDER, AND YEAR, ARIZONA, 2008-2018

Year	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
DISEASES OF THE HEART																		
2008	149.3	189.3	115.1	153.1	195.7	116.8	132.0	165.2	102.4	161.7	175.2	146.9	114.6	129.0	103.8	71.8	92.0	57.8
2009	145.9	183.1	114.1	147.5	186.5	114.2	130.5	159.6	105.4	171.3	176.1	160.4	125.8	156.1	100.5	96.7	118.1	80.9
2010	143.3	179.8	112.2	145.4	181.9	113.7	121.3	149.0	99.5	177.7	233.6	133.9	135.9	169.5	108.1	86.8	128.1	60.0
2011	152.7	192.8	119.0	164.3	196.2	120.4	137.4	167.1	113.2	174.0	252.9	119.3	111.1	131.1	92.7	77.0	105.3	57.3
2012	145.8	184.4	113.7	150.0	190.9	115.3	123.4	149.8	101.8	190.5	216.9	168.5	122.7	160.6	93.9	87.9	116.9	68.3
2013	143.0	183.6	109.2	147.6	190.0	111.5	116.1	144.4	93.0	200.5	269.1	144.8	122.9	159.8	97.1	82.5	98.8	70.9
2014	129.9	164.1	100.5	134.4	168.9	104.1	114.0	147.8	87.0	140.9	175.3	113.3	107.5	159.3	70.3	60.3	73.8	49.9
2015	141.3	177.1	110.5	146.0	183.7	112.9	117.6	140.7	97.5	184.4	216.8	155.9	119.9	158.9	89.1	75.0	99.0	59.6
2016	142.5	180.5	109.8	147.7	186.9	113.5	116.3	147.1	91.5	188.3	224.0	151.5	139.9	191.2	102.3	76.6	86.8	69.9
2017	141.9	179.4	109.3	146.1	183.4	112.8	112.5	144.9	86.6	169.6	210.0	134.3	150.9	217.2	103.9	87.2	105.3	76.4
2018	140.5	176.3	109.1	144.3	181.1	111.4	116.0	147.4	90.1	166.4	185.8	149.5	129.9	156.0	108.6	86.0	112.9	68.5
MALIGNANT NEOPLASMS (CANCER)																		
2008	145.5	173.8	123.0	150.4	179.7	127.0	123.8	151.9	101.5	149.2	150.1	146.3	106.7	126.4	93.2	104.4	149.4	74.0
2009	147.2	174.9	125.8	151.1	179.8	128.7	128.4	157.1	105.9	153.1	160.3	154.2	113.3	127.5	103.5	108.1	122.0	98.7
2010	150.5	180.6	127.1	155.6	185.8	131.6	126.2	148.8	110.6	182.6	231.0	144.8	106.4	137.8	86.6	96.2	130.7	74.2
2011	151.3	179.3	129.5	170.3	182.2	132.4	136.3	176.0	107.3	167.1	170.6	169.0	100.8	116.3	90.9	116.6	126.2	110.2
2012	149.8	180.3	125.9	155.6	185.9	131.5	127.2	161.8	102.4	180.1	220.1	147.1	100.8	114.5	90.4	100.5	113.1	94.6
2013	149.6	175.0	129.9	154.3	180.9	133.3	129.8	147.2	117.0	190.4	209.3	176.5	118.2	126.0	114.5	100.1	131.4	81.4
2014	136.3	160.8	116.8	141.8	166.5	121.8	124.9	153.6	103.4	145.0	154.7	140.9	97.1	124.6	77.3	83.2	82.1	83.5
2015	144.0	169.0	123.8	149.8	173.9	129.9	120.4	152.9	96.2	154.7	181.5	135.0	124.4	142.1	112.4	104.8	133.4	88.2
2016	140.7	166.3	120.0	146.7	171.3	126.5	115.9	147.3	92.3	171.6	214.4	138.9	101.2	110.7	94.6	102.6	106.6	98.4
2017	136.6	161.0	116.6	141.4	167.7	119.1	110.9	130.9	95.9	158.5	164.8	151.2	117.1	114.6	118.2	99.4	121.4	85.6
2018	135.9	161.8	114.7	140.2	165.7	118.9	118.7	144.3	99.6	156.7	193.4	131.2	115.3	149.6	92.6	102.7	112.0	96.7

Note: ^a Adjusted to the 2000 standard U.S. population.

TABLE 2
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER) BY YEAR AND
THE DIFFERENCES IN THE ANNUAL MORTALITY AMONG ARIZONA RESIDENTS, 2008-2018

Year	Diseases of the heart	Malignant neoplasms (cancer)	Differences in the number of deaths between diseases of the heart and malignant neoplasm (cancer)
2008	10,299	9,949	350
2009	10,151	10,147	4
2010	9,719	10,423	-704
2011	10,424	10,543	-119
2012	10,366	10,871	-505
2013	10,497	11,193	-696
2014	9,953	10,600	-647
2015	11,274	11,624	-350
2016	11,820	11,801	19
2017	12,285	11,917	368
2018	12,410	12,097	313

TABLE 3
AGE COMPOSITION OF MORTALITY FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER) AMONG
WHITE NON-HISPANICS, WEIGHTED AGE-SPECIFIC MORTALITY RATES AND THE DIFFERENCES
IN AGE-ADJUSTED DEATH RATES, ARIZONA, 2018

Age group	Standard weight	White non-Hispanic	Number of deaths from malignant neoplasms (cancer)	Number of deaths from diseases of the heart	Weighted age-specific rates for malignant neoplasms (cancer)	Weighted age-specific rates for diseases of the heart
<1	0.013818	34,559	*	*	**	**
1-4	0.055317	142,485	6	*	0.2	**
5-14	0.145565	379,218	10	0	0.4	0.0
15-24	0.138646	414,995	12	11	0.4	0.4
25-34	0.135573	465,976	45	34	1.3	1.0
35-44	0.162613	437,528	115	87	4.3	3.2
45-54	0.134834	502,387	451	323	12.1	8.7
55-64	0.087247	594,217	1,496	994	22.0	14.6
65-74	0.066037	558,540	2,808	1,807	33.2	21.4
75-84	0.044842	302,374	2,870	2,633	42.6	39.0
85+	0.015508	115,096	1,763	4,152	23.8	55.9
All ages	1.000000	3,947,375	9,577	10,044	140.2	144.3

Notes: * cell suppressed due to non-zero count less than 6; ** cell suppressed due to rate based on non-zero count less than 6; The sum of weighted age-specific mortality rates for all ages is the age-adjusted death rate.

TABLE 4
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AND YEAR
AMONG ARIZONANS 0-84 YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total, all groups	Total	Malignant neoplasms	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908	10,014
		Diseases of the heart	6,347	6,445	6,062	6,386	6,382	6,396	6,011	6,882	7,241	7,516	7,632
	Male	Malignant neoplasms	4,623	4,623	4,795	4,820	5,057	5,056	4,830	5,292	5,355	5,466	5,559
		Diseases of the heart	4,038	4,057	3,896	4,112	4,071	4,162	3,918	4,410	4,654	4,872	4,916
	Female	Malignant neoplasms	3,800	3,902	3,903	4,038	4,078	4,328	4,017	4,441	4,388	4,442	4,455
		Diseases of the heart	2,309	2,388	2,166	2,274	2,311	2,234	2,093	2,472	2,587	2,644	2,716
White non-Hispanics	Total	Malignant neoplasms	6,915	6,949	7,146	7,245	7,419	7,538	7,125	7,787	7,827	7,824	7,814
		Diseases of the heart	5,203	5,178	4,914	5,163	5,128	5,132	4,784	5,430	5,744	5,854	5,892
	Male	Malignant neoplasms	3,790	3,783	3,983	3,971	4,128	4,126	3,923	4,251	4,309	4,377	4,382
		Diseases of the heart	3,312	3,271	3,180	3,342	3,311	3,363	3,133	3,516	3,711	3,811	3,828
	Female	Malignant neoplasms	3,125	3,166	3,163	3,274	3,291	3,412	3,202	3,536	3,518	3,447	3,432
		Diseases of the heart	1,891	1,907	1,734	1,821	1,817	1,769	1,651	1,914	2,033	2,043	2,064
Hispanics or Latinos	Total	Malignant neoplasms	945	1,006	993	1,042	1,082	1,202	1,109	1,253	1,208	1,250	1,358
		Diseases of the heart	677	754	673	729	746	745	719	875	873	895	953
	Male	Malignant neoplasms	533	561	505	582	592	613	604	692	677	660	729
		Diseases of the heart	458	472	410	451	460	472	468	546	552	574	623
	Female	Malignant neoplasms	412	444	488	460	490	589	505	561	531	590	629
		Diseases of the heart	219	282	263	278	286	273	251	329	321	321	330
Black or African American	Total	Malignant neoplasms	246	244	270	253	305	307	283	302	345	366	344
		Diseases of the heart	211	246	230	233	252	271	246	302	316	304	302
	Male	Malignant neoplasms	131	121	156	116	179	159	135	162	197	195	188
		Diseases of the heart	125	150	145	151	144	183	148	179	208	191	168
	Female	Malignant neoplasms	115	123	114	137	126	148	148	140	148	171	156
		Diseases of the heart	86	96	85	82	108	88	98	123	108	113	134
American Indian or Alaska Native	Total	Malignant neoplasms	195	215	173	186	197	212	200	228	186	230	240
		Diseases of the heart	182	203	176	194	184	177	192	199	226	254	240
	Male	Malignant neoplasms	98	105	88	90	102	96	110	110	90	105	126
		Diseases of the heart	95	124	114	123	111	103	125	124	140	158	136
	Female	Malignant neoplasms	97	110	85	96	95	116	90	118	96	125	114
		Diseases of the heart	87	79	62	71	73	74	67	75	86	96	104
Asian or Pacific Islander	Total	Malignant neoplasms	106	112	116	132	132	125	130	163	177	169	193
		Diseases of the heart	51	64	69	67	72	71	70	76	82	107	133
	Male	Malignant neoplasms	61	53	63	61	56	62	58	77	82	81	88
		Diseases of the heart	29	40	47	45	45	41	44	45	43	56	76
	Female	Malignant neoplasms	45	59	53	71	76	63	72	86	95	88	105
		Diseases of the heart	22	24	22	22	27	30	26	31	39	51	57
Other unspecified or other unknown	Total	Malignant neoplasms	16	0	0	0	0	0	0	0	0	69	65
		Diseases of the heart	20†	0	0	0	0	0	0	0	0	102	112
	Male	Malignant neoplasms	10	0	0	0	0	0	0	0	0	48	46
		Diseases of the heart	19	0	0	0	0	0	0	0	0	82	85
	Female	Malignant neoplasms	6	0	0	0	0	0	0	0	0	21	19
		Diseases of the heart	*	0	0	0	0	0	0	0	0	20	27

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6; Totals may include records with unknown gender; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 5
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 0-84 YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
TOTAL STATE	Total	Malignant neoplasms	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908	10,014
		Diseases of the heart	6,347	6,445	6,062	6,386	6,382	6,396	6,011	6,882	7,241	7,516	7,632
	Male	Malignant neoplasms	4,623	4,623	4,795	4,820	5,057	5,056	4,830	5,292	5,355	5,466	5,559
		Diseases of the heart	4,038	4,057	3,896	4,112	4,071	4,162	3,918	4,410	4,654	4,872	4,916
	Female	Malignant neoplasms	3,800	3,902	3,903	4,038	4,078	4,328	4,017	4,441	4,388	4,442	4,455
		Diseases of the heart	2,309	2,388	2,166	2,274	2,311	2,234	2,093	2,472	2,587	2,644	2,716
APACHE	Total	Malignant neoplasms	72	70	71	72	74	81	61	71	68	80	85
		Diseases of the heart	60	64	46	63	50	61	59	72	77	96	71
	Male	Malignant neoplasms	35	43	44	37	43	38	37	36	36	41	43
		Diseases of the heart	41	48	31	39	35	37	46	38	45	55	44
	Female	Malignant neoplasms	37	27	27	35	31	43	24	35	32	39	42
		Diseases of the heart	19	16	15	24	15	24	13	34	32	41	27
COCHISE	Total	Malignant neoplasms	235	217	235	197	225	261	249	244	245	250	235
		Diseases of the heart	206	200	211	224	201	199	165	201	182	200	215
	Male	Malignant neoplasms	118	109	135	125	123	151	156	130	141	141	149
		Diseases of the heart	134	127	133	149	137	127	110	124	119	139	140
	Female	Malignant neoplasms	117	108	100	72	102	110	93	114	104	109	86
		Diseases of the heart	72	73	78	75	64	72	55	77	63	61	75
COCONINO	Total	Malignant neoplasms	116	108	111	115	115	122	101	130	139	134	161
		Diseases of the heart	100	92	72	97	100	78	80	102	108	111	85
	Male	Malignant neoplasms	68	63	59	59	67	67	48	74	66	74	76
		Diseases of the heart	56	67	43	60	66	45	58	68	74	70	50
	Female	Malignant neoplasms	48	45	52	56	48	55	53	56	73	60	85
		Diseases of the heart	44	25	29	37	34	33	22	34	34	41	35
GILA	Total	Malignant neoplasms	124	121	127	133	120	128	119	151	129	99	113
		Diseases of the heart	95	99	96	90	85	88	96	109	141	117	132
	Male	Malignant neoplasms	75	66	81	70	75	68	73	87	78	49	78
		Diseases of the heart	59	62	60	58	49	55	67	72	91	76	94
	Female	Malignant neoplasms	49	55	46	63	45	60	46	64	51	50	35
		Diseases of the heart	36	37	36	32	36	33	29	37	50	41	38
GRAHAM	Total	Malignant neoplasms	47	48	58	41	49	57	41	44	48	46	42
		Diseases of the heart	42	40	39	30	37	28	43	29	38	37	50
	Male	Malignant neoplasms	34	26	29	24	24	31	20	27	24	21	19
		Diseases of the heart	26	20	24	21	21	14	23	18	27	24	31
	Female	Malignant neoplasms	13	22	29	17	25	26	21	17	24	25	23
		Diseases of the heart	16	20	15	9	16	14	20	11	11	13	19
GREENLEE	Total	Malignant neoplasms	10†	10†	10†	10†	16	10†	10†	18	10†	10†	10†
		Diseases of the heart	0†	0†	10†	10†	10†	10†	10†	10†	10†	10†	10†
	Male	Malignant neoplasms	7	*	11	*	6	*	*	8	*	7	*
		Diseases of the heart	*	*	*	*	9	*	*	7	9	*	8
	Female	Malignant neoplasms	*	*	*	7	10	7	*	10	*	*	*
		Diseases of the heart	*	*	*	*	*	*	*	*	*	*	*

TABLE 5 (continued)
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 0-84 YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
LA PAZ	Total	Malignant neoplasms	48	52	40	31	46	48	40	42	52	57	56
		Diseases of the heart	38	49	44	54	58	64	58	71	51	79	67
	Male	Malignant neoplasms	34	33	25	20	33	26	27	26	28	36	30
		Diseases of the heart	28	40	36	38	43	43	47	57	40	57	49
	Female	Malignant neoplasms	14	19	15	11	13	22	13	16	24	21	26
		Diseases of the heart	10	9	8	16	15	21	11	14	11	22	18
MARICOPA	Total	Malignant neoplasms	4,420	4,516	4,593	4,714	4,900	5,007	4,831	5,270	5,292	5,350	5,315
		Diseases of the heart	3,208	3,302	3,071	3,178	3,126	3,245	3,008	3,431	3,616	3,834	3,970
	Male	Malignant neoplasms	2,355	2,392	2,476	2,453	2,602	2,641	2,586	2,808	2,873	2,896	2,867
		Diseases of the heart	2,029	2,040	1,946	2,022	1,983	2,092	1,946	2,189	2,278	2,438	2,528
	Female	Malignant neoplasms	2,065	2,124	2,117	2,261	2,298	2,366	2,245	2,462	2,419	2,454	2,448
		Diseases of the heart	1,179	1,262	1,125	1,156	1,143	1,153	1,062	1,242	1,338	1,396	1,442
MOHAVE	Total	Malignant neoplasms	539	510	536	533	515	599	491	616	639	623	648
		Diseases of the heart	475	457	453	485	535	541	456	586	621	612	618
	Male	Malignant neoplasms	317	287	313	324	322	339	246	360	343	383	394
		Diseases of the heart	319	309	311	327	358	373	299	383	412	417	433
	Female	Malignant neoplasms	222	223	223	209	193	260	245	256	296	240	254
		Diseases of the heart	156	148	142	158	177	168	157	203	209	195	185
NAVAJO	Total	Malignant neoplasms	147	145	124	153	134	160	124	137	153	157	148
		Diseases of the heart	109	114	121	110	113	90	112	114	129	102	145
	Male	Malignant neoplasms	88	75	66	87	74	83	68	76	86	85	88
		Diseases of the heart	72	65	81	73	73	54	73	70	88	70	87
	Female	Malignant neoplasms	59	70	58	66	60	77	56	61	67	72	60
		Diseases of the heart	37	49	40	37	40	36	39	44	41	32	58
PIMA	Total	Malignant neoplasms	1,517	1,529	1,487	1,536	1,608	1,527	1,395	1,559	1,501	1,553	1,600
		Diseases of the heart	1,128	1,116	1,021	1,095	1,082	1,106	1,008	1,093	1,195	1,151	1,100
	Male	Malignant neoplasms	817	830	818	856	904	813	781	847	838	839	905
		Diseases of the heart	689	699	623	700	670	740	631	680	737	723	701
	Female	Malignant neoplasms	700	699	669	680	704	714	614	712	663	714	695
		Diseases of the heart	439	417	398	395	412	366	377	413	458	428	399
PINAL	Total	Malignant neoplasms	410	413	483	533	516	564	546	589	590	633	621
		Diseases of the heart	342	288	345	340	410	361	344	442	419	485	449
	Male	Malignant neoplasms	241	244	275	317	304	346	317	323	334	367	339
		Diseases of the heart	218	193	235	220	268	214	220	294	280	333	294
	Female	Malignant neoplasms	169	169	208	216	212	218	229	266	256	266	282
		Diseases of the heart	124	95	110	120	142	147	124	148	139	152	155
SANTA CRUZ	Total	Malignant neoplasms	40	65	45	53	58	58	64	50	45	57	53
		Diseases of the heart	38	41	25	27	34	38	30†	47	39	36	25
	Male	Malignant neoplasms	22	36	20	32	46	29	30	19	21	36	34
		Diseases of the heart	24	27	18	13	20	29	21	33	28	26	13
	Female	Malignant neoplasms	18	28	25	21	12	29	34	31	24	21	19
		Diseases of the heart	14	14	7	14	14	9	*	14	11	10	12

TABLE 5 (continued)
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 0-84 YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
YAVAPAI	Total	Malignant neoplasms	455	450	503	466	502	512	524	539	537	562	609
		Diseases of the heart	335	375	295	342	325	311	332	375	348	380	427
	Male	Malignant neoplasms	263	261	285	243	285	281	282	303	291	318	351
		Diseases of the heart	230	234	210	218	207	212	226	249	230	252	275
	Female	Malignant neoplasms	192	189	218	223	217	231	242	236	246	244	258
		Diseases of the heart	105	141	85	124	118	99	106	126	118	128	152
YUMA	Total	Malignant neoplasms	233	257	249	245	234	235	240	248	251	249	294
		Diseases of the heart	159	189	187	209	184	156	199	155	207	202	239
	Male	Malignant neoplasms	139	140	140	145	132	125	145	148	155	132	168
		Diseases of the heart	105	112	116	144	107	103	133	89	140	129	143
	Female	Malignant neoplasms	94	117	109	100	102	110	95	100	96	117	126
		Diseases of the heart	54	77	71	65	77	53	66	66	67	73	96
UNKNOWN	Total	Malignant neoplasms	10	20†	20†	30†	23	13	10†	30†	47	50†	25
		Diseases of the heart	10†	20†	30†	33	30†	20†	20†	45	60†	65	30†
	Male	Malignant neoplasms	10	13	18	24	17	13	9	20	37	41	13
		Diseases of the heart	7	13	25	25	25	19	13	39	56	58	26
	Female	Malignant neoplasms	0	*	*	*	6	0	*	*	10	*	12
		Diseases of the heart	*	*	*	8	*	*	*	6	*	7	*

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6; Totals may include records with unknown gender; a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 6
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AND YEAR
AMONG ARIZONANS 85+ YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total, all groups	Total	Malignant neoplasms	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009	2,083
		Diseases of the heart	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769	4,778
	Male	Malignant neoplasms	740	814	848	825	882	894	901	971	1,074	1,027	1,116
		Diseases of the heart	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101	2,114
	Female	Malignant neoplasms	777	812	880	869	866	915	852	920	984	982	967
		Diseases of the heart	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668	2,664
White non-Hispanics	Total	Malignant neoplasms	1,356	1,465	1,542	1,489	1,540	1,585	1,535	1,677	1,765	1,741	1,763
		Diseases of the heart	3,336	3,360	3,303	3,671	3,587	3,664	3,539	3,920	4,020	4,191	4,152
	Male	Malignant neoplasms	669	739	754	727	775	795	799	854	925	915	957
		Diseases of the heart	1,361	1,379	1,310	1,500	1,511	1,568	1,485	1,703	1,816	1,839	1,854
	Female	Malignant neoplasms	687	726	788	762	765	790	736	823	840	826	806
		Diseases of the heart	1,975	1,980	1,993	2,171	2,076	2,096	2,054	2,217	2,204	2,352	2,298
Hispanics or Latinos	Total	Malignant neoplasms	105	107	125	130	151	147	150	133	198	171	206
		Diseases of the heart	262	235	247	284	298	294	300	319	377	375	441
	Male	Malignant neoplasms	45	46	64	68	83	64	75	74	110	80	106
		Diseases of the heart	93	94	105	108	115	118	125	110	164	167	185
	Female	Malignant neoplasms	60	61	61	62	68	83	75	59	88	91	100
		Diseases of the heart	169	141	142	176	183	176	175	209	213	208	256
Black or African American	Total	Malignant neoplasms	20	22	25	32	22	29	26	29	35	30†	46
		Diseases of the heart	47	47	40	46	51	58	38	69	78	76	80
	Male	Malignant neoplasms	6	15	8	11	9	10	11	14	19	*	22
		Diseases of the heart	17	12	15	25	18	23	16	26	25	32	29
	Female	Malignant neoplasms	14	7	17	21	13	19	15	15	16	21	24
		Diseases of the heart	30	35	25	21	33	35	22	43	53	44	51
American Indian or Alaska Native	Total	Malignant neoplasms	23	25	25	26	20	31	24	30	36	36	31
		Diseases of the heart	43	47	54	33	45	54	44	46	60	68	54
	Male	Malignant neoplasms	12	11	17	13	7	15	12	15	15	10	18
		Diseases of the heart	19	15	21	9	16	28	25	20	27	37	21
	Female	Malignant neoplasms	11	14	8	13	13	16	12	15	21	26	13
		Diseases of the heart	24	32	33	24	29	26	19	26	33	31	33
Asian or Pacific Islander	Total	Malignant neoplasms	10†	10†	10†	17	15	17	20†	22	20†	33	35
		Diseases of the heart	15	24	22	22	29	30	21	37	43	52	41
	Male	Malignant neoplasms	6	*	*	6	8	10	*	14	*	16	12
		Diseases of the heart	7	8	10	8	11	10	6	16	16	23	20
	Female	Malignant neoplasms	*	*	6	11	7	7	14	8	19	17	23
		Diseases of the heart	8	16	12	14	18	20	15	21	27	29	21
Other unspecified or other unknown	Total	Malignant neoplasms	0†	0	0	0	0	0	0	0	0	0†	0†
		Diseases of the heart	0†	0	0	0	0	0	0	0†	0	10†	10†
	Male	Malignant neoplasms	*	0	0	0	0	0	0	0	0	*	*
		Diseases of the heart	0	0	0	0	0	0	0	*	0	*	*
	Female	Malignant neoplasms	*	0	0	0	0	0	0	0	0	*	*
		Diseases of the heart	*	0	0	0	0	0	0	0	0	*	*

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6; Totals may include records with unknown gender; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 7
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 85+ YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
TOTAL STATE	Total	Malignant neoplasms	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009	2,083
		Diseases of the heart	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769	4,778
	Male	Malignant neoplasms	740	814	848	825	882	894	901	971	1,074	1,027	1,116
		Diseases of the heart	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101	2,114
	Female	Malignant neoplasms	777	812	880	869	866	915	852	920	984	982	967
		Diseases of the heart	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668	2,664
APACHE	Total	Malignant neoplasms	14	10†	10†	16	13	20	10†	10†	15	10†	10†
		Diseases of the heart	21	22	17	20†	10†	24	22	34	25	33	34
	Male	Malignant neoplasms	7	*	6	7	6	11	6	*	8	*	*
		Diseases of the heart	8	6	9	*	*	13	11	17	12	17	16
	Female	Malignant neoplasms	7	*	*	9	7	9	*	*	7	8	*
		Diseases of the heart	13	16	8	14	12	11	11	17	13	16	18
COCHISE	Total	Malignant neoplasms	44	27	34	45	52	23	32	41	62	35	53
		Diseases of the heart	84	88	105	116	103	109	99	100	100	116	116
	Male	Malignant neoplasms	22	12	21	20	31	14	16	25	33	19	25
		Diseases of the heart	30	39	54	57	41	47	49	49	40	56	59
	Female	Malignant neoplasms	22	15	13	25	21	9	16	16	29	16	28
		Diseases of the heart	54	49	51	59	62	62	50	51	60	60	57
COCONINO	Total	Malignant neoplasms	14	10†	16	18	10†	15	10†	27	27	20	17
		Diseases of the heart	37	36	36	41	30	39	42	45	46	55	47
	Male	Malignant neoplasms	7	*	10	10	*	7	9	13	14	7	7
		Diseases of the heart	13	17	12	20	9	13	14	22	20	28	18
	Female	Malignant neoplasms	7	*	6	8	7	8	*	14	13	13	10
		Diseases of the heart	24	19	24	21	21	26	28	23	26	27	29
GILA	Total	Malignant neoplasms	18	28	21	17	23	16	16	27	24	21	19
		Diseases of the heart	50	52	49	57	44	59	62	69	70	59	65
	Male	Malignant neoplasms	10	15	13	11	12	7	6	14	13	9	13
		Diseases of the heart	20	15	18	19	17	27	25	32	26	23	28
	Female	Malignant neoplasms	8	13	8	6	11	9	10	13	11	12	6
		Diseases of the heart	30	37	31	38	27	32	37	37	44	36	37
GRAHAM	Total	Malignant neoplasms	10†	10†	20	10†	10†	10†	10†	10†	10†	10†	0†
		Diseases of the heart	20	19	15	21	21	19	19	10†	17	14	20†
	Male	Malignant neoplasms	*	6	10	*	*	*	*	*	*	*	*
		Diseases of the heart	6	7	7	12	11	9	10	*	11	6	*
	Female	Malignant neoplasms	*	*	10	*	*	*	*	*	*	*	*
		Diseases of the heart	14	12	8	9	10	10	9	7	6	8	12
GREENLEE	Total	Malignant neoplasms	0†	0†	0†	0†	0	0†	0†	0†	0†	0	0†
		Diseases of the heart	0†	0†	0	10†	0†	0†	0†	0†	0†	0†	10†
	Male	Malignant neoplasms	0	*	*	*	0	0	*	0	*	0	*
		Diseases of the heart	0	*	0	*	*	*	*	*	*	*	*
	Female	Malignant neoplasms	*	0	0	*	0	*	0	*	0	0	*
		Diseases of the heart	*	*	0	*	0	*	*	*	*	*	*

TABLE 7 (continued)
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 85+ YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
LA PAZ	Total	Malignant neoplasms	10†	10†	0†	10†	10†	10†	6	10†	10†	10†	10†
		Diseases of the heart	10†	10†	10†	10†	10†	12	10†	20†	17	28	25
	Male	Malignant neoplasms	6	*	0	*	*	*	6	*	*	*	*
		Diseases of the heart	*	9	*	9	6	6	8	11	9	13	15
	Female	Malignant neoplasms	*	6	*	*	0	*	0	*	*	*	*
		Diseases of the heart	*	*	*	*	*	6	*	*	8	15	10
MARICOPA	Total	Malignant neoplasms	854	906	917	938	1,002	1,006	981	1,073	1,145	1,137	1,181
		Diseases of the heart	2,116	2,124	2,081	2,189	2,164	2,241	2,209	2,380	2,465	2,686	2,589
	Male	Malignant neoplasms	424	437	419	434	477	493	475	510	580	542	611
		Diseases of the heart	845	860	834	899	909	964	910	1,019	1,089	1,141	1,112
	Female	Malignant neoplasms	430	469	498	504	525	513	506	563	565	595	570
		Diseases of the heart	1,271	1,263	1,247	1,290	1,255	1,277	1,299	1,361	1,376	1,545	1,477
MOHAVE	Total	Malignant neoplasms	58	67	74	79	78	79	72	63	97	96	98
		Diseases of the heart	188	181	178	220	183	239	194	247	282	260	246
	Male	Malignant neoplasms	30	31	43	39	44	44	40	35	48	54	55
		Diseases of the heart	81	77	69	89	74	93	85	97	125	136	124
	Female	Malignant neoplasms	28	36	31	40	34	35	32	28	49	42	43
		Diseases of the heart	107	104	109	131	109	146	109	150	157	124	122
NAVAJO	Total	Malignant neoplasms	20	18	24	26	20	24	22	27	25	20†	26
		Diseases of the heart	42	30	39	38	42	58	55	44	56	54	56
	Male	Malignant neoplasms	8	8	13	18	8	14	13	11	15	16	17
		Diseases of the heart	18	13	17	13	22	24	22	22	29	27	25
	Female	Malignant neoplasms	12	10	11	8	12	10	9	16	10	*	9
		Diseases of the heart	24	17	22	25	20	34	33	22	27	27	31
PIMA	Total	Malignant neoplasms	309	357	371	348	346	378	327	356	385	359	363
		Diseases of the heart	693	739	695	814	833	785	727	838	883	833	911
	Male	Malignant neoplasms	135	184	200	176	187	178	171	199	209	209	203
		Diseases of the heart	278	292	260	320	327	315	310	341	398	357	388
	Female	Malignant neoplasms	174	173	171	172	159	200	156	157	176	150	160
		Diseases of the heart	415	447	435	494	506	470	417	497	485	476	523
PINAL	Total	Malignant neoplasms	34	41	67	42	47	61	86	74	88	81	95
		Diseases of the heart	147	112	131	181	165	151	160	198	181	189	221
	Male	Malignant neoplasms	16	27	24	21	24	36	53	38	48	39	50
		Diseases of the heart	55	39	54	71	64	68	69	74	77	96	107
	Female	Malignant neoplasms	18	14	43	21	23	25	33	36	40	42	45
		Diseases of the heart	92	73	77	110	101	83	91	124	104	93	114
SANTA CRUZ	Total	Malignant neoplasms	10†	10†	13	10†	16	10†	15	10†	10†	12	17
		Diseases of the heart	22	10†	22	20†	24	25	13	38	29	32	30
	Male	Malignant neoplasms	*	*	6	*	8	*	8	7	6	6	11
		Diseases of the heart	10	*	13	*	8	11	6	16	9	12	9
	Female	Malignant neoplasms	*	6	7	7	8	*	7	*	*	6	6
		Diseases of the heart	12	8	9	15	16	14	7	22	20	20	21

TABLE 7 (continued)
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY COUNTY OF RESIDENCE,
GENDER, AND YEAR AMONG ARIZONANS 85+ YEARS OLD, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
YAVAPAI	Total	Malignant neoplasms	88	93	111	96	96	112	123	122	118	146	130
		Diseases of the heart	205	190	191	219	246	229	219	238	254	254	256
	Male	Malignant neoplasms	42	53	54	48	53	57	69	82	67	84	68
		Diseases of the heart	97	87	64	89	110	104	85	112	118	117	123
	Female	Malignant neoplasms	46	40	57	48	43	55	54	40	51	62	62
		Diseases of the heart	108	103	127	130	136	125	134	126	136	137	133
YUMA	Total	Malignant neoplasms	33	38	43	40	33	47	37	47	41	55	59
		Diseases of the heart	70	86	99	97	127	107	104	126	138	145	149
	Male	Malignant neoplasms	22	20	27	24	21	22	22	29	22	29	41
		Diseases of the heart	32	38	46	40	67	52	50	57	81	68	80
	Female	Malignant neoplasms	11	18	16	16	12	25	15	18	19	26	18
		Diseases of the heart	38	48	53	57	60	55	54	69	57	77	69
UNKNOWN	Total	Malignant neoplasms	0†	0†	0	0†	0	0†	0†	0†	0†	0†	0†
		Diseases of the heart	0†	0†	0	10†	0†	0	0†	10†	10†	10†	10†
	Male	Malignant neoplasms	*	*	0	*	0	*	*	0	0	*	*
		Diseases of the heart	0	*	0	*	*	0	0	*	*	*	*
	Female	Malignant neoplasms	*	*	0	*	0	*	0	*	*	*	0
		Diseases of the heart	*	*	0	*	*	0	*	*	10	*	6

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6; Totals may include records with unknown gender; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 8
PROPORTIONAL MORTALITY BY GENDER FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER)
AMONG ARIZONANS 0-84 AND 85+ YEARS OLD (BASED ON CUMULATIVE NUMBER OF DEATHS FOR 2008-2018)

Age group	Gender	Diseases of the heart		Malignant neoplasms (cancer)	
		Count	Col %	Count	Col %
0-84	Total	73,300	100.0%	101,269	100.0%
	Male	47,106	64.3%	55,476	54.8%
	Female	26,194	35.7%	45,792	45.2%
85+	Total	45,709	100.0%	19,916	100.0%
	Male	19,330	42.3%	10,092	50.7%
	Female	26,378	57.7%	9,824	49.3%
Unknown age group	Total	10†	100.0%	0†	**
	Male	8	88.9%	*	**
	Female	*	**	*	**

Notes: * cell suppressed due to non-zero count less than 6; ** cell suppressed due to rate based on non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6.

TABLE 9
PROPORTIONAL MORTALITY BY GENDER FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER)
AMONG ARIZONANS 0-84 AND 85+ YEARS OLD BY YEAR, 2008-2018

Year	Gender	0-84				85+			
		Diseases of the heart		Malignant neoplasms (cancer)		Diseases of the heart		Malignant neoplasms (cancer)	
		Count	Col %	Count	Col %	Count	Col %	Count	Col %
2008 ^a	Total	6,347	100.0%	8,423	100.0%	3,705	100.0%	1,517	100.0%
	Male	4,038	63.6%	4,623	54.9%	1,497	40.4%	740	48.8%
	Female	2,309	36.4%	3,800	45.1%	2,208	59.6%	777	51.2%
2009	Total	6,445	100.0%	8,526	100.0%	3,713	100.0%	1,626	100.0%
	Male	4,057	62.9%	4,623	54.2%	1,508	40.6%	814	50.1%
	Female	2,388	37.1%	3,902	45.8%	2,204	59.4%	812	49.9%
2010	Total	6,062	100.0%	8,698	100.0%	3,666	100.0%	1,728	100.0%
	Male	3,896	64.3%	4,795	55.1%	1,461	39.9%	848	49.1%
	Female	2,166	35.7%	3,903	44.9%	2,205	60.1%	880	50.9%
2011	Total	6,386	100.0%	8,858	100.0%	4,056	100.0%	1,694	100.0%
	Male	4,112	64.4%	4,820	54.4%	1,650	40.7%	825	48.7%
	Female	2,274	35.6%	4,038	45.6%	2,406	59.3%	869	51.3%
2012	Total	6,382	100.0%	9,135	100.0%	4,010	100.0%	1,748	100.0%
	Male	4,071	63.8%	5,057	55.4%	1,671	41.7%	882	50.5%
	Female	2,311	36.2%	4,078	44.6%	2,339	58.3%	866	49.5%
2013	Total	6,396	100.0%	9,384	100.0%	4,100	100.0%	1,809	100.0%
	Male	4,162	65.1%	5,056	53.9%	1,747	42.6%	894	49.4%
	Female	2,234	34.9%	4,328	46.1%	2,353	57.4%	915	50.6%
2014	Total	6,011	100.0%	8,847	100.0%	3,942	100.0%	1,753	100.0%
	Male	3,918	65.2%	4,830	54.6%	1,657	42.0%	901	51.4%
	Female	2,093	34.8%	4,017	45.4%	2,285	58.0%	852	48.6%
2015	Total	6,882	100.0%	9,733	100.0%	4,392	100.0%	1,891	100.0%
	Male	4,410	64.1%	5,292	54.4%	1,876	42.7%	971	51.3%
	Female	2,472	35.9%	4,441	45.6%	2,516	57.3%	920	48.7%
2016	Total	7,241	100.0%	9,743	100.0%	4,578	100.0%	2,058	100.0%
	Male	4,654	64.3%	5,355	55.0%	2,048	44.7%	1,074	52.2%
	Female	2,587	35.7%	4,388	45.0%	2,530	55.3%	984	47.8%
2017	Total	7,516	100.0%	9,908	100.0%	4,769	100.0%	2,009	100.0%
	Male	4,872	64.8%	5,466	55.2%	2,101	44.1%	1,027	51.1%
	Female	2,644	35.2%	4,442	44.8%	2,668	55.9%	982	48.9%
2018	Total	7,632	100.0%	10,014	100.0%	4,778	100.0%	2,083	100.0%
	Male	4,916	64.4%	5,559	55.5%	2,114	44.2%	1,116	53.6%
	Female	2,716	35.6%	4,455	44.5%	2,664	55.8%	967	46.4%

Notes: Totals may include records with unknown gender; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All groups	Total	<1	9	9	8	10	0†	6	6	10†	0†	6	10†
		1-4	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†
		5-14	0†	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
		15-24	8	20	15	16	10	18	19	15	13	10	18
		25-34	37	49	40	47	56	58	52	63	50	65	58
		35-44	129	182	130	169	160	144	163	159	135	177	160
		45-54	515	582	511	529	491	492	467	517	564	493	520
		55-64	1,129	1,136	1,168	1,245	1,206	1,191	1,113	1,323	1,375	1,360	1,379
		65-74	1,624	1,643	1,590	1,671	1,796	1,838	1,732	1,983	2,164	2,266	2,315
		75-84	2,889	2,820	2,597	2,695	2,655	2,645	2,456	2,814	2,931	3,136	3,172
		85+	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769	4,778
	Male	<1	*	7	6	6	*	*	*	*	*	*	*
		1-4	*	*	*	*	*	0	*	*	*	*	*
		5-14	*	*	0	*	*	*	0	0	*	*	*
		15-24	*	9	11	10	*	14	13	10	8	6	14
		25-34	26	33	31	33	40	39	39	40	36	47	37
		35-44	93	131	93	120	107	106	109	106	94	120	112
		45-54	391	418	365	377	364	357	327	381	399	358	371
		55-64	806	840	859	894	837	879	802	946	971	990	977
		65-74	1,064	1,061	1,059	1,114	1,196	1,224	1,172	1,289	1,462	1,534	1,529
		75-84	1,644	1,556	1,469	1,556	1,518	1,540	1,451	1,633	1,677	1,811	1,871
		85+	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101	2,114
	Female	<1	*	*	*	*	*	*	*	*	*	*	*
		1-4	*	*	0	*	*	*	*	*	0	0	*
		5-14	*	*	0	*	*	*	*	*	*	0	*
		15-24	*	11	*	6	*	*	6	*	*	*	*
		25-34	11	16	9	14	16	19	13	23	14	18	21
		35-44	36	51	37	49	53	38	54	53	41	57	48
		45-54	124	164	146	152	127	135	140	136	165	135	149
		55-64	323	296	309	351	369	312	311	377	404	370	402
		65-74	560	582	531	557	600	614	560	694	702	732	786
		75-84	1,245	1,264	1,128	1,139	1,137	1,105	1,005	1,181	1,254	1,325	1,301
		85+	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668	2,664

TABLE 10 (continued)
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
White non-Hispanic	Total	<1	10†	0†	0†	0†	0	0†	0†	0†	0†	0†	0†
		1-4	0†	0†	0†	0	0†	0†	0	0	0	0	0†
		5-14	0†	0†	0	0†	0†	0	0†	0	0	0†	0
		15-24	10†	7	6	9	0†	6	9	0†	7	6	11
		25-34	15	21	20	25	25	28	28	30	25	29	34
		35-44	83	112	84	107	92	84	98	84	77	106	87
		45-54	374	411	372	367	357	347	321	359	381	322	323
		55-64	866	886	891	979	931	936	868	1,003	1,056	995	994
		65-74	1,315	1,332	1,310	1,375	1,478	1,494	1,413	1,585	1,745	1,797	1,807
		75-84	2,537	2,404	2,228	2,298	2,239	2,235	2,045	2,364	2,451	2,597	2,633
		85+	3,336	3,360	3,303	3,671	3,587	3,664	3,539	3,920	4,020	4,191	4,152
	Male	<1	*	*	*	*	0	*	*	*	*	0	*
		1-4	*	0	*	0	*	0	0	0	0	0	*
		5-14	*	0	0	0	*	0	0	0	0	*	0
		15-24	*	*	*	6	*	*	6	*	*	*	8
		25-34	10	13	15	17	18	21	18	17	16	21	20
		35-44	58	86	63	77	65	64	68	56	52	69	63
		45-54	291	300	270	260	266	253	225	264	269	241	236
		55-64	620	653	653	699	657	685	639	732	756	720	709
		65-74	875	874	886	936	998	1,003	957	1,052	1,178	1,227	1,198
		75-84	1,452	1,340	1,287	1,346	1,304	1,331	1,219	1,391	1,436	1,529	1,592
		85+	1,361	1,379	1,310	1,500	1,511	1,568	1,485	1,703	1,816	1,839	1,854
	Female	<1	*	0	*	*	0	0	0	0	*	*	*
		1-4	*	*	0	0	*	*	0	0	0	0	0
		5-14	0	*	0	*	*	0	*	0	0	0	0
		15-24	*	*	*	*	*	*	*	*	*	*	*
		25-34	*	8	*	8	7	7	10	13	9	8	14
		35-44	25	26	21	30	27	20	30	28	25	37	24
		45-54	83	111	102	107	91	94	96	95	112	81	87
		55-64	246	233	238	280	274	251	229	271	300	275	285
		65-74	440	458	424	439	480	491	456	533	567	570	609
		75-84	1,085	1,064	941	952	935	904	826	973	1,015	1,068	1,041
		85+	1,975	1,980	1,993	2,171	2,076	2,096	2,054	2,217	2,204	2,352	2,298

TABLE 10 (continued)
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hispanic or Latino	Total	<1	0†	0†	0†	10†	0†	0	10†	0†	0	0†	0†
		1-4	0†	0†	0†	0†	0	0†	0†	0	0†	0	0†
		5-14	0†	0†	0	0†	0†	0†	0	0†	0†	0†	0†
		15-24	0†	9	0†	0†	0†	7	6	0†	0†	0†	0†
		25-34	6	16	16	11	23	13	13	18	11	13	9
		35-44	19	32	26	31	37	43	28	40	35	30	36
		45-54	77	87	67	84	76	72	79	86	106	89	109
		55-64	144	143	156	146	164	151	144	170	165	176	205
		65-74	180	188	170	187	182	203	182	251	254	250	268
		75-84	242	274	230	260	257	254	260	305	298	331	316
		85+	262	235	247	284	298	294	300	319	377	375	441
	Male	<1	*	*	*	*	*	0	*	*	0	*	*
		1-4	*	*	*	*	0	0	*	0	*	0	0
		5-14	0	*	0	*	0	0	0	0	*	*	*
		15-24	*	*	*	*	*	6	*	*	*	*	*
		25-34	*	11	13	8	18	7	10	11	10	9	7
		35-44	16	25	16	22	20	27	19	30	26	22	27
		45-54	60	63	46	63	55	51	57	60	76	62	76
		55-64	111	109	118	103	114	117	101	123	113	137	150
		65-74	120	115	106	110	119	133	122	154	173	166	185
		75-84	141	139	105	138	131	131	151	165	151	172	172
		85+	93	94	105	108	115	118	125	110	164	167	185
	Female	<1	*	0	*	*	*	0	*	*	0	0	*
		1-4	0	0	0	0	0	*	*	0	0	0	*
		5-14	*	0	0	0	*	*	0	*	0	0	*
		15-24	0	*	*	*	*	*	*	0	*	0	*
		25-34	*	*	*	*	*	6	*	7	*	*	*
		35-44	*	7	10	9	17	16	9	10	9	8	9
		45-54	17	24	21	21	21	21	22	26	30	27	33
		55-64	33	34	38	43	50	34	43	47	52	39	55
		65-74	60	73	64	77	63	70	60	97	81	84	83
		75-84	101	135	125	122	126	123	109	140	147	159	144
		85+	169	141	142	176	183	176	175	209	213	208	256

TABLE 10 (continued)
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	Total	<1	0†	0†	0	0†	0	0†	0	0†	0†	0	0†
		1-4	0	0	0	0†	0	0	0	0†	0†	0	0
		5-14	0	0	0	0	0	0†	0	0	0†	0	0
		15-24	0	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†
		25-34	12	7	0†	6	10†	11	0†	6	10†	7	10†
		35-44	15	17	11	15	18	7	16	21	7	22	12
		45-54	27	47	39	40	33	45	41	32	47	36	37
		55-64	59	51	63	60	59	58	60	93	92	94	83
		65-74	51	62	48	52	65	77	60	81	85	78	83
		75-84	46	60	65	56	70	68	65	63	73	66	79
		85+	47	47	40	46	51	58	38	69	78	76	80
	Male	<1	*	0	0	*	0	*	0	*	*	0	0
		1-4	0	0	0	0	0	0	0	0	*	0	0
		5-14	0	0	0	0	0	*	0	0	*	0	0
		15-24	0	*	*	0	*	*	*	*	*	0	*
		25-34	9	*	*	*	*	*	*	*	*	*	*
		35-44	11	9	7	9	13	7	8	10	*	16	6
		45-54	12	29	25	26	25	32	25	24	36	26	23
		55-64	40	38	42	49	36	46	37	54	63	61	49
		65-74	28	37	27	30	35	51	39	47	57	49	47
		75-84	24	32	41	32	32	39	35	36	38	35	40
		85+	17	12	15	25	18	23	16	26	25	32	29
	Female	<1	0	*	0	*	0	*	0	0	0	0	*
		1-4	0	0	0	*	0	0	0	*	0	0	0
		5-14	0	0	0	0	0	0	0	0	0	0	0
		15-24	0	0	0	*	*	*	0	*	0	*	0
		25-34	*	*	*	*	*	6	0	*	*	*	*
		35-44	*	8	*	6	*	0	8	11	*	6	6
		45-54	15	18	14	14	8	13	16	8	11	10	14
		55-64	19	13	21	11	23	12	23	39	29	33	34
		65-74	23	25	21	22	30	26	21	34	28	29	36
		75-84	22	28	24	24	38	29	30	27	35	31	39
		85+	30	35	25	21	33	35	22	43	53	44	51

TABLE 10 (continued)
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
American Indian or Alaska Native	Total	<1	0	0†	0†	0†	0	0†	0	0	0	0†	0
		1-4	0	0	0	0	0	0	0	0†	0	0†	0
		5-14	0	0	0	0	0	0	0	0	0†	0	0
		15-24	0†	0†	0†	0†	0†	0†	0†	6	0	0	0†
		25-34	0†	0†	0†	0†	0†	10†	7	9	8	10	10
		35-44	7	19	7	12	12	7	19	11	12	14	18
		45-54	29	29	29	27	21	23	19	34	24	35	32
		55-64	49	46	45	42	36	36	29	40	45	46	46
		65-74	55	44	42	46	48	43	60	47	61	64	73
		75-84	38	57	47	59	62	59	55	51	74	82	60
		85+	43	47	54	33	45	54	44	46	60	68	54
	Male	<1	0	*	*	*	0	0	0	0	0	*	0
		1-4	0	0	0	0	0	0	0	*	0	*	0
		5-14	0	0	0	0	0	0	0	0	*	0	0
		15-24	*	*	*	*	*	*	*	*	0	0	*
		25-34	*	*	*	*	*	*	7	7	6	8	9
		35-44	*	9	6	8	8	*	12	8	9	8	12
		45-54	21	19	20	21	14	17	14	28	14	25	20
		55-64	29	32	37	31	22	27	16	23	27	29	29
		65-74	25	27	25	31	27	23	43	27	43	38	38
		75-84	12	32	20	26	37	24	31	26	40	48	27
		85+	19	15	21	9	16	28	25	20	27	37	21
	Female	<1	0	*	0	0	0	*	0	0	0	*	0
		1-4	0	0	0	0	0	0	0	0	0	0	0
		5-14	0	0	0	0	0	0	0	0	*	0	0
		15-24	0	*	0	*	*	*	*	*	0	0	0
		25-34	*	0	0	*	*	0	0	*	*	*	*
		35-44	*	10	*	*	*	*	7	*	*	6	6
		45-54	8	10	9	6	7	6	*	6	10	10	12
		55-64	20	14	8	11	14	9	13	17	18	17	17
		65-74	30	17	17	15	21	20	17	20	18	26	35
		75-84	26	25	27	33	25	35	24	25	34	34	33
		85+	24	32	33	24	29	26	19	26	33	31	33

TABLE 10 (continued)
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Asian or Pacific Islander	Total	<1	0	0	0†	0	0	0†	0	0	0	0†	0
		1-4	0	0	0†	0	0†	0	0	0	0	0	0
		5-14	0	0	0	0	0	0	0	0	0	0	0
		15-24	0	0	0†	0	0	0	0	0	0	0	0
		25-34	0†	0†	0	0†	0	0†	0†	0	0†	0†	0
		35-44	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†	7
		45-54	10†	8	0†	11	0†	10†	7	6	6	8	12
		55-64	8	10	13	18	16	10	12	17	17	15	19
		65-74	16	17	20	11	23	21	17	19	19	36	38
		75-84	17	25	27	22	27	29	31	31	35	39	57
		85+	15	24	22	22	29	30	21	37	43	52	41
	Male	<1	0	0	*	0	0	0	0	0	0	0	0
		1-4	0	0	*	0	*	0	0	0	0	0	0
		5-14	0	0	0	0	0	0	0	0	0	0	0
		15-24	0	0	0	0	0	0	0	0	0	0	0
		25-34	*	*	0	*	0	*	*	0	*	*	0
		35-44	*	*	*	*	*	*	*	*	*	*	*
		45-54	*	7	*	7	*	*	6	*	*	*	9
		55-64	*	8	9	12	8	*	9	14	12	13	16
		65-74	9	8	15	7	17	14	11	9	11	21	25
		75-84	8	13	16	14	14	15	15	15	12	13	22
		85+	7	8	10	8	11	10	6	16	16	23	20
	Female	<1	0	0	0	0	0	*	0	0	0	*	0
		1-4	0	0	0	0	0	0	0	0	0	0	0
		5-14	0	0	0	0	0	0	0	0	0	0	0
		15-24	0	0	*	0	0	0	0	0	0	0	0
		25-34	0	0	0	0	0	0	0	0	0	*	0
		35-44	*	0	*	0	0	0	0	*	*	0	*
		45-54	*	*	0	*	0	*	*	*	*	6	*
		55-64	*	*	*	6	8	6	*	*	*	*	*
		65-74	7	9	*	*	6	7	6	10	8	15	13
		75-84	9	12	11	8	13	14	16	16	23	26	35
		85+	8	16	12	14	18	20	15	21	27	29	21

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6. Totals may include records with unknown gender; a data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All groups	Total	<1	0†	0	0†	0†	0†	0†	0†	0†	0†	0†	0†
		1-4	13	9	9	6	7	13	9	7	6	9	8
		5-14	17	24	17	21	26	16	20	7	12	21	23
		15-24	41	34	31	32	28	31	42	32	32	22	27
		25-34	76	79	86	62	89	89	60	69	69	77	77
		35-44	206	226	179	206	215	227	191	209	223	210	216
		45-54	733	780	783	781	783	750	701	737	653	689	728
		55-64	1,781	1,769	1,894	1,928	1,996	2,051	1,861	2,060	2,117	2,038	2,032
		65-74	2,623	2,709	2,755	2,806	3,002	3,097	3,051	3,337	3,455	3,532	3,456
		75-84	2,931	2,896	2,940	3,015	2,987	3,109	2,911	3,274	3,173	3,309	3,445
		85+	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009	2,083
	Male	<1	*	0	*	*	*	0	0	*	*	0	*
		1-4	*	*	*	*	*	9	*	6	*	6	*
		5-14	12	17	7	7	13	7	10	*	7	9	11
		15-24	23	20	16	15	18	17	25	19	15	11	20
		25-34	45	35	47	29	39	50	30	37	34	48	33
		35-44	94	98	82	81	87	88	78	101	87	86	83
		45-54	394	397	371	400	405	367	330	375	330	348	364
		55-64	957	955	1,063	1,030	1,110	1,118	1,022	1,110	1,153	1,131	1,111
		65-74	1,470	1,488	1,530	1,568	1,691	1,687	1,696	1,858	1,965	1,987	1,962
		75-84	1,622	1,609	1,672	1,685	1,688	1,713	1,638	1,780	1,759	1,840	1,970
		85+	740	814	848	825	882	894	901	971	1,074	1,027	1,116
	Female	<1	*	0	*	0	*	*	*	0	*	*	*
		1-4	8	*	*	*	*	*	8	*	*	*	*
		5-14	*	7	10	14	13	9	10	*	*	12	12
		15-24	18	14	15	17	10	14	17	13	17	11	7
		25-34	31	44	39	33	50	39	30	32	35	29	44
		35-44	112	128	97	125	128	139	113	108	136	124	133
		45-54	339	383	412	381	378	383	371	362	323	341	364
		55-64	824	814	831	898	886	933	839	950	964	907	921
		65-74	1,153	1,220	1,225	1,238	1,311	1,410	1,355	1,479	1,490	1,545	1,494
		75-84	1,309	1,287	1,268	1,330	1,299	1,396	1,273	1,494	1,414	1,469	1,475
		85+	777	812	880	869	866	915	852	920	984	982	967

TABLE 11 (continued)

NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
White non-Hispanic	Total	<1	0†	0	0†	0†	0†	0	0	0†	0	0	0†
		1-4	0†	10†	0†	0†	0†	0†	0†	0†	0†	10†	6
		5-14	10	6	0†	6	8	7	12	0†	10†	9	10
		15-24	20	11	16	15	14	11	18	12	10	7	12
		25-34	41	40	42	28	47	37	23	35	37	41	45
		35-44	125	129	112	122	124	121	120	117	125	114	115
		45-54	526	582	571	549	545	514	498	484	412	424	451
		55-64	1,422	1,407	1,495	1,542	1,558	1,611	1,439	1,579	1,627	1,510	1,496
		65-74	2,207	2,272	2,339	2,388	2,541	2,612	2,551	2,786	2,897	2,909	2,808
		75-84	2,560	2,497	2,564	2,590	2,578	2,622	2,460	2,765	2,712	2,805	2,870
		85+	1,356	1,465	1,542	1,489	1,540	1,585	1,535	1,677	1,765	1,741	1,763
	Male	<1	*	0	0	*	*	0	0	*	0	0	*
		1-4	0	*	*	*	*	*	0	*	0	*	*
		5-14	8	*	0	*	6	*	*	*	*	*	*
		15-24	12	7	8	7	9	6	11	7	*	*	7
		25-34	25	17	24	15	18	18	11	18	21	28	17
		35-44	55	56	53	53	49	50	58	53	56	50	45
		45-54	296	294	275	278	293	249	232	257	195	237	226
		55-64	761	772	842	814	857	890	790	859	869	842	835
		65-74	1,226	1,252	1,315	1,345	1,424	1,449	1,423	1,552	1,644	1,636	1,605
		75-84	1,406	1,381	1,465	1,454	1,470	1,461	1,393	1,499	1,516	1,574	1,638
		85+	669	739	754	727	775	795	799	854	925	915	957
	Female	<1	0	0	*	0	*	0	0	0	0	0	0
		1-4	*	*	*	*	*	*	*	*	*	*	*
		5-14	*	*	*	*	*	*	7	*	*	*	*
		15-24	8	*	8	8	*	*	7	*	*	*	*
		25-34	16	23	18	13	29	19	12	17	16	13	28
		35-44	70	73	59	69	75	71	62	64	69	64	70
		45-54	230	288	296	271	252	265	266	227	217	187	225
		55-64	661	635	653	728	701	721	649	720	758	668	661
		65-74	981	1,020	1,024	1,043	1,117	1,163	1,128	1,234	1,253	1,273	1,203
		75-84	1,154	1,116	1,099	1,136	1,108	1,161	1,067	1,266	1,196	1,231	1,232
		85+	687	726	788	762	765	790	736	823	840	826	806

TABLE 11 (continued)

NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hispanic or Latino	Total	<1	0†	0	0†	0	0	0†	0†	0	0†	0†	0†
		1-4	8	0†	0†	0†	0†	10	0†	0†	0†	0†	0†
		5-14	10†	15	13	13	13	8	7	0†	7	10	11
		15-24	15	18	9	14	12	14	22	16	19	11	11
		25-34	30	29	30	27	26	33	26	20	22	24	24
		35-44	51	60	50	64	60	73	45	63	68	64	56
		45-54	128	121	144	145	159	155	124	178	170	170	174
		55-64	193	226	236	235	252	290	265	308	283	291	311
		65-74	269	271	260	253	270	306	312	329	340	366	387
		75-84	245	262	246	290	288	312	303	336	294	310	381
		85+	105	107	125	130	151	147	150	133	198	171	206
	Male	<1	0	0	*	0	0	0	0	0	*	0	0
		1-4	*	*	*	*	*	8	0	*	*	*	*
		5-14	*	12	6	*	*	*	*	*	*	*	*
		15-24	10	10	*	8	8	8	13	9	8	*	11
		25-34	17	12	13	11	13	22	14	11	8	12	11
		35-44	23	27	22	26	23	27	13	32	21	24	23
		45-54	66	65	73	78	73	75	64	85	101	77	86
		55-64	105	117	127	146	153	149	156	166	170	163	165
		65-74	163	158	128	137	158	153	169	193	208	206	216
		75-84	142	157	127	170	158	166	170	193	154	167	211
		85+	45	46	64	68	83	64	75	74	110	80	106
	Female	<1	*	0	*	0	0	*	*	0	*	*	*
		1-4	*	*	0	0	0	*	*	0	*	*	*
		5-14	*	*	7	8	9	*	*	0	*	6	6
		15-24	*	8	*	6	*	6	9	7	11	6	0
		25-34	13	17	17	16	13	11	12	9	14	12	13
		35-44	28	33	28	38	37	46	32	31	47	40	33
		45-54	62	56	71	67	86	80	60	93	69	93	88
		55-64	88	109	109	89	99	141	109	142	113	128	146
		65-74	106	112	132	116	112	153	143	136	132	160	171
		75-84	103	105	119	120	130	146	133	143	140	143	170
		85+	60	61	61	62	68	83	75	59	88	91	100

TABLE 11 (continued)

NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	Total	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	0	0	0†	0†	0†	0	0	0	0	0†	0
		5-14	0†	0†	0†	0†	0†	0	0	0	0	0	0†
		15-24	0†	0	0†	0†	0†	0†	0	0†	0	0†	0†
		25-34	0†	0†	0†	0†	10†	6	10†	0†	0†	0†	0†
		35-44	8	14	6	13	14	11	12	13	14	11	19
		45-54	37	25	31	41	37	44	34	35	30	40	38
		55-64	87	61	86	73	96	76	76	86	91	119	105
		65-74	64	75	74	77	93	89	98	105	129	116	105
		75-84	45	67	64	45	56	78	58	59	77	74	73
		85+	20	22	25	32	22	29	26	29	35	26	46
	Male	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	0	0	*	0	*	0	0	0	0	*	0
		5-14	0	0	0	0	*	0	0	0	0	0	*
		15-24	*	0	0	0	0	*	0	*	0	0	*
		25-34	0	*	*	0	*	*	*	*	*	*	*
		35-44	*	6	*	*	9	*	*	7	*	*	*
		45-54	14	9	10	22	23	25	13	16	17	11	19
		55-64	46	32	51	31	54	38	35	42	54	65	53
		65-74	38	37	45	39	59	47	55	61	74	71	58
		75-84	29	36	43	22	29	41	29	34	45	38	50
		85+	6	15	8	11	9	10	11	14	19	*	22
	Female	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	0	0	*	*	0	0	0	0	0	0	0
		5-14	*	*	*	*	0	0	0	0	0	0	0
		15-24	*	0	*	*	*	*	0	*	0	*	0
		25-34	*	0	*	*	*	*	*	*	*	0	0
		35-44	*	8	*	11	*	8	10	6	9	6	15
		45-54	23	16	21	19	14	19	21	19	13	29	19
		55-64	41	29	35	42	42	38	41	44	37	54	52
		65-74	26	38	29	38	34	42	43	44	55	45	47
		75-84	16	31	21	23	27	37	29	25	32	36	23
		85+	14	7	17	21	13	19	15	15	16	21	24

TABLE 11 (continued)

NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
American Indian or Alaska Native	Total	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	0†	0	0	0	0†	0	0†	0†	0	0	0
		5-14	0	0†	0†	0†	0†	0†	0†	0†	0	0†	0†
		15-24	0†	0†	0†	0†	0†	0	0†	0†	0†	0†	0†
		25-34	0†	7	6	10†	8	9	0†	8	0†	10†	0†
		35-44	14	17	0†	0†	9	14	6	12	9	11	15
		45-54	30	37	24	28	19	28	23	30	21	27	31
		55-64	49	48	45	44	56	54	54	49	62	58	64
		65-74	46	66	52	58	60	55	50	63	48	67	64
		75-84	48	36	38	46	40	51	60	62	42	57	60
		85+	23	25	25	26	20	31	24	30	36	36	31
	Male	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	*	0	0	0	*	0	*	*	0	0	0
		5-14	0	*	*	*	*	0	0	*	0	*	0
		15-24	0	*	*	0	*	0	*	*	0	*	*
		25-34	*	*	*	*	*	*	*	*	*	*	*
		35-44	6	8	*	0	*	*	*	6	*	*	7
		45-54	15	20	9	12	9	16	11	13	11	10	16
		55-64	26	19	25	24	29	30	25	25	34	30	32
		65-74	21	29	26	30	33	19	33	26	23	31	32
		75-84	26	21	19	21	20	22	32	31	17	23	37
		85+	12	11	17	13	7	15	12	15	15	10	18
	Female	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	*	0	0	0	*	0	0	0	0	0	0
		5-14	0	0	0	0	*	*	*	0	0	*	*
		15-24	*	*	*	*	0	0	0	0	*	0	*
		25-34	0	*	*	*	*	*	*	*	*	*	*
		35-44	8	9	*	*	6	9	*	6	6	6	8
		45-54	15	17	15	16	10	12	12	17	10	17	15
		55-64	23	29	20	20	27	24	29	24	28	28	32
		65-74	25	37	26	28	27	36	17	37	25	36	32
		75-84	22	15	19	25	20	29	28	31	25	34	23
		85+	11	14	8	13	13	16	12	15	21	26	13

TABLE 11 (continued)

NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Asian or Pacific Islander	Total	<1	0	0	0	0	0	0	0	0	0†	0	0
		1-4	0	0	0†	0	0	0	0	0†	0†	0	0
		5-14	0†	0†	0	0	0†	0	0	0	0	0	0
		15-24	0	0†	0	0†	0	0†	0†	0	0†	0	0†
		25-34	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†	0†
		35-44	8	6	8	0†	8	8	8	0†	7	9	9
		45-54	10	15	13	18	23	9	22	10	20	23	22
		55-64	27	27	32	34	34	20	27	38	54	39	41
		65-74	35	25	30	30	38	35	40	54	41	47	65
		75-84	24	34	28	44	25	46	30	52	48	48	52
		85+	9	7	11	17	15	17	18	22	24	33	35
	Male	<1	0	0	0	0	0	0	0	0	*	0	0
		1-4	0	0	*	0	0	0	0	*	*	0	0
		5-14	*	*	0	0	0	0	0	0	0	0	0
		15-24	0	*	0	0	0	*	0	0	*	0	0
		25-34	0	0	*	*	*	*	*	*	*	*	*
		35-44	7	*	*	0	*	*	*	*	*	*	*
		45-54	*	9	*	10	7	*	10	*	6	11	9
		55-64	17	15	18	15	17	11	16	18	26	17	16
		65-74	20	12	16	17	17	19	16	26	16	22	31
		75-84	13	14	18	18	11	23	14	23	27	27	27
		85+	6	*	*	6	8	10	*	14	*	16	12
	Female	<1	0	0	0	0	0	0	0	0	0	0	0
		1-4	0	0	0	0	0	0	0	0	0	0	0
		5-14	0	0	0	0	*	0	0	0	0	0	0
		15-24	0	*	0	*	0	*	*	0	0	0	*
		25-34	*	*	*	0	*	*	*	*	*	*	*
		35-44	*	*	*	*	*	*	7	*	*	7	6
		45-54	7	6	9	8	16	7	12	6	14	12	13
		55-64	10	12	14	19	17	9	11	20	28	22	25
		65-74	15	13	14	13	21	16	24	28	25	25	34
		75-84	11	20	10	26	14	23	16	29	21	21	25
		85+	*	*	6	11	7	7	14	8	19	17	23

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6. Totals may include records with unknown gender; a data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All groups	Total	<1	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8	**
		1-4	**	**	**	**	**	**	**	**	**	**	**
		5-14	**	**	0.0	**	**	**	**	**	**	**	**
		15-24	0.9	2.2	1.7	1.8	1.1	1.9	2.0	1.6	1.4	1.0	1.9
		25-34	3.9	5.1	4.7	5.4	6.5	6.7	5.9	7.0	5.5	6.9	6.0
		35-44	14.4	20.0	15.8	20.4	19.3	17.3	19.5	18.9	16.0	20.9	18.5
		45-54	61.0	68.3	60.6	62.4	58.7	58.9	55.5	61.4	66.8	58.0	60.9
		55-64	171.1	170.6	160.8	170.3	161.2	156.8	142.4	166.0	168.8	162.8	161.5
		65-74	375.5	376.5	319.3	333.3	333.4	324.3	291.7	317.1	330.7	329.7	326.8
		75-84	940.8	910.4	925.7	954.0	905.1	876.0	788.6	866.8	869.3	886.0	862.6
		85+	3363.4	3341.0	3545.5	3896.6	3697.3	3649.0	3286.6	3506.4	3496.1	3464.3	3460.7
	Male	<1	**	14.9	13.5	13.3	**	**	**	**	**	**	**
		1-4	**	**	**	**	**	0.0	**	**	**	**	**
		5-14	**	**	0.0	**	**	**	0.0	0.0	**	**	**
		15-24	**	1.9	2.4	2.1	**	2.9	2.7	2.0	1.6	1.2	2.8
		25-34	5.3	6.6	7.1	7.5	9.0	8.7	8.5	8.6	7.6	9.7	7.4
		35-44	20.3	28.3	22.3	28.6	25.5	25.1	25.9	25.1	22.2	28.1	25.6
		45-54	93.7	99.3	88.0	90.2	87.8	86.1	78.4	91.1	95.3	84.9	87.7
		55-64	254.0	262.3	248.5	256.9	235.3	243.5	216.0	250.0	251.0	249.4	240.4
		65-74	524.6	518.4	448.3	468.3	470.7	458.7	418.1	437.5	474.5	474.4	459.7
		75-84	1203.6	1129.3	1150.1	1209.7	1124.5	1103.6	1000.1	1077.2	1065.8	1097.5	1090.7
		85+	3627.9	3622.4	3871.4	4342.6	4200.5	4201.5	3630.0	3873.8	3967.4	3830.7	3771.5
	Female	<1	**	**	**	**	**	**	**	**	**	**	**
		1-4	**	**	0.0	**	**	**	**	**	0.0	0.0	**
		5-14	**	**	0.0	**	**	**	**	**	**	0.0	**
		15-24	**	2.5	**	1.4	**	**	1.3	**	**	**	**
		25-34	2.4	3.5	2.1	3.3	3.8	4.5	3.0	5.3	3.2	4.0	4.5
		35-44	8.2	11.4	9.1	12.0	12.9	9.2	13.1	12.7	9.8	13.5	11.2
		45-54	29.0	38.1	34.1	35.3	30.1	32.1	33.0	32.1	38.8	31.5	34.6
		55-64	94.4	85.6	81.2	91.6	94.0	78.3	75.8	90.0	94.5	84.4	89.9
		65-74	243.9	251.2	202.9	211.4	210.8	204.7	178.7	209.8	202.8	201.2	209.1
		75-84	730.3	735.0	738.2	740.3	718.1	680.3	604.1	682.5	697.3	701.3	663.1
		85+	3204.9	3170.9	3358.1	3640.2	3405.9	3324.4	3075.7	3274.9	3189.4	3221.6	3248.3

TABLE 12 (continued)
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
White non-Hispanic	Total	<1	**	**	**	**	0.0	**	**	**	**	**	**
		1-4	**	**	**	0.0	**	**	0.0	0.0	0.0	0.0	**
		5-14	**	**	0.0	**	**	0.0	**	0.0	0.0	**	0.0
		15-24	**	1.5	1.4	2.1	**	1.3	2.1	**	1.7	1.4	2.7
		25-34	3.1	4.2	4.6	5.6	5.5	6.2	6.2	6.6	5.5	6.3	7.3
		35-44	15.6	20.7	18.6	23.4	20.2	18.5	22.0	19.1	17.7	24.4	19.9
		45-54	64.3	70.0	67.5	65.5	66.3	65.7	60.9	69.3	74.5	63.2	64.3
		55-64	169.8	172.1	163.4	177.2	167.9	168.5	152.2	174.9	182.5	168.9	167.3
		65-74	376.5	377.9	324.3	336.2	337.6	325.8	294.1	315.5	333.8	329.1	323.5
		75-84	977.7	918.2	945.5	964.5	912.1	888.1	789.5	879.4	880.2	889.1	870.8
		85+	3449.3	3443.3	3660.6	4027.7	3812.8	3777.4	3437.7	3670.8	3630.8	3618.2	3607.4
	Male	<1	**	**	**	**	0.0	**	**	**	**	0.0	**
		1-4	**	0.0	**	0.0	**	0.0	0.0	0.0	0.0	0.0	**
		5-14	**	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	**	0.0
		15-24	**	**	**	2.7	**	**	2.7	**	**	**	3.7
		25-34	4.0	5.2	6.7	7.4	7.8	9.1	7.8	7.3	6.9	8.9	8.4
		35-44	21.6	31.7	27.2	32.7	27.9	27.6	29.9	25.0	23.5	31.2	28.3
		45-54	101.6	103.8	99.4	94.1	99.6	96.2	86.0	102.3	105.5	94.8	94.0
		55-64	252.9	263.9	251.0	265.0	248.9	259.1	235.4	268.1	274.3	256.4	250.0
		65-74	532.1	526.7	456.9	476.8	478.5	460.4	417.6	440.2	474.2	473.4	452.6
		75-84	1261.6	1154.0	1181.8	1222.3	1137.5	1128.3	994.6	1089.2	1085.5	1103.2	1108.1
		85+	3743.5	3759.4	3964.2	4493.2	4354.2	4339.8	3755.7	4080.6	4110.0	3932.2	3908.5
	Female	<1	**	0.0	**	**	0.0	0.0	0.0	0.0	**	**	**
		1-4	**	**	0.0	0.0	**	**	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	**	0.0	**	**	0.0	**	0.0	0.0	0.0	0.0
		15-24	**	**	**	**	**	**	**	**	**	**	**
		25-34	**	3.2	**	3.7	3.2	3.2	4.6	5.9	4.1	3.6	6.2
		35-44	9.4	9.6	9.5	13.6	12.2	9.0	13.7	12.9	11.7	17.3	11.2
		45-54	28.1	37.3	36.5	37.7	33.5	35.5	36.2	36.5	43.7	31.7	34.6
		55-64	92.9	87.1	83.5	96.9	94.4	86.2	76.6	90.2	99.0	89.2	91.8
		65-74	238.0	245.5	201.9	206.4	209.4	204.0	181.5	202.3	206.7	198.7	207.3
		75-84	751.4	730.3	742.4	742.9	714.6	676.2	605.2	689.6	694.3	695.7	655.9
		85+	3272.0	3251.3	3485.2	3758.7	3496.4	3443.5	3239.3	3407.8	3312.6	3405.6	3396.3

TABLE 12 (continued)
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hispanic or Latino	Total	<1	**	**	**	**	**	0.0	**	**	0.0	**	**
		1-4	**	**	**	**	0.0	**	**	0.0	**	0.0	**
		5-14	**	**	0.0	**	**	**	0.0	**	**	**	**
		15-24	**	3.0	**	**	**	1.9	1.8	**	**	**	**
		25-34	1.8	4.7	5.6	3.9	7.8	4.4	4.7	5.7	3.4	3.9	2.6
		35-44	7.5	12.5	10.4	12.2	14.1	16.0	11.0	14.2	12.2	10.3	11.9
		45-54	44.4	49.7	35.8	45.2	37.8	34.6	39.6	38.5	46.2	37.8	44.9
		55-64	151.2	148.8	139.0	130.2	130.6	113.9	111.7	116.0	106.6	108.7	120.0
		65-74	346.9	359.2	295.8	325.2	280.1	290.7	264.0	317.2	300.4	276.5	279.6
		75-84	809.4	908.8	807.4	910.9	820.5	772.8	800.6	849.4	790.7	838.6	757.1
		85+	3146.4	2797.6	2970.2	3417.6	3102.7	2843.6	2746.7	2579.2	2766.2	2555.7	2867.9
	Male	<1	**	**	**	**	**	0.0	**	**	0.0	**	**
		1-4	**	**	**	**	0.0	0.0	**	0.0	**	0.0	0.0
		5-14	0.0	**	0.0	**	0.0	0.0	0.0	0.0	**	**	**
		15-24	**	**	**	**	**	3.2	**	**	**	**	**
		25-34	**	5.9	8.9	5.5	11.9	4.6	6.9	6.8	6.0	5.2	3.9
		35-44	12.0	18.5	12.8	17.7	15.3	20.2	15.0	21.4	18.2	15.0	17.7
		45-54	68.4	71.2	49.8	68.7	55.1	49.3	57.5	54.2	66.8	53.4	63.6
		55-64	237.6	231.2	219.4	192.3	189.0	183.7	163.6	175.7	152.8	177.3	183.7
		65-74	503.2	478.0	407.3	422.7	401.5	415.6	386.4	423.1	443.0	396.2	416.5
		75-84	1080.9	1056.7	872.2	1145.4	973.2	921.0	1075.9	1070.8	935.2	1016.1	954.7
		85+	3024.4	3029.3	3463.1	3560.8	3314.7	3134.7	3095.6	2417.6	3198.8	3027.0	3140.9
	Female	<1	**	0.0	**	**	**	0.0	**	**	0.0	0.0	**
		1-4	0.0	0.0	0.0	0.0	0.0	**	**	0.0	0.0	0.0	**
		5-14	**	0.0	0.0	0.0	**	**	0.0	**	0.0	0.0	**
		15-24	0.0	**	**	**	**	**	**	0.0	**	0.0	**
		25-34	**	**	**	**	**	4.1	**	4.6	**	**	**
		35-44	**	5.8	8.0	6.9	12.8	11.8	7.1	7.0	6.3	5.5	6.0
		45-54	19.8	27.7	22.2	22.3	20.8	20.0	22.0	23.1	25.9	22.7	26.7
		55-64	68.0	69.4	65.0	73.4	76.6	49.4	64.0	61.4	64.3	46.1	61.7
		65-74	214.0	258.1	203.5	244.6	178.3	185.0	160.6	227.0	178.0	173.1	161.4
		75-84	599.3	794.4	760.0	739.7	705.5	659.7	591.1	683.0	682.4	705.3	607.1
		85+	3217.8	2661.9	2687.4	3335.2	2982.8	2676.9	2542.1	2673.3	2505.3	2271.7	2698.4

TABLE 12 (continued)
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	Total	<1	**	**	0.0	**	0.0	**	0.0	**	**	0.0	**
		1-4	0.0	0.0	0.0	**	0.0	0.0	0.0	**	**	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0
		15-24	0.0	**	**	**	**	**	**	**	**	**	**
		25-34	30.5	17.3	**	14.6	**	26.5	**	12.5	**	13.3	**
		35-44	40.2	45.1	29.7	40.0	47.7	18.5	35.0	51.7	16.6	50.7	26.6
		45-54	89.3	154.0	113.6	115.2	94.7	128.1	102.0	86.8	125.5	93.7	94.0
		55-64	333.8	286.1	289.6	270.5	245.7	231.2	208.8	330.6	310.3	301.6	252.0
		65-74	481.1	580.7	438.4	464.6	552.9	612.6	407.1	534.9	515.6	436.8	435.8
		75-84	607.7	786.9	1326.8	1118.7	1316.2	1227.6	1015.1	970.9	1068.7	896.5	1027.0
		85+	2740.5	2719.9	2713.7	2987.0	3375.0	3827.0	1928.0	3434.5	3639.8	3308.7	3262.6
	Male	<1	**	0.0	0.0	**	0.0	**	0.0	**	**	0.0	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0
		15-24	0.0	**	**	0.0	**	**	**	**	**	0.0	**
		25-34	41.8	**	**	**	**	**	**	**	**	**	**
		35-44	54.3	44.1	34.9	44.5	63.5	34.1	33.3	45.9	**	69.6	25.2
		45-54	73.9	177.0	138.0	141.9	136.0	172.4	118.7	123.2	183.8	129.4	112.2
		55-64	448.8	422.7	379.5	434.3	295.5	363.2	254.2	378.3	418.6	385.6	292.1
		65-74	505.5	663.3	519.6	567.2	627.1	853.6	557.1	645.8	722.7	572.2	523.7
		75-84	565.2	747.8	1955.2	1493.9	1364.6	1578.0	1211.9	1229.9	1229.8	1057.4	1191.2
		85+	2652.1	1860.5	3296.7	5285.4	3885.9	4941.0	2500.0	3724.9	3355.7	3897.7	3337.2
	Female	<1	0.0	**	0.0	**	0.0	**	0.0	0.0	0.0	0.0	**
		1-4	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	0.0	0.0	**	**	**	0.0	**	0.0	**	0.0
		25-34	**	**	**	**	**	32.0	0.0	**	**	**	**
		35-44	**	46.4	**	34.7	**	0.0	37.0	58.3	**	29.4	28.2
		45-54	107.1	127.4	86.4	85.4	48.6	78.4	83.6	46.1	61.6	54.5	74.2
		55-64	216.8	147.1	196.5	100.9	194.4	96.6	162.2	281.5	198.6	215.1	210.4
		65-74	454.4	490.3	365.0	372.6	485.8	394.3	271.4	432.3	325.7	312.1	357.5
		75-84	662.1	836.8	856.5	838.0	1278.0	945.4	853.5	758.0	935.6	765.1	899.9
		85+	2793.3	3231.8	2453.4	1968.1	3149.1	3333.1	1652.9	3279.9	3791.1	2981.0	3221.7

TABLE 12 (continued)
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
American Indian or Alaska Native	Total	<1	0.0	**	**	**	0.0	**	0.0	0.0	0.0	**	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	**	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		15-24	**	**	**	**	**	**	**	**	11.8	0.0	**
		25-34	**	**	**	**	**	**	12.0	20.2	17.4	21.0	20.4
		35-44	15.5	41.7	19.0	26.9	32.3	18.7	41.0	31.8	34.3	39.3	49.6
		45-54	77.0	76.2	82.0	64.8	57.8	62.8	44.0	100.2	70.9	102.9	94.6
		55-64	208.7	194.1	196.7	160.4	141.5	134.9	94.0	151.4	164.0	161.4	155.5
		65-74	419.6	331.4	339.5	331.6	354.3	300.9	365.4	315.6	387.4	383.7	418.3
		75-84	579.0	863.9	811.7	922.0	965.6	879.5	733.8	727.8	1005.8	1073.7	743.8
		85+	1787.9	1936.5	2917.3	1620.8	2177.7	2443.4	1772.8	1923.9	2374.4	2535.4	2028.5
	Male	<1	0.0	**	**	**	0.0	0.0	0.0	0.0	0.0	**	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	**	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		15-24	**	**	**	**	**	**	**	**	0.0	0.0	**
		25-34	**	**	**	**	**	**	23.2	31.0	25.8	33.3	36.2
		35-44	**	40.6	33.3	36.1	44.0	**	52.0	47.6	53.1	46.4	68.3
		45-54	120.1	107.6	120.4	105.7	81.1	98.1	67.7	174.9	88.0	156.5	125.4
		55-64	262.2	286.5	352.0	253.9	189.9	222.5	113.2	195.9	220.7	227.7	219.1
		65-74	430.8	461.3	460.7	505.2	449.6	360.1	588.0	413.4	625.3	522.8	493.4
		75-84	426.1	1132.3	848.2	988.6	1401.2	857.6	987.6	909.7	1341.4	1561.5	833.6
		85+	2300.2	1800.7	3167.4	1224.5	2183.3	3651.2	2890.2	2291.0	2957.3	3771.7	2158.3
	Female	<1	0.0	**	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		15-24	0.0	**	0.0	**	**	**	**	**	0.0	0.0	0.0
		25-34	**	0.0	0.0	**	**	0.0	0.0	**	**	**	**
		35-44	**	42.7	**	**	**	**	30.1	**	**	32.6	32.1
		45-54	39.6	49.0	48.0	27.5	36.6	31.1	**	33.5	55.8	55.4	67.2
		55-64	161.1	111.7	64.7	78.7	101.1	61.9	77.7	115.8	118.4	107.9	104.0
		65-74	410.7	229.0	244.8	193.9	278.5	253.1	186.6	239.3	202.9	276.3	359.0
		75-84	693.9	662.8	786.7	875.6	661.3	895.2	551.0	602.6	777.1	745.1	683.5
		85+	1519.9	2007.5	2777.8	1844.7	2174.6	1801.6	1175.0	1712.8	2044.6	1822.5	1953.8

TABLE 12 (continued)
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNICITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Asian or Pacific Islander	Total	<1	0.0	0.0	**	0.0	0.0	**	0.0	0.0	0.0	**	0.0
		1-4	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25-34	**	**	0.0	**	0.0	**	**	0.0	**	**	0.0
		35-44	**	**	**	**	**	**	**	**	**	**	16.0
		45-54	**	37.4	**	42.1	**	**	22.1	19.8	18.8	24.0	33.8
		55-64	60.3	74.9	74.7	99.7	85.0	50.3	52.5	75.5	71.0	60.8	72.8
		65-74	212.1	223.8	211.8	112.5	216.3	181.9	128.5	137.5	128.4	222.0	215.9
		75-84	478.2	698.5	653.9	513.8	564.9	559.5	514.4	482.9	512.5	530.2	725.9
		85+	1509.1	2397.6	2131.8	2071.6	2420.1	2313.2	1298.7	2180.3	2229.1	2385.3	1655.2
	Male	<1	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25-34	**	**	0.0	**	0.0	**	**	0.0	**	**	0.0
		35-44	**	**	**	**	**	**	**	**	**	**	**
		45-54	**	73.6	**	59.5	**	**	41.3	**	**	**	56.1
		55-64	**	145.4	130.6	166.8	105.4	**	95.2	151.5	120.6	126.5	144.7
		65-74	281.7	248.6	380.4	170.2	394.7	303.0	209.0	164.5	187.2	326.4	367.4
		75-84	573.5	925.3	990.1	828.9	735.5	720.5	610.7	558.2	423.4	419.2	676.1
		85+	1917.8	2173.9	2754.8	2156.3	2657.7	2209.8	1063.8	2792.3	2457.8	3026.3	2259.9
	Female	<1	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0
		35-44	**	0.0	**	0.0	0.0	0.0	0.0	**	**	0.0	**
		45-54	**	**	0.0	**	0.0	**	**	**	**	32.9	**
		55-64	**	**	**	55.3	71.2	51.1	**	**	**	**	**
		65-74	160.9	205.6	**	**	94.8	101.1	75.3	119.7	89.7	153.4	120.4
		75-84	416.7	552.0	437.7	308.5	452.0	451.4	448.1	428.7	575.7	611.0	761.2
		85+	1271.9	2527.6	1793.7	2026.0	2294.7	2368.7	1424.5	1868.3	2112.7	2042.3	1319.1

Notes: ** cell suppressed due to rate based on non-zero count less than 6; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All groups	Total	<1	**	0.0	**	**	**	**	**	**	**	**	**
		1-4	3.2	2.2	2.4	1.6	2.0	3.7	2.6	2.0	1.7	2.5	2.3
		5-14	1.8	2.6	1.9	2.3	2.8	1.7	2.2	0.8	1.3	2.3	2.5
		15-24	4.5	3.7	3.4	3.5	3.0	3.3	4.5	3.4	3.4	2.3	2.8
		25-34	8.0	8.2	10.0	7.2	10.3	10.2	6.8	7.7	7.5	8.2	8.0
		35-44	22.9	24.8	21.8	24.9	25.9	27.2	22.9	24.9	26.5	24.7	25.0
		45-54	86.8	91.6	92.9	92.1	93.6	89.8	83.3	87.5	77.4	81.0	85.2
		55-64	270.0	265.7	260.8	263.7	266.8	270.0	238.1	258.4	259.9	243.9	238.0
		65-74	606.5	620.8	553.3	559.7	557.2	546.4	513.9	533.6	528.0	513.9	487.8
		75-84	954.5	934.9	1048.0	1067.3	1018.3	1029.6	934.7	1008.5	941.0	934.9	936.8
		85+	1377.1	1463.1	1671.2	1627.4	1611.7	1610.0	1461.6	1509.7	1571.6	1459.4	1508.7
	Male	<1	**	0.0	**	**	**	0.0	0.0	**	**	0.0	**
		1-4	**	**	**	**	**	5.0	**	3.4	**	3.3	**
		5-14	2.5	3.5	1.5	1.5	2.8	1.5	2.1	**	1.5	1.9	2.3
		15-24	4.9	4.2	3.4	3.2	3.8	3.5	5.1	3.9	3.1	2.2	4.0
		25-34	9.1	7.0	10.7	6.6	8.8	11.2	6.6	8.0	7.2	9.9	6.6
		35-44	20.5	21.2	19.7	19.3	20.8	20.9	18.5	23.9	20.5	20.1	19.0
		45-54	94.4	94.3	89.4	95.7	97.7	88.5	79.1	89.7	78.8	82.6	86.0
		55-64	301.6	298.2	307.6	296.0	312.1	309.6	275.3	293.4	298.0	285.0	273.4
		65-74	724.8	727.1	647.7	659.2	665.5	632.2	605.0	630.6	637.8	614.5	589.9
		75-84	1187.5	1167.8	1309.0	1310.0	1250.5	1227.6	1129.0	1174.2	1118.0	1115.1	1148.5
		85+	1793.4	1955.3	2247.1	2171.3	2217.1	2150.1	1973.8	2005.0	2080.5	1872.5	1991.0
	Female	<1	**	0.0	**	0.0	**	**	**	0.0	**	**	**
		1-4	4.1	**	**	**	**	**	4.7	**	**	**	**
		5-14	**	1.5	2.3	3.1	2.9	2.0	2.2	**	**	2.7	2.6
		15-24	4.2	3.2	3.4	3.9	2.3	3.1	3.7	2.8	3.7	2.4	1.5
		25-34	6.8	9.5	9.3	7.8	11.8	9.2	7.0	7.3	7.9	6.4	9.5
		35-44	25.5	28.7	23.9	30.5	31.2	33.7	27.3	25.9	32.5	29.5	31.1
		45-54	79.4	88.9	96.3	88.5	89.6	91.1	87.4	85.3	75.9	79.5	84.5
		55-64	240.7	235.5	218.3	234.4	225.7	234.0	204.5	226.9	225.4	206.8	205.9
		65-74	502.1	526.5	468.2	469.8	460.6	470.0	432.3	447.1	430.4	424.6	397.5
		75-84	767.8	748.3	829.8	864.4	820.4	859.5	765.2	863.4	786.2	777.6	751.8
		85+	1127.8	1168.2	1340.2	1314.8	1261.0	1292.7	1146.8	1197.5	1240.5	1185.8	1179.1

TABLE 13 (continued)
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
White non-Hispanic	Total	<1	**	0.0	**	**	**	0.0	0.0	**	0.0	0.0	**
		1-4	**	**	**	**	**	**	**	**	**	**	4.2
		5-14	2.3	1.4	**	1.5	2.0	1.7	3.1	**	**	2.4	2.6
		15-24	4.3	2.3	3.8	3.4	3.2	2.5	4.2	2.8	2.4	1.7	2.9
		25-34	8.4	8.0	9.6	6.3	10.4	8.2	5.1	7.7	8.1	8.9	9.7
		35-44	23.4	23.8	24.8	26.7	27.3	26.7	26.9	26.5	28.7	26.2	26.3
		45-54	90.5	99.2	103.7	98.0	101.2	97.4	94.5	93.4	80.5	83.2	89.8
		55-64	278.8	273.3	274.2	279.0	281.1	290.0	252.4	275.3	281.1	256.3	251.8
		65-74	631.8	644.6	579.0	583.8	580.4	569.6	531.0	554.5	554.2	532.7	502.7
		75-84	986.6	953.7	1088.0	1087.0	1050.2	1041.9	949.7	1028.6	973.9	960.3	949.2
		85+	1402.0	1501.3	1709.0	1633.7	1637.0	1634.0	1491.0	1570.4	1594.1	1503.1	1531.8
	Male	<1	**	0.0	0.0	**	**	0.0	0.0	**	0.0	0.0	**
		1-4	0.0	**	**	**	**	**	0.0	**	0.0	**	**
		5-14	3.6	**	0.0	**	2.9	**	**	**	**	**	**
		15-24	5.0	2.9	3.7	3.1	3.9	2.6	5.0	3.2	**	**	3.3
		25-34	10.1	6.8	10.8	6.6	7.8	7.8	4.7	7.7	9.0	11.8	7.1
		35-44	20.5	20.6	22.9	22.5	21.0	21.6	25.5	23.6	25.3	22.6	20.2
		45-54	103.4	101.7	101.2	100.7	109.7	94.7	88.7	99.6	76.5	93.2	90.0
		55-64	310.4	311.9	323.6	308.6	324.7	336.6	291.1	314.6	315.3	299.9	294.4
		65-74	745.5	754.5	678.1	685.1	682.7	665.1	620.9	649.5	661.8	631.2	606.3
		75-84	1221.7	1189.3	1345.3	1320.4	1282.3	1238.5	1136.6	1173.7	1146.0	1135.7	1140.1
		85+	1840.1	2014.7	2281.7	2177.7	2233.3	2200.3	2020.7	2046.3	2093.5	1956.5	2017.5
	Female	<1	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	**	**	**	**	**	**	**	**	**	**	**
		5-14	**	**	**	**	**	**	3.7	**	**	**	**
		15-24	3.5	**	3.9	3.8	**	**	3.4	**	**	**	**
		25-34	6.6	9.3	8.5	6.0	13.1	8.6	5.5	7.7	7.2	5.8	12.4
		35-44	26.5	27.0	26.7	31.3	33.8	32.1	28.4	29.6	32.2	29.9	32.5
		45-54	77.9	96.7	106.0	95.4	92.9	100.0	100.2	87.2	84.6	73.3	89.5
		55-64	249.6	237.5	229.1	252.0	241.4	247.7	217.2	239.6	250.1	216.6	212.8
		65-74	530.6	546.8	487.5	490.3	487.3	483.1	449.0	468.4	456.8	443.8	409.4
		75-84	799.2	766.0	867.1	886.5	846.8	868.4	781.8	897.2	818.1	801.9	776.3
		85+	1138.2	1192.1	1378.0	1319.3	1288.4	1297.9	1160.7	1265.1	1262.5	1196.0	1191.2

TABLE 13 (continued)
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hispanic or Latino	Total	<1	**	0.0	**	0.0	0.0	**	**	0.0	**	**	**
		1-4	4.6	**	**	**	**	6.7	**	**	**	**	**
		5-14	**	4.1	3.5	3.5	3.4	2.0	1.9	**	1.7	2.5	2.7
		15-24	5.0	5.9	2.7	4.3	3.4	3.9	6.5	4.2	4.9	2.8	2.7
		25-34	9.0	8.6	10.5	9.5	8.8	11.1	9.3	6.4	6.9	7.2	6.9
		35-44	20.2	23.5	20.0	25.1	22.8	27.1	17.8	22.3	23.7	21.9	18.5
		45-54	73.7	69.1	77.0	78.0	79.2	74.5	62.2	79.8	74.1	72.3	71.6
		55-64	202.6	235.1	210.3	209.6	200.6	218.8	205.5	210.2	182.8	179.7	182.1
		65-74	518.5	517.7	452.3	440.0	415.6	438.2	452.6	415.8	402.1	404.7	403.8
		75-84	819.4	869.0	863.6	1016.0	919.5	949.2	933.0	935.8	780.0	785.4	912.8
		85+	1261.0	1273.8	1503.1	1564.4	1572.2	1421.8	1373.4	1075.4	1452.8	1165.4	1339.7
	Male	<1	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		1-4	**	**	**	**	**	10.5	0.0	**	**	**	**
		5-14	**	6.5	3.2	**	**	**	**	**	**	**	**
		15-24	6.3	6.2	**	4.7	4.4	4.3	7.4	4.6	4.0	**	5.3
		25-34	9.3	6.5	8.9	7.6	8.6	14.4	9.7	6.8	4.8	6.9	6.1
		35-44	17.2	20.0	17.6	17.9	17.6	20.2	10.3	22.8	14.7	16.4	15.1
		45-54	75.2	73.4	79.0	85.1	73.1	72.6	64.5	76.7	88.8	66.3	71.9
		55-64	224.7	248.2	236.1	272.6	253.7	234.0	252.7	237.1	229.8	210.9	202.1
		65-74	683.5	656.7	491.8	526.5	533.1	478.1	535.3	530.2	532.6	491.6	486.3
		75-84	1088.5	1193.6	1054.9	1411.0	1173.8	1167.1	1211.3	1252.5	953.7	986.5	1171.1
		85+	1463.4	1482.4	2110.8	2242.0	2392.4	1700.2	1857.4	1626.4	2145.5	1450.1	1799.7
	Female	<1	**	0.0	**	0.0	0.0	**	**	0.0	**	**	**
		1-4	**	**	0.0	0.0	0.0	**	**	0.0	**	**	**
		5-14	**	**	3.8	4.4	4.8	**	**	0.0	**	3.0	3.0
		15-24	**	5.6	**	3.8	**	3.5	5.5	3.8	5.8	3.1	0.0
		25-34	8.6	11.1	12.1	11.4	9.1	7.6	8.9	5.9	9.1	7.6	7.8
		35-44	23.5	27.5	22.3	29.2	27.9	33.9	25.2	21.8	32.7	27.4	22.0
		45-54	72.2	64.7	75.1	71.2	85.2	76.4	59.9	82.8	59.7	78.1	71.3
		55-64	181.3	222.6	186.5	152.0	151.6	204.7	162.1	185.6	139.8	151.2	163.7
		65-74	378.1	396.0	419.7	368.5	317.0	404.4	382.7	318.3	290.0	329.7	332.5
		75-84	611.1	617.8	723.5	727.5	727.9	783.0	721.3	697.7	649.9	634.3	716.7
		85+	1142.4	1151.6	1154.4	1174.9	1108.4	1262.4	1089.5	754.7	1035.1	993.9	1054.1

TABLE 13 (continued)
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Black or African American	Total	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	0.0	0.0	**	**	**	0.0	0.0	0.0	0.0	**	0.0
		5-14	**	**	**	**	**	0.0	0.0	0.0	0.0	0.0	**
		15-24	**	0.0	**	**	**	**	0.0	**	0.0	**	**
		25-34	**	**	**	**	**	14.5	**	**	**	**	**
		35-44	21.4	37.2	16.2	34.6	37.1	29.0	26.3	32.0	33.2	25.3	42.2
		45-54	122.3	81.9	90.3	118.1	106.2	125.2	84.6	95.0	80.1	104.1	96.5
		55-64	492.2	342.1	395.3	329.1	399.7	302.9	264.4	305.7	306.9	381.9	318.8
		65-74	603.7	702.4	675.9	687.9	791.1	708.1	664.9	693.4	782.5	649.6	551.4
		75-84	594.5	878.7	1306.4	898.9	1052.9	1408.2	905.8	909.2	1127.2	1005.2	949.0
		85+	1166.2	1273.1	1696.1	2077.9	1455.9	1913.5	1319.1	1443.5	1633.2	1131.9	1876.0
	Male	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	**	0.0
		5-14	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	**
		15-24	**	0.0	0.0	0.0	0.0	**	0.0	**	0.0	0.0	**
		25-34	0.0	**	**	0.0	**	**	**	**	**	**	**
		35-44	**	29.4	**	**	44.0	**	**	32.1	**	**	**
		45-54	86.2	54.9	55.2	120.1	125.2	134.7	61.7	82.1	86.8	54.7	92.7
		55-64	516.2	356.0	460.8	274.8	443.3	300.0	240.4	294.2	358.8	410.9	316.0
		65-74	686.0	663.3	866.1	737.4	1057.1	786.6	785.6	838.1	938.3	829.1	646.3
		75-84	683.0	841.3	2050.5	1027.1	1236.7	1658.9	1004.2	1161.6	1456.3	1148.0	1489.0
		85+	936.0	2325.6	1758.2	2325.6	1943.0	2148.3	1718.8	2005.7	2550.3	**	2531.6
	Female	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	0.0	0.0	**	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	**	**	**	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	**	0.0	**	**	**	**	0.0	**	0.0	**	0.0
		25-34	**	0.0	**	**	**	**	**	**	**	0.0	0.0
		35-44	**	46.4	**	63.7	**	45.9	46.2	31.8	45.9	29.4	70.5
		45-54	164.2	113.2	129.5	115.9	85.1	114.6	109.8	109.4	72.8	158.1	100.7
		55-64	467.8	328.1	327.4	385.3	354.9	305.9	289.1	317.6	253.4	352.0	321.8
		65-74	513.6	745.2	504.1	643.6	550.6	637.0	555.7	559.4	639.7	484.2	466.7
		75-84	481.5	926.5	749.5	803.1	908.0	1206.2	825.0	701.9	855.4	888.5	530.7
		85+	1303.5	646.4	1668.3	1968.1	1240.6	1809.4	1127.0	1144.2	1144.5	1422.8	1516.1

TABLE 13 (continued)
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
American Indian or Alaska Native	Total	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	**	0.0	0.0	0.0	**	0.0	**	**	0.0	0.0	0.0
		5-14	0.0	**	**	**	**	**	**	**	0.0	**	**
		15-24	**	**	**	**	**	0.0	**	**	**	**	**
		25-34	**	13.5	13.8	**	17.6	19.4	**	17.9	**	**	**
		35-44	31.0	37.3	**	**	24.2	37.4	12.9	34.7	25.7	30.9	41.4
		45-54	79.6	97.2	67.9	67.2	52.3	76.5	53.3	88.4	62.1	79.4	91.7
		55-64	208.7	202.5	196.7	168.0	220.1	202.4	175.0	185.5	226.0	203.5	216.4
		65-74	351.0	497.1	420.3	418.1	442.9	384.9	304.5	423.1	304.8	401.7	366.8
		75-84	731.4	545.6	656.3	718.9	622.9	760.3	800.5	884.8	570.9	746.4	743.8
		85+	956.3	1030.1	1350.6	1277.0	967.9	1402.7	967.0	1254.7	1424.6	1342.3	1164.5
	Male	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	**	0.0	0.0	0.0	**	0.0	**	**	0.0	0.0	0.0
		5-14	0.0	**	**	**	**	0.0	0.0	**	0.0	**	0.0
		15-24	0.0	**	**	0.0	**	0.0	**	**	0.0	**	**
		25-34	**	**	**	**	**	**	**	**	**	**	**
		35-44	27.3	36.1	**	0.0	**	**	**	35.7	**	**	39.9
		45-54	85.8	113.2	54.2	60.4	52.2	92.4	53.2	81.2	69.2	62.6	100.3
		55-64	235.1	170.1	237.8	196.6	250.3	247.3	176.8	212.9	277.9	235.5	241.8
		65-74	361.9	495.5	479.2	488.9	549.5	297.4	451.3	398.1	334.4	426.5	415.5
		75-84	923.3	743.1	805.8	798.5	757.4	786.1	1019.4	1084.7	570.1	748.2	1142.3
		85+	1452.8	1320.5	2564.1	1768.7	955.2	1956.0	1387.3	1718.2	1642.9	1019.4	1849.9
	Female	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	**	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	**	**	**	0.0	0.0	**	**
		15-24	**	**	**	**	0.0	0.0	0.0	0.0	**	0.0	**
		25-34	0.0	**	**	**	**	**	**	**	**	**	**
		35-44	34.5	38.5	**	**	31.5	47.1	**	33.8	33.2	32.6	42.8
		45-54	74.3	83.4	80.0	73.5	52.4	62.2	53.3	94.8	55.8	94.2	83.9
		55-64	185.3	231.4	161.7	143.1	194.9	165.0	173.4	163.5	184.2	177.7	195.8
		65-74	342.3	498.5	374.4	362.0	358.1	455.6	186.6	442.6	281.8	382.5	328.2
		75-84	587.1	397.7	553.6	663.3	529.0	741.7	642.8	747.2	571.4	745.1	476.4
		85+	696.6	878.3	673.4	999.2	974.8	1108.7	742.1	988.1	1301.1	1528.5	769.7

TABLE 13 (continued)
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNICITY, GENDER, AGE GROUP,
AND YEAR, ARIZONA, 2008-2018

			2008 ^a	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Asian or Pacific Islander	Total	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		1-4	0.0	0.0	**	0.0	0.0	0.0	0.0	**	**	0.0	0.0
		5-14	**	**	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	**	0.0	**	0.0	**	**	0.0	**	0.0	**
		25-34	**	**	**	**	**	**	**	**	**	**	**
		35-44	26.9	20.0	23.5	**	22.5	21.7	18.3	**	16.5	21.4	20.6
		45-54	47.1	70.0	51.7	68.9	87.8	32.9	69.3	32.9	62.6	69.0	61.9
		55-64	203.7	202.1	184.0	188.4	180.6	100.5	118.1	168.8	225.6	158.1	157.0
		65-74	463.9	329.2	317.6	306.9	357.3	303.1	302.4	390.7	277.2	289.9	369.3
		75-84	675.1	950.0	678.1	1027.6	523.1	887.5	497.8	810.1	702.9	652.5	662.3
		85+	905.4	699.3	1065.9	1600.8	1251.8	1310.8	1113.2	1296.4	1244.2	1513.8	1413.0
	Male	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0
		1-4	0.0	0.0	**	0.0	0.0	0.0	0.0	**	**	0.0	0.0
		5-14	**	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	**	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0
		25-34	0.0	0.0	**	**	**	**	**	**	**	**	**
		35-44	50.0	**	**	0.0	**	**	**	**	**	**	**
		45-54	**	94.6	**	84.9	58.4	**	68.9	**	41.2	73.0	56.1
		55-64	311.1	272.6	261.2	208.5	224.1	134.9	169.2	194.8	261.4	165.5	144.7
		65-74	626.0	372.9	405.8	413.4	394.7	411.2	304.0	475.2	272.2	341.9	455.5
		75-84	931.9	996.4	1113.9	1065.7	577.9	1104.7	570.0	856.0	952.7	870.7	829.7
		85+	1643.8	**	**	1617.3	1932.9	2209.8	**	2443.3	**	2105.3	1355.9
	Female	<1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5-14	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0
		15-24	0.0	**	0.0	**	0.0	**	**	0.0	0.0	0.0	**
		25-34	**	**	**	0.0	**	**	**	**	**	**	**
		35-44	**	**	**	**	**	**	30.3	**	**	31.6	26.1
		45-54	59.3	50.4	64.9	55.8	112.6	47.3	69.8	36.4	80.5	65.8	66.8
		55-64	128.3	152.8	133.3	175.1	151.2	76.6	82.1	150.7	200.2	152.8	166.1
		65-74	344.8	297.0	254.5	229.6	331.8	231.0	301.3	335.3	280.4	255.6	314.9
		75-84	509.3	920.0	397.9	1002.7	486.8	741.6	448.1	777.1	525.7	493.5	543.7
		85+	**	**	896.9	1591.9	892.4	829.0	1329.5	711.7	1486.7	1197.2	1444.7

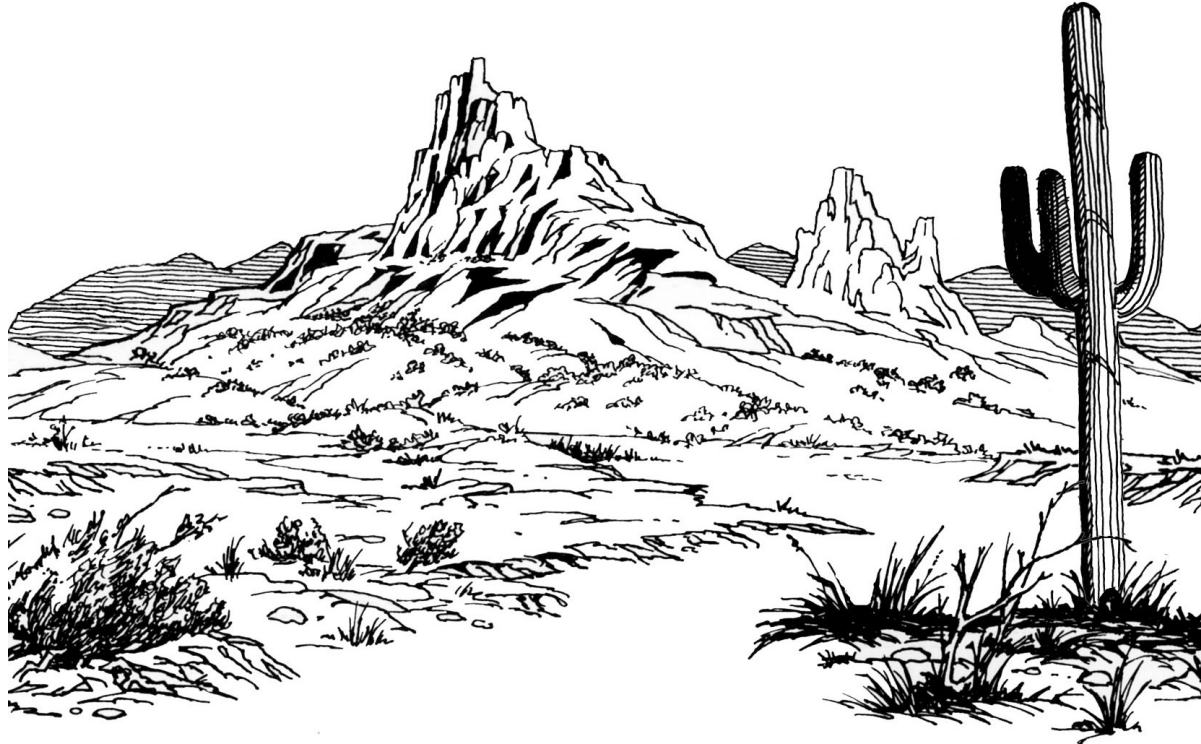
Notes: ** cell suppressed due to rate based on non-zero count less than 6; ^a Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 14
RATES^a OF INPATIENT DISCHARGES WITH HEART DISEASE OR MALIGNANT NEOPLASMS (CANCER)
AS FIRST-LISTED DIAGNOSIS BY GENDER AND YEAR, ARIZONA RESIDENTS, 2008-2018

Year	Diseases of the heart	Malignant neoplasms (Cancer)	Diseases of the heart		Malignant neoplasms (Cancer)	
			M	F	M	F
2008	103.0	32.6	118.1	87.8	32.4	32.8
2009	100.2	31.8	114.4	86.1	31.7	31.9
2010	99.4	32.2	113.9	85.1	32.2	32.2
2011	94.0	30.7	108.5	79.7	31.1	30.3
2012	88.3	29.8	103.0	73.6	30.3	29.3
2013	80.3	27.7	93.6	67.1	28.9	26.5
2014	79.1	26.6	92.5	65.9	28.5	24.6
2015	80.8	25.8	94.0	67.7	27.6	24.1
2016	79.5	26.2	93.3	65.9	28.8	23.7
2017	79.4	25.5	91.9	67.0	28.2	22.9
2018	85.1	25.3	100.0	70.2	27.4	23.2

Note: ^a The number of discharges per 10,000 population in specified group.

Our Web site at <http://pub.azdhs.gov/health-stats> provides access to a wide range of statistical information about the health status of Arizonans. The Arizona Health Status and Vital Statistics annual report examines trends in natality, mortality, and morbidity towards established health objectives. Additional reports and studies include Advance Vital Statistics by County of Residence, Injury Mortality among Arizona Residents (accidents, suicides, homicides, legal intervention, firearm-related fatalities, drug-related deaths, drowning deaths, falls among Arizonans 65 years or older), Hospital Inpatient and Emergency Room Statistics (first-listed diagnosis, procedures, mental disorders, asthma, diabetes, influenza and pneumonia, and substance abuse), Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, and Health Status Profile of American Indians in Arizona.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Bureau of Public Health Statistics
Population Health and Vital Statistics Section