Heart Disease vs. Cancer:

An Epidemiologic Transition in Mortality Risks

Arizona Residents, 2007-2017

ARIZONA DEPARTMENT OF HEALTH SERVICES

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ARIZONA DEPARTMENT OF HEALTH SERVICES
BUREAU OF PUBLIC HEALTH STATISTICS
POPULATION HEALTH AND VITAL STATISTICS SECTION
150 North 18th Avenue, Suite 550
Phoenix, Arizona 85007
Phone: 602-542-7333; FAX: 602-542-2940
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An Epidemiologic Transition in Mortality Risks
Arizona Residents, 2007-2017

by
Marguerite L. S. Kemp, Ph.D., ***Arizona Vital Statistician***
Yan Huang, M.S., ***Vital Statistics Health Management Analyst***
Clare Torres, ***Senior Health Data Analyst***

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PURPOSE

The purpose of our report is to provide Arizona-specific evidence of the epidemiologic transition[1] 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 1900[2], 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 and 2017, 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.

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[1] Abdel 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 colon, rectum and anus, malignant neoplasms of liver and intrahepatic bile ducts, malignant neoplasm of pancreas, malignant neoplasm of larynx, malignant neoplasm 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 kidney and renal pelvis, malignant neoplasm of bladder, malignant neoplasm 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 2007-2017, as well as hospitalization rates for 1995-2017, 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 1990-2017 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 1900-2017 (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 2007-2017, with heart disease or cancer as the primary diagnoses.

SUMMARY OF FINDINGS

√ The age-adjusted cancer mortality rate declined by 0.1 percent from 148.0 deaths per 100,000 population in 2007 to 136.6 per 100,000 population in 2017. The age-adjusted mortality rate for diseases of the heart decreased by 14.6 percent – 1.9 times the decline in cancer mortality rates – from 166.1 deaths per 1000,000 population in 1980 to 141.9/100,000 in 2017. In Arizona, the relative risk of death from the two leading causes narrowed from 1.0 percent greater for heart disease in 2007 to 3.9 percent greater in 2017.

√ In 2007, 192 more Arizonans died from diseases of the heart than cancer. In 2017, the number of deaths from heart disease exceeded the number of cancer deaths by 368.

√ During the 2007-2017 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 2007, the annual number of cancer deaths exceeded the number of deaths from heart disease by 1,944. In 2017, 2,392 more Arizonans 0-84 years old died from cancer (9,908) than heart disease (7,516).

√ 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 2017, the elderly aged 85 years or older accounted for 16.9 percent of all deaths from cancer but 38.8 percent of all deaths from heart disease. In 2017, the median age at death from heart disease was 80 years (85 years among females, 77 years among males) and only a minority of deaths (53.3 percent among males; 33.1 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 2017).

√ 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 2017.

√ 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).

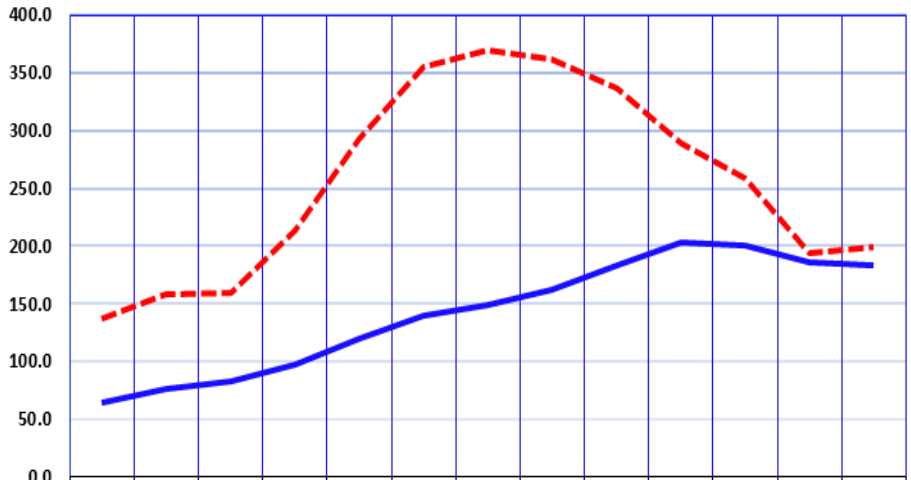
Figure 1 provides the crude death rates (the number of death from a specific cause per 100,000 resident population) for the entire United States. From years 1900 and every 10 years until 1970 the risk of death from diseases of the heart was more than 2 times greater than the risk of death from cancer; 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. In 2017, while the crude mortality rate for cancer has decreased, crude death rate for diseases of the heart has seen an increase.

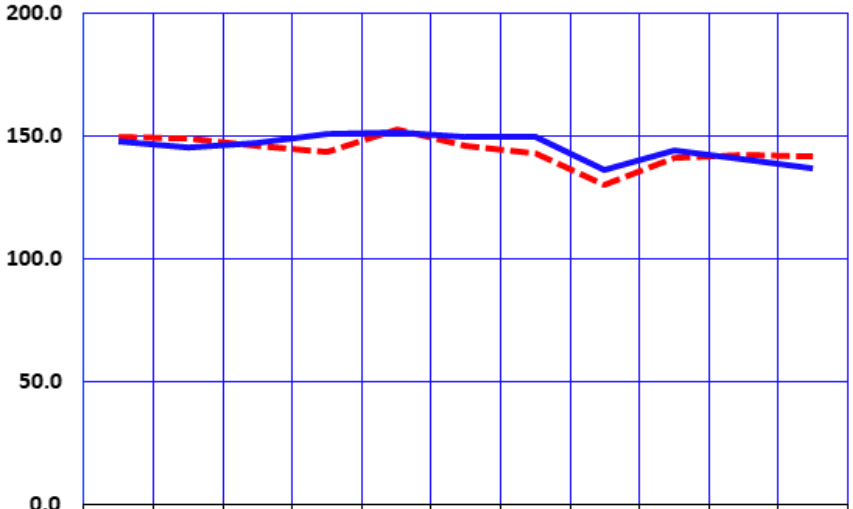
FIGURE 1
CRUDE MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), UNITED STATES, 1900-2017



	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	2017
Heart disease	137.4	158.9	159.6	214.2	292.5	355.5	369.0	362.0	336.0	289.5	258.2	193.6	198.8
Cancer	64.0	76.2	83.4	97.4	120.3	139.8	149.2	162.8	183.9	203.2	200.9	186.2	183.9

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*** .
Deaths: Leading causes for 2016 https://www.cdc.gov/nchs/data/nvsr/nvsr67/nvsr67_06.pdf
Deaths: Leading causes for 2017 https://www.cdc.gov/nchs/data/nvsr/nvsr68/nvsr68_06-508.pdf

FIGURE 2
AGE-ADJUSTED[a] MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	149.5	149.3	145.9	143.3	152.7	145.8	143.0	129.9	141.3	142.5	141.9
Cancer	148.0	145.5	147.2	150.5	151.3	149.8	149.6	136.3	144.0	140.7	136.6

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

All mortality rates for 2007-2017 in **Figure 2 – Figure 12** are not only age-adjusted but also Arizona specific.

In 2007, the mortality rate for diseases of the heart (149.5 deaths per 100,000 population) exceeded by 1.0 percent the cancer death rate of 148.0/100,000; in 2008 the mortality rate for diseases of the heart (149.3 deaths per 100,000 population) exceeded by 2.6 percent the cancer death rate of 145.5. (**Table 1, Figure 2**).

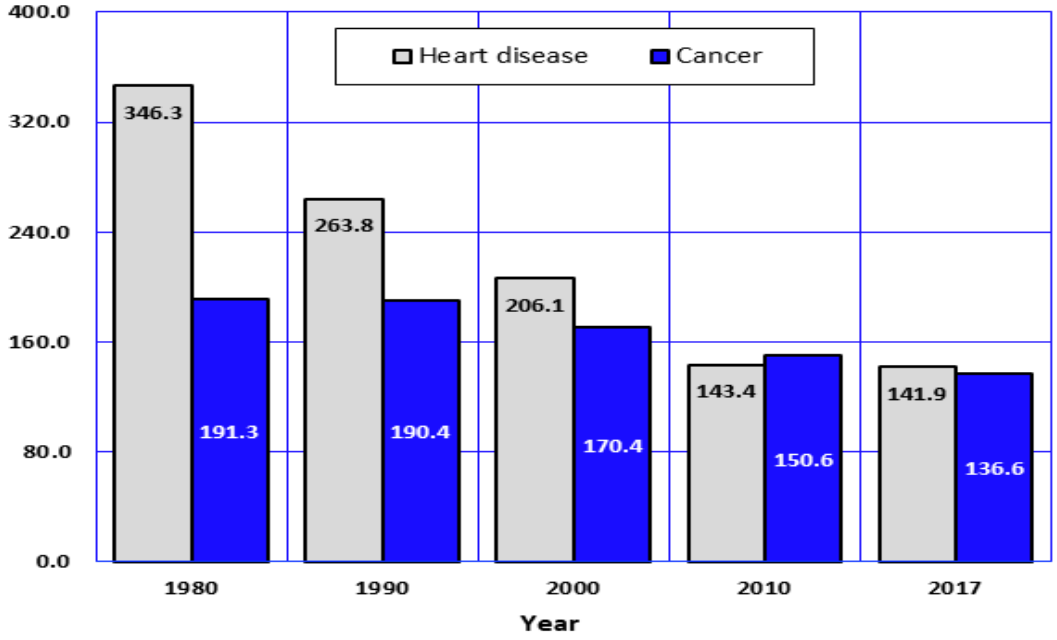
In 2009, a crossover occurred, causing the cancer death rate to surpass the heart disease mortality rate for two consecutive years. In 2011, heart disease mortality rate slightly peaked, then again declined from 2012-2015, making cancer the leading cause of death for four consecutive years. In 2016 and 2017, however cancer mortality was lower than heart disease mortality risk.

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 2017, heart disease surpassed cancer by 3.9 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.

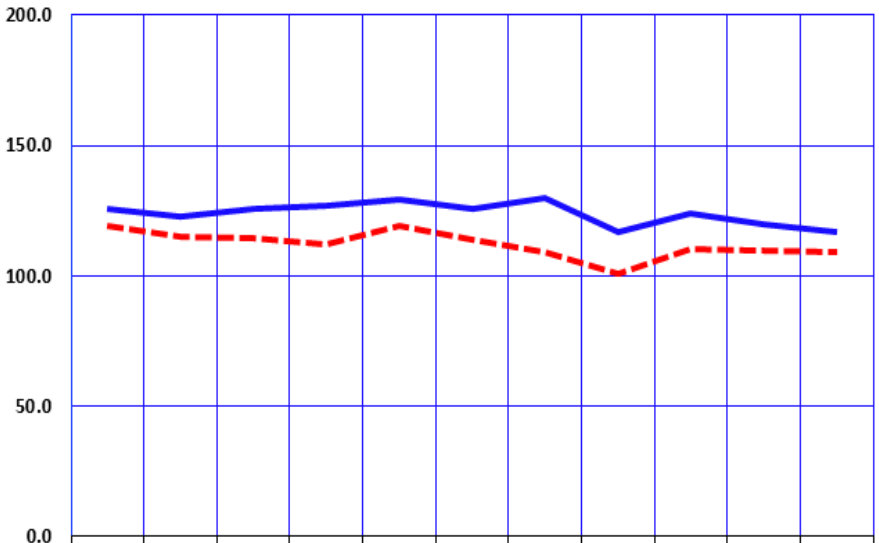
The unintended consequence of the reduction in heart disease mortality is that cancer replaced diseases of the heart as the leading cause of death in 2010 through 2015. However in 2016 and 2017 cancer death rates were again lower than heart disease mortality rates.

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 2017



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, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	119.4	115.1	114.1	112.2	119.0	113.7	109.2	100.5	110.5	109.8	109.3
Cancer	125.6	123.0	125.8	127.1	129.5	125.9	129.9	116.8	123.8	120.0	116.6

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

In 2007, the cancer mortality rates exceeded the mortality rates for diseases of the heart among Arizona females by 6.2 percent (**Figure 4**).

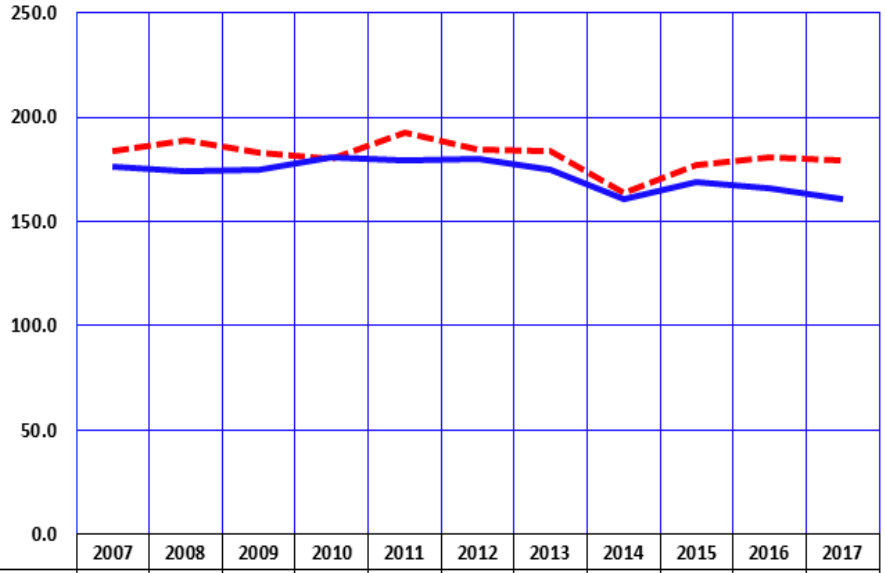
In 2017, cancer still remained the leading cause of death among Arizona females. Cancer was the number one cause of death among Arizona females in all racial/ethnic groups[a]. Diseases of the heart were the 2nd leading cause of female mortality.

[a] Table 2B-4 in Arizona Health Status and Vital Statistics 2017 report at: http://pub.azdhs.gov/health-stats/report/ahs/ahs2017/pdf/2b4.pdf

From 2007 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 has surpassed heart disease as the leading cause of death among Arizona male residents. In 2017, only among Asian or Pacific Islander 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, Black or African American, and American Indian or Alaska Native males.

[a] Table 2B-4 in Arizona Health Status and Vital Statistics 2017 report at: http://pub.azdhs.gov/health-stats/report/ahs/ahs2017/pdf/2b4.pdf

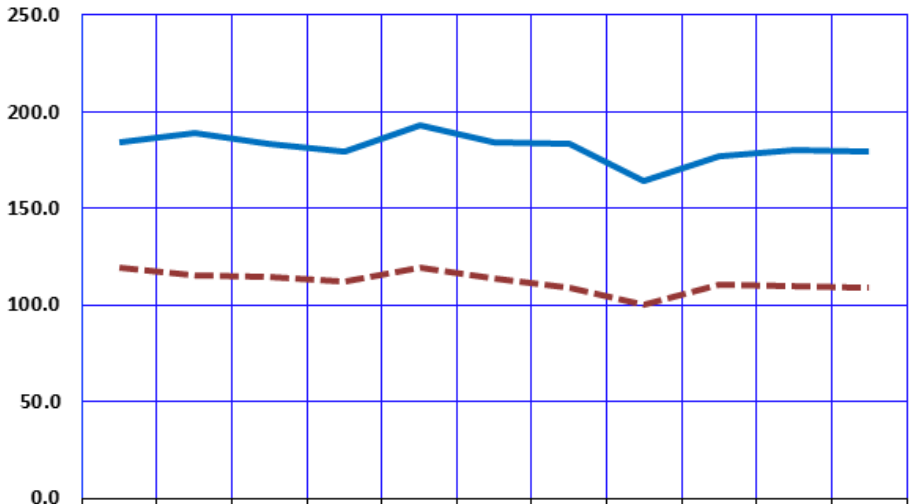
FIGURE 5
AGE-ADJUSTED[a] MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA MALE RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	184.0	189.3	183.1	179.8	192.8	184.4	183.6	164.1	177.1	180.5	179.4
Cancer	176.7	173.8	174.9	180.6	179.3	180.3	175.0	160.8	169.0	166.3	161.0

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, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Male	184.0	189.3	183.1	179.8	192.8	184.4	183.6	164.1	177.1	180.5	179.4
Female	119.4	115.1	114.1	112.2	119.0	113.7	109.2	100.5	110.5	109.8	109.3

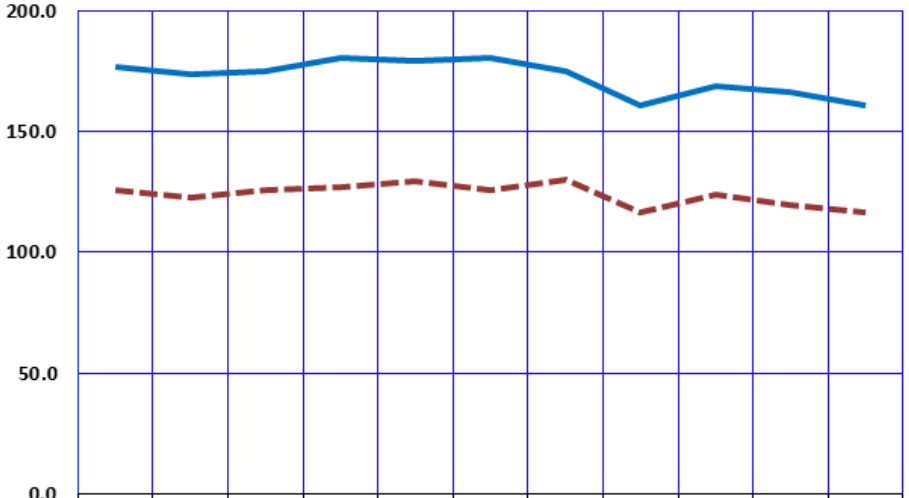
Notes: [a] Adjusted to the 2000 U.S. standard. See Table 1.

In each of the 27 years from 1990 to 2017, 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.

In each of the 27 years from 1990 to 2017, Arizona male mortality rates for cancer also were greater than the rates of their female counterparts (**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 2007- 2017

[a] Table 2B-4 in Arizona Health Status and Vital Statistics 2017 report at: http://pub.azdhs.gov/health-stats/report/ahs/ahs2017/pdf/2b4.pdf

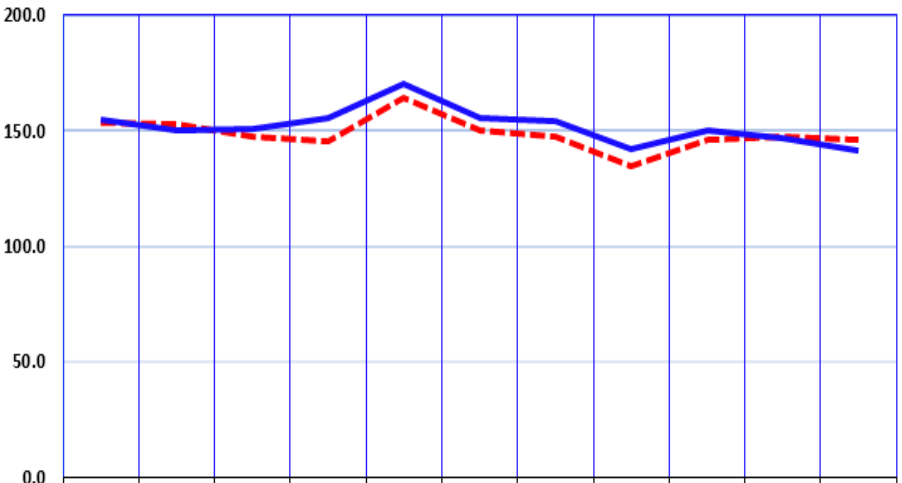
FIGURE 7
AGE-ADJUSTED[a] MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER), BY GENDER AND YEAR, ARIZONA RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Male	176.7	173.8	174.9	180.6	179.3	180.3	175.0	160.8	169.0	166.3	161.0
Female	125.6	123.0	125.8	127.1	129.5	125.9	129.9	116.8	123.8	120.0	116.6

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, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	153.2	153.1	147.5	145.4	164.3	150.0	147.6	134.4	146.0	147.7	146.1
Cancer	154.6	150.4	151.1	155.6	170.3	155.6	154.3	141.8	149.8	146.7	141.4

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

In both 2007 and 2008, the age-adjusted mortality rates for cancer (154.6 and 150.4 respectively), among White non-Hispanic residents of Arizona exceeded by less than 1 percent the mortality rates for heart disease (153.2 and 153.1 **Table 1, Figure 8**). The same pattern was observed in 2016 as well as 2017.

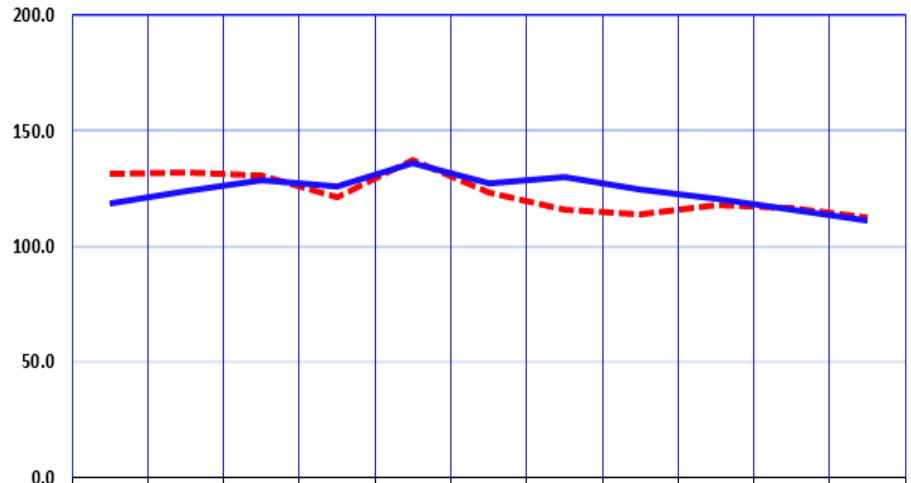
It is important to note here that the ranking of causes of death using the total number of deaths for all ages may differ from the ranking based on the age-adjusted mortality rates, which summarize the weighted age-specific mortality rates into a single rate for all ages. Among White non-Hispanics the total number of deaths from diseases of the heart (10,147) exceeded the total number of deaths from cancer (9,955) in 2007. In contrast, the age-adjusted mortality for diseases of the heart was slightly lower (153.2) than the cancer mortality (154.6) because of the differences in the age-specific mortality.

In 2017, 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 (52.5 percent).

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 slightly narrowed down from 1.1 times greater mortality rate for heart disease than cancer in 2007 to a ratio of 1 in 2017 (**Figure 9, Table 1**).

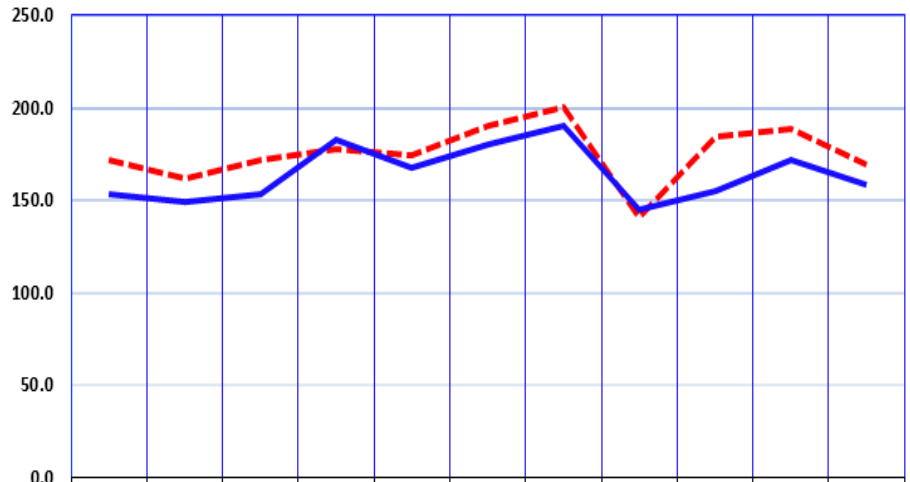
FIGURE 9
AGE-ADJUSTED[a] MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA HISPANIC OR LATINO RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	131.5	132.0	130.5	121.3	137.4	123.4	116.1	114.0	117.6	116.3	112.5
Cancer	118.6	123.8	128.4	126.2	136.3	127.2	129.8	124.9	120.4	115.9	110.9

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, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	171.3	161.7	171.3	177.7	174.0	190.5	200.5	140.9	184.4	188.3	169.6
Cancer	153.4	149.2	153.1	182.6	167.1	180.1	190.4	145.0	154.7	171.6	158.5

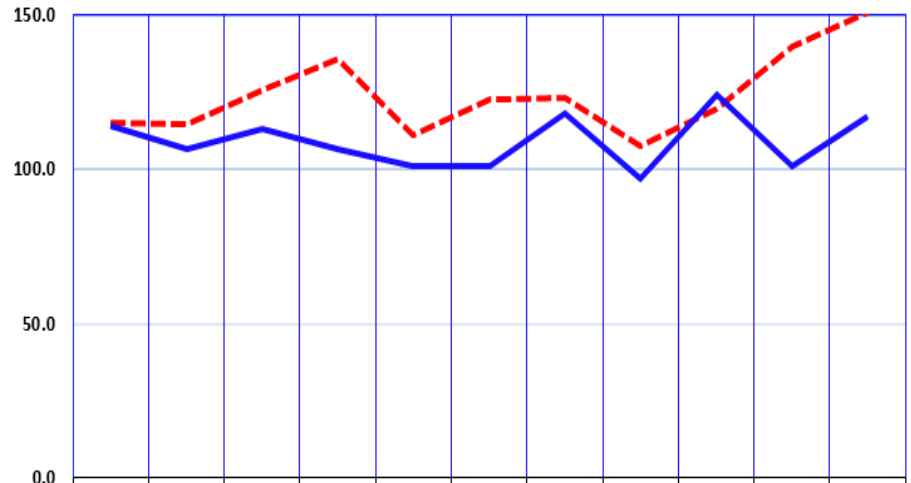
Notes: [a] Adjusted to the 2000 U.S. standard. See Table 1.

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. Their mortality differential was the same at 1.1 for heart disease and cancer in 2007 to 2017 (**Figure 10, Table 1**).

The pattern of changes in the mortality risks for diseases of the heart and cancer among American Indian or Alaska Natives (**Figure 11**) offers a more pronounced variation compared to White non-Hispanics, Blacks or African American and Hispanic or Latinos.

In 2007, the cancer mortality rate increased to 113.9/100,000, while the heart disease rate decreased to 115.2/100,000 (**Table 1**), narrowing the rate differential to 1.2 percent compared to 55.7 percent greater mortality rate for diseases of the heart than cancer. In 2017, mortality rate for diseases of the heart was 28.9 percent greater than the rate for cancer.

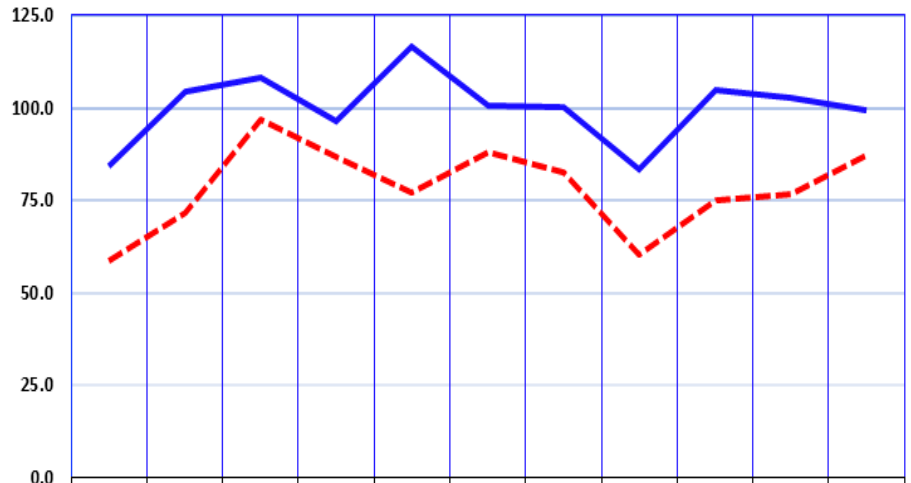
FIGURE 11
AGE-ADJUSTED[a] MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), ARIZONA AMERICAN INDIAN OR ALASKA NATIVE RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	115.2	114.6	125.8	135.9	111.1	122.7	122.9	107.5	119.9	139.9	150.9
Cancer	113.9	106.7	113.3	106.4	100.8	100.8	118.2	97.1	124.4	101.2	117.1

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, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	58.6	71.8	96.7	86.8	77.0	87.9	82.5	60.3	75.0	76.6	87.2
Cancer	84.2	104.4	108.1	96.2	116.6	100.5	100.1	83.2	104.8	102.6	99.4

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

During 2007-2017, 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.

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 2017, 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 2007, there were 192 more deaths from diseases of the heart than cancer among Arizona residents (**Figure 13, Table 2**). In 2017, the difference in the number of deaths from heart disease and cancer was 368.

FIGURE 13
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY YEAR, ARIZONA RESIDENTS, 2007-2017

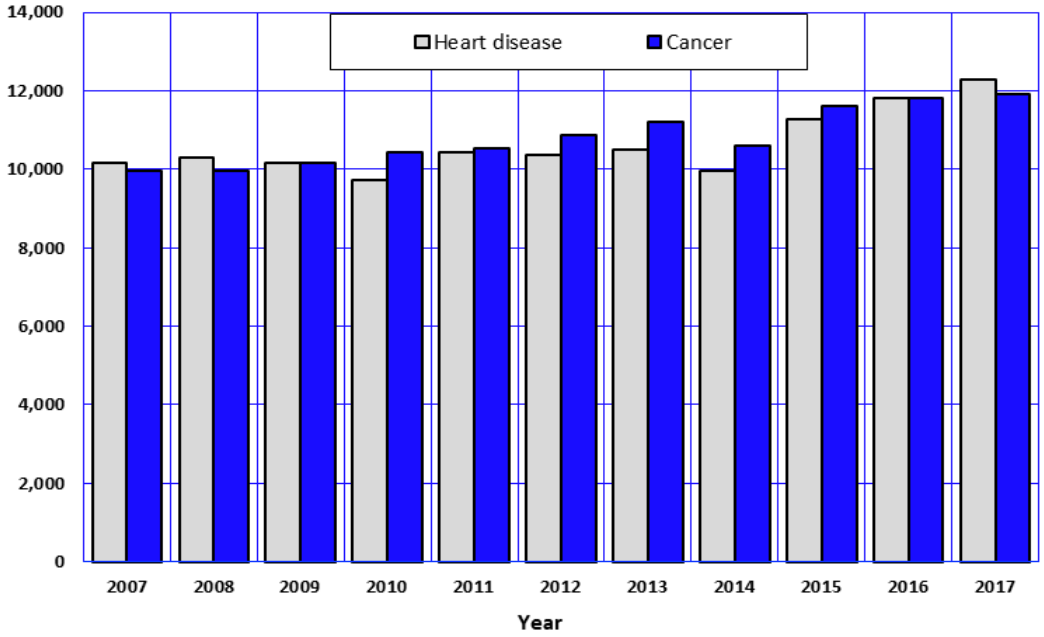
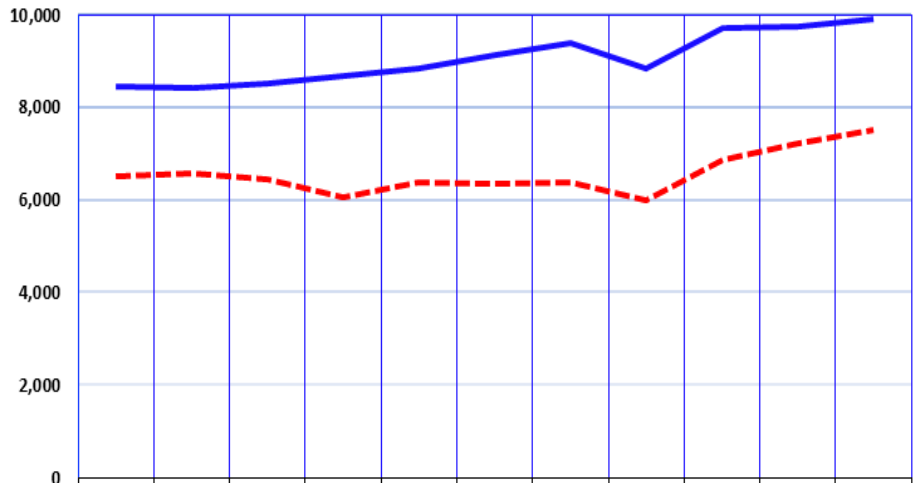


FIGURE 14
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), AMONG ARIZONA RESIDENTS 0-84 YEARS OLD, 2007-2017



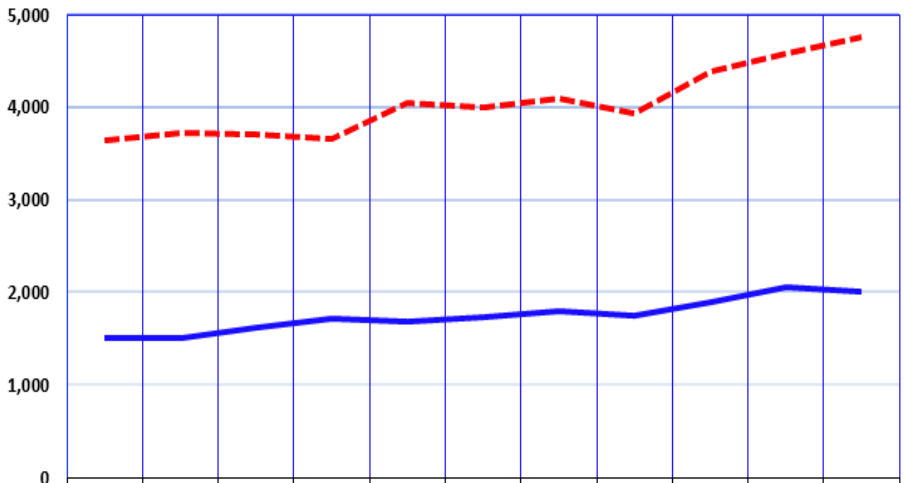
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	6,507	6,579	6,435	6,052	6,373	6,359	6,396	6,011	6,882	7,241	7,516
Cancer	8,451	8,432	8,520	8,696	8,849	9,127	9,384	8,847	9,733	9,743	9,908

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 2017, 2,392 more Arizonans 0-84 years old died from cancer (9,908) than heart disease (7,516).

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 2017, the elderly aged 85 years or older accounted for 16.4 percent of all deaths from cancer but 38.8 percent of all deaths from heart disease.

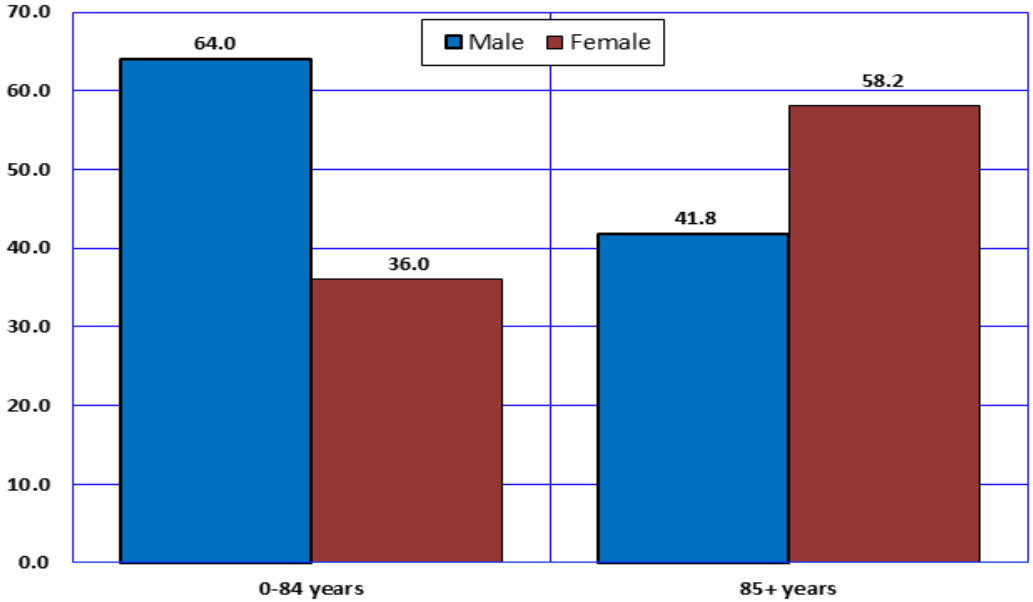
From 2007 to 2017, the number of deaths from cancer increased by 33.5 percent among Arizonans 85 years or older, an increase larger than the one seen for diseases of the heart (31.0 percent increase).

FIGURE 15
NUMBER OF DEATHS FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), AMONG ARIZONA RESIDENTS 85+ YEARS OLD, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	3,640	3,720	3,716	3,667	4,049	4,007	4,100	3,942	4,392	4,578	4,769
Cancer	1,504	1,517	1,627	1,727	1,694	1,744	1,809	1,753	1,891	2,058	2,009

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 2007-2017)



The gender-specific pattern of mortality from diseases of the heart reveals that males accounted for the absolute majority (64.0 percent) of those who died from the disease in 2007-2017 before reaching the age of 85 years (**Figure 16, Table 8, Table 9**). The opposite is true for females who accounted for the majority (58.2 percent) of deaths from diseases of the heart among Arizonans aged 85 years old or older.

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

However, males accounted for absolute majority (54.7 percent) of those who died from cancer in 2007-2017 before reaching the age of 85 years (**Figure 17, Table 8, Table 9**). Gender differences were less pronounced among Arizonans aged 85 years or older. Males (50.4 percent) were almost as likely as women (49.6 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 2007-2017)

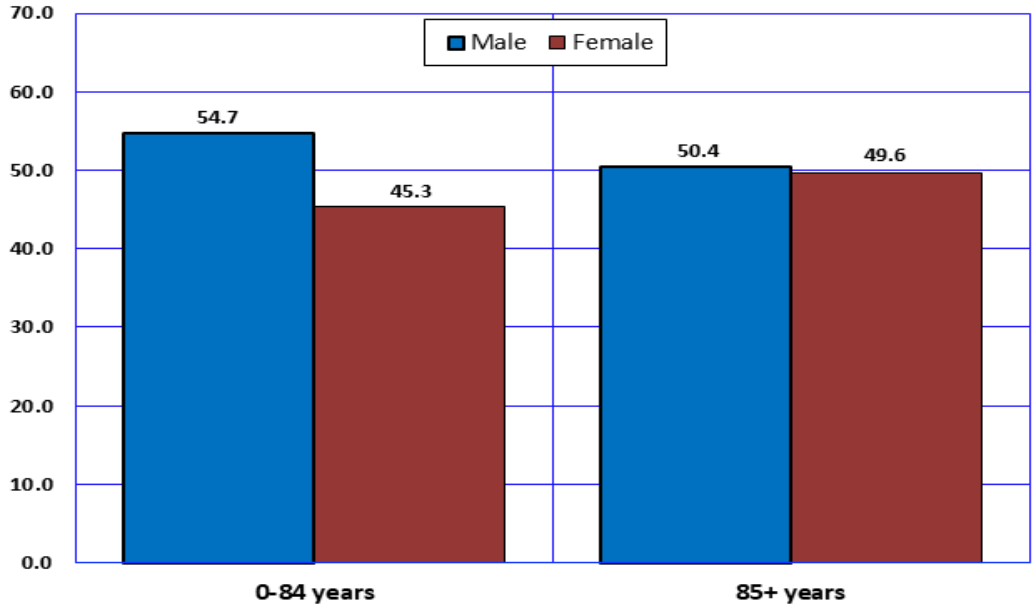
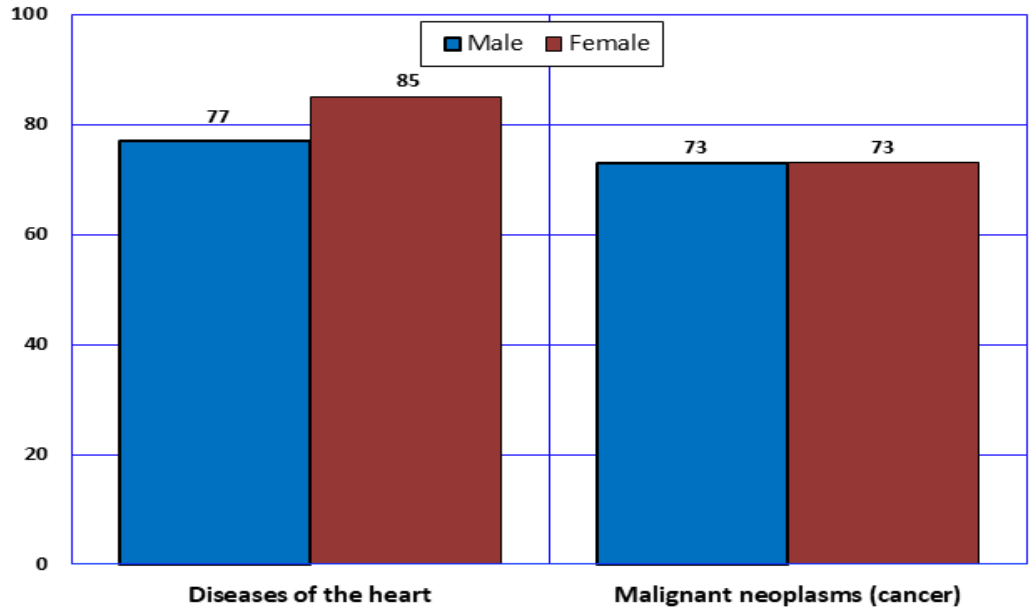


FIGURE 18
MEDIAN AGE AT DEATH FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY GENDER AMONG ARIZONA RESIDENTS, 2017



In 2017, 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 69 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 85 years, exceeding by eight years the median age of males (77 years).

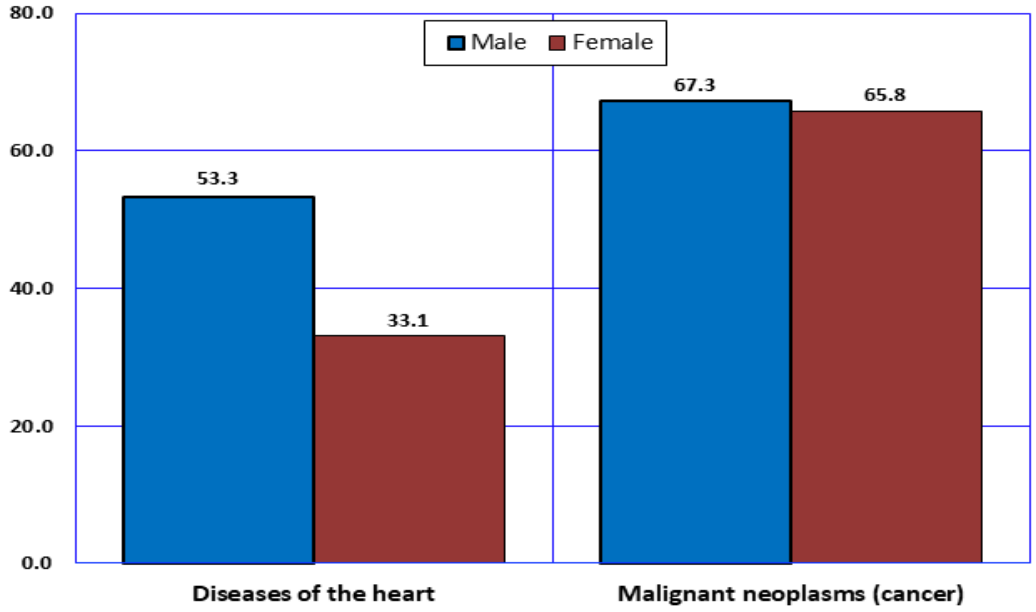
The median age at death of Arizonans who died from heart disease was noticeably greater than the median age at death from cancer. The magnitude of this difference was substantially greater for females than males.

[a] Table 2D-3 in Arizona Health Status and Vital Statistics 2017 report at: http://pub.azdhs.gov/health-stats/report/ahs/ahs2017/pdf/2d3.pdf

Among females who died in 2017 from heart disease, only 33.1 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 65.8 percent deaths from cancer. The majority of male deaths either from cancer (67.3 percent) or heart disease (53.3 percent) were premature.

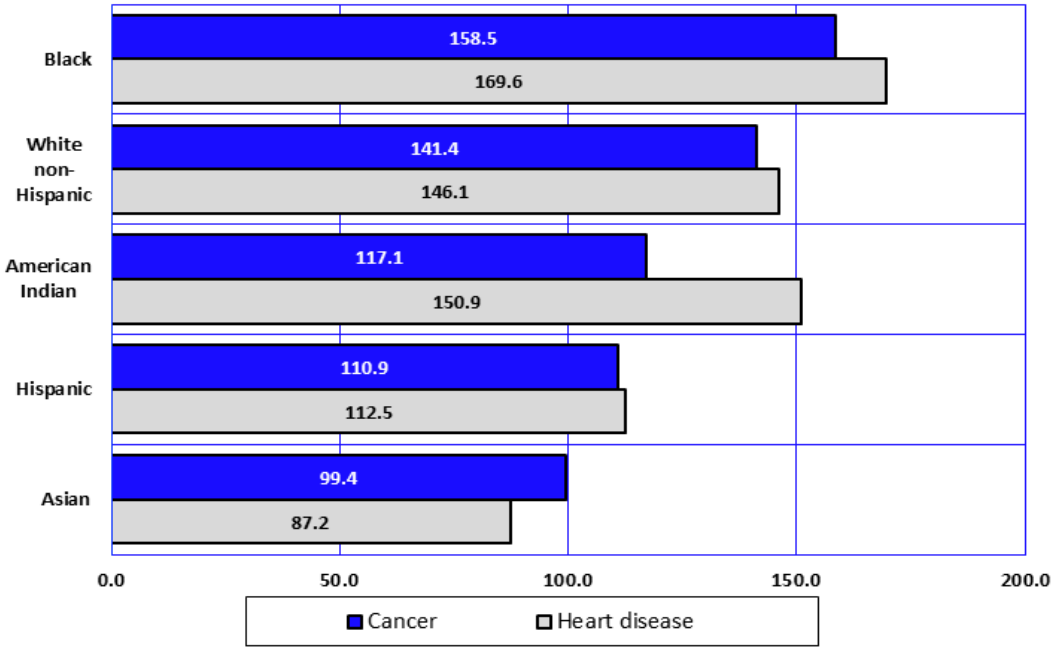
[a] Table 2D-4 in Arizona Health Status and Vital Statistics 2017 report at: http://pub.azdhs.gov/health-stats/report/ahs/ahs2017/pdf/2d4.pdf

FIGURE 19
PERCENT DEATHS BEFORE EXPECTED YEARS OF LIFE REACHED FROM DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY GENDER AMONG ARIZONA RESIDENTS, 2017



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

FIGURE 20
AGE-ADJUSTED MORTALITY RATES FOR DISEASES OF THE HEART AND MALIGNANT NEOPLASMS (CANCER), BY RACE/ETHNICITY AMONG ARIZONA RESIDENTS, 2017



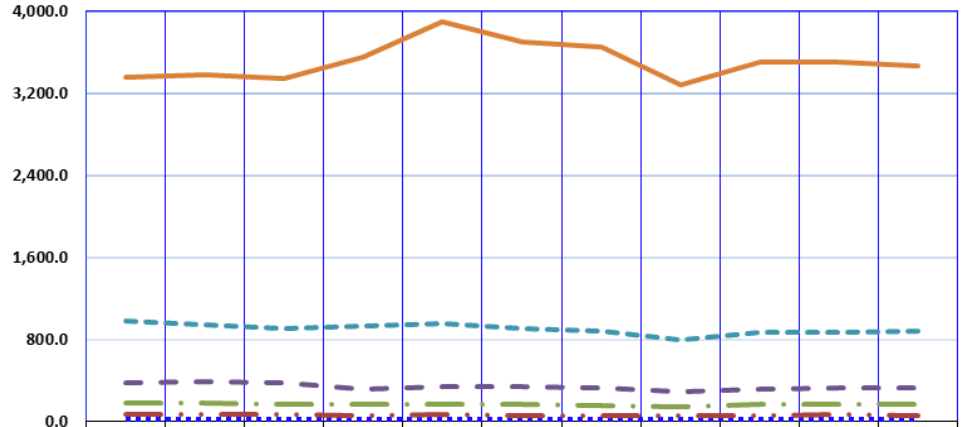
In 2017, Arizonan's Black or African Americans were 1.9 times more likely to die from diseases of the heart and 1.6 times more likely to die from malignant neoplasms than Asian or Pacific Islanders, the group at the lowest risk of both heart disease and cancer death among racial/ethnic groups (**Figure 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 2017.

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 2007, age-specific mortality rates for diseases of the heart were lower in 2017 for Arizonans aged 45-54, 55-64, 65-74, and 85+ years (**Figure 21, Table 12**) except for Arizonans aged 75-84.

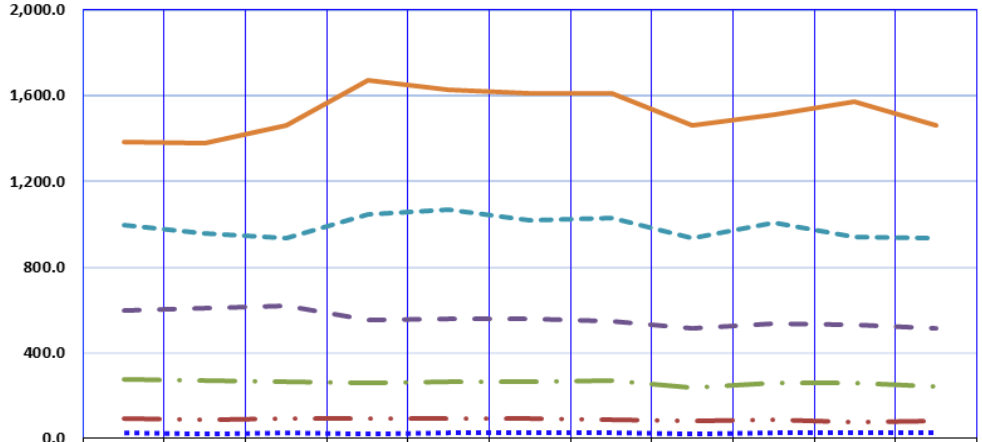
FIGURE 21
TRENDS IN AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART AMONG SELECTED AGE GROUPS OF ARIZONA RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
35-44	19.6	18.5	20.0	15.8	20.4	19.3	17.3	19.5	18.9	16.0	20.9
45-54	69.9	70.6	68.3	60.6	62.4	58.7	58.9	55.5	61.4	66.8	58.0
55-64	176.5	179.9	170.6	160.8	170.3	161.2	156.8	142.4	166.0	168.8	162.8
65-74	370.9	383.6	376.5	319.3	333.3	333.4	324.3	291.7	317.1	330.7	329.7
75-84	973.2	947.7	910.4	925.7	954.0	905.1	876.0	788.6	866.8	869.3	886.0
85+	3353.3	3381.5	3341.0	3545.5	3896.6	3697.3	3649.0	3286.6	3506.4	3496.1	3464.3

Note: log scale.

FIGURE 22
TRENDS IN AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) AMONG SELECTED AGE GROUPS OF ARIZONA RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
35-44	24.9	22.9	24.8	21.8	24.9	25.9	27.2	22.9	24.9	26.5	24.7
45-54	93.6	87.1	91.6	92.9	92.1	93.6	89.8	83.3	87.5	77.4	81.0
55-64	274.6	271.0	265.7	260.8	263.7	266.8	270.0	238.1	258.4	259.9	243.9
65-74	594.6	608.9	620.8	553.3	559.7	557.2	546.4	513.9	533.6	528.0	513.9
75-84	993.7	955.8	934.9	1048.0	1067.3	1018.3	1029.6	934.7	1008.5	941.0	934.9
85+	1385.4	1378.9	1463.1	1671.2	1627.4	1611.7	1610.0	1461.6	1509.7	1571.6	1459.4

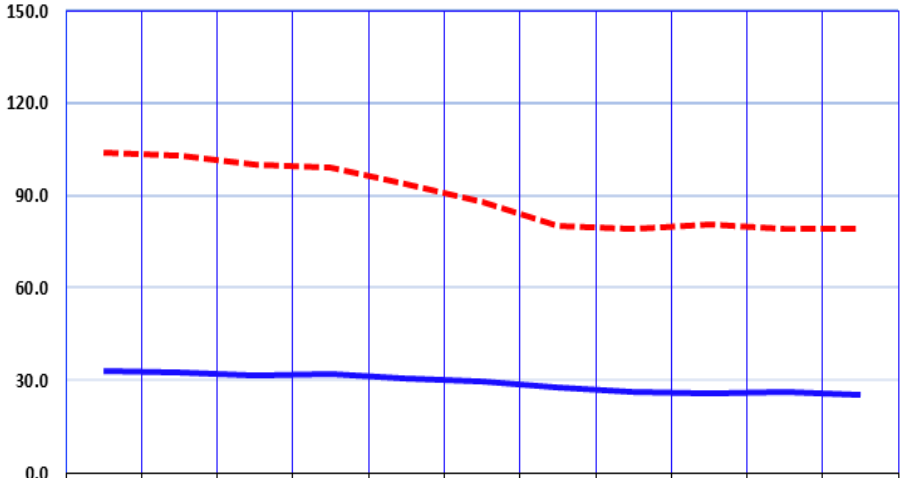
Note: log scale.

Figure 22 also uses a logarithmic scale to reflect the magnitude and changes over time in age-specific mortality rates for cancer. Compared to 2007, all age-specific mortality rates for cancer were lower in 2017 for Arizonans 35-84 years (**Figure 22, Table 13**). Similarly, the risk of death from cancer was also higher in 2017 compared to 2007 among Arizonans 85 years or older. In parallel, mortality rates for cancer have declined during the same period for all the remaining age groups (**Table 13**).

In 2017, there were 55,280 inpatient discharges with the first-listed diagnosis of heart disease, approximately 8.9 percent of all inpatient discharges, and 2.9 times more than the number of inpatient discharges with cancer as the principal diagnosis (17,778).

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 2007-2017 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 25.5 in 2017.

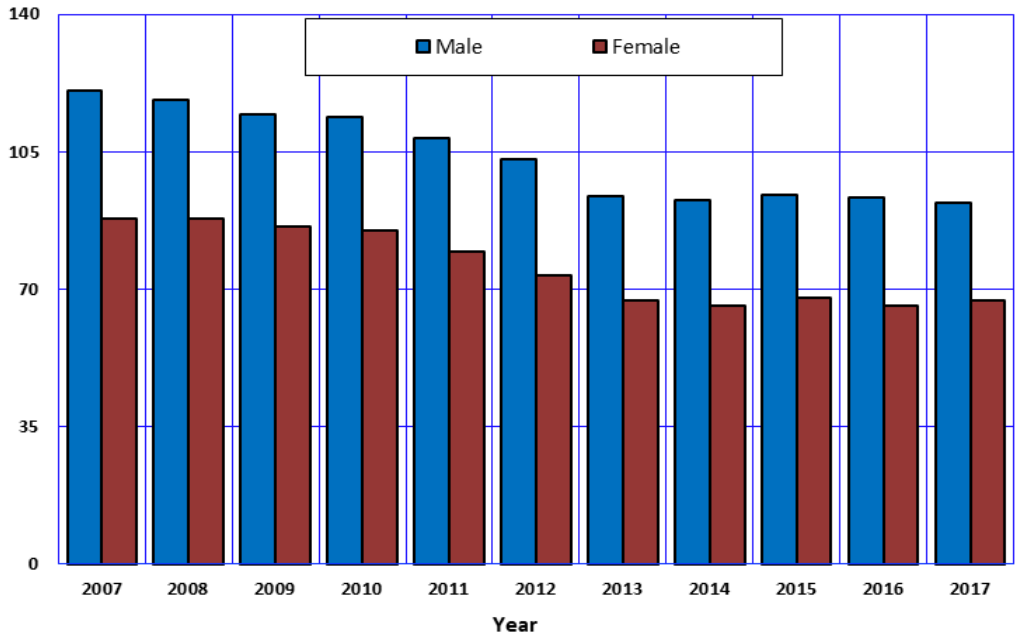
FIGURE 23
RATES OF INPATIENT DISCHARGES[a] WITH DISEASES OF THE HEART OR MALIGNANT NEOPLASMS (CANCER) AS FIRST-LISTED DIAGNOSIS BY YEAR, ARIZONA RESIDENTS, 2007-2017



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heart disease	104.3	103.0	100.2	99.4	94.0	88.3	80.3	79.1	80.8	79.5	79.4
Cancer	33.3	32.6	31.8	32.2	30.7	29.8	27.7	26.6	25.8	26.2	25.5

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, 2007-2017



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

In each of the 11 years from 2007 to 2017, 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 during the eleven-year period from 2007 to 2017.

In 2017, among the 55,280 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 (20,081) and cardiac catheterization (15,554).

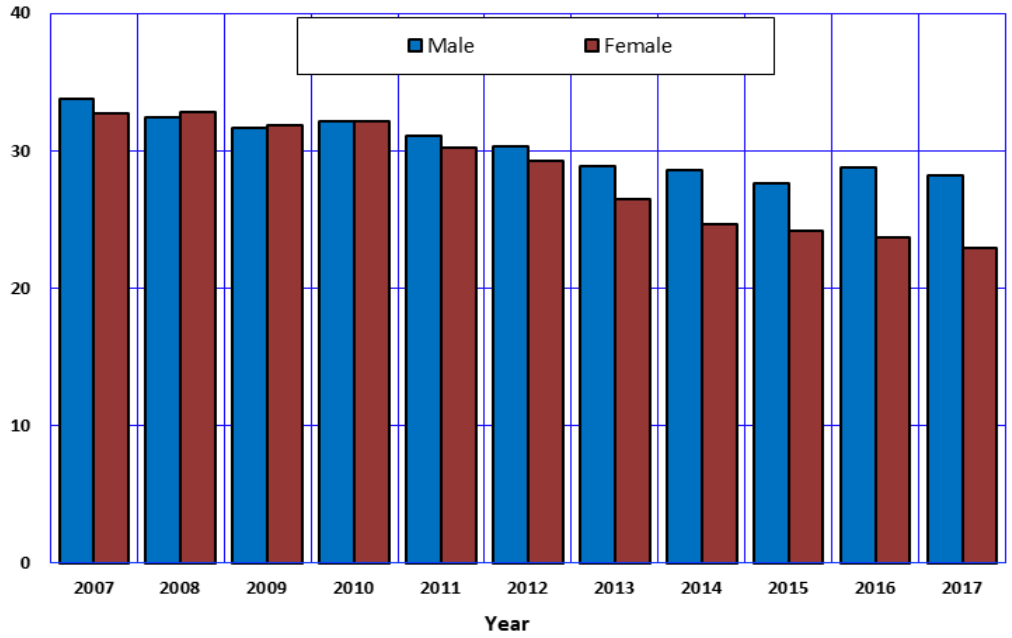
No specific procedure was recorded for 39.1 percent of the inpatient discharges with the first-listed diagnosis of heart disease.

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**). Females, but not males, experienced a substantial decline in the inpatient hospitalization rates from a recent peak of 32.7/10,000 in 2007 to 22.9/10,000 in 2017. The male hospitalization rate changed from 33.8/10,000 to 28.2/10,000 during that time.

In 2017, among the 17,778 Arizonans who were discharged with malignant neoplasm as first-listed diagnosis, 15,604 (87.8 percent) had at least one procedure performed while hospitalized. Operation on the gastrointestinal (4,757), operation on lymphatic system (4,693), and operation on the urinary system (2,254) were the top three most frequently reported procedures.

No specific procedure was recorded for approximately 12.2 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, 2007-2017



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, 2007-2017

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																		
2007	149.5	184.0	119.4	153.2	191.3	120.0	131.5	158.9	107.7	171.3	160.4	182.5	115.2	140.5	94.7	58.6	152.9	56.4
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
MALIGNANT NEOPLASMS (CANCER)																		
2007	148.0	176.7	125.6	154.6	184.4	131.1	118.6	144.3	99.0	153.4	178.3	135.2	113.9	135.0	100.1	84.2	248.1	81.6
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

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, 2007-2017

Year	Diseases of the heart	Malignant neoplasms (cancer)	Differences in the number of deaths between diseases of the heart and malignant neoplasm (cancer)
2007	10,147	9,955	192
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

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, 2017

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	35,911	0	*	0.0	**
1-4	0.055317	143,720	*	0	**	0.0
5-14	0.145565	379,966	9	*	0.3	**
15-24	0.138646	418,351	7	6	0.2	0.2
25-34	0.135573	462,508	41	29	1.2	0.9
35-44	0.162613	435,228	114	106	4.3	4.0
45-54	0.134834	509,470	424	322	11.2	8.5
55-64	0.087247	589,205	1,510	995	22.4	14.7
65-74	0.066037	546,079	2,909	1,797	35.2	21.7
75-84	0.044842	292,108	2,805	2,597	43.1	39.9
85+	0.015508	115,831	1,741	4,191	23.3	56.1
All ages	1.000000	3,928,377	9,565	10,045	243.5	255.7

Note: 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/ETHNCITY, GENDER, AND YEAR AMONG ARIZONANS 0-84 YEARS OLD, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total, all groups	**Total**	**Malignant neoplasms**	8,451	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908
		Diseases of the heart	6,507	6,347	6,445	6,062	6,386	6,382	6,396	6,011	6,882	7,241	7,516
	Male	**Malignant neoplasms**	4,601	4,623	4,623	4,795	4,820	5,057	5,056	4,830	5,292	5,355	5,466
		Diseases of the heart	4,036	4,038	4,057	3,896	4,112	4,071	4,162	3,918	4,410	4,654	4,872
	Female	**Malignant neoplasms**	3,850	3,800	3,902	3,903	4,038	4,078	4,328	4,017	4,441	4,388	4,442
		Diseases of the heart	2,471	2,309	2,388	2,166	2,274	2,311	2,234	2,093	2,472	2,587	2,644
White non-Hispanics	**Total**	**Malignant neoplasms**	7,007	6,915	6,949	7,146	7,245	7,419	7,538	7,125	7,787	7,827	7,824
		Diseases of the heart	5,270	5,203	5,178	4,914	5,163	5,128	5,132	4,784	5,430	5,744	5,854
	Male	**Malignant neoplasms**	3,827	3,790	3,783	3,983	3,971	4,128	4,126	3,923	4,251	4,309	4,377
		Diseases of the heart	3,311	3,312	3,271	3,180	3,342	3,311	3,363	3,133	3,516	3,711	3,811
	Female	**Malignant neoplasms**	3,180	3,125	3,166	3,163	3,274	3,291	3,412	3,202	3,536	3,518	3,447
		Diseases of the heart	1,959	1,891	1,907	1,734	1,821	1,817	1,769	1,651	1,914	2,033	2,043
Hispanics or Latinos	**Total**	**Malignant neoplasms**	910	945	1,006	993	1,042	1,082	1,202	1,109	1,253	1,208	1,250
		Diseases of the heart	804	677	754	673	729	746	745	719	875	873	895
	Male	**Malignant neoplasms**	496	533	561	505	582	592	613	604	692	677	660
		Diseases of the heart	488	458	472	410	451	460	472	468	546	552	574
	Female	**Malignant neoplasms**	414	412	444	488	460	490	589	505	561	531	590
		Diseases of the heart	316	219	282	263	278	286	273	251	329	321	321
Black or African American	**Total**	**Malignant neoplasms**	250	246	244	270	253	305	307	283	302	345	366
		Diseases of the heart	212	211	246	230	233	252	271	246	302	316	304
	Male	**Malignant neoplasms**	140	131	121	156	116	179	159	135	162	197	195
		Diseases of the heart	109	125	150	145	151	144	183	148	179	208	191
	Female	**Malignant neoplasms**	110	115	123	114	137	126	148	148	140	148	171
		Diseases of the heart	103	86	96	85	82	108	88	98	123	108	113
American Indian or Alaska Native	**Total**	**Malignant neoplasms**	191	195	215	173	186	197	212	200	228	186	230
		Diseases of the heart	177	182	203	176	194	184	177	192	199	226	254
	Male	**Malignant neoplasms**	94	98	105	88	90	102	96	110	110	90	105
		Diseases of the heart	104	95	124	114	123	111	103	125	124	140	158
	Female	**Malignant neoplasms**	97	97	110	85	96	95	116	90	118	96	125
		Diseases of the heart	73	87	79	62	71	73	74	67	75	86	96
Asian or Pacific Islander	**Total**	**Malignant neoplasms**	89	106	112	116	132	132	125	130	163	177	169
		Diseases of the heart	39	51	64	69	67	72	71	70	76	82	107
	Male	**Malignant neoplasms**	41	61	53	63	61	56	62	58	77	82	81
		Diseases of the heart	21	29	40	47	45	45	41	44	45	43	56
	Female	**Malignant neoplasms**	48	45	59	53	71	76	63	72	86	95	88
		Diseases of the heart	18	22	24	22	22	27	30	26	31	39	51
Other unspecified or other unknown	**Total**	**Malignant neoplasms**	0†	16	0	0	0	0	0	0	0	0	69
		Diseases of the heart	10†	20†	0	0	0	0	0	0	0	0	102
	Male	**Malignant neoplasms**	*	10	0	0	0	0	0	0	0	0	48
		Diseases of the heart	*	19	0	0	0	0	0	0	0	0	82
	Female	**Malignant neoplasms**	*	6	0	0	0	0	0	0	0	0	21
		Diseases of the heart	*	*	0	0	0	0	0	0	0	0	20

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 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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	8,451	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908
		Diseases of the heart	6,507	6,347	6,445	6,062	6,386	6,382	6,396	6,011	6,882	7,241	7,516
	Male	**Malignant neoplasms**	4,601	4,623	4,623	4,795	4,820	5,057	5,056	4,830	5,292	5,355	5,466
		Diseases of the heart	4,036	4,038	4,057	3,896	4,112	4,071	4,162	3,918	4,410	4,654	4,872
	Female	**Malignant neoplasms**	3,850	3,800	3,902	3,903	4,038	4,078	4,328	4,017	4,441	4,388	4,442
		Diseases of the heart	2,471	2,309	2,388	2,166	2,274	2,311	2,234	2,093	2,472	2,587	2,644
APACHE	**Total**	**Malignant neoplasms**	56	72	70	71	72	74	81	61	71	68	80
		Diseases of the heart	66	60	64	46	63	50	61	59	72	77	96
	Male	**Malignant neoplasms**	34	35	43	44	37	43	38	37	36	36	41
		Diseases of the heart	46	41	48	31	39	35	37	46	38	45	55
	Female	**Malignant neoplasms**	22	37	27	27	35	31	43	24	35	32	39
		Diseases of the heart	20	19	16	15	24	15	24	13	34	32	41
COCHISE	**Total**	**Malignant neoplasms**	219	235	217	235	197	225	261	249	244	245	250
		Diseases of the heart	181	206	200	211	224	201	199	165	201	182	200
	Male	**Malignant neoplasms**	133	118	109	135	125	123	151	156	130	141	141
		Diseases of the heart	111	134	127	133	149	137	127	110	124	119	139
	Female	**Malignant neoplasms**	86	117	108	100	72	102	110	93	114	104	109
		Diseases of the heart	70	72	73	78	75	64	72	55	77	63	61
COCONINO	**Total**	**Malignant neoplasms**	99	116	108	111	115	115	122	101	130	139	134
		Diseases of the heart	72	100	92	72	97	100	78	80	102	108	111
	Male	**Malignant neoplasms**	61	68	63	59	59	67	67	48	74	66	74
		Diseases of the heart	51	56	67	43	60	66	45	58	68	74	70
	Female	**Malignant neoplasms**	38	48	45	52	56	48	55	53	56	73	60
		Diseases of the heart	21	44	25	29	37	34	33	22	34	34	41
GILA	**Total**	**Malignant neoplasms**	109	124	121	127	133	120	128	119	151	129	99
		Diseases of the heart	104	95	99	96	90	85	88	96	109	141	117
	Male	**Malignant neoplasms**	63	75	66	81	70	75	68	73	87	78	49
		Diseases of the heart	68	59	62	60	58	49	55	67	72	91	76
	Female	**Malignant neoplasms**	46	49	55	46	63	45	60	46	64	51	50
		Diseases of the heart	36	36	37	36	32	36	33	29	37	50	41
GRAHAM	**Total**	**Malignant neoplasms**	60	47	48	58	41	49	57	41	44	48	46
		Diseases of the heart	40	42	40	39	30	37	28	43	29	38	37
	Male	**Malignant neoplasms**	26	34	26	29	24	24	31	20	27	24	21
		Diseases of the heart	20	26	20	24	21	21	14	23	18	27	24
	Female	**Malignant neoplasms**	34	13	22	29	17	25	26	21	17	24	25
		Diseases of the heart	20	16	20	15	9	16	14	20	11	11	13
GREENLEE	**Total**	**Malignant neoplasms**	15	10†	10†	10†	10†	16	10†	10†	18	10†	10†
		Diseases of the heart	10†	0†	0†	10†	10†	10†	10†	10†	10†	10†	10†
	Male	**Malignant neoplasms**	7	7	*	11	*	6	*	*	8	*	7
		Diseases of the heart	10	*	*	*	*	9	*	*	7	9	*
	Female	**Malignant neoplasms**	8	*	*	*	7	10	7	*	10	*	*
		Diseases of the heart	*	*	*	*	*	*	*	*	*	*	*

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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	8,451	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908
LA PAZ	**Total**	**Malignant neoplasms**	38	48	52	40	31	46	48	40	42	52	57
		Diseases of the heart	47	38	49	44	54	58	64	58	71	51	79
	Male	**Malignant neoplasms**	28	34	33	25	20	33	26	27	26	28	36
		Diseases of the heart	30	28	40	36	38	43	43	47	57	40	57
	Female	**Malignant neoplasms**	10	14	19	15	11	13	22	13	16	24	21
		Diseases of the heart	17	10	9	8	16	15	21	11	14	11	22
MARICOPA	**Total**	**Malignant neoplasms**	4,518	4,420	4,516	4,593	4,714	4,900	5,007	4,831	5,270	5,292	5,350
		Diseases of the heart	3,432	3,208	3,302	3,071	3,178	3,126	3,245	3,008	3,431	3,616	3,834
	Male	**Malignant neoplasms**	2,421	2,355	2,392	2,476	2,453	2,602	2,641	2,586	2,808	2,873	2,896
		Diseases of the heart	2,092	2,029	2,040	1,946	2,022	1,983	2,092	1,946	2,189	2,278	2,438
	Female	**Malignant neoplasms**	2,097	2,065	2,124	2,117	2,261	2,298	2,366	2,245	2,462	2,419	2,454
		Diseases of the heart	1,340	1,179	1,262	1,125	1,156	1,143	1,153	1,062	1,242	1,338	1,396
MOHAVE	**Total**	**Malignant neoplasms**	499	539	510	536	533	515	599	491	616	639	623
		Diseases of the heart	403	475	457	453	485	535	541	456	586	621	612
	Male	**Malignant neoplasms**	272	317	287	313	324	322	339	246	360	343	383
		Diseases of the heart	263	319	309	311	327	358	373	299	383	412	417
	Female	**Malignant neoplasms**	227	222	223	223	209	193	260	245	256	296	240
		Diseases of the heart	140	156	148	142	158	177	168	157	203	209	195
NAVAJO	**Total**	**Malignant neoplasms**	154	147	145	124	153	134	160	124	137	153	157
		Diseases of the heart	110	109	114	121	110	113	90	112	114	129	102
	Male	**Malignant neoplasms**	87	88	75	66	87	74	83	68	76	86	85
		Diseases of the heart	69	72	65	81	73	73	54	73	70	88	70
	Female	**Malignant neoplasms**	67	59	70	58	66	60	77	56	61	67	72
		Diseases of the heart	41	37	49	40	37	40	36	39	44	41	32
PIMA	**Total**	**Malignant neoplasms**	1,507	1,517	1,529	1,487	1,536	1,608	1,527	1,395	1,559	1,501	1,553
		Diseases of the heart	1,119	1,128	1,116	1,021	1,095	1,082	1,106	1,008	1,093	1,195	1,151
	Male	**Malignant neoplasms**	824	817	830	818	856	904	813	781	847	838	839
		Diseases of the heart	667	689	699	623	700	670	740	631	680	737	723
	Female	**Malignant neoplasms**	683	700	699	669	680	704	714	614	712	663	714
		Diseases of the heart	452	439	417	398	395	412	366	377	413	458	428
PINAL	**Total**	**Malignant neoplasms**	434	410	413	483	533	516	564	546	589	590	633
		Diseases of the heart	343	342	288	345	340	410	361	344	442	419	485
	Male	**Malignant neoplasms**	239	241	244	275	317	304	346	317	323	334	367
		Diseases of the heart	231	218	193	235	220	268	214	220	294	280	333
	Female	**Malignant neoplasms**	195	169	169	208	216	212	218	229	266	256	266
		Diseases of the heart	112	124	95	110	120	142	147	124	148	139	152
SANTA CRUZ	**Total**	**Malignant neoplasms**	51	40	65	45	53	58	58	64	50	45	57
		Diseases of the heart	42	38	41	25	27	34	38	30†	47	39	36
	Male	**Malignant neoplasms**	21	22	36	20	32	46	29	30	19	21	36
		Diseases of the heart	22	24	27	18	13	20	29	21	33	28	26
	Female	**Malignant neoplasms**	30	18	28	25	21	12	29	34	31	24	21
		Diseases of the heart	20	14	14	7	14	14	9	*	14	11	10

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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	8,451	8,423	8,526	8,698	8,858	9,135	9,384	8,847	9,733	9,743	9,908
YAVAPAI	**Total**	**Malignant neoplasms**	451	455	450	503	466	502	512	524	539	537	562
		Diseases of the heart	367	335	375	295	342	325	311	332	375	348	380
	Male	**Malignant neoplasms**	239	263	261	285	243	285	281	282	303	291	318
		Diseases of the heart	241	230	234	210	218	207	212	226	249	230	252
	Female	**Malignant neoplasms**	212	192	189	218	223	217	231	242	236	246	244
		Diseases of the heart	126	105	141	85	124	118	99	106	126	118	128
YUMA	**Total**	**Malignant neoplasms**	238	233	257	249	245	234	235	240	248	251	249
		Diseases of the heart	165	159	189	187	209	184	156	199	155	207	202
	Male	**Malignant neoplasms**	143	139	140	140	145	132	125	145	148	155	132
		Diseases of the heart	113	105	112	116	144	107	103	133	89	140	129
	Female	**Malignant neoplasms**	95	94	117	109	100	102	110	95	100	96	117
		Diseases of the heart	52	54	77	71	65	77	53	66	66	67	73
UNKNOWN	**Total**	**Malignant neoplasms**	0†	10	20†	20†	30†	23	13	10†	30†	47	50†
		Diseases of the heart	0†	10†	20†	30†	33	30†	20†	20†	45	60†	65
	Male	**Malignant neoplasms**	*	10	13	18	24	17	13	9	20	37	41
		Diseases of the heart	*	7	13	25	25	25	19	13	39	56	58
	Female	**Malignant neoplasms**	0	0	*	*	*	6	0	*	*	10	*
		Diseases of the heart	0	*	*	*	8	*	*	*	6	*	7

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 6
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) AND DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AND YEAR AMONG ARIZONANS 85+ YEARS OLD, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total, all groups	**Total**	**Malignant neoplasms**	1,503	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009
		Diseases of the heart	3,638	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769
	Male	**Malignant neoplasms**	763	740	814	848	825	882	894	901	971	1,074	1,027
		Diseases of the heart	1,417	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101
	Female	**Malignant neoplasms**	740	777	812	880	869	866	915	852	920	984	982
		Diseases of the heart	2,221	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668
White non-Hispanics	**Total**	**Malignant neoplasms**	1,353	1,356	1,465	1,542	1,489	1,540	1,585	1,535	1,677	1,765	1,741
		Diseases of the heart	3,326	3,336	3,360	3,303	3,671	3,587	3,664	3,539	3,920	4,020	4,191
	Male	**Malignant neoplasms**	686	669	739	754	727	775	795	799	854	925	915
		Diseases of the heart	1,301	1,361	1,379	1,310	1,500	1,511	1,568	1,485	1,703	1,816	1,839
	Female	**Malignant neoplasms**	667	687	726	788	762	765	790	736	823	840	826
		Diseases of the heart	2,025	1,975	1,980	1,993	2,171	2,076	2,096	2,054	2,217	2,204	2,352
Hispanics or Latinos	**Total**	**Malignant neoplasms**	92	105	107	125	130	151	147	150	133	198	171
		Diseases of the heart	193	262	235	247	284	298	294	300	319	377	375
	Male	**Malignant neoplasms**	46	45	46	64	68	83	64	75	74	110	80
		Diseases of the heart	77	93	94	105	108	115	118	125	110	164	167
	Female	**Malignant neoplasms**	46	60	61	61	62	68	83	75	59	88	91
		Diseases of the heart	116	169	141	142	176	183	176	175	209	213	208
Black or African American	**Total**	**Malignant neoplasms**	21	20	22	25	32	22	29	26	29	35	30†
		Diseases of the heart	62	47	47	40	46	51	58	38	69	78	76
	Male	**Malignant neoplasms**	14	6	15	8	11	9	10	11	14	19	*
		Diseases of the heart	21	17	12	15	25	18	23	16	26	25	32
	Female	**Malignant neoplasms**	7	14	7	17	21	13	19	15	15	16	21
		Diseases of the heart	41	30	35	25	21	33	35	22	43	53	44
American Indian or Alaska Native	**Total**	**Malignant neoplasms**	30	23	25	25	26	20	31	24	30	36	36
		Diseases of the heart	43	43	47	54	33	45	54	44	46	60	68
	Male	**Malignant neoplasms**	15	12	11	17	13	7	15	12	15	15	10
		Diseases of the heart	14	19	15	21	9	16	28	25	20	27	37
	Female	**Malignant neoplasms**	15	11	14	8	13	13	16	12	15	21	26
		Diseases of the heart	29	24	32	33	24	29	26	19	26	33	31
Asian or Pacific Islander	**Total**	**Malignant neoplasms**	10†	10†	10†	10†	17	15	17	20†	22	20†	33
		Diseases of the heart	10†	15	24	22	22	29	30	21	37	43	52
	Male	**Malignant neoplasms**	*	6	*	*	6	8	10	*	14	*	16
		Diseases of the heart	*	7	8	10	8	11	10	6	16	16	23
	Female	**Malignant neoplasms**	*	*	*	6	11	7	7	14	8	19	17
		Diseases of the heart	10	8	16	12	14	18	20	15	21	27	29
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†	0	10†
	Male	**Malignant neoplasms**	*	*	0	0	0	0	0	0	0	0	*
		Diseases of the heart	0	0	0	0	0	0	0	0	*	0	*
	Female	**Malignant neoplasms**	0	*	0	0	0	0	0	0	0	0	*
		Diseases of the heart	0	*	0	0	0	0	0	0	0	0	*

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 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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	1,503	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009
		Diseases of the heart	3,638	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769
	Male	**Malignant neoplasms**	763	740	814	848	825	882	894	901	971	1,074	1,027
		Diseases of the heart	1,417	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101
	Female	**Malignant neoplasms**	740	777	812	880	869	866	915	852	920	984	982
		Diseases of the heart	2,221	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668
APACHE	**Total**	**Malignant neoplasms**	14	14	10†	10†	16	13	20	10†	10†	15	10†
		Diseases of the heart	24	21	22	17	20†	10†	24	22	34	25	33
	Male	**Malignant neoplasms**	6	7	*	6	7	6	11	6	*	8	*
		Diseases of the heart	9	8	6	9	*	*	13	11	17	12	17
	Female	**Malignant neoplasms**	8	7	*	*	9	7	9	*	*	7	8
		Diseases of the heart	15	13	16	8	14	12	11	11	17	13	16
COCHISE	**Total**	**Malignant neoplasms**	35	44	27	34	45	52	23	32	41	62	35
		Diseases of the heart	104	84	88	105	116	103	109	99	100	100	116
	Male	**Malignant neoplasms**	21	22	12	21	20	31	14	16	25	33	19
		Diseases of the heart	41	30	39	54	57	41	47	49	49	40	56
	Female	**Malignant neoplasms**	14	22	15	13	25	21	9	16	16	29	16
		Diseases of the heart	63	54	49	51	59	62	62	50	51	60	60
COCONINO	**Total**	**Malignant neoplasms**	22	14	10†	16	18	10†	15	10†	27	27	20
		Diseases of the heart	42	37	36	36	41	30	39	42	45	46	55
	Male	**Malignant neoplasms**	9	7	*	10	10	*	7	9	13	14	7
		Diseases of the heart	14	13	17	12	20	9	13	14	22	20	28
	Female	**Malignant neoplasms**	13	7	*	6	8	7	8	*	14	13	13
		Diseases of the heart	28	24	19	24	21	21	26	28	23	26	27
GILA	**Total**	**Malignant neoplasms**	27	18	28	21	17	23	16	16	27	24	21
		Diseases of the heart	58	50	52	49	57	44	59	62	69	70	59
	Male	**Malignant neoplasms**	14	10	15	13	11	12	7	6	14	13	9
		Diseases of the heart	26	20	15	18	19	17	27	25	32	26	23
	Female	**Malignant neoplasms**	13	8	13	8	6	11	9	10	13	11	12
		Diseases of the heart	32	30	37	31	38	27	32	37	37	44	36
GRAHAM	**Total**	**Malignant neoplasms**	10†	10†	10†	20	10†	10†	10†	10†	10†	10†	10†
		Diseases of the heart	15	20	19	15	21	21	19	19	10†	17	14
	Male	**Malignant neoplasms**	*	*	6	10	*	*	*	*	*	*	*
		Diseases of the heart	7	6	7	7	12	11	9	10	*	11	6
	Female	**Malignant neoplasms**	*	*	*	10	*	*	*	*	*	*	*
		Diseases of the heart	8	14	12	8	9	10	10	9	7	6	8
GREENLEE	**Total**	**Malignant neoplasms**	0†	0†	0†	0†	0†	0	0†	0†	0†	0†	0
		Diseases of the heart	0†	0†	0†	0	10†	0†	0†	0†	0†	0†	0†
	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	*	0	*	*	*	*	*

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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	1,503	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009
LA PAZ	**Total**	**Malignant neoplasms**	0†	10†	10†	0†	10†	10†	10†	6	10†	10†	10†
		Diseases of the heart	10†	10†	10†	10†	10†	10†	12	10†	20†	17	28
	Male	**Malignant neoplasms**	*	6	*	0	*	*	*	6	*	*	*
		Diseases of the heart	9	*	9	*	9	6	6	8	11	9	13
	Female	**Malignant neoplasms**	*	*	6	*	*	0	*	0	*	*	*
		Diseases of the heart	*	*	*	*	*	*	6	*	*	8	15
MARICOPA	**Total**	**Malignant neoplasms**	805	854	906	917	938	1,002	1,006	981	1,073	1,145	1,137
		Diseases of the heart	2,085	2,116	2,124	2,081	2,189	2,164	2,241	2,209	2,380	2,465	2,686
	Male	**Malignant neoplasms**	407	424	437	419	434	477	493	475	510	580	542
		Diseases of the heart	805	845	860	834	899	909	964	910	1,019	1,089	1,141
	Female	**Malignant neoplasms**	398	430	469	498	504	525	513	506	563	565	595
		Diseases of the heart	1,280	1,271	1,263	1,247	1,290	1,255	1,277	1,299	1,361	1,376	1,545
MOHAVE	**Total**	**Malignant neoplasms**	59	58	67	74	79	78	79	72	63	97	96
		Diseases of the heart	148	188	181	178	220	183	239	194	247	282	260
	Male	**Malignant neoplasms**	28	30	31	43	39	44	44	40	35	48	54
		Diseases of the heart	59	81	77	69	89	74	93	85	97	125	136
	Female	**Malignant neoplasms**	31	28	36	31	40	34	35	32	28	49	42
		Diseases of the heart	89	107	104	109	131	109	146	109	150	157	124
NAVAJO	**Total**	**Malignant neoplasms**	28	20	18	24	26	20	24	22	27	25	20†
		Diseases of the heart	42	42	30	39	38	42	58	55	44	56	54
	Male	**Malignant neoplasms**	11	8	8	13	18	8	14	13	11	15	16
		Diseases of the heart	19	18	13	17	13	22	24	22	22	29	27
	Female	**Malignant neoplasms**	17	12	10	11	8	12	10	9	16	10	*
		Diseases of the heart	23	24	17	22	25	20	34	33	22	27	27
PIMA	**Total**	**Malignant neoplasms**	320	309	357	371	348	346	378	327	356	385	359
		Diseases of the heart	737	693	739	695	814	833	785	727	838	883	833
	Male	**Malignant neoplasms**	159	135	184	200	176	187	178	171	199	209	209
		Diseases of the heart	278	278	292	260	320	327	315	310	341	398	357
	Female	**Malignant neoplasms**	161	174	173	171	172	159	200	156	157	176	150
		Diseases of the heart	459	415	447	435	494	506	470	417	497	485	476
PINAL	**Total**	**Malignant neoplasms**	46	34	41	67	42	47	61	86	74	88	81
		Diseases of the heart	108	147	112	131	181	165	151	160	198	181	189
	Male	**Malignant neoplasms**	28	16	27	24	21	24	36	53	38	48	39
		Diseases of the heart	43	55	39	54	71	64	68	69	74	77	96
	Female	**Malignant neoplasms**	18	18	14	43	21	23	25	33	36	40	42
		Diseases of the heart	65	92	73	77	110	101	83	91	124	104	93
SANTA CRUZ	**Total**	**Malignant neoplasms**	10†	10†	10†	13	10†	16	10†	15	10†	10†	12
		Diseases of the heart	14	22	10†	22	20†	24	25	13	38	29	32
	Male	**Malignant neoplasms**	*	*	*	6	*	8	*	8	7	6	6
		Diseases of the heart	7	10	*	13	*	8	11	6	16	9	12
	Female	**Malignant neoplasms**	*	*	6	7	7	8	*	7	*	*	6
		Diseases of the heart	7	12	8	9	15	16	14	7	22	20	20

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, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
TOTAL STATE	**Total**	**Malignant neoplasms**	1,503	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009
YAVAPAI	**Total**	**Malignant neoplasms**	97	88	93	111	96	96	112	123	122	118	146
		Diseases of the heart	178	205	190	191	219	246	229	219	238	254	254
	Male	**Malignant neoplasms**	49	42	53	54	48	53	57	69	82	67	84
		Diseases of the heart	69	97	87	64	89	110	104	85	112	118	117
	Female	**Malignant neoplasms**	48	46	40	57	48	43	55	54	40	51	62
		Diseases of the heart	109	108	103	127	130	136	125	134	126	136	137
YUMA	**Total**	**Malignant neoplasms**	27	33	38	43	40	33	47	37	47	41	55
		Diseases of the heart	68	70	86	99	97	127	107	104	126	138	145
	Male	**Malignant neoplasms**	19	22	20	27	24	21	22	22	29	22	29
		Diseases of the heart	29	32	38	46	40	67	52	50	57	81	68
	Female	**Malignant neoplasms**	8	11	18	16	16	12	25	15	18	19	26
		Diseases of the heart	39	38	48	53	57	60	55	54	69	57	77
UNKNOWN	**Total**	**Malignant neoplasms**	0	0†	0†	0	0†	0	0†	0†	0†	0†	0†
		Diseases of the heart	0†	0†	0†	0	10†	0†	0	0†	10†	10†	10†
	Male	**Malignant neoplasms**	0	*	*	0	*	0	*	*	0	0	*
		Diseases of the heart	0	0	*	0	*	*	0	0	*	*	*
	Female	**Malignant neoplasms**	0	*	*	0	*	0	*	0	*	*	*
		Diseases of the heart	*	*	*	0	*	*	0	*	*	10	*

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 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 2007-2017)

Age group	Gender	Diseases of the heart		Malignant neoplasms (cancer)	
		Count	Col %	Count	Col %
0-84	Total	72,175	100.0%	99,706	100.0%
	Male	46,226	64.0%	54,518	54.7%
	Female	25,949	36.0%	45,187	45.3%
85+	Total	44,569	100.0%	19,336	100.0%
	Male	18,633	41.8%	9,739	50.4%
	Female	25,935	58.2%	9,597	49.6%
Unknown age group	Total	10†	100.0%	0†	**
	Male	8	88.9%	*	**
	Female	*	**	*	**

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, 2007-2017

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 %
2007	**Total**	6,507	100.0%	8,451	100.0%	3,638	100.0%	1,503	100.0%
	Male	4,036	62.0%	4,601	54.4%	1,417	38.9%	763	50.8%
	Female	2,471	38.0%	3,850	45.6%	2,221	61.1%	740	49.2%
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%

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/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
		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	23	8	20	15	16	10	18	19	15	13	10
		25-34	53	37	49	40	47	56	58	52	63	50	65
		35-44	173	129	182	130	169	160	144	163	159	135	177
		45-54	581	515	582	511	529	491	492	467	517	564	493
		55-64	1,146	1,129	1,136	1,168	1,245	1,206	1,191	1,113	1,323	1,375	1,360
		65-74	1,577	1,624	1,643	1,590	1,671	1,796	1,838	1,732	1,983	2,164	2,266
		75-84	2,940	2,889	2,820	2,597	2,695	2,655	2,645	2,456	2,814	2,931	3,136
		85+	3,638	3,705	3,713	3,666	4,056	4,010	4,100	3,942	4,392	4,578	4,769
	Male	**<1**	*	*	7	6	6	*	*	*	*	*	*
		1-4	*	*	*	*	*	*	0	*	*	*	*
		5-14	*	*	*	0	*	*	*	0	0	*	*
		15-24	15	*	9	11	10	*	14	13	10	8	6
		25-34	37	26	33	31	33	40	39	39	40	36	47
		35-44	121	93	131	93	120	107	106	109	106	94	120
		45-54	433	391	418	365	377	364	357	327	381	399	358
		55-64	802	806	840	859	894	837	879	802	946	971	990
		65-74	1,030	1,064	1,061	1,059	1,114	1,196	1,224	1,172	1,289	1,462	1,534
		75-84	1,592	1,644	1,556	1,469	1,556	1,518	1,540	1,451	1,633	1,677	1,811
		85+	1,417	1,497	1,508	1,461	1,650	1,671	1,747	1,657	1,876	2,048	2,101
	Female	**<1**	6	*	*	*	*	*	*	*	*	*	*
		1-4	*	*	*	0	*	*	*	*	*	0	0
		5-14	*	*	*	0	*	*	*	*	*	*	0
		15-24	8	*	11	*	6	*	*	6	*	*	*
		25-34	16	11	16	9	14	16	19	13	23	14	18
		35-44	52	36	51	37	49	53	38	54	53	41	57
		45-54	148	124	164	146	152	127	135	140	136	165	135
		55-64	344	323	296	309	351	369	312	311	377	404	370
		65-74	547	560	582	531	557	600	614	560	694	702	732
		75-84	1,348	1,245	1,264	1,128	1,139	1,137	1,105	1,005	1,181	1,254	1,325
		85+	2,221	2,208	2,204	2,205	2,406	2,339	2,353	2,285	2,516	2,530	2,668

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
White non-Hispanic	**Total**	**<1**	0†	10†	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	9	10†	7	6	9	0†	6	9	0†	7	6
		25-34	27	15	21	20	25	25	28	28	30	25	29
		35-44	98	83	112	84	107	92	84	98	84	77	106
		45-54	436	374	411	372	367	357	347	321	359	381	322
		55-64	877	866	886	891	979	931	936	868	1,003	1,056	995
		65-74	1,308	1,315	1,332	1,310	1,375	1,478	1,494	1,413	1,585	1,745	1,797
		75-84	2,511	2,537	2,404	2,228	2,298	2,239	2,235	2,045	2,364	2,451	2,597
		85+	3,326	3,336	3,360	3,303	3,671	3,587	3,664	3,539	3,920	4,020	4,191
	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	7	*	*	*	6	*	*	6	*	*	*
		25-34	19	10	13	15	17	18	21	18	17	16	21
		35-44	70	58	86	63	77	65	64	68	56	52	69
		45-54	332	291	300	270	260	266	253	225	264	269	241
		55-64	620	620	653	653	699	657	685	639	732	756	720
		65-74	877	875	874	886	936	998	1,003	957	1,052	1,178	1,227
		75-84	1,384	1,452	1,340	1,287	1,346	1,304	1,331	1,219	1,391	1,436	1,529
		85+	1,301	1,361	1,379	1,310	1,500	1,511	1,568	1,485	1,703	1,816	1,839
	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	*	8	7	7	10	13	9	8
		35-44	28	25	26	21	30	27	20	30	28	25	37
		45-54	104	83	111	102	107	91	94	96	95	112	81
		55-64	257	246	233	238	280	274	251	229	271	300	275
		65-74	431	440	458	424	439	480	491	456	533	567	570
		75-84	1,127	1,085	1,064	941	952	935	904	826	973	1,015	1,068
		85+	2,025	1,975	1,980	1,993	2,171	2,076	2,096	2,054	2,217	2,204	2,352

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
Hispanic or Latino	**Total**	**<1**	0†	0†	0†	0†	10†	0†	0	10†	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	7	0†	9	0†	0†	0†	7	6	0†	0†	0†
		25-34	18	6	16	16	11	23	13	13	18	11	13
		35-44	44	19	32	26	31	37	43	28	40	35	30
		45-54	85	77	87	67	84	76	72	79	86	106	89
		55-64	167	144	143	156	146	164	151	144	170	165	176
		65-74	176	180	188	170	187	182	203	182	251	254	250
		75-84	300	242	274	230	260	257	254	260	305	298	331
		85+	193	262	235	247	284	298	294	300	319	377	375
	Male	**<1**	*	*	*	*	*	*	0	*	*	0	*
		1-4	0	*	*	*	*	0	0	*	0	*	0
		5-14	*	0	*	0	*	0	0	0	0	*	*
		15-24	*	*	*	*	*	*	6	*	*	*	*
		25-34	13	*	11	13	8	18	7	10	11	10	9
		35-44	34	16	25	16	22	20	27	19	30	26	22
		45-54	60	60	63	46	63	55	51	57	60	76	62
		55-64	119	111	109	118	103	114	117	101	123	113	137
		65-74	106	120	115	106	110	119	133	122	154	173	166
		75-84	148	141	139	105	138	131	131	151	165	151	172
		85+	77	93	94	105	108	115	118	125	110	164	167
	Female	**<1**	*	*	0	*	*	*	0	*	*	0	0
		1-4	*	0	0	0	0	0	*	*	0	0	0
		5-14	0	*	0	0	0	*	*	0	*	0	0
		15-24	*	0	*	*	*	*	*	*	0	*	0
		25-34	*	*	*	*	*	*	6	*	7	*	*
		35-44	10	*	7	10	9	17	16	9	10	9	8
		45-54	25	17	24	21	21	21	21	22	26	30	27
		55-64	48	33	34	38	43	50	34	43	47	52	39
		65-74	70	60	73	64	77	63	70	60	97	81	84
		75-84	152	101	135	125	122	126	123	109	140	147	159
		85+	116	169	141	142	176	183	176	175	209	213	208

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
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†	12	7	0†	6	10†	11	0†	6	10†	7
		35-44	11	15	17	11	15	18	7	16	21	7	22
		45-54	36	27	47	39	40	33	45	41	32	47	36
		55-64	55	59	51	63	60	59	58	60	93	92	94
		65-74	49	51	62	48	52	65	77	60	81	85	78
		75-84	55	46	60	65	56	70	68	65	63	73	66
		85+	62	47	47	40	46	51	58	38	69	78	76
	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	6	11	9	7	9	13	7	8	10	*	16
		45-54	22	12	29	25	26	25	32	25	24	36	26
		55-64	34	40	38	42	49	36	46	37	54	63	61
		65-74	21	28	37	27	30	35	51	39	47	57	49
		75-84	23	24	32	41	32	32	39	35	36	38	35
		85+	21	17	12	15	25	18	23	16	26	25	32
	Female	**<1**	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
		15-24	*	0	0	0	*	*	*	0	*	0	*
		25-34	0	*	*	*	*	*	6	0	*	*	*
		35-44	*	*	8	*	6	*	0	8	11	*	6
		45-54	14	15	18	14	14	8	13	16	8	11	10
		55-64	21	19	13	21	11	23	12	23	39	29	33
		65-74	28	23	25	21	22	30	26	21	34	28	29
		75-84	32	22	28	24	24	38	29	30	27	35	31
		85+	41	30	35	25	21	33	35	22	43	53	44

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
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†	6	0	0
		25-34	7	0†	0†	0†	0†	0†	10†	7	9	8	10
		35-44	18	7	19	7	12	12	7	19	11	12	14
		45-54	19	29	29	29	27	21	23	19	34	24	35
		55-64	36	49	46	45	42	36	36	29	40	45	46
		65-74	35	55	44	42	46	48	43	60	47	61	64
		75-84	57	38	57	47	59	62	59	55	51	74	82
		85+	43	43	47	54	33	45	54	44	46	60	68
	Male	**<1**	*	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
		35-44	9	*	9	6	8	8	*	12	8	9	8
		45-54	14	21	19	20	21	14	17	14	28	14	25
		55-64	21	29	32	37	31	22	27	16	23	27	29
		65-74	24	25	27	25	31	27	23	43	27	43	38
		75-84	30	12	32	20	26	37	24	31	26	40	48
		85+	14	19	15	21	9	16	28	25	20	27	37
	Female	**<1**	*	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
		25-34	*	*	0	0	*	*	0	0	*	*	*
		35-44	9	*	10	*	*	*	*	7	*	*	6
		45-54	*	8	10	9	6	7	6	*	6	10	10
		55-64	15	20	14	8	11	14	9	13	17	18	17
		65-74	11	30	17	17	15	21	20	17	20	18	26
		75-84	27	26	25	27	33	25	35	24	25	34	34
		85+	29	24	32	33	24	29	26	19	26	33	31

TABLE 10
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	9	9	9	8	10	0†	6	6	10†	0†	6
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†	0†
		45-54	0†	10†	8	0†	11	0†	10†	7	6	6	8
		55-64	10	8	10	13	18	16	10	12	17	17	15
		65-74	8	16	17	20	11	23	21	17	19	19	36
		75-84	15	17	25	27	22	27	29	31	31	35	39
		85+	14	15	24	22	22	29	30	21	37	43	52
	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	*	*
		35-44	*	*	*	*	*	*	*	*	*	*	*
		45-54	7	*	7	*	7	*	*	6	*	*	*
		55-64	*	*	8	9	12	8	*	9	14	12	13
		65-74	6	9	8	15	7	17	14	11	9	11	21
		75-84	*	8	13	16	14	14	15	15	15	12	13
		85+	25	7	8	10	8	11	10	6	16	16	23
	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	*	*	0
		45-54	0	*	*	0	*	0	*	*	*	*	6
		55-64	*	*	*	*	6	8	6	*	*	*	*
		65-74	6	7	9	*	*	6	7	6	10	8	15
		75-84	9	9	12	11	8	13	14	16	16	23	26
		85+	10	8	16	12	14	18	20	15	21	27	29

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 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
		1-4	12	13	9	9	6	7	13	9	7	6	9
		5-14	30	17	24	17	21	26	16	20	7	12	21
		15-24	35	41	34	31	32	28	31	42	32	32	22
		25-34	63	76	79	86	62	89	89	60	69	69	77
		35-44	220	206	226	179	206	215	227	191	209	223	210
		45-54	778	733	780	783	781	783	750	701	737	653	689
		55-64	1,783	1,781	1,769	1,894	1,928	1,996	2,051	1,861	2,060	2,117	2,038
		65-74	2,528	2,623	2,709	2,755	2,806	3,002	3,097	3,051	3,337	3,455	3,532
		75-84	3,002	2,931	2,896	2,940	3,015	2,987	3,109	2,911	3,274	3,173	3,309
		85+	1,503	1,517	1,626	1,728	1,694	1,748	1,809	1,753	1,891	2,058	2,009
	Male	**<1**	0	*	0	*	*	*	0	0	*	*	0
		1-4	*	*	*	*	*	*	9	*	6	*	6
		5-14	10	12	17	7	7	13	7	10	*	7	9
		15-24	17	23	20	16	15	18	17	25	19	15	11
		25-34	34	45	35	47	29	39	50	30	37	34	48
		35-44	90	94	98	82	81	87	88	78	101	87	86
		45-54	396	394	397	371	400	405	367	330	375	330	348
		55-64	993	957	955	1,063	1,030	1,110	1,118	1,022	1,110	1,153	1,131
		65-74	1,459	1,470	1,488	1,530	1,568	1,691	1,687	1,696	1,858	1,965	1,987
		75-84	1,597	1,622	1,609	1,672	1,685	1,688	1,713	1,638	1,780	1,759	1,840
		85+	763	740	814	848	825	882	894	901	971	1,074	1,027
	Female	**<1**	0	*	0	*	0	*	*	*	0	*	*
		1-4	7	8	*	*	*	*	*	8	*	*	*
		5-14	20	*	7	10	14	13	9	10	*	*	12
		15-24	18	18	14	15	17	10	14	17	13	17	11
		25-34	29	31	44	39	33	50	39	30	32	35	29
		35-44	130	112	128	97	125	128	139	113	108	136	124
		45-54	382	339	383	412	381	378	383	371	362	323	341
		55-64	790	824	814	831	898	886	933	839	950	964	907
		65-74	1,069	1,153	1,220	1,225	1,238	1,311	1,410	1,355	1,479	1,490	1,545
		75-84	1,405	1,309	1,287	1,268	1,330	1,299	1,396	1,273	1,494	1,414	1,469
		85+	740	777	812	880	869	866	915	852	920	984	982

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
White non-Hispanic	**Total**	**<1**	0	0†	0	0†	0†	0†	0	0	0†	0	0
		1-4	9	0†	10†	0†	0†	0†	0†	0†	0†	0†	10†
		5-14	8	10	6	0†	6	8	7	12	0†	10†	9
		15-24	15	20	11	16	15	14	11	18	12	10	7
		25-34	35	41	40	42	28	47	37	23	35	37	41
		35-44	139	125	129	112	122	124	121	120	117	125	114
		45-54	570	526	582	571	549	545	514	498	484	412	424
		55-64	1,437	1,422	1,407	1,495	1,542	1,558	1,611	1,439	1,579	1,627	1,510
		65-74	2,147	2,207	2,272	2,339	2,388	2,541	2,612	2,551	2,786	2,897	2,909
		75-84	2,647	2,560	2,497	2,564	2,590	2,578	2,622	2,460	2,765	2,712	2,805
		85+	1,353	1,356	1,465	1,542	1,489	1,540	1,585	1,535	1,677	1,765	1,741
	Male	**<1**	0	*	0	0	*	*	0	0	*	0	0
		1-4	*	0	*	*	*	*	*	0	*	0	*
		5-14	*	8	*	0	*	6	*	*	*	*	*
		15-24	7	12	7	8	7	9	6	11	7	*	*
		25-34	19	25	17	24	15	18	18	11	18	21	28
		35-44	63	55	56	53	53	49	50	58	53	56	50
		45-54	281	296	294	275	278	293	249	232	257	195	237
		55-64	802	761	772	842	814	857	890	790	859	869	842
		65-74	1,237	1,226	1,252	1,315	1,345	1,424	1,449	1,423	1,552	1,644	1,636
		75-84	1,412	1,406	1,381	1,465	1,454	1,470	1,461	1,393	1,499	1,516	1,574
		85+	686	669	739	754	727	775	795	799	854	925	915
	Female	**<1**	0	0	0	*	0	*	0	0	0	0	0
		1-4	*	*	*	*	*	*	*	*	*	*	*
		5-14	6	*	*	*	*	*	*	7	*	*	*
		15-24	8	8	*	8	8	*	*	7	*	*	*
		25-34	16	16	23	18	13	29	19	12	17	16	13
		35-44	76	70	73	59	69	75	71	62	64	69	64
		45-54	289	230	288	296	271	252	265	266	227	217	187
		55-64	635	661	635	653	728	701	721	649	720	758	668
		65-74	910	981	1,020	1,024	1,043	1,117	1,163	1,128	1,234	1,253	1,273
		75-84	1,235	1,154	1,116	1,099	1,136	1,108	1,161	1,067	1,266	1,196	1,231
		85+	667	687	726	788	762	765	790	736	823	840	826

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
Hispanic or Latino	**Total**	**<1**	0	0†	0	0†	0	0	0†	0†	0	0†	0†
		1-4	0†	8	0†	0†	0†	0†	10	0†	0†	0†	0†
		5-14	15	10†	15	13	13	13	8	7	0†	7	10
		15-24	13	15	18	9	14	12	14	22	16	19	11
		25-34	22	30	29	30	27	26	33	26	20	22	24
		35-44	54	51	60	50	64	60	73	45	63	68	64
		45-54	130	128	121	144	145	159	155	124	178	170	170
		55-64	202	193	226	236	235	252	290	265	308	283	291
		65-74	235	269	271	260	253	270	306	312	329	340	366
		75-84	236	245	262	246	290	288	312	303	336	294	310
		85+	92	105	107	125	130	151	147	150	133	198	171
	Male	**<1**	0	0	0	*	0	0	0	0	0	*	0
		1-4	*	*	*	*	*	*	8	0	*	*	*
		5-14	*	*	12	6	*	*	*	*	*	*	*
		15-24	7	10	10	*	8	8	8	13	9	8	*
		25-34	12	17	12	13	11	13	22	14	11	8	12
		35-44	21	23	27	22	26	23	27	13	32	21	24
		45-54	72	66	65	73	78	73	75	64	85	101	77
		55-64	110	105	117	127	146	153	149	156	166	170	163
		65-74	143	163	158	128	137	158	153	169	193	208	206
		75-84	125	142	157	127	170	158	166	170	193	154	167
		85+	46	45	46	64	68	83	64	75	74	110	80
	Female	**<1**	0	*	0	*	0	0	*	*	0	*	*
		1-4	*	*	*	0	0	0	*	*	0	*	*
		5-14	10	*	*	7	8	9	*	*	0	*	6
		15-24	6	*	8	*	6	*	6	9	7	11	6
		25-34	10	13	17	17	16	13	11	12	9	14	12
		35-44	33	28	33	28	38	37	46	32	31	47	40
		45-54	58	62	56	71	67	86	80	60	93	69	93
		55-64	92	88	109	109	89	99	141	109	142	113	128
		65-74	92	106	112	132	116	112	153	143	136	132	160
		75-84	111	103	105	119	120	130	146	133	143	140	143
		85+	46	60	61	61	62	68	83	75	59	88	91

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
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†	0†	10†	6	10†	0†	0†	0†
		35-44	11	8	14	6	13	14	11	12	13	14	11
		45-54	44	37	25	31	41	37	44	34	35	30	40
		55-64	74	87	61	86	73	96	76	76	86	91	119
		65-74	65	64	75	74	77	93	89	98	105	129	116
		75-84	48	45	67	64	45	56	78	58	59	77	74
		85+	21	20	22	25	32	22	29	26	29	35	26
	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	0
		25-34	*	0	*	*	0	*	*	*	*	*	*
		35-44	*	*	6	*	*	9	*	*	7	*	*
		45-54	26	14	9	10	22	23	25	13	16	17	11
		55-64	44	46	32	51	31	54	38	35	42	54	65
		65-74	41	38	37	45	39	59	47	55	61	74	71
		75-84	23	29	36	43	22	29	41	29	34	45	38
		85+	14	6	15	8	11	9	10	11	14	19	*
	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	*
		25-34	*	*	0	*	*	*	*	*	*	*	0
		35-44	8	*	8	*	11	*	8	10	6	9	6
		45-54	18	23	16	21	19	14	19	21	19	13	29
		55-64	30	41	29	35	42	42	38	41	44	37	54
		65-74	24	26	38	29	38	34	42	43	44	55	45
		75-84	25	16	31	21	23	27	37	29	25	32	36
		85+	7	14	7	17	21	13	19	15	15	16	21

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
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	10†	0†	0†	0†	0†	0†	0	0†	0†	0†	0†
		25-34	0†	0†	7	6	10†	8	9	0†	8	0†	10†
		35-44	11	14	17	0†	0†	9	14	6	12	9	11
		45-54	23	30	37	24	28	19	28	23	30	21	27
		55-64	43	49	48	45	44	56	54	54	49	62	58
		65-74	57	46	66	52	58	60	55	50	63	48	67
		75-84	51	48	36	38	46	40	51	60	62	42	57
		85+	30	23	25	25	26	20	31	24	30	36	36
	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	*	*
		45-54	10	15	20	9	12	9	16	11	13	11	10
		55-64	22	26	19	25	24	29	30	25	25	34	30
		65-74	29	21	29	26	30	33	19	33	26	23	31
		75-84	27	26	21	19	21	20	22	32	31	17	23
		85+	15	12	11	17	13	7	15	12	15	15	10
	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	*	0
		25-34	0	0	*	*	*	*	*	*	*	*	*
		35-44	8	8	9	*	*	6	9	*	6	6	6
		45-54	13	15	17	15	16	10	12	12	17	10	17
		55-64	21	23	29	20	20	27	24	29	24	28	28
		65-74	28	25	37	26	28	27	36	17	37	25	36
		75-84	24	22	15	19	25	20	29	28	31	25	34
		85+	15	11	14	8	13	13	16	12	15	21	26

TABLE 11
NUMBER OF DEATHS FROM MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0	0†	0	0†	0†	0†	0†	0†	0†	0†	0†
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	10†	8	6	8	0†	8	8	8	0†	7	9
		45-54	11	10	15	13	18	23	9	22	10	20	23
		55-64	25	27	27	32	34	34	20	27	38	54	39
		65-74	22	35	25	30	30	38	35	40	54	41	47
		75-84	20	24	34	28	44	25	46	30	52	48	48
		85+	6	9	7	11	17	15	17	18	22	24	33
	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
		15-24	*	0	*	0	0	0	*	0	0	*	0
		25-34	0	0	0	*	*	*	*	*	*	*	*
		35-44	0	7	*	*	0	*	*	*	*	*	*
		45-54	7	*	9	*	10	7	*	10	*	6	11
		55-64	14	17	15	18	15	17	11	16	18	26	17
		65-74	7	20	12	16	17	17	19	16	26	16	22
		75-84	10	13	14	18	18	11	23	14	23	27	27
		85+	*	6	*	*	6	8	10	*	14	*	16
	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
		15-24	0	0	*	0	*	0	*	*	0	0	0
		25-34	*	*	*	*	0	*	*	*	*	*	*
		35-44	*	*	*	*	*	*	*	7	*	*	7
		45-54	*	7	6	9	8	16	7	12	6	14	12
		55-64	11	10	12	14	19	17	9	11	20	28	22
		65-74	15	15	13	14	13	21	16	24	28	25	25
		75-84	10	11	20	10	26	14	23	16	29	21	21
		85+	*	*	*	6	11	7	7	14	8	19	17

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 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
		1-4	**	**	**	**	**	**	**	**	**	**	**
		5-14	**	**	**	0.0	**	**	**	**	**	**	**
		15-24	2.6	0.9	2.2	1.7	1.8	1.1	1.9	2.0	1.6	1.4	1.0
		25-34	5.7	3.9	5.1	4.7	5.4	6.5	6.7	5.9	7.0	5.5	6.9
		35-44	19.6	14.4	20.0	15.8	20.4	19.3	17.3	19.5	18.9	16.0	20.9
		45-54	69.9	61.0	68.3	60.6	62.4	58.7	58.9	55.5	61.4	66.8	58.0
		55-64	176.5	171.1	170.6	160.8	170.3	161.2	156.8	142.4	166.0	168.8	162.8
		65-74	370.9	375.5	376.5	319.3	333.3	333.4	324.3	291.7	317.1	330.7	329.7
		75-84	973.2	940.8	910.4	925.7	954.0	905.1	876.0	788.6	866.8	869.3	886.0
		85+	3353.3	3363.4	3341.0	3545.5	3896.6	3697.3	3649.0	3286.6	3506.4	3496.1	3464.3
	Male	**<1**	**	**	14.9	13.5	13.3	**	**	**	**	**	**
		1-4	**	**	**	**	**	**	0.0	**	**	**	**
		5-14	**	**	**	0.0	**	**	**	0.0	0.0	**	**
		15-24	3.2	**	1.9	2.4	2.1	**	2.9	2.7	2.0	1.6	1.2
		25-34	7.6	5.3	6.6	7.1	7.5	9.0	8.7	8.5	8.6	7.6	9.7
		35-44	26.8	20.3	28.3	22.3	28.6	25.5	25.1	25.9	25.1	22.2	28.1
		45-54	105.4	93.7	99.3	88.0	90.2	87.8	86.1	78.4	91.1	95.3	84.9
		55-64	256.8	254.0	262.3	248.5	256.9	235.3	243.5	216.0	250.0	251.0	249.4
		65-74	516.8	524.6	518.4	448.3	468.3	470.7	458.7	418.1	437.5	474.5	474.4
		75-84	1185.1	1203.6	1129.3	1150.1	1209.7	1124.5	1103.6	1000.1	1077.2	1065.8	1097.5
		85+	3488.4	3627.9	3622.4	3871.4	4342.6	4200.5	4201.5	3630.0	3873.8	3967.4	3830.7
	Female	**<1**	11.9	**	**	**	**	**	**	**	**	**	**
		1-4	**	**	**	0.0	**	**	**	**	**	0.0	0.0
		5-14	**	**	**	0.0	**	**	**	**	**	**	0.0
		15-24	1.9	**	2.5	**	1.4	**	**	1.3	**	**	**
		25-34	3.6	2.4	3.5	2.1	3.3	3.8	4.5	3.0	5.3	3.2	4.0
		35-44	12.0	8.2	11.4	9.1	12.0	12.9	9.2	13.1	12.7	9.8	13.5
		45-54	35.2	29.0	38.1	34.1	35.3	30.1	32.1	33.0	32.1	38.8	31.5
		55-64	102.1	94.4	85.6	81.2	91.6	94.0	78.3	75.8	90.0	94.5	84.4
		65-74	242.2	243.9	251.2	202.9	211.4	210.8	204.7	178.7	209.8	202.8	201.2
		75-84	803.5	730.3	735.0	738.2	740.3	718.1	680.3	604.1	682.5	697.3	701.3
		85+	3272.4	3204.9	3170.9	3358.1	3640.2	3405.9	3324.4	3075.7	3274.9	3189.4	3221.6

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
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	2.0	**	1.5	1.4	2.1	**	1.3	2.1	**	1.7	1.4
		25-34	5.7	3.1	4.2	4.6	5.6	5.5	6.2	6.2	6.6	5.5	6.3
		35-44	18.7	15.6	20.7	18.6	23.4	20.2	18.5	22.0	19.1	17.7	24.4
		45-54	76.2	64.3	70.0	67.5	65.5	66.3	65.7	60.9	69.3	74.5	63.2
		55-64	174.8	169.8	172.1	163.4	177.2	167.9	168.5	152.2	174.9	182.5	168.9
		65-74	380.9	376.5	377.9	324.3	336.2	337.6	325.8	294.1	315.5	333.8	329.1
		75-84	984.0	977.7	918.2	945.5	964.5	912.1	888.1	789.5	879.4	880.2	889.1
		85+	3492.6	3449.3	3443.3	3660.6	4027.7	3812.8	3777.4	3437.7	3670.8	3630.8	3618.2
	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	2.9	**	**	**	2.7	**	**	2.7	**	**	**
		25-34	7.8	4.0	5.2	6.7	7.4	7.8	9.1	7.8	7.3	6.9	8.9
		35-44	26.5	21.6	31.7	27.2	32.7	27.9	27.6	29.9	25.0	23.5	31.2
		45-54	117.8	101.6	103.8	99.4	94.1	99.6	96.2	86.0	102.3	105.5	94.8
		55-64	257.0	252.9	263.9	251.0	265.0	248.9	259.1	235.4	268.1	274.3	256.4
		65-74	542.5	532.1	526.7	456.9	476.8	478.5	460.4	417.6	440.2	474.2	473.4
		75-84	1223.4	1261.6	1154.0	1181.8	1222.3	1137.5	1128.3	994.6	1089.2	1085.5	1103.2
		85+	3635.8	3743.5	3759.4	3964.2	4493.2	4354.2	4339.8	3755.7	4080.6	4110.0	3932.2
	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	3.4	**	3.2	**	3.7	3.2	3.2	4.6	5.9	4.1	3.6
		35-44	10.8	9.4	9.6	9.5	13.6	12.2	9.0	13.7	12.9	11.7	17.3
		45-54	35.8	28.1	37.3	36.5	37.7	33.5	35.5	36.2	36.5	43.7	31.7
		55-64	98.6	92.9	87.1	83.5	96.9	94.4	86.2	76.6	90.2	99.0	89.2
		65-74	237.1	238.0	245.5	201.9	206.4	209.4	204.0	181.5	202.3	206.7	198.7
		75-84	793.4	751.4	730.3	742.4	742.9	714.6	676.2	605.2	689.6	694.3	695.7
		85+	3406.4	3272.0	3251.3	3485.2	3758.7	3496.4	3443.5	3239.3	3407.8	3312.6	3405.6

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
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	2.4	**	3.0	**	**	**	1.9	1.8	**	**	**
		25-34	5.5	1.8	4.7	5.6	3.9	7.8	4.4	4.7	5.7	3.4	3.9
		35-44	17.7	7.5	12.5	10.4	12.2	14.1	16.0	11.0	14.2	12.2	10.3
		45-54	49.7	44.4	49.7	35.8	45.2	37.8	34.6	39.6	38.5	46.2	37.8
		55-64	178.2	151.2	148.8	139.0	130.2	130.6	113.9	111.7	116.0	106.6	108.7
		65-74	345.0	346.9	359.2	295.8	325.2	280.1	290.7	264.0	317.2	300.4	276.5
		75-84	1020.4	809.4	908.8	807.4	910.9	820.5	772.8	800.6	849.4	790.7	838.6
		85+	2352.8	3146.4	2797.6	2970.2	3417.6	3102.7	2843.6	2746.7	2579.2	2766.2	2555.7
	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	7.2	**	5.9	8.9	5.5	11.9	4.6	6.9	6.8	6.0	5.2
		35-44	25.8	12.0	18.5	12.8	17.7	15.3	20.2	15.0	21.4	18.2	15.0
		45-54	69.5	68.4	71.2	49.8	68.7	55.1	49.3	57.5	54.2	66.8	53.4
		55-64	259.0	237.6	231.2	219.4	192.3	189.0	183.7	163.6	175.7	152.8	177.3
		65-74	452.2	503.2	478.0	407.3	422.7	401.5	415.6	386.4	423.1	443.0	396.2
		75-84	1154.1	1080.9	1056.7	872.2	1145.4	973.2	921.0	1075.9	1070.8	935.2	1016.1
		85+	2545.5	3024.4	3029.3	3463.1	3560.8	3314.7	3134.7	3095.6	2417.6	3198.8	3027.0
	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	0.0
		15-24	**	0.0	**	**	**	**	**	**	0.0	**	0.0
		25-34	**	**	**	**	**	**	4.1	**	4.6	**	**
		35-44	8.5	**	5.8	8.0	6.9	12.8	11.8	7.1	7.0	6.3	5.5
		45-54	29.6	19.8	27.7	22.2	22.3	20.8	20.0	22.0	23.1	25.9	22.7
		55-64	100.5	68.0	69.4	65.0	73.4	76.6	49.4	64.0	61.4	64.3	46.1
		65-74	253.9	214.0	258.1	203.5	244.6	178.3	185.0	160.6	227.0	178.0	173.1
		75-84	917.0	599.3	794.4	760.0	739.7	705.5	659.7	591.1	683.0	682.4	705.3
		85+	2240.2	3217.8	2661.9	2687.4	3335.2	2982.8	2676.9	2542.1	2673.3	2505.3	2271.7

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
Black or African American	**Total**	**<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	**	**	0.0
		5-14	**	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	29.9	40.2	45.1	29.7	40.0	47.7	18.5	35.0	51.7	16.6	50.7
		45-54	120.7	89.3	154.0	113.6	115.2	94.7	128.1	102.0	86.8	125.5	93.7
		55-64	315.3	333.8	286.1	289.6	270.5	245.7	231.2	208.8	330.6	310.3	301.6
		65-74	468.2	481.1	580.7	438.4	464.6	552.9	612.6	407.1	534.9	515.6	436.8
		75-84	735.0	607.7	786.9	1326.8	1118.7	1316.2	1227.6	1015.1	970.9	1068.7	896.5
		85+	3662.1	2740.5	2719.9	2713.7	2987.0	3375.0	3827.0	1928.0	3434.5	3639.8	3308.7
	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	30.1	54.3	44.1	34.9	44.5	63.5	34.1	33.3	45.9	**	69.6
		45-54	137.4	73.9	177.0	138.0	141.9	136.0	172.4	118.7	123.2	183.8	129.4
		55-64	386.7	448.8	422.7	379.5	434.3	295.5	363.2	254.2	378.3	418.6	385.6
		65-74	384.1	505.5	663.3	519.6	567.2	627.1	853.6	557.1	645.8	722.7	572.2
		75-84	547.6	565.2	747.8	1955.2	1493.9	1364.6	1578.0	1211.9	1229.9	1229.8	1057.4
		85+	3317.5	2652.1	1860.5	3296.7	5285.4	3885.9	4941.0	2500.0	3724.9	3355.7	3897.7
	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
		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	**	**	**	**	**	32.0	0.0	**	**	**
		35-44	**	**	46.4	**	34.7	**	0.0	37.0	58.3	**	29.4
		45-54	101.3	107.1	127.4	86.4	85.4	48.6	78.4	83.6	46.1	61.6	54.5
		55-64	242.8	216.8	147.1	196.5	100.9	194.4	96.6	162.2	281.5	198.6	215.1
		65-74	560.2	454.4	490.3	365.0	372.6	485.8	394.3	271.4	432.3	325.7	312.1
		75-84	974.7	662.1	836.8	856.5	838.0	1278.0	945.4	853.5	758.0	935.6	765.1
		85+	3867.9	2793.3	3231.8	2453.4	1968.1	3149.1	3333.1	1652.9	3279.9	3791.1	2981.0

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
American Indian or Alaska Native	**Total**	**<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	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	0.0
		25-34	13.9	**	**	**	**	**	**	12.0	20.2	17.4	21.0
		35-44	40.5	15.5	41.7	19.0	26.9	32.3	18.7	41.0	31.8	34.3	39.3
		45-54	51.1	77.0	76.2	82.0	64.8	57.8	62.8	44.0	100.2	70.9	102.9
		55-64	155.4	208.7	194.1	196.7	160.4	141.5	134.9	94.0	151.4	164.0	161.4
		65-74	272.9	419.6	331.4	339.5	331.6	354.3	300.9	365.4	315.6	387.4	383.7
		75-84	875.3	579.0	863.9	811.7	922.0	965.6	879.5	733.8	727.8	1005.8	1073.7
		85+	1804.4	1787.9	1936.5	2917.3	1620.8	2177.7	2443.4	1772.8	1923.9	2374.4	2535.4
	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	**
		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
		35-44	41.7	**	40.6	33.3	36.1	44.0	**	52.0	47.6	53.1	46.4
		45-54	81.1	120.1	107.6	120.4	105.7	81.1	98.1	67.7	174.9	88.0	156.5
		55-64	192.6	262.2	286.5	352.0	253.9	189.9	222.5	113.2	195.9	220.7	227.7
		65-74	429.6	430.8	461.3	460.7	505.2	449.6	360.1	588.0	413.4	625.3	522.8
		75-84	1073.3	426.1	1132.3	848.2	988.6	1401.2	857.6	987.6	909.7	1341.4	1561.5
		85+	1709.4	2300.2	1800.7	3167.4	1224.5	2183.3	3651.2	2890.2	2291.0	2957.3	3771.7
	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	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
		25-34	**	**	0.0	0.0	**	**	0.0	0.0	**	**	**
		35-44	39.3	**	42.7	**	**	**	**	30.1	**	**	32.6
		45-54	**	39.6	49.0	48.0	27.5	36.6	31.1	**	33.5	55.8	55.4
		55-64	122.4	161.1	111.7	64.7	78.7	101.1	61.9	77.7	115.8	118.4	107.9
		65-74	152.0	410.7	229.0	244.8	193.9	278.5	253.1	186.6	239.3	202.9	276.3
		75-84	726.4	693.9	662.8	786.7	875.6	661.3	895.2	551.0	602.6	777.1	745.1
		85+	1854.2	1519.9	2007.5	2777.8	1844.7	2174.6	1801.6	1175.0	1712.8	2044.6	1822.5

TABLE 12
AGE-SPECIFIC MORTALITY RATES FOR DISEASES OF THE HEART BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	8.8	9.1	9.8	9.2	11.3	**	6.7	7.1	**	**	6.8
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	**	**	**	**	**	**	**	**	**	**	**
		45-54	**	**	37.4	**	42.1	**	**	22.1	19.8	18.8	24.0
		55-64	76.3	60.3	74.9	74.7	99.7	85.0	50.3	52.5	75.5	71.0	60.8
		65-74	107.2	212.1	223.8	211.8	112.5	216.3	181.9	128.5	137.5	128.4	222.0
		75-84	426.1	478.2	698.5	653.9	513.8	564.9	559.5	514.4	482.9	512.5	530.2
		85+	1425.7	1509.1	2397.6	2131.8	2071.6	2420.1	2313.2	1298.7	2180.3	2229.1	2385.3
	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	**	**
		35-44	**	**	**	**	**	**	**	**	**	**	**
		45-54	75.1	**	73.6	**	59.5	**	**	41.3	**	**	**
		55-64	**	**	145.4	130.6	166.8	105.4	**	95.2	151.5	120.6	126.5
		65-74	189.9	281.7	248.6	380.4	170.2	394.7	303.0	209.0	164.5	187.2	326.4
		75-84	**	573.5	925.3	990.1	828.9	735.5	720.5	610.7	558.2	423.4	419.2
		85+	6944.4	1917.8	2173.9	2754.8	2156.3	2657.7	2209.8	1063.8	2792.3	2457.8	3026.3
	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	**	**	0.0
		45-54	0.0	**	**	0.0	**	0.0	**	**	**	**	32.9
		55-64	**	**	**	**	55.3	71.2	51.1	**	**	**	**
		65-74	139.5	160.9	205.6	**	**	94.8	101.1	75.3	119.7	89.7	153.4
		75-84	420.8	416.7	552.0	437.7	308.5	452.0	451.4	448.1	428.7	575.7	611.0
		85+	1607.7	1271.9	2527.6	1793.7	2026.0	2294.7	2368.7	1424.5	1868.3	2112.7	2042.3

Note: [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/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
		1-4	3.0	3.2	2.2	2.4	1.6	2.0	3.7	2.6	2.0	1.7	2.5
		5-14	3.3	1.8	2.6	1.9	2.3	2.8	1.7	2.2	0.8	1.3	2.3
		15-24	3.9	4.5	3.7	3.4	3.5	3.0	3.3	4.5	3.4	3.4	2.3
		25-34	6.8	8.0	8.2	10.0	7.2	10.3	10.2	6.8	7.7	7.5	8.2
		35-44	24.9	22.9	24.8	21.8	24.9	25.9	27.2	22.9	24.9	26.5	24.7
		45-54	93.6	86.8	91.6	92.9	92.1	93.6	89.8	83.3	87.5	77.4	81.0
		55-64	274.6	270.0	265.7	260.8	263.7	266.8	270.0	238.1	258.4	259.9	243.9
		65-74	594.6	606.5	620.8	553.3	559.7	557.2	546.4	513.9	533.6	528.0	513.9
		75-84	993.7	954.5	934.9	1048.0	1067.3	1018.3	1029.6	934.7	1008.5	941.0	934.9
		85+	1385.4	1377.1	1463.1	1671.2	1627.4	1611.7	1610.0	1461.6	1509.7	1571.6	1459.4
	Male	**<1**	0.0	**	0.0	**	**	**	0.0	0.0	**	**	0.0
		1-4	**	**	**	**	**	**	5.0	**	3.4	**	3.3
		5-14	2.1	2.5	3.5	1.5	1.5	2.8	1.5	2.1	**	1.5	1.9
		15-24	3.7	4.9	4.2	3.4	3.2	3.8	3.5	5.1	3.9	3.1	2.2
		25-34	7.0	9.1	7.0	10.7	6.6	8.8	11.2	6.6	8.0	7.2	9.9
		35-44	19.9	20.5	21.2	19.7	19.3	20.8	20.9	18.5	23.9	20.5	20.1
		45-54	96.4	94.4	94.3	89.4	95.7	97.7	88.5	79.1	89.7	78.8	82.6
		55-64	318.0	301.6	298.2	307.6	296.0	312.1	309.6	275.3	293.4	298.0	285.0
		65-74	732.0	724.8	727.1	647.7	659.2	665.5	632.2	605.0	630.6	637.8	614.5
		75-84	1188.9	1187.5	1167.8	1309.0	1310.0	1250.5	1227.6	1129.0	1174.2	1118.0	1115.1
		85+	1878.4	1793.4	1955.3	2247.1	2171.3	2217.1	2150.1	1973.8	2005.0	2080.5	1872.5
	Female	**<1**	0.0	**	0.0	**	0.0	**	**	**	0.0	**	**
		1-4	3.6	4.1	**	**	**	**	**	4.7	**	**	**
		5-14	4.5	**	1.5	2.3	3.1	2.9	2.0	2.2	**	**	2.7
		15-24	4.2	4.2	3.2	3.4	3.9	2.3	3.1	3.7	2.8	3.7	2.4
		25-34	6.5	6.8	9.5	9.3	7.8	11.8	9.2	7.0	7.3	7.9	6.4
		35-44	30.1	25.5	28.7	23.9	30.5	31.2	33.7	27.3	25.9	32.5	29.5
		45-54	90.8	79.4	88.9	96.3	88.5	89.6	91.1	87.4	85.3	75.9	79.5
		55-64	234.5	240.7	235.5	218.3	234.4	225.7	234.0	204.5	226.9	225.4	206.8
		65-74	473.3	502.1	526.5	468.2	469.8	460.6	470.0	432.3	447.1	430.4	424.6
		75-84	837.5	767.8	748.3	829.8	864.4	820.4	859.5	765.2	863.4	786.2	777.6
		85+	1090.3	1127.8	1168.2	1340.2	1314.8	1261.0	1292.7	1146.8	1197.5	1240.5	1185.8

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
White non-Hispanic	**Total**	**<1**	0.0	**	0.0	**	**	**	0.0	0.0	**	0.0	0.0
		1-4	5.2	**	**	**	**	**	**	**	**	**	**
		5-14	1.9	2.3	1.4	**	1.5	2.0	1.7	3.1	**	**	2.4
		15-24	3.3	4.3	2.3	3.8	3.4	3.2	2.5	4.2	2.8	2.4	1.7
		25-34	7.3	8.4	8.0	9.6	6.3	10.4	8.2	5.1	7.7	8.1	8.9
		35-44	26.5	23.4	23.8	24.8	26.7	27.3	26.7	26.9	26.5	28.7	26.2
		45-54	99.6	90.5	99.2	103.7	98.0	101.2	97.4	94.5	93.4	80.5	83.2
		55-64	286.4	278.8	273.3	274.2	279.0	281.1	290.0	252.4	275.3	281.1	256.3
		65-74	625.2	631.8	644.6	579.0	583.8	580.4	569.6	531.0	554.5	554.2	532.7
		75-84	1037.3	986.6	953.7	1088.0	1087.0	1050.2	1041.9	949.7	1028.6	973.9	960.3
		85+	1420.8	1402.0	1501.3	1709.0	1633.7	1637.0	1634.0	1491.0	1570.4	1594.1	1503.1
	Male	**<1**	0.0	**	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	2.9	5.0	2.9	3.7	3.1	3.9	2.6	5.0	3.2	**	**
		25-34	7.8	10.1	6.8	10.8	6.6	7.8	7.8	4.7	7.7	9.0	11.8
		35-44	23.8	20.5	20.6	22.9	22.5	21.0	21.6	25.5	23.6	25.3	22.6
		45-54	99.7	103.4	101.7	101.2	100.7	109.7	94.7	88.7	99.6	76.5	93.2
		55-64	332.4	310.4	311.9	323.6	308.6	324.7	336.6	291.1	314.6	315.3	299.9
		65-74	765.2	745.5	754.5	678.1	685.1	682.7	665.1	620.9	649.5	661.8	631.2
		75-84	1248.1	1221.7	1189.3	1345.3	1320.4	1282.3	1238.5	1136.6	1173.7	1146.0	1135.7
		85+	1917.1	1840.1	2014.7	2281.7	2177.7	2233.3	2200.3	2020.7	2046.3	2093.5	1956.5
	Female	**<1**	0.0	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	0.0
		1-4	**	**	**	**	**	**	**	**	**	**	**
		5-14	2.9	**	**	**	**	**	**	3.7	**	**	**
		15-24	3.6	3.5	**	3.9	3.8	**	**	3.4	**	**	**
		25-34	6.8	6.6	9.3	8.5	6.0	13.1	8.6	5.5	7.7	7.2	5.8
		35-44	29.3	26.5	27.0	26.7	31.3	33.8	32.1	28.4	29.6	32.2	29.9
		45-54	99.5	77.9	96.7	106.0	95.4	92.9	100.0	100.2	87.2	84.6	73.3
		55-64	243.7	249.6	237.5	229.1	252.0	241.4	247.7	217.2	239.6	250.1	216.6
		65-74	500.6	530.6	546.8	487.5	490.3	487.3	483.1	449.0	468.4	456.8	443.8
		75-84	869.4	799.2	766.0	867.1	886.5	846.8	868.4	781.8	897.2	818.1	801.9
		85+	1122.0	1138.2	1192.1	1378.0	1319.3	1288.4	1297.9	1160.7	1265.1	1262.5	1196.0

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
Hispanic or Latino	**Total**	**<1**	0.0	**	0.0	**	0.0	0.0	**	**	0.0	**	**
		1-4	**	4.6	**	**	**	**	6.7	**	**	**	**
		5-14	4.2	**	4.1	3.5	3.5	3.4	2.0	1.9	**	1.7	2.5
		15-24	4.4	5.0	5.9	2.7	4.3	3.4	3.9	6.5	4.2	4.9	2.8
		25-34	6.7	9.0	8.6	10.5	9.5	8.8	11.1	9.3	6.4	6.9	7.2
		35-44	21.7	20.2	23.5	20.0	25.1	22.8	27.1	17.8	22.3	23.7	21.9
		45-54	76.1	73.7	69.1	77.0	78.0	79.2	74.5	62.2	79.8	74.1	72.3
		55-64	215.6	202.6	235.1	210.3	209.6	200.6	218.8	205.5	210.2	182.8	179.7
		65-74	460.6	518.5	517.7	452.3	440.0	415.6	438.2	452.6	415.8	402.1	404.7
		75-84	802.7	819.4	869.0	863.6	1016.0	919.5	949.2	933.0	935.8	780.0	785.4
		85+	1121.5	1261.0	1273.8	1503.1	1564.4	1572.2	1421.8	1373.4	1075.4	1452.8	1165.4
	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	4.5	6.3	6.2	**	4.7	4.4	4.3	7.4	4.6	4.0	**
		25-34	6.6	9.3	6.5	8.9	7.6	8.6	14.4	9.7	6.8	4.8	6.9
		35-44	15.9	17.2	20.0	17.6	17.9	17.6	20.2	10.3	22.8	14.7	16.4
		45-54	83.4	75.2	73.4	79.0	85.1	73.1	72.6	64.5	76.7	88.8	66.3
		55-64	239.4	224.7	248.2	236.1	272.6	253.7	234.0	252.7	237.1	229.8	210.9
		65-74	610.0	683.5	656.7	491.8	526.5	533.1	478.1	535.3	530.2	532.6	491.6
		75-84	974.7	1088.5	1193.6	1054.9	1411.0	1173.8	1167.1	1211.3	1252.5	953.7	986.5
		85+	1520.7	1463.4	1482.4	2110.8	2242.0	2392.4	1700.2	1857.4	1626.4	2145.5	1450.1
	Female	**<1**	0.0	**	0.0	**	0.0	0.0	**	**	0.0	**	**
		1-4	**	**	**	0.0	0.0	0.0	**	**	0.0	**	**
		5-14	5.8	**	**	3.8	4.4	4.8	**	**	0.0	**	3.0
		15-24	4.3	**	5.6	**	3.8	**	3.5	5.5	3.8	5.8	3.1
		25-34	6.7	8.6	11.1	12.1	11.4	9.1	7.6	8.9	5.9	9.1	7.6
		35-44	28.2	23.5	27.5	22.3	29.2	27.9	33.9	25.2	21.8	32.7	27.4
		45-54	68.6	72.2	64.7	75.1	71.2	85.2	76.4	59.9	82.8	59.7	78.1
		55-64	192.6	181.3	222.6	186.5	152.0	151.6	204.7	162.1	185.6	139.8	151.2
		65-74	333.6	378.1	396.0	419.7	368.5	317.0	404.4	382.7	318.3	290.0	329.7
		75-84	669.7	611.1	617.8	723.5	727.5	727.9	783.0	721.3	697.7	649.9	634.3
		85+	888.4	1142.4	1151.6	1154.4	1174.9	1108.4	1262.4	1089.5	754.7	1035.1	993.9

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
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	29.9	21.4	37.2	16.2	34.6	37.1	29.0	26.3	32.0	33.2	25.3
		45-54	147.5	122.3	81.9	90.3	118.1	106.2	125.2	84.6	95.0	80.1	104.1
		55-64	424.3	492.2	342.1	395.3	329.1	399.7	302.9	264.4	305.7	306.9	381.9
		65-74	621.1	603.7	702.4	675.9	687.9	791.1	708.1	664.9	693.4	782.5	649.6
		75-84	641.5	594.5	878.7	1306.4	898.9	1052.9	1408.2	905.8	909.2	1127.2	1005.2
		85+	1240.4	1166.2	1273.1	1696.1	2077.9	1455.9	1913.5	1319.1	1443.5	1633.2	1131.9
	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	0.0
		25-34	**	0.0	**	**	0.0	**	**	**	**	**	**
		35-44	**	**	29.4	**	**	44.0	**	**	32.1	**	**
		45-54	162.4	86.2	54.9	55.2	120.1	125.2	134.7	61.7	82.1	86.8	54.7
		55-64	500.5	516.2	356.0	460.8	274.8	443.3	300.0	240.4	294.2	358.8	410.9
		65-74	749.8	686.0	663.3	866.1	737.4	1057.1	786.6	785.6	838.1	938.3	829.1
		75-84	547.6	683.0	841.3	2050.5	1027.1	1236.7	1658.9	1004.2	1161.6	1456.3	1148.0
		85+	2211.7	936.0	2325.6	1758.2	2325.6	1943.0	2148.3	1718.8	2005.7	2550.3	**
	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	**
		25-34	**	**	0.0	**	**	**	**	**	**	**	0.0
		35-44	47.5	**	46.4	**	63.7	**	45.9	46.2	31.8	45.9	29.4
		45-54	130.3	164.2	113.2	129.5	115.9	85.1	114.6	109.8	109.4	72.8	158.1
		55-64	346.9	467.8	328.1	327.4	385.3	354.9	305.9	289.1	317.6	253.4	352.0
		65-74	480.2	513.6	745.2	504.1	643.6	550.6	637.0	555.7	559.4	639.7	484.2
		75-84	761.5	481.5	926.5	749.5	803.1	908.0	1206.2	825.0	701.9	855.4	888.5
		85+	660.4	1303.5	646.4	1668.3	1968.1	1240.6	1809.4	1127.0	1144.2	1144.5	1422.8

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
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	**	**	**	**	**	**	**	0.0	**
		15-24	**	**	**	**	**	**	0.0	**	**	**	**
		25-34	**	**	13.5	13.8	**	17.6	19.4	**	17.9	**	**
		35-44	24.7	31.0	37.3	**	**	24.2	37.4	12.9	34.7	25.7	30.9
		45-54	61.9	79.6	97.2	67.9	67.2	52.3	76.5	53.3	88.4	62.1	79.4
		55-64	185.7	208.7	202.5	196.7	168.0	220.1	202.4	175.0	185.5	226.0	203.5
		65-74	444.5	351.0	497.1	420.3	418.1	442.9	384.9	304.5	423.1	304.8	401.7
		75-84	783.2	731.4	545.6	656.3	718.9	622.9	760.3	800.5	884.8	570.9	746.4
		85+	1258.9	956.3	1030.1	1350.6	1277.0	967.9	1402.7	967.0	1254.7	1424.6	1342.3
	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	**	**
		45-54	57.9	85.8	113.2	54.2	60.4	52.2	92.4	53.2	81.2	69.2	62.6
		55-64	201.8	235.1	170.1	237.8	196.6	250.3	247.3	176.8	212.9	277.9	235.5
		65-74	519.1	361.9	495.5	479.2	488.9	549.5	297.4	451.3	398.1	334.4	426.5
		75-84	966.0	923.3	743.1	805.8	798.5	757.4	786.1	1019.4	1084.7	570.1	748.2
		85+	1831.5	1452.8	1320.5	2564.1	1768.7	955.2	1956.0	1387.3	1718.2	1642.9	1019.4
	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	**	0.0
		25-34	0.0	0.0	**	**	**	**	**	**	**	**	**
		35-44	35.0	34.5	38.5	**	**	31.5	47.1	**	33.8	33.2	32.6
		45-54	65.3	74.3	83.4	80.0	73.5	52.4	62.2	53.3	94.8	55.8	94.2
		55-64	171.3	185.3	231.4	161.7	143.1	194.9	165.0	173.4	163.5	184.2	177.7
		65-74	387.0	342.3	498.5	374.4	362.0	358.1	455.6	186.6	442.6	281.8	382.5
		75-84	645.7	587.1	397.7	553.6	663.3	529.0	741.7	642.8	747.2	571.4	745.1
		85+	959.1	696.6	878.3	673.4	999.2	974.8	1108.7	742.1	988.1	1301.1	1528.5

TABLE 13
AGE-SPECIFIC MORTALITY RATES FOR MALIGNANT NEOPLASMS (CANCER) BY RACE/ETHNCITY, GENDER, AGE GROUP, AND YEAR, ARIZONA, 2007-2017

			2007	2008[a]	2009	2010	2011	2012	2013	2014	2015	2016	2017
All groups	**Total**	**<1**	0.0	**	0.0	**	**	**	**	**	**	**	**
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
		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
		45-54	52.4	47.1	70.0	51.7	68.9	87.8	32.9	69.3	32.9	62.6	69.0
		55-64	190.8	203.7	202.1	184.0	188.4	180.6	100.5	118.1	168.8	225.6	158.1
		65-74	294.9	463.9	329.2	317.6	306.9	357.3	303.1	302.4	390.7	277.2	289.9
		75-84	568.2	675.1	950.0	678.1	1027.6	523.1	887.5	497.8	810.1	702.9	652.5
		85+	611.0	905.4	699.3	1065.9	1600.8	1251.8	1310.8	1113.2	1296.4	1244.2	1513.8
	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
		15-24	**	0.0	**	0.0	0.0	0.0	**	0.0	0.0	**	0.0
		25-34	0.0	0.0	0.0	**	**	**	**	**	**	**	**
		35-44	0.0	50.0	**	**	0.0	**	**	**	**	**	**
		45-54	75.1	**	94.6	**	84.9	58.4	**	68.9	**	41.2	73.0
		55-64	259.1	311.1	272.6	261.2	208.5	224.1	134.9	169.2	194.8	261.4	165.5
		65-74	221.5	626.0	372.9	405.8	413.4	394.7	411.2	304.0	475.2	272.2	341.9
		75-84	724.1	931.9	996.4	1113.9	1065.7	577.9	1104.7	570.0	856.0	952.7	870.7
		85+	**	1643.8	**	**	1617.3	1932.9	2209.8	**	2443.3	**	2105.3
	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
		15-24	0.0	0.0	**	0.0	**	0.0	**	**	0.0	0.0	0.0
		25-34	**	**	**	**	0.0	**	**	**	**	**	**
		35-44	**	**	**	**	**	**	**	30.3	**	**	31.6
		45-54	**	59.3	50.4	64.9	55.8	112.6	47.3	69.8	36.4	80.5	65.8
		55-64	142.8	128.3	152.8	133.3	175.1	151.2	76.6	82.1	150.7	200.2	152.8
		65-74	348.8	344.8	297.0	254.5	229.6	331.8	231.0	301.3	335.3	280.4	255.6
		75-84	467.5	509.3	920.0	397.9	1002.7	486.8	741.6	448.1	777.1	525.7	493.5
		85+	**	**	**	896.9	1591.9	892.4	829.0	1329.5	711.7	1486.7	1197.2

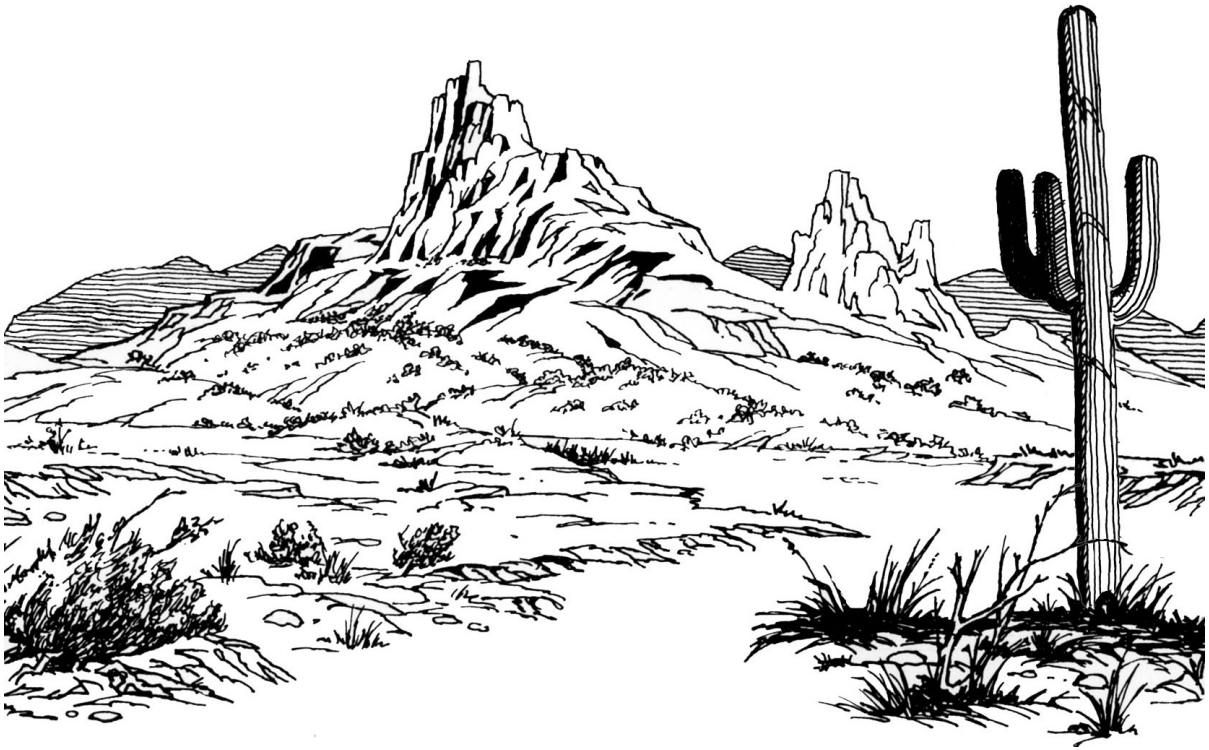
Note: [a] Data for year 2008 was taken from the previous published report and may differ from trend data published in the Arizona Health Status report due to system misclassification of cause of death.

TABLE 14
RATES[a] OF INPATIENT DISCHARGES WITH HEART DISEASE OR MALIGNANT NEOPLASMS (CANCER) AS FIRST-LISTED DIAGNOSIS BY GENDER AND YEAR, ARIZONA RESIDENTS, 2007-2017

Year	Diseases of the heart	Malignant neoplasms (Cancer)	Diseases of the heart		Malignant neoplasms (Cancer)	
			M	F	M	F
2007	104.3	33.3	120.7	87.8	33.8	32.7
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

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