

# **CHAPTER 2**

## **TRENDS AND PATTERNS IN MORTALITY, ARIZONA, 2010-2020**

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### **2A. TOTAL MORTALITY**

### **2B. LEADING CAUSES OF DEATH**

### **2C. AGE-SPECIFIC MORTALITY**

- **INFANT MORTALITY**
- **CHILDHOOD MORTALITY**
- **ADOLESCENT MORTALITY**
- **YOUNG ADULT MORTALITY**
- **MIDDLE-AGED ADULT MORTALITY**
- **ELDERLY MORTALITY**

### **2D. PATTERNS OF PREMATURE MORTALITY**





## 2A.

### TOTAL MORTALITY

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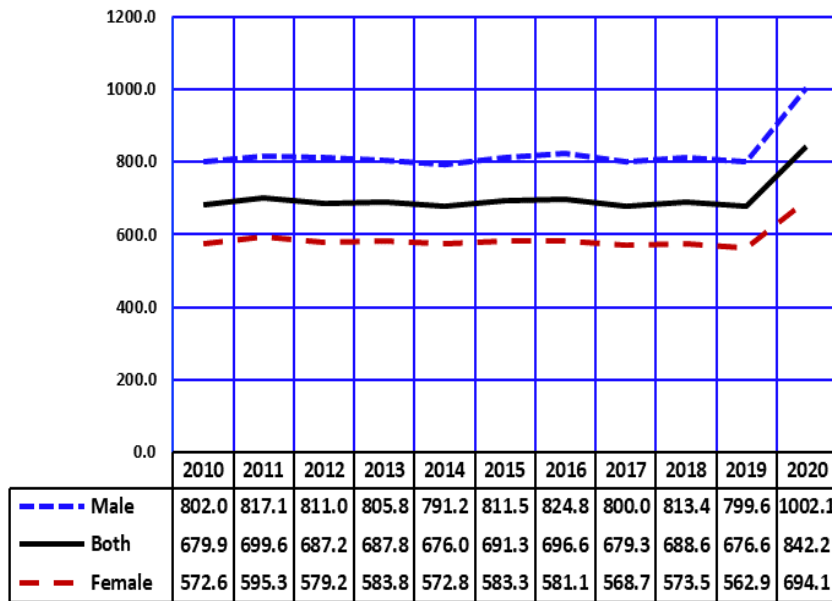
The total number of deaths from all causes among Arizona residents increased by 25.8 percent from 60,161 in 2019 to 75,700 in 2020 (**Table 2A-1**). The age-adjusted mortality rate for all causes of death increased from 676.6/100,000 in 2019 to 842.2/100,000 in 2020. When considering race/ethnicity, we observe an increase in the age adjusted mortality of all racial/ethnic groups in 2020 compared to 2010 and 2015 (**Figure 2A-2**).

Between 2019 and 2020, the increase in mortality affected all but one leading causes of death. A 3.7 percent reduction in the number of deaths was recorded only for intentional self-harm (suicide) 1,411 deaths in 2019 compared to 1,359 deaths.

There were some disparities by gender and race/ethnicity for total mortality. Deaths in Arizona by residents in 2020 mostly occurred in December (12.0 percent) and the smallest counts were recorded in February (7.0 percent) (**Table 2A-3**).

## 2A. TOTAL MORTALITY

**Figure 2A-1**  
Age-adjusted Mortality Rates<sup>a</sup> for all Causes by Gender and Year,  
Arizona, 2010-2020



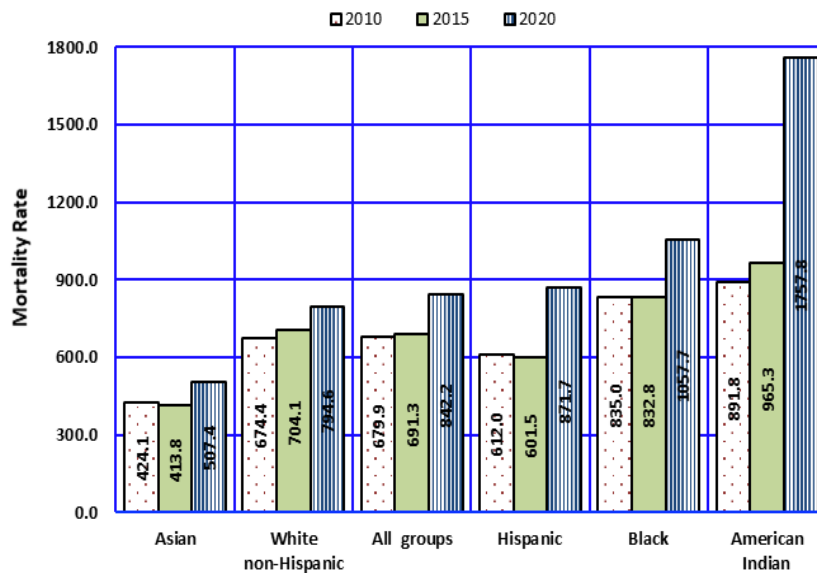
The age-adjusted mortality rates discussed below are based on the year 2000 population standard. All mortality rates in sections 2A and 2B are age-adjusted. A detailed explanation of the age-adjustment of mortality rates is given in the **Technical Notes**.

The total age-adjusted mortality rate increased by 24.5 percent, from 676.6 deaths per 100,000 population in 2019 to 842.2 deaths in 2020 (**Figure 2A-1, Table 2B-2**). Over this period, the age-adjusted mortality rates increased for both males (25.3 percent) and females (23.3 percent).

The gap between male and female mortality rates remained between 2010 and 2020. In each year during the 11-year period, the male age-adjusted mortality rate was almost 1.4 times higher than the female age-adjusted mortality annually.

Note: <sup>a</sup> Number of deaths per 100,000 persons (adjusted to the 2000 standard U.S. population).

**Figure 2A-2**  
Age-adjusted Mortality Rates<sup>a</sup> for all Causes by Race/Ethnicity and Year,  
Arizona Residents, 2010, 2015, and 2020



The 2020 age-adjusted death rates for the major racial/ethnic groups were as follows: for Asian or Pacific Islander, 507.4 deaths per 100,000 population; Hispanic or Latino, 871.7; White non-Hispanic, 794.6; Black or African American, 1057.7; and American Indian or Alaska Native, 1757.8 (**Figure 2A-2, Table 2B-4**).

In 2020, as in 2010 and 2015, American Indians and Blacks had higher total mortality rates than White non-Hispanics, Hispanics, and Asians. The total mortality rates for Asians were lower than the rates of both White non-Hispanics and Hispanics in 2010, 2015, and 2020.

Note: <sup>a</sup> Number of deaths per 100,000 persons (adjusted to the 2000 standard U.S. population).

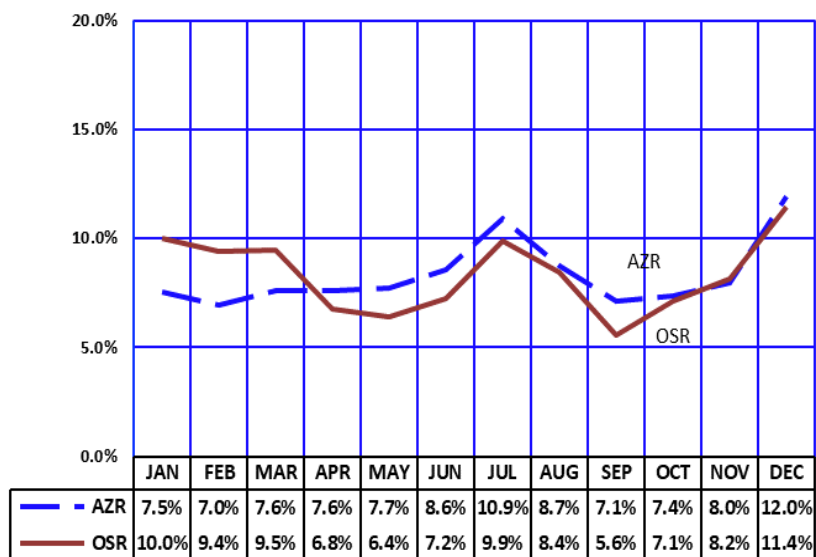
## 2A. TOTAL MORTALITY

If there was no monthly variation in proportional contribution to total annual deaths, 8.3 percent (100/12) of deaths should occur monthly. However, when the monthly distribution of resident deaths is examined, the month of December (12.0 percent), July (10.9 percent), August (8.7 percent), and June (8.6 percent) contributed more than the expected value (**Figure 2A-3**). February was the month with the lowest percent contribution to the total annual deaths among Arizona residents (AZR).

The majority of the 3,653 non-residents who died in Arizona during 2020 did so during the months of December, January, July, March, and February.

September was the month with the lowest percent contribution (5.6 percent) to the annual death among out-of-State residents (OSR) who died in Arizona.

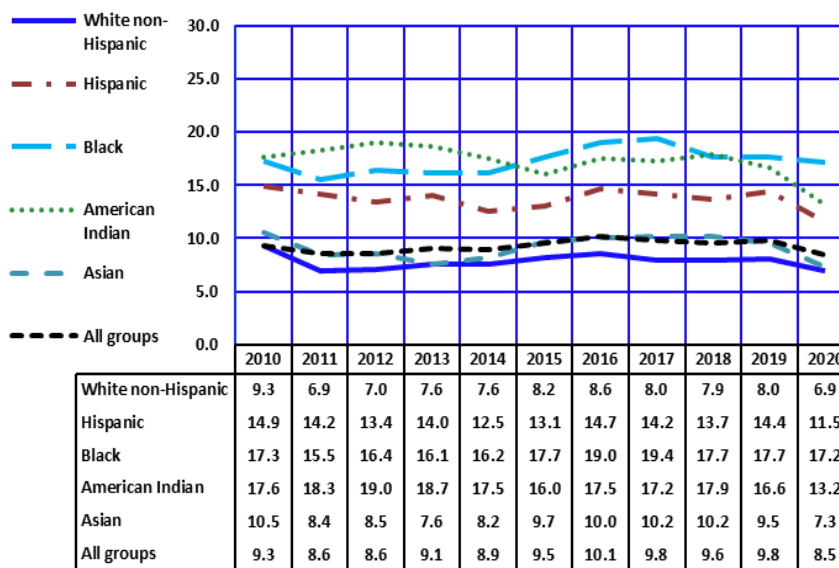
**Figure 2A-3**  
Percent of Annual Deaths by Month of Occurrence and Residence Status, Arizona, 2020



**Figure 2A-4**  
Percentage of Deaths for which Autopsies were Reported by Race/Ethnicity and Year, Arizona Residents, 2010-2020

Autopsies were reported as performed on 6,432 decedents, or 8.5 percent of the deaths that occurred among Arizona residents in 2020. From 2010 – 2020, the percentage of deaths for which autopsies were reported varied from 9.3 percent in 2010, to a low of 8.6 percent in 2011 and 2012, a high of 10.1 percent in 2016, then 8.5 percent in 2020, making it the lowest percentage among the time period.

The percentage autopsied varies by the decedent's demographic characteristics. By race/ethnicity (**Figure 2A-4**) the percentage autopsied was the lowest for White non-Hispanic than for other racial/ethnic groups. The prevalence of autopsies was substantially greater among Black, American Indian, and Hispanic or Latino sub-populations. A substantial portion of the differential in the use of autopsy by race/ethnicity reflects differences in the age and manner of death. For example, autopsies tend to be more common at younger ages and for deaths by homicide, suicide, accidents, and undetermined manner.



**TABLE 2A-1  
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER, AND YEAR, ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012 <sup>a</sup>	2013 <sup>a</sup>	2014 <sup>a</sup>	2015 <sup>a</sup>	2016 <sup>a</sup>	2017 <sup>a</sup>	2018 <sup>a</sup>	2019 <sup>a</sup>	2020
<b>TOTAL</b>											
<b>Total</b>	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700
<b>Male</b>	24,163	24,785	25,577	26,222	27,037	28,814	30,431	30,721	32,067	32,575	41,431
<b>Female</b>	21,708	22,762	22,874	23,703	24,034	25,334	26,046	26,537	27,136	27,585	34,269
<b>White non-Hispanic</b>											
<b>Total</b>	36,066	37,211	38,629	39,543	40,391	42,750	44,092	44,191	45,194	45,467	54,148
<b>Male</b>	18,693	19,307	20,206	20,550	21,207	22,504	23,439	23,375	24,150	24,334	28,990
<b>Female</b>	17,373	17,904	18,416	18,989	19,181	20,242	20,653	20,816	21,044	21,133	25,158
<b>Hispanic or Latino</b>											
<b>Total</b>	5,374	5,575	5,963	6,300	6,444	6,839	7,343	7,539	8,088	8,488	12,504
<b>Male</b>	2,959	2,982	3,323	3,412	3,543	3,814	4,154	4,197	4,629	4,770	7,277
<b>Female</b>	2,415	2,593	2,640	2,888	2,901	3,025	3,189	3,341	3,458	3,718	5,227
<b>Black or African American</b>											
<b>Total</b>	1,336	1,399	1,509	1,593	1,578	1,742	1,925	1,896	2,057	2,207	2,932
<b>Male</b>	735	734	803	897	852	971	1,108	1,076	1,104	1,205	1,723
<b>Female</b>	601	665	706	696	726	771	817	820	953	1,002	1,209
<b>American Indian or Alaska Native</b>											
<b>Total</b>	1,781	1,681	1,806	1,955	2,074	2,140	2,346	2,355	2,527	2,599	4,290
<b>Male</b>	1,015	876	993	1,103	1,152	1,187	1,365	1,334	1,445	1,463	2,412
<b>Female</b>	766	805	812	852	922	953	981	1,021	1,081	1,136	1,878
<b>Asian or Pacific Islander</b>											
<b>Total</b>	487	528	552	538	582	673	769	796	886	957	1,199
<b>Male</b>	258	269	252	260	280	334	364	377	419	492	586
<b>Female</b>	229	259	300	278	302	339	405	419	467	465	613
<b>Refused/Unknown race</b>											
<b>Total</b>	827	1,153	<sup>b</sup>	<sup>b</sup>	10 <sup>†</sup>	10 <sup>†</sup>	0 <sup>†</sup>	484	454	443	627
<b>Male</b>	503	617	<sup>b</sup>	<sup>b</sup>	*	*	*	362	320	311	443
<b>Female</b>	324	536	<sup>b</sup>	<sup>b</sup>	*	*	*	120	133	131	184

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Deaths with unknown gender or unknown race/ethnicity were included in total; <sup>b</sup> Bridging of race/ethnicity in 2012 and 2013 differed from previous years. Individuals with unknown race were categorized as White non-Hispanic, while individuals with unknown race and Hispanic ethnicity were coded as Hispanic.

**TABLE 2A-2  
RESIDENT MORTALITY BY MONTH OF OCCURRENCE AND YEAR, ARIZONA, 2010-2020**

Month of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	<b>JAN</b>	Count 3,950 8.6%	4,321 9.1%	4,210 8.7%	5,079 10.2%	4,824 9.4%	5,028 9.3%	5,119 9.1%	5,111 8.9%	6,219 10.5%	5,595 9.3%
<b>FEB</b>	Count 3,582 7.8%	4,070 8.6%	4,147 8.6%	4,383 8.8%	4,227 8.3%	4,267 7.9%	5,135 9.1%	4,514 7.9%	4,832 8.2%	4,724 7.9%	5,275 7.0%
<b>MAR</b>	Count 4,084 8.9%	4,358 9.2%	4,414 9.1%	4,484 9.0%	4,333 8.5%	4,819 8.9%	5,387 9.5%	5,070 8.9%	5,353 9.0%	5,372 8.9%	5,745 7.6%
<b>APR</b>	Count 3,845 8.4%	3,967 8.3%	4,176 8.6%	4,231 8.5%	4,278 8.4%	4,547 8.4%	4,689 8.3%	4,854 8.5%	4,922 8.3%	5,029 8.4%	5,768 7.6%
<b>MAY</b>	Count 3,811 8.3%	3,899 8.2%	3,980 8.2%	4,076 8.2%	4,291 8.4%	4,527 8.4%	4,603 8.1%	4,867 8.5%	4,768 8.1%	5,098 8.5%	5,833 7.7%
<b>JUN</b>	Count 3,651 8.0%	3,823 8.0%	3,868 8.0%	3,831 7.7%	4,072 8.0%	4,396 8.1%	4,464 7.9%	4,782 8.4%	4,666 7.9%	4,689 7.8%	6,483 8.6%
<b>JUL</b>	Count 3,843 8.4%	3,791 8.0%	3,862 8.0%	3,926 7.9%	4,071 8.0%	4,338 8.0%	4,496 8.0%	4,739 8.3%	4,761 8.0%	4,923 8.2%	8,243 10.9%
<b>AUG</b>	Count 3,756 8.2%	3,913 8.2%	3,850 7.9%	3,893 7.8%	4,112 8.1%	4,338 8.0%	4,432 7.8%	4,534 7.9%	4,647 7.8%	4,848 8.1%	6,603 8.7%
<b>SEP</b>	Count 3,633 7.9%	3,678 7.7%	3,849 7.9%	3,804 7.6%	3,994 7.8%	4,183 7.7%	4,253 7.5%	4,423 7.7%	4,505 7.6%	4,755 7.9%	5,390 7.1%
<b>OCT</b>	Count 3,678 8.0%	3,888 8.2%	3,956 8.2%	3,868 7.7%	4,184 8.2%	4,284 7.9%	4,501 8.0%	4,548 7.9%	4,619 7.8%	4,858 8.1%	5,566 7.4%
<b>NOV</b>	Count 3,806 8.3%	3,753 7.9%	3,894 8.0%	3,924 7.9%	4,239 8.3%	4,543 8.4%	4,518 8.0%	4,547 7.9%	4,706 7.9%	5,058 8.4%	6,048 8.0%
<b>DEC</b>	Count 4,232 9.2%	4,086 8.6%	4,253 8.8%	4,430 8.9%	4,449 8.7%	4,882 9.0%	4,883 8.6%	5,272 9.2%	5,208 8.8%	5,212 8.7%	9,053 12.0%
<b>TOTAL</b>	Count 45,871 100.0%	47,547 100.0%	48,459 100.0%	49,929 100.0%	51,074 100.0%	54,152 100.0%	56,480 100.0%	57,261 100.0%	59,206 100.0%	60,161 100.0%	75,700 100.0%

**TABLE 2A-3  
DEATHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2020**

Day of death	Month of death												Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	176	181	192	193	229	170	247	265	185	164	200	232	2,434
2	191	175	186	168	160	226	255	227	183	188	205	236	2,400
3	194	195	213	200	203	205	269	239	175	179	183	244	2,499
4	214	178	189	177	182	188	279	227	218	188	190	265	2,495
5	203	175	162	196	214	195	264	228	175	159	214	274	2,459
6	179	174	196	215	193	201	269	218	203	185	179	243	2,455
7	184	161	200	207	205	196	259	223	175	181	201	310	2,502
8	204	166	160	194	191	201	294	203	199	177	159	257	2,405
9	200	174	195	178	212	184	298	216	169	185	182	281	2,474
10	183	169	177	209	194	206	280	217	167	160	164	280	2,406
11	202	175	211	174	167	213	257	217	179	164	182	274	2,415
12	165	179	187	207	174	217	262	215	181	201	188	302	2,478
13	184	189	178	199	195	242	298	240	153	169	178	264	2,489
14	182	190	182	178	198	207	285	200	210	170	194	302	2,498
15	184	199	154	170	178	226	302	197	166	176	202	294	2,448
16	203	185	187	194	195	221	286	224	198	167	190	269	2,519
17	186	192	192	171	175	213	267	235	192	186	225	304	2,538
18	159	163	178	170	167	212	249	205	163	153	204	316	2,339
19	180	194	176	200	183	220	273	214	168	184	213	308	2,513
20	179	168	187	189	164	231	288	210	175	203	249	303	2,546
21	171	206	180	204	175	209	269	203	165	174	229	332	2,517
22	185	176	187	174	187	221	258	184	203	170	211	339	2,495
23	189	176	186	225	198	233	246	211	171	197	217	311	2,560
24	175	195	196	182	181	223	243	191	172	187	230	311	2,486
25	157	167	202	197	191	231	252	198	183	192	205	281	2,456
26	182	187	176	216	177	235	234	206	202	184	203	297	2,499
27	178	187	179	186	192	237	270	200	181	155	228	330	2,523
28	187	202	153	201	179	250	263	223	169	179	199	333	2,538
29	168	197	187	180	188	215	236	215	152	204	200	318	2,460
30	162		210	214	190	254	257	169	158	208	224	311	2,357
31	187		187		196		234	183		177		332	1,496
<b>Total</b>	5,693	5,275	5,745	5,768	5,833	6,483	8,243	6,603	5,390	5,566	6,048	9,053	75,700



**TABLE 2A-4  
AGE-SPECIFIC MORTALITY BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2020**

	Age											Total					
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		Un-known				
<b>IN HOSPITAL</b>																	
<b>In-patient</b>	303	43	36	201	521	781	1,497	3,385	4,949	5,035	3,020	0	19,771				
<b>Out-patient<sup>a</sup></b>	58	30	25	192	306	315	419	710	792	650	366	0	3,863				
<b>Died on arrival</b>	0	0	0	*	*	*	*	*	*	*	8	0	30 <sup>†</sup>				
<b>Status unknown</b>	28	17	41	287	534	735	1,355	3,298	5,714	7,231	7,315	0	26,555				
<b>Subtotal</b>	389	90	102	680 <sup>†</sup>	1,360 <sup>†</sup>	1,840 <sup>†</sup>	3,270 <sup>†</sup>	7,400 <sup>†</sup>	11,460 <sup>†</sup>	12,920 <sup>†</sup>	10,709	0	50,218				
<b>NOT IN HOSPITAL</b>																	
<b>Nursing home<sup>b</sup></b>	7	*	8	18	42	101	250	812	1,343	1,759	1,854	0	6,200 <sup>†</sup>				
<b>Residence</b>	0	0	0	*	7	23	91	303	806	1,259	1,970	0	4,460 <sup>†</sup>				
<b>Other<sup>c</sup></b>	8	7	29	381	652	658	702	1,176	1,825	3,375	6,006	*	14,824				
<b>Unspecified</b>	0	0	0	0	0	0	0	0	0	0	0	0	0				
<b>Subtotal</b>	15	10 <sup>†</sup>	37	400 <sup>†</sup>	701	782	1,043	2,291	3,974	6,393	9,830	10 <sup>†</sup>	25,482				
<b>TOTAL</b>	404	101	139	1,082	2,065	2,618	4,316	9,687	15,434	19,310	20,539	5	75,700				

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes Emergency Room; <sup>b</sup> Includes other long-term care facilities; <sup>c</sup> Includes hospices.





**2B.**

### **LEADING CAUSES OF DEATH**

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In 2010, the Office of Vital Records (OVR) of the Arizona Department of Health Services implemented the new (version 2003) Standard U.S. death certificate. The new certificate added several new questions: 1) whether tobacco use contributed to the death, and 2) whether, if the decedent was a female, the death was “pregnancy-associated” (defined as death from any cause during pregnancy or within one calendar year of delivery or pregnancy termination).

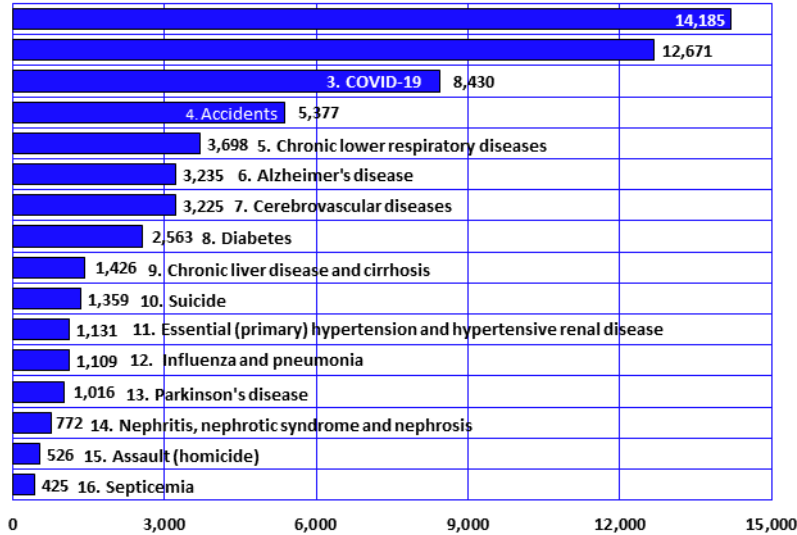
The death certificate now includes a new classification of the decedent’s racial/ethnic status, consistent with the revised federal standards for collecting and reporting racial and ethnic status. These standards were published in the Federal Register on October 30, 1997, as “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity.” The revised standards are available on the OMB (the Office of Management and Budget) web-site at: <https://www.whitehouse.gov/omb>.

There are now 15 racial categories (including Guamanian or Chamorro; Samoan or Native Hawaiian) to choose from. It is also permitted to indicate more than one race for a decedent. To create frequency counts of race and ethnicity that were adequate to compute statistically reliable mortality rates, race was “bridged”, or essentially collapsed into 5 categories; White non-Hispanic, Hispanic or Latino, Black or African American, Native American or Alaska Native, and Asian or Pacific Islander. When an individual was identified as both Hispanic and any other race, that person was added to the racial/ethnic group with the lowest population. For example, a person identified as both White and Hispanic would be coded as Hispanic, where a person identified as American Indian and Hispanic would be coded as American Indian. Please refer to the technical appendix for further explanation of the racial bridging used in this report.

2B. LEADING CAUSES OF DEATH

**Figure 2B-1A**  
**Leading Causes of Death among Arizona Residents in 2020**

BASED ON THE NUMBER OF DEATHS DUE TO THE UNDERLYING CAUSE:

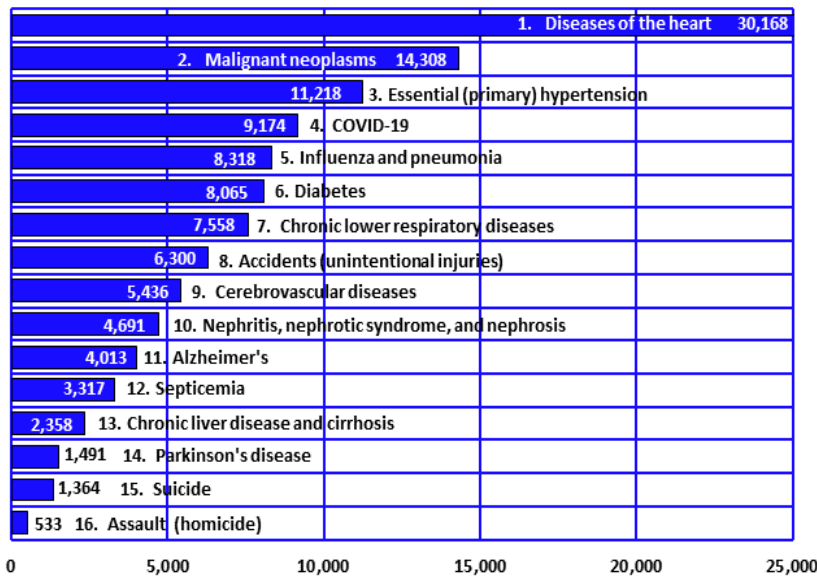


Based on the number of deaths (but not age-adjusted mortality rate), the leading underlying cause of death to Arizona residents in 2020 was *heart disease* (14,185 or 18.7 percent of all deaths), closely followed by *cancer*, which accounted for 12,671 or 16.7 percent of deaths (**Figure 2B-1A, Table 2B-1, Table 5E-14**).

The third leading cause of death, *COVID-19* accounted for 8,430 or 11.1 percent of total deaths. Deaths due to *accidents (unintentional injuries)* ranked fourth in 2020, with 5,377 (7.1 percent) resident deaths reported. Deaths due to *chronic lower respiratory diseases* ranked fifth in 2020, with 3,698 (4.9 percent) resident deaths reported. Together, these five causes accounted for 58.6 percent of total deaths in 2020. The fifteen leading causes accounted for 80.2 percent of all deaths among Arizona residents.

**Figure 2B-1B**  
**Leading Causes of Death among Arizona Residents in 2020**

BASED ON THE NUMBER OF DEATHS DUE TO ANY MENTION OF A CAUSE:



For the purpose of mortality statistics, every death is attributed to one underlying condition or underlying 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.

In addition to 14,185 deaths that had diseases of the heart assigned as the underlying cause, another 15,983 deaths had diseases of the heart assigned as a secondary cause of death. The sum of these two counts (30,168, **Figure 2B-1B**) is the total number of deaths that had any mention of diseases of the heart on the 2020 death certificates. The ranking based on any mention of the 15 diagnostic categories is different from ranking of the leading causes of death based on the underlying cause. In particular, *Essential (primary) hypertension* ranked 11<sup>th</sup> as the underlying cause but ranked 3<sup>rd</sup> when any mention of it was counted.

2B. LEADING CAUSES OF DEATH  
Five Leading Causes by Gender

It is important to note that (Figures 2B-2, 2B-3, 2B-4, and 2B-5) are based on the age-adjusted mortality rates and not on the number of deaths.

In 2020, diseases of the heart were the leading cause of death for White non-Hispanics, Blacks, and Asians but placed 2<sup>nd</sup> for Hispanics and 3<sup>rd</sup> for American Indians. Cancer ranked 2<sup>nd</sup> leading cause of death for White non-Hispanics, Black or African Americans, and Asians but ranked 3<sup>rd</sup> for Hispanics and 4<sup>th</sup> for American Indians. In 2020, COVID-19 was the leading cause of death for Hispanics and American Indians, 3<sup>rd</sup> for Blacks and Asians, and 4<sup>th</sup> for White non-Hispanics. Unintentional injury ranked 2<sup>nd</sup> for American Indians, 3<sup>rd</sup> for White non-Hispanics, and 4<sup>th</sup> for Hispanics and Blacks. (Figure 2B-2, Table 2B-4).

In 2020, Cerebrovascular diseases was 4<sup>th</sup> leading cause of death specific to Asians. Diabetes ranked 5<sup>th</sup> among the leading causes of death for Hispanics, Blacks, and American Indians. Chronic lower respiratory disease was the fifth leading cause of death specific to White non-Hispanics, and Alzheimer's disease ranked in 5<sup>th</sup> specific to Asians. (Table 2B-4).

Figure 2B-2  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death for Both Genders by Race/Ethnicity, Arizona, 2020

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 154.9	COVID-19 185.8	Diseases of heart 212.3	COVID-19 492.3	Diseases of heart 91.0
2	Cancer 138.9	Diseases of heart 125.5	Cancer 169.4	Unintentional injury 180.1	Cancer 87.9
3	Unintentional injury 69.2	Cancer 114.8	COVID-19 101.6	Diseases of heart 164.3	COVID-19 72.6
4	COVID-19 55.4	Unintentional injury 60.4	Unintentional injury 82.2	Cancer 116.5	Cerebrovascular diseases 29.9
5	Chronic lower respiratory diseases 43.1	Diabetes 43.1	Diabetes 51.7	Diabetes 106.4	Alzheimer's disease 28.6

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Based on age-adjusted mortality rates, diseases of the heart were the leading cause of death for Black or African American females, while cancer was the leading cause of death for White non-Hispanics and Asians. Diseases of heart ranked 2<sup>nd</sup> for White non-Hispanics, American Indians, and Asians, 3<sup>rd</sup> for Hispanics, while Cancer came in 2<sup>nd</sup> for Hispanics and Blacks, and 4<sup>th</sup> for American Indians. COVID-19 was the leading cause for Hispanics and American Indians, 3<sup>rd</sup> for Blacks and Asians but 4<sup>th</sup> for White non-Hispanics. (Figure 2B-3, Table 2B-4).

Alzheimer's disease ranked fourth among the leading cause of death for Hispanic, Black, and Asian females. Chronic lower respiratory diseases were the fifth leading cause of death specific to White non-Hispanic females.

Cerebrovascular diseases ranked fifth among Hispanic, Black and Asian females. Chronic liver disease and cirrhosis was unique to American Indian women and ranked fifth among the leading causes of death. While unintentional injury was the third leading cause of death for White non-Hispanic and American Indian women.

Figure 2B-3  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death by Race/Ethnicity among Females, Arizona, 2020

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Cancer 121.8	COVID-19 126.4	Diseases of heart 164.4	COVID-19 406.9	Cancer 81.5
2	Diseases of heart 120.8	Cancer 100.9	Cancer 141.6	Diseases of heart 113.2	Diseases of heart 74.6
3	Unintentional injury 43.8	Diseases of heart 94.8	COVID-19 83.7	Unintentional injury 104.9	COVID-19 46.6
4	COVID-19 43.2	Alzheimer's disease 40.4	Alzheimer's disease 54.3	Cancer 102.8	Alzheimer's disease 34.7
5	Chronic lower respiratory diseases 41.9	Cerebrovascular diseases 34.2	Cerebrovascular diseases 45.9	Chronic liver disease and cirrhosis 95.5	Cerebrovascular diseases 28.0

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Five Leading Causes by Gender

**Figure 2B-4**  
**Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death**  
**by Race/Ethnicity among Males, Arizona, 2020**

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 192.5	COVID-19 259.9	Diseases of heart 263.8	COVID-19 605.3	Diseases of heart 112.0
2	Cancer 159.3	Diseases of heart 163.5	Cancer 206.2	Unintentional injury 262.7	COVID-19 110.4
3	Unintentional injury 94.4	Cancer 132.7	Unintentional injury 124.6	Diseases of heart 234.2	Cancer 97.0
4	COVID-19 69.5	Unintentional injury 89.5	COVID-19 123.1	Cancer 138.7	Cerebro-vascular diseases 32.0
5	Chronic lower respiratory diseases 44.4	Diabetes 56.0	Diabetes 61.9	Diabetes 137.7	Diabetes 24.9

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Based on age-adjusted mortality rates, diseases of the heart ranked first and second as the leading cause of death for all racial/ethnic groups except for American Indians who ranked third; followed by cancer as the second leading cause for White non-Hispanic and Black males, third for Hispanic and Asian males, and fourth for American Indian males. (**Figure 2B-4; Table 2B-4**).

Unintentional injury ranked the second leading cause of death for American Indian males, third among White non-Hispanic and Black males, and fourth for Hispanic males.

In 2020, based on the age-adjusted mortality rates, COVID-19 was the first leading cause of death for Hispanic and American Indian males, second for Asian males, and fourth for White non-Hispanic and Black males. Diabetes was the fifth leading cause of death for Hispanic, Black, American Indian and Asian males, while cerebrovascular diseases ranked fourth specific to Asian males and chronic lower respiratory diseases ranked fifth for White non-Hispanic males.

**Figure 2B-5**  
**Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death**  
**by Gender in Urban<sup>b</sup> and Rural Areas, Arizona, 2020**

Rank	Urban male	Urban female	Rural male	Rural female
1	Diseases of heart 185.1	Diseases of heart 115.8	Diseases of heart 219.3	Diseases of heart 127.6
2	Cancer 152.7	Cancer 115.0	Cancer 167.1	Cancer 127.5
3	COVID-19 113.0	COVID-19 64.3	COVID-19 145.0	COVID-19 93.8
4	Unintentional injury 96.3	Alzheimer's disease 40.8	Unintentional injury 120.7	Unintentional injury 55.4
5	Chronic lower respiratory diseases 38.0	Unintentional injury 40.0	Chronic lower respiratory diseases 53.3	Chronic lower respiratory diseases 46.9

Notes: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas.

In 2020, the ranking of the leading causes of death were mostly similar by gender for residents of the urban (Maricopa, Pima, Pinal, and Yuma counties) and rural (all the remaining counties) areas of the state (**Figure 2B-5, Table 2B-5**). Diseases of the heart exceeded cancer as the leading causes of death among both urban and rural males, as well as urban and rural females. COVID-19 was ranked the third leading cause of death for both urban and rural males and females. Unintentional injury placed fourth among the leading cause for males regardless of area of residence, and rural females, but placed fifth for urban females.

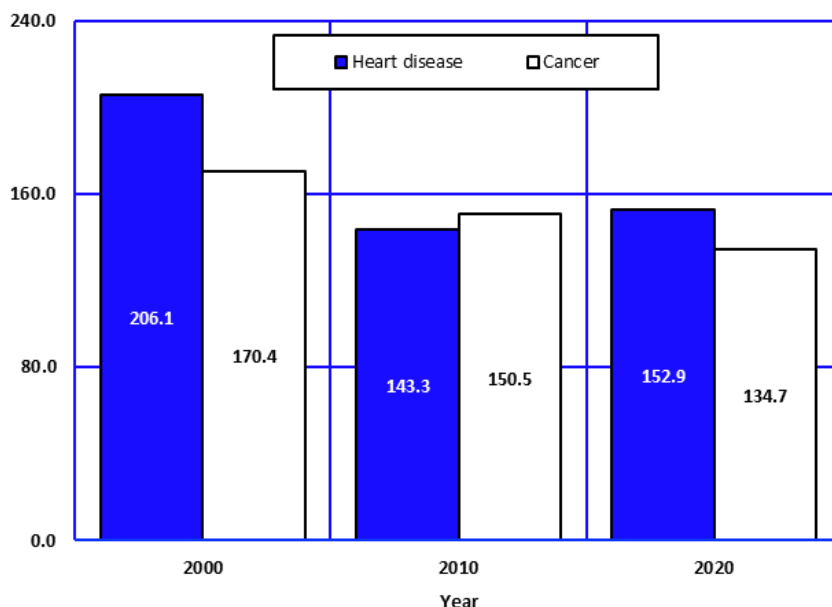
Alzheimer's disease was the fourth leading cause of death specific to urban females. Chronic lower respiratory diseases were the fifth leading cause of death for urban and rural males and rural females.

**2B. LEADING CAUSES OF DEATH  
Diseases of heart and malignant neoplasm (cancer)**

**Figure 2B-6  
Comparison of Age-adjusted Mortality Rates<sup>a</sup> for Heart Disease and Cancer  
(Malignant Neoplasm), Arizona, 2000, 2010, and 2020**

The age-adjusted mortality rate for diseases of the heart decreased by 25.8 percent from 206.1 deaths per 100,000 population in 2000 to 152.9/100,000 in 2020 (**Figure 2B-6**). The age-adjusted mortality rate for cancer declined less, by 21.0 percent, from 2000-2020. In Arizona, the relative risk of death from heart disease versus cancer changed from 21 percent greater in 2000 to 13.5 percent less in 2020.

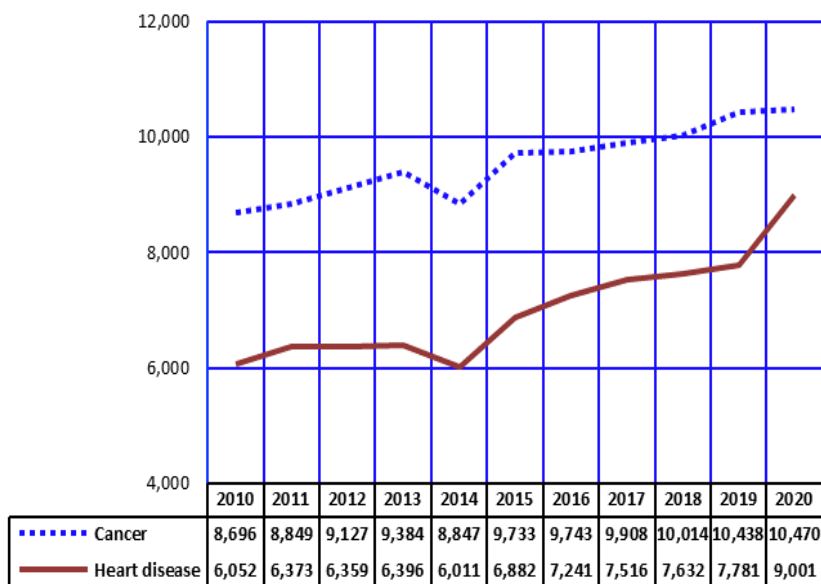
In 2010, 704 less Arizonans died from diseases of the heart than cancer (**Table 2B-1**). In 2020, the number of deaths due to diseases of the heart exceeded by 1,514 cases (**Table 2B-4**).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

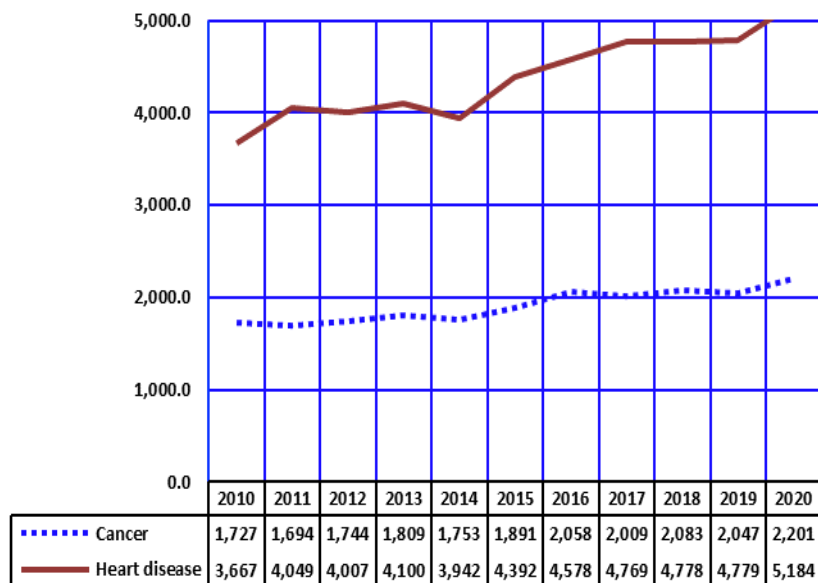
**Figure 2B-7  
Number of Deaths from Heart Disease and Cancer among  
Arizonans 0-84 Years, 2010-2020**

For the past several years, cancer has been the number one cause of death among Arizonans aged 0-84 years (**Figure 2B-7**). Beginning in 1996, the annual number of cancer deaths exceeded the number of deaths from heart disease in this age group. In 2020, 1,469 more Arizonans 0-84 years old died from cancer (10,470) than heart disease (9,001).



2B. LEADING CAUSES OF DEATH  
Diseases of heart and malignant neoplasm (cancer)

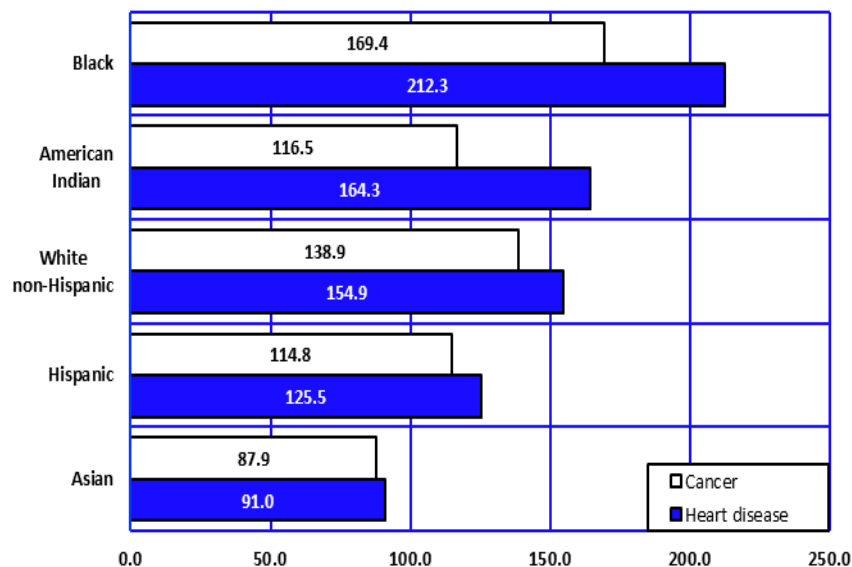
**Figure 2B-8**  
Deaths from Heart Disease and Cancer among Arizonans 85+, 2010-2020



Among Arizonans age 85 and over, heart disease is the number one leading cause of death by a wide margin. In 2020, adults aged 85 and over accounted for 17.4 percent of all deaths from cancer but 36.5 percent of all deaths from heart disease. In 2020, the median age at death for heart disease was 80 years (**Table 2D-3**); and a minority of deaths (42 percent, **Table 2D-4**) were premature, i.e., before reaching the expected years of life at birth for all U.S. residents (77.0 years).

However, from 2010 to 2020, the number of deaths from cancer increased by 27.4 percent among Arizonans 85 years or older, less than the increase observed in diseases of the heart (41.4 percent increase).

**Figure 2B-9**  
Age-adjusted Mortality Rates<sup>a</sup> for Heart Disease and Cancer by Race/Ethnicity, Arizona, 2020



In Arizona, Black or African Americans were 2.3 times more likely to die from diseases of the heart and 1.9 times more likely to die from malignant neoplasms in 2020 than Asians, the group with the lowest risk of each respective cause of death (**Figure 2B-9, Table 2B-4**). Compared to Asians, White non-Hispanic Arizonans were 1.7 times more likely to die of heart disease and 1.6 times more likely to die of cancer.

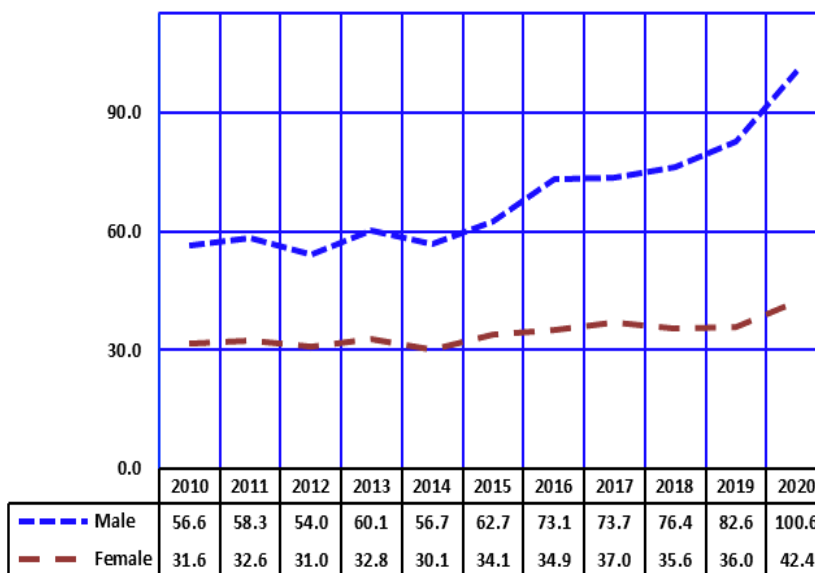
In 2020, the age-adjusted relative risk of death from heart disease exceeded cancer mortality risk (**Table 2B-3**) for all the racial/ethnic groups.

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.



2B. LEADING CAUSES OF DEATH  
**Accidents (unintentional injury)**

**Figure 2B-10**  
**Age-adjusted Mortality Rates<sup>a</sup> for Accidents (Unintentional Injuries) by Gender and Year, Arizona, 2010-2020**

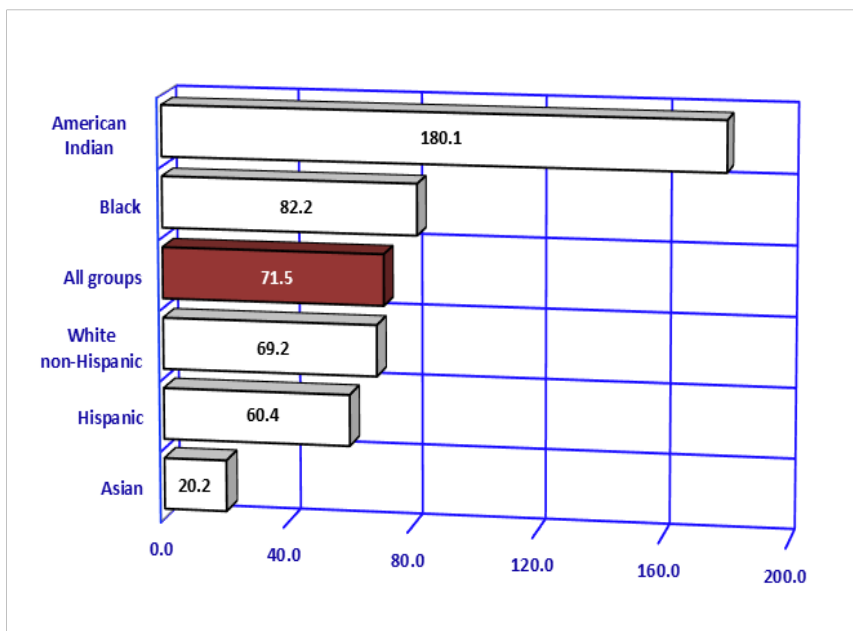


The number of deaths from unintentional injuries increased by 18.9 percent from 4,522 in 2019 to 5,377 in 2020 (**Table 2B-1**). In 2020, based on age-adjusted mortality rates, accidents ranked fourth as a leading cause of death for males and seventh for females (**Table 2B-4**). From 2019 to 2020, the age-adjusted mortality rate for accidents increased both for males (21.8 percent) and females (17.8 percent; **Figure 2B-10**).

In 2020, 1,035 deaths were caused by motor vehicle accidents, an increase of 6.7 percent from 2019. Heat induced mortality has seen an increase of 78.0 percent between 2019 and 2020. Deaths due to accidental drowning and submersion decreased by 1.0 percent from 2019 (n=100) to 2020 (n=99). Additionally, Arizonans experienced a 37.5 percent increase in the number of accidental poisonings due to drugs and/or medicaments from 1,679 fatalities in 2019 to 2,309 in 2020 (**Table 2B-9**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-11**  
**Age-adjusted Mortality Rates<sup>a</sup> for Accidents (Unintentional Injuries) by Race/Ethnicity, Arizona, 2020**



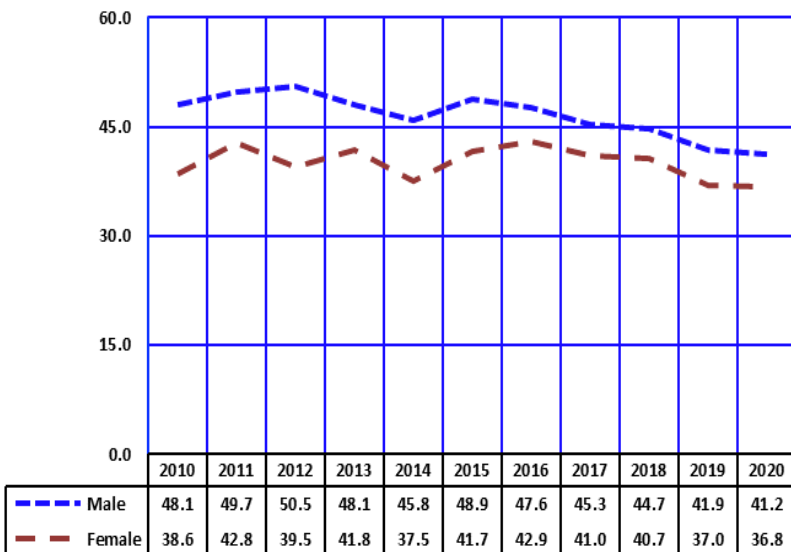
Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

The American Indian death rate for unintentional injuries (180.1/100,000) was 8.9 times greater than the rate for Asians (20.2/100,000), the group with the lowest risk of unintentional injury death among racial/ethnic groups in the state (**Figure 2B-11, Table 2B-4**).

In 2020, Apache (195.3/100,000) and La Paz (193.9/100,000) counties had the two highest age-adjusted mortality rates for unintentional injuries (**Table 5E-11**).

2B. LEADING CAUSES OF DEATH  
Chronic lower respiratory diseases

**Figure 2B-12**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Lower Respiratory Diseases<sup>b</sup> by Gender and Year, Arizona, 2010-2020

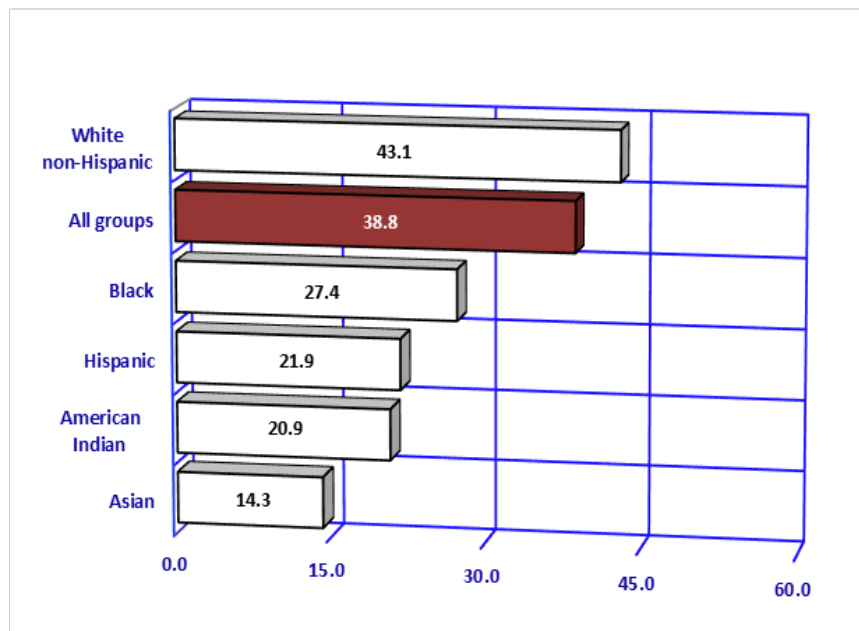


In 2020, chronic lower respiratory diseases (bronchitis, emphysema, asthma) was the 5th leading cause of death among Arizona residents (**Table 2B-1**). The mortality rate for chronic lower respiratory diseases decreased for both genders between 2019 and 2020, but more so among males (1.7 percent) than females (0.5 percent); **Figure 2B-12, Table 2B-2**).

Among genders and regional groups, rural males and females experienced the highest mortality due to chronic lower respiratory diseases with rates of 53.3/100,000 and 46.9/100,000, respectively) (**Table 2B-5**).

Notes: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard; <sup>b</sup> This ICD-10 title corresponds to Chronic Obstructive Pulmonary Disease (ICD-9 title).

**Figure 2B-13**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Lower Respiratory Diseases by Race/Ethnicity, Arizona, 2020



Mortality rates for emphysema, chronic bronchitis, asthma, and other lower respiratory disorders were highest among White non-Hispanics (43.1 deaths per 100,000) when compared to any other racial/ethnic groups in 2020. Asians recorded the lowest rate at 14.3 deaths per 100,000 population (**Figure 2B-13, Table 2B-4**).

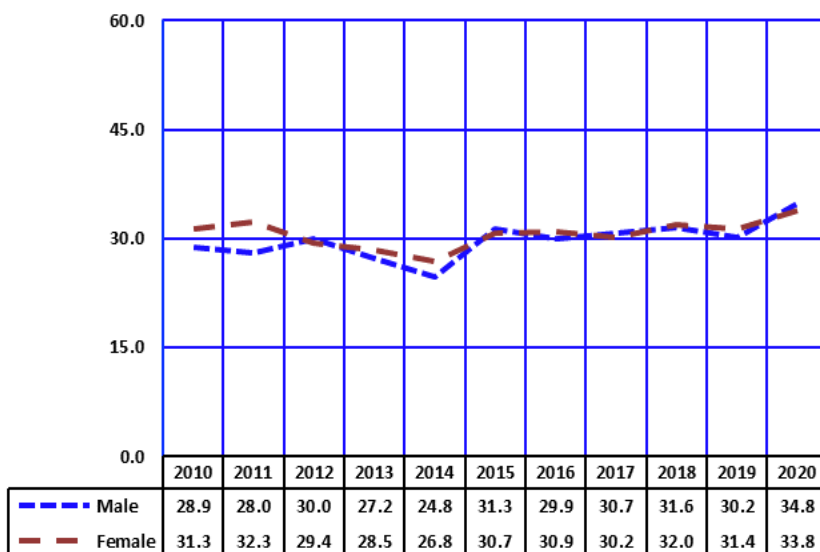
Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Cerebrovascular diseases

**Figure 2B-14**  
Age-adjusted Mortality Rates<sup>a</sup> for Cerebrovascular Disease by Gender and Year, Arizona, 2010-2020

Cerebrovascular disease and diseases of the heart are two of the leading causes of death that share many risk factors such as hypertension, smoking, obesity, and high levels of cholesterol. The age-adjusted mortality rate for cerebrovascular diseases increased by 11.6 percent from 31.0/100,000 in 2019 to 34.6 deaths per 100,000 population in 2020 (Table 2B-3).

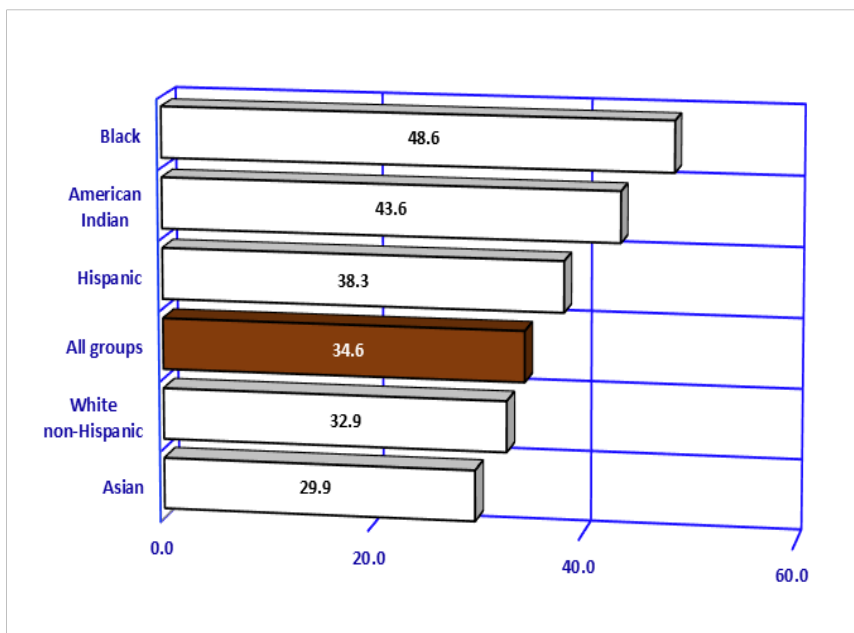
With some exceptions, the risk of dying from cerebrovascular diseases was slightly higher among females than males for the period 2010-2020 (7 of the last 11 years), but the rates were very similar. (Figure 2B-14, Table 2B-2).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-15**  
Age-adjusted Mortality Rates<sup>a</sup> for Cerebrovascular Disease by Race/Ethnicity, Arizona, 2020

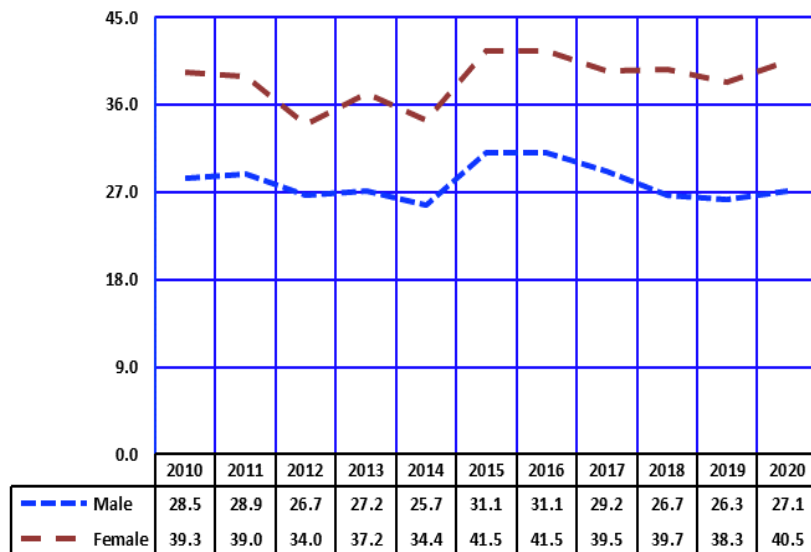
Compared to Arizona's overall rate, Black or African Americans were 1.4 times more likely to die from cerebrovascular disease in 2020 (Figure 2B-15, Table 2B-4). The 2020 mortality rate for cerebrovascular disease among Asians (29.9/100,000) was the lowest among racial/ethnic groups.



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Alzheimer's disease

**Figure 2B-16**  
Age-adjusted Mortality Rates<sup>a</sup> for Alzheimer's Disease by Gender and Year, Arizona, 2010-2020

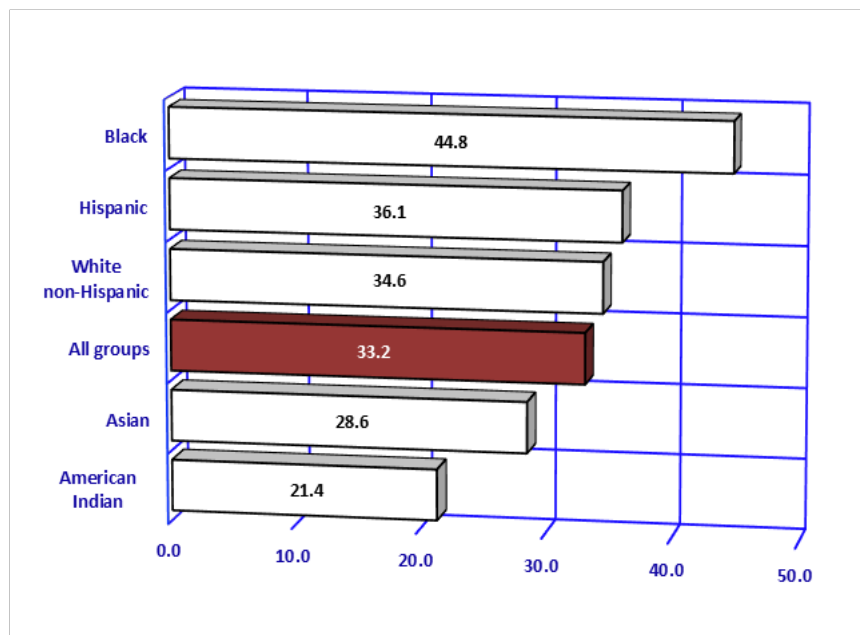


Based on the number of deaths in 2019, Alzheimer's disease was the 4<sup>th</sup> leading cause of death for females and 8<sup>th</sup> leading cause for males (**Table 2B-4**)

From 2019 to 2020, the age-adjusted mortality rate for Alzheimer's disease increased for both males (3.0 percent) and females (5.7 percent) (**Figure 2B-16**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-17**  
Age-adjusted Mortality Rates<sup>a</sup> for Alzheimer's Disease by Race/Ethnicity, Arizona, 2020



The age-adjusted mortality rates for Alzheimer's disease in 2020 were higher among Black or African Americans (44.8/100,000), Hispanic or Latinos (36.1/100,000), and White non-Hispanics (34.6/100,000) than the other racial/ethnic groups. Rates lower than the state average (33.2/100,000) were recorded among Asians (28.6/100,000) and American Indians (21.4/100,000); **Figure 2B-17, Table 2B-4**.

White non-Hispanic residents of Arizona disproportionately contributed to mortality from Alzheimer's disease. In 2020, White non-Hispanics accounted for 55.2 percent (**Table 10C-1**) of the state's population, but 81.9 percent of all deaths from Alzheimer's disease (2,650 out of 3,235; **Table 2B-4**).

In 2020, the overall median age at death from Alzheimer's disease was 86, specifically 85 years for males and 88 years for females (**Table 2D-3**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

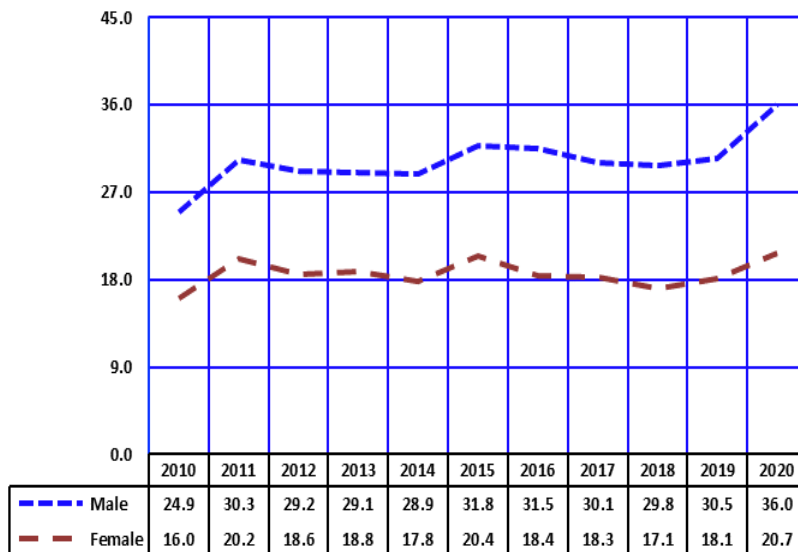
2B. LEADING CAUSES OF DEATH  
Diabetes

**Figure 2B-18**  
Age-adjusted Mortality Rates<sup>a</sup> for Diabetes by Gender and Year, Arizona, 2010-2020

From 2010-2020, mortality rates for diabetes increased for both males (44.6 percent) and females (29.4 percent; **Figure 2B-18**).

In addition to 2,563 deaths that had diabetes assigned as the underlying cause in 2020, another 5,502 deaths had diabetes assigned as a contributing factor. The diabetes-related death rate of 86.8/100,000 (**Table 6A-6**) was 3.1 times greater than the rate for diabetes as an underlying cause (27.9/100,000; **Table 2B-2**).

The diabetes-related death rate includes all mentions of diabetes on the death certificate as the underlying or other than underlying cause.

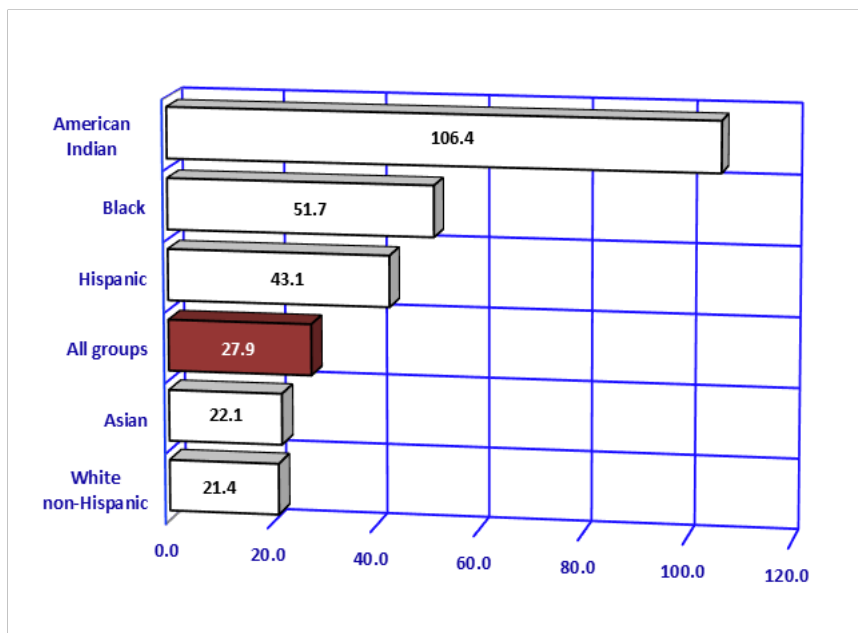


Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-19**  
Age-adjusted Mortality Rates<sup>a</sup> for Diabetes by Race/Ethnicity, Arizona, 2020

In 2020, compared to Arizona's rate, American Indians were 3.8 times more likely to die from diabetes (106.4 deaths per 100,000; **Figure 2B-19**, **Table 2B-4**). The rate of 21.4 deaths per 100,000 among White non-Hispanics was the lowest rate among all racial/ethnic groups in the state.

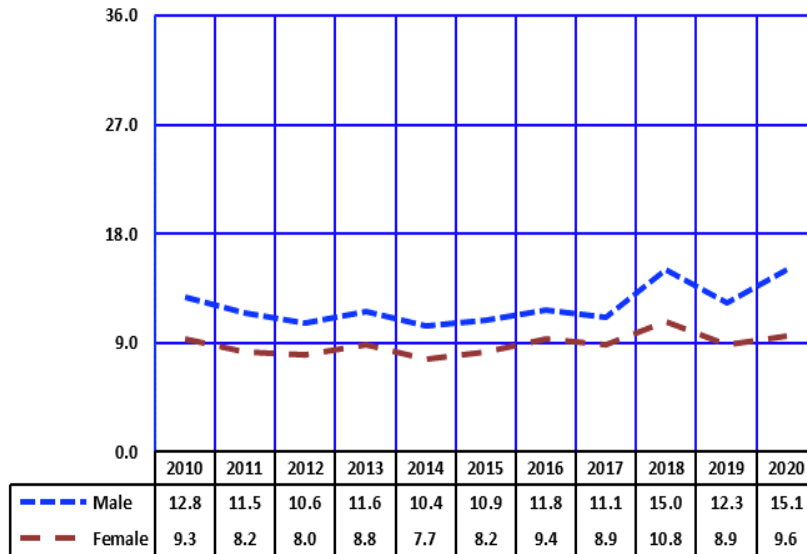
Among the 15 Arizona counties, Apache (83.5/100,000) and Graham (57.4/100,000) counties had the highest mortality rates for diabetes recorded in 2020 (**Table 5E-11**).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Influenza and pneumonia

**Figure 2B-20**  
Age-adjusted Mortality Rates<sup>a</sup> for Influenza and Pneumonia by Gender and Year, Arizona, 2010-2020



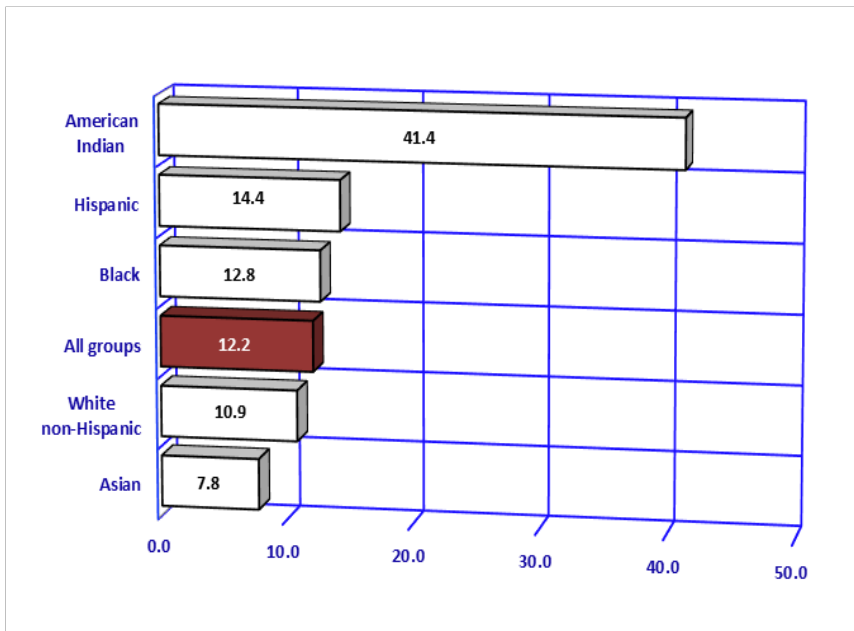
The number of deaths from influenza and pneumonia increased by 52.1 percent from 729 in 2010 to 1,109 in 2020. (**Table 2B-1**). Among the 1,109 deaths, influenza was identified as the underlying cause for 100 of them, while pneumonia was listed as the underlying cause on 1,009 death certificates (**Table 2B-6**).

The mortality rate for influenza and pneumonia increased for females from 8.9 deaths per 100,000 in 2019 to 9.6 deaths in 2020 (**Figure 2B-20, Table 2B-2**). The mortality rate for influenza and pneumonia also increased for males from 12.3 per 100,000 in 2019 to 15.1 deaths per 100,000 in 2020.

In 2020, the age-adjusted mortality rate for Arizona males was 57.3 percent greater than that of Arizona females.

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted 2000 U.S. standard.

**Figure 2B-21**  
Age-adjusted Mortality Rates<sup>a</sup> for Influenza and Pneumonia by Race/Ethnicity, Arizona, 2020



In 2020, American Indian residents of Arizona had the highest mortality rate for influenza and pneumonia (41.4 deaths per 100,000) among the racial/ethnic groups. Mortality due to influenza and pneumonia for White non-Hispanics (10.9/100,000) and Asians (7.8/100,000) were lower than the state rate. (**Figure 2B-21, Table 2B-4**).

County comparisons show that in 2020 influenza and pneumonia mortality rates were highest in Apache (35.7/100,000) and La Paz (34.4/100,000) counties compared to the remaining counties (**Table 5E-11**).

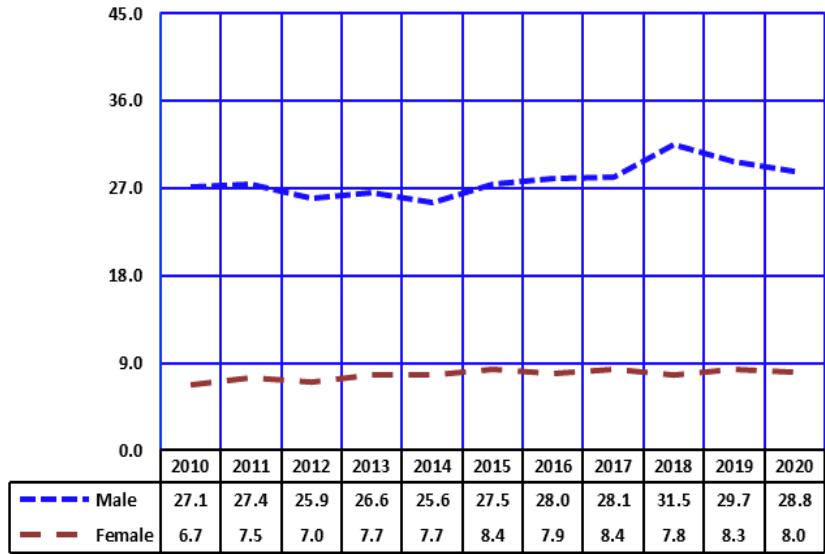
Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Suicide

**Figure 2B-22**  
Age-adjusted Mortality Rates<sup>a</sup> for Suicide by Gender and Year, Arizona, 2010-2020

In 2020, based on age-adjusted mortality rates, suicide was the 9<sup>th</sup> leading cause of death among males. It ranked as the 12<sup>th</sup> cause of mortality for females. The overall age-adjusted suicide rate decreased from 18.9 suicides per 100,000 in 2019 to 18.2 in 2020 (Table 2B-4).

From 2019 to 2020, suicide mortality decreased by 3.0 percent among males and 3.6 percent among females (Figure 2B-22, Table 2B-4). In 2020, suicide posed a 3.6 times greater mortality risk for males (28.8/100,000) than for females (8.0/100,000).

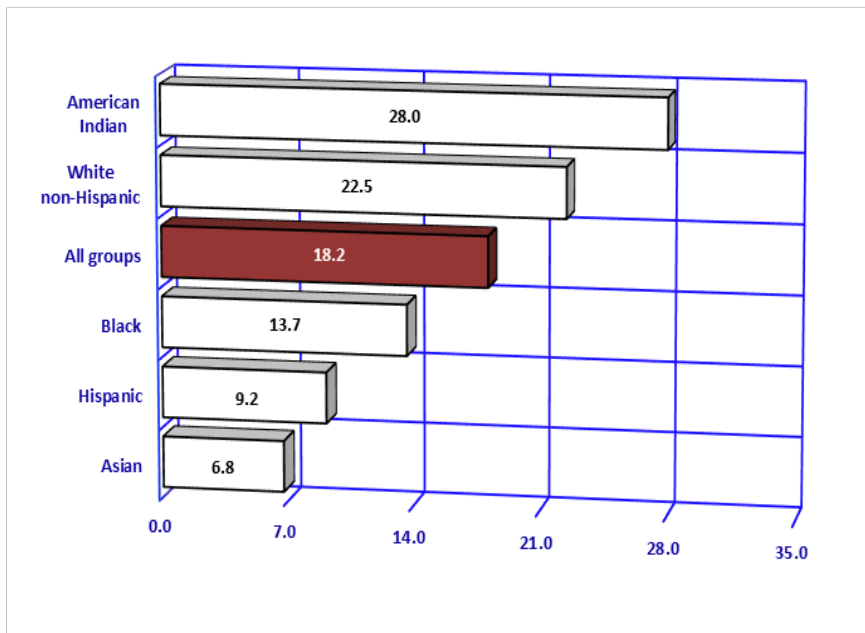


Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-23**  
Age-adjusted Mortality Rates<sup>a</sup> for Suicide by Race/Ethnicity, Arizona, 2020

In 2020, American Indians had the highest age-adjusted suicide rate (28.0 suicides per 100,000) among racial/ethnic groups, followed by White non-Hispanics (22.5/100,000), while Asians recorded the lowest age-adjusted suicide rate (6.8/100,000; Figure 2B-23, Table 2B-4).

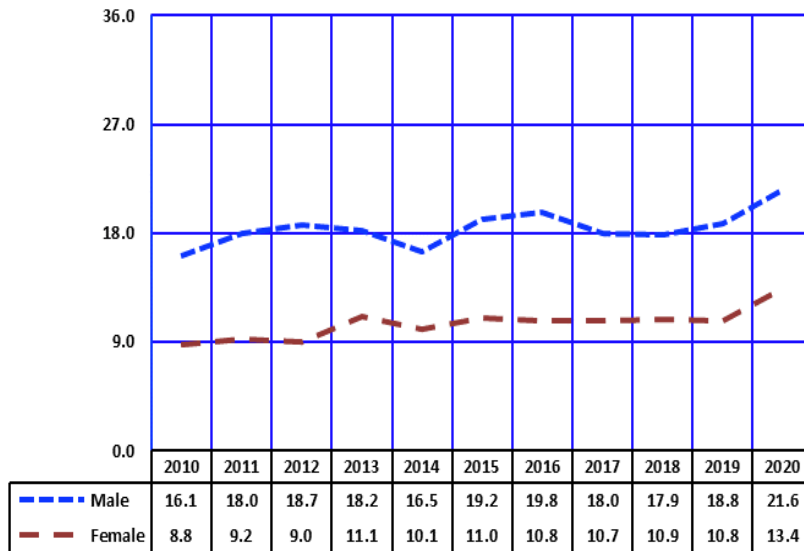
The 2020 age-adjusted mortality rates for suicide varied across the state, from a low rate of 7.8 suicides per 100,000 residents in Santa Cruz County to a high of 50.9 suicides per 100,000 residents in Apache County (Table 5E-11).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Chronic liver disease and cirrhosis

**Figure 2B-24**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Liver Disease and Cirrhosis  
by Gender and Year, Arizona, 2010-2020



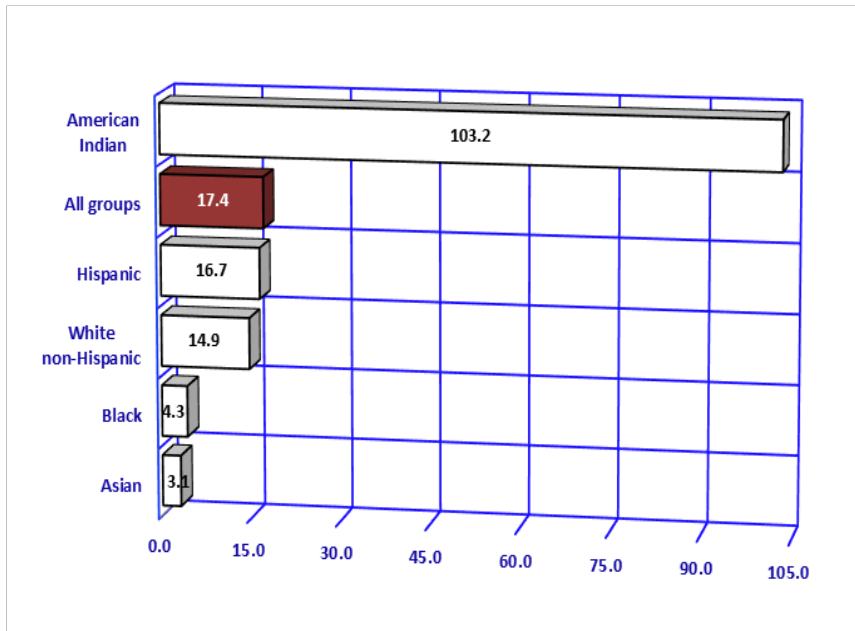
Chronic liver disease and cirrhosis was the 9<sup>th</sup> leading cause of death in Arizona in 2020 (**Figure 2B-1, Table 2B-1**). Among the 1,426 deaths due to chronic liver disease and cirrhosis, 864 (60.6 percent) were males (**Table 2B-4**).

Among females, the age-adjusted mortality rate for chronic liver disease and cirrhosis increased 24.1 percent from 2019 to 2020. Among males, the mortality rate increased 14.9 percent from 18.8/100,000 in 2019 to 21.6/100,000 in 2020 (**Figure 2B-24, Table 2B-3**).

In 2020, Apache, Navajo, La Paz, and Gila counties had the highest mortality rates for chronic liver disease and cirrhosis (**Table 5E-11**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-25**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Liver Disease and Cirrhosis  
by Race/Ethnicity, Arizona, 2020



In 2020, chronic liver disease and cirrhosis mortality rate was exceedingly high among American Indians (103.2 deaths per 100,000 population) than any racial/ethnic groups in the state (**Figure 2B-25, Table 2B-4**). The death rate for chronic liver disease and cirrhosis among Asians, Blacks, White non-Hispanics, and Hispanics were all below the state average (17.4 deaths per 100,000 population).

Compared to the median age at death from all causes (76 years), those who died from chronic liver disease and cirrhosis were on average 17 years younger (59 years, **Table 2D-3**). In 2020, the median age at death of American Indians who died from chronic liver disease and cirrhosis was 49 years, which was at least 10 years younger than all the other race/ethnic groups (**Table 2D-3**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.



**TABLE 2B-1  
NUMBER OF DEATHS FOR THE LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2010-2020**

Rank in 2010	Rank in 2020	Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2	1	Diseases of heart	9,719	10,424	10,366	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185
1	2	Malignant neoplasms	10,423	10,543	10,871	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671
-	3	COVID-19 <sup>‡</sup>	-	-	-	-	-	-	-	-	-	-	8,430
4	4	Accidents (unintentional injury)	2,834	2,959	2,804	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377
3	5	Chronic lower respiratory diseases	2,892	3,143	3,167	3,295	3,185	3,648	3,788	3,779	3,820	3,678	3,698
5	6	Alzheimer's disease	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235
6	7	Cerebrovascular diseases	2,051	2,067	2,096	2,047	1,995	2,463	2,536	2,647	2,829	2,848	3,225
7	8	Diabetes	1,372	1,721	1,698	1,744	1,776	2,050	2,013	2,037	2,041	2,170	2,563
9	9	Chronic liver disease and cirrhosis	843	933	971	1,040	984	1,120	1,169	1,122	1,159	1,211	1,426
8	10	Intentional self-harm (suicide)	1,070	1,113	1,070	1,116	1,124	1,233	1,256	1,304	1,432	1,411	1,359
12	11	Essential primary hypertension and hypertensive renal disease	498	725	739	711	758	896	1,010	1,018	928	1,009	1,131
10	12	Influenza and pneumonia	729	649	635	724	669	739	859	852	1,113	947	1,109
13	13	Parkinson's disease	488	545	579	578	569	719	712	749	790	806	1,016
11	14	Nephritis, nephrotic syndrome and nephrosis	516	409	440	391	353	498	485	535	680	759	772
15	15	Assault (homicide)	404	387	376	383	294	364	416	430	416	409	526
14	16	Septicemia	425	321	319	354	336	436	505	461	382	339	425
<b>ALL CAUSES</b>			45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700

Notes: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999. The group titles, such as cardiovascular diseases, infectious and parasitic diseases, or other cardiovascular diseases are not ranked to determine the leading causes of death; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-2  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>TOTAL, ALL CAUSES</b>											
<b>Total</b>	679.9	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2
<b>Male</b>	802.0	817.1	811.0	805.8	791.2	811.5	824.8	800.0	813.4	799.6	1002.1
<b>Female</b>	572.6	595.3	579.2	583.8	572.8	583.3	581.1	568.7	573.5	562.9	694.1
<b>CARDIOVASCULAR DISEASE</b>											
<b>Total</b>	188.6	201.0	193.3	187.7	171.6	189.0	190.8	189.9	188.4	184.9	205.3
<b>Male</b>	225.1	239.2	233.6	229.0	206.9	226.7	230.7	228.6	225.2	221.2	246.9
<b>Female</b>	156.7	168.0	159.1	152.4	140.7	156.1	155.9	155.5	155.6	152.4	167.8
<b>-----DISEASES OF HEART</b>											
<b>Total</b>	143.3	152.7	145.8	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9
<b>Male</b>	179.8	192.8	184.4	183.6	164.1	177.1	180.5	179.4	176.3	172.5	192.2
<b>Female</b>	112.2	119.0	113.7	109.2	100.5	110.5	109.8	109.3	109.1	106.3	118.1
<b>-----CEREBROVASCULAR DISEASE</b>											
<b>Total</b>	30.7	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6
<b>Male</b>	28.9	28.0	30.0	27.2	24.8	31.3	29.9	30.7	31.6	30.2	34.8
<b>Female</b>	31.3	32.3	29.4	28.5	26.8	30.7	30.9	30.2	32.0	31.4	33.8
<b>MALIGNANT NEOPLASMS</b>											
<b>Total</b>	150.5	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7
<b>Male</b>	180.6	179.3	180.3	175.0	160.8	169.0	166.3	161.0	161.8	156.7	156.1
<b>Female</b>	127.1	129.5	125.9	129.9	116.8	123.8	120.0	116.6	114.7	116.4	117.2
<b>CHRONIC LOWER RESPIRATORY DISEASE</b>											
<b>Total</b>	42.6	45.9	44.2	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8
<b>Male</b>	48.1	49.7	50.5	48.1	45.8	48.9	47.6	45.3	44.7	41.9	41.2
<b>Female</b>	38.6	42.8	39.5	41.8	37.5	41.7	42.9	41.0	40.7	37.0	36.8
<b>ACCIDENTS (UNINTENTIONAL INJURIES)</b>											
<b>Total</b>	43.8	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5
<b>Male</b>	56.6	58.3	54.0	60.1	56.7	62.7	73.1	73.7	76.4	82.6	100.6
<b>Female</b>	31.6	32.6	31.0	32.8	30.1	34.1	34.9	37.0	35.6	36.0	42.4
<b>-----MOTOR VEHICLE ACCIDENTS</b>											
<b>Total</b>	11.1	12.1	11.4	11.4	10.3	12.6	13.9	13.8	14.1	13.1	14.0
<b>Male</b>	15.9	17.6	16.8	16.3	14.5	18.0	20.1	19.5	20.0	18.9	20.2
<b>Female</b>	6.4	6.9	6.3	6.6	6.0	7.2	7.8	8.2	8.3	7.5	7.8
<b>INFLUENZA AND PNEUMONIA</b>											
<b>Total</b>	10.9	9.7	9.1	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2
<b>Male</b>	12.8	11.5	7.4	11.6	10.4	10.9	11.8	11.1	15.0	12.3	15.1
<b>Female</b>	9.3	8.2	5.6	8.8	7.7	8.2	9.4	8.9	10.8	8.9	9.6

**TABLE 2B-2 (continued)  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>COVID-19<sup>‡</sup></b>											
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	92.1
<b>Male</b>	-	-	-	-	-	-	-	-	-	-	118.3
<b>Female</b>	-	-	-	-	-	-	-	-	-	-	69.2
<b>ALZHEIMER'S DISEASE</b>											
<b>Total</b>	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7
<b>Male</b>	28.5	28.9	41.5	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1
<b>Female</b>	39.3	39.0	52.8	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5
<b>DIABETES</b>											
<b>Total</b>	20.1	24.8	23.5	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9
<b>Male</b>	24.9	30.3	29.2	29.1	28.9	31.8	31.5	30.1	29.8	30.5	36.0
<b>Female</b>	16.0	20.2	18.6	18.8	17.8	20.4	18.4	18.3	17.1	18.1	20.7
<b>CHRONIC LIVER DISEASE AND CIRRHOSIS</b>											
<b>Total</b>	12.3	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4
<b>Male</b>	16.1	18.0	18.7	18.2	16.5	19.2	19.8	18.0	17.9	18.8	21.6
<b>Female</b>	8.8	9.2	9.0	11.1	10.1	11.0	10.8	10.7	10.9	10.8	13.4
<b>NEPHRITIS, NEPHROTIC SYNDROME, AND NEPHROSIS</b>											
<b>Total</b>	7.6	6.0	6.2	5.3	4.6	6.3	5.8	6.2	7.7	8.3	8.4
<b>Male</b>	9.0	7.2	8.9	6.1	5.2	7.7	6.9	7.7	9.0	10.3	9.8
<b>Female</b>	6.4	5.1	6.7	4.8	4.2	5.2	4.9	4.9	6.7	6.5	7.2
<b>INTENTIONAL SELF-HARM (SUICIDE)</b>											
<b>Total</b>	16.7	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2
<b>Male</b>	27.1	27.4	25.9	26.6	25.6	27.5	28.0	28.1	31.5	29.7	28.8
<b>Female</b>	6.7	7.5	7.0	7.7	7.7	8.4	7.9	8.4	7.8	8.3	8.0
<b>ASSAULT (HOMICIDE)</b>											
<b>Total</b>	6.5	6.1	5.9	5.9	4.6	5.6	6.3	6.4	6.1	5.9	7.7
<b>Male</b>	10.5	9.6	8.6	9.2	7.1	8.6	9.9	10.0	9.8	9.1	12.1
<b>Female</b>	2.4	2.6	3.1	2.5	2.1	2.5	2.5	2.8	2.4	2.6	3.2
<b>SEPTICEMIA</b>											
<b>Total</b>	7.4	4.7	4.5	4.8	4.4	5.4	6.2	5.5	4.4	3.8	4.7
<b>Male</b>	10.8	5.4	6.1	5.6	5.0	6.4	7.1	5.9	5.0	4.4	5.1
<b>Female</b>	5.1	4.0	4.8	4.3	4.0	4.6	5.5	5.1	3.9	3.3	4.4

Notes: <sup>a</sup> The number of deaths per 100,000 population adjusted to the 2000 U.S. standard. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). Beginning in 2000, the causes of death are classified by ICD-10; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-3  
AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY  
AND GENDER, ARIZONA, 2000-2020**

	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
<b>Total, all causes</b>																		
2000	785.6	941.1	654.6	776.6	930.6	647.3	769.9	926.0	642.4	1057.5	1263.1	890.3	1011.4	1240.4	818.7	504.1	544.0	451.5
2001	791.2	952.4	656.7	778.1	936.3	647.1	787.6	958.7	644.5	1050.6	1211.7	923.5	1010.5	1213.3	836.9	560.7	592.9	517.2
2002	796.4	964.8	658.0	786.7	948.7	654.4	811.1	1007.5	651.5	951.5	1170.1	759.6	975.1	1201.3	792.3	560.4	661.8	452.6
2003	784.0	942.8	651.5	764.9	921.4	636.0	839.5	1007.3	698.7	1048.6	1201.7	901.9	900.7	1057.7	761.4	497.2	522.0	478.7
2004	757.3	909.0	632.0	734.6	885.2	612.8	834.0	1006.6	691.5	1021.7	1149.2	895.8	879.2	1040.6	741.7	557.5	446.5	715.3
2005	772.5	925.7	644.9	744.6	894.4	622.3	849.2	1062.1	679.8	1053.1	986.6	1125.9	1006.6	1215.2	835.6	629.5	670.8	593.1
2006	727.3	861.6	611.8	728.5	854.4	621.1	685.6	837.3	556.0	885.1	1109.5	693.6	744.5	933.9	593.0	393.4	478.0	340.5
2007	663.2	773.8	561.7	665.1	777.7	563.2	603.7	705.7	509.3	719.2	739.1	691.2	752.5	928.8	605.2	356.3	1008.6	342.1
2008	659.6	777.6	554.3	660.1	780.7	553.9	606.9	704.0	515.8	710.7	746.4	670.5	766.3	937.9	620.0	427.0	529.7	359.0
2009	653.2	763.9	555.1	647.3	761.9	546.8	614.9	712.3	528.4	736.8	728.4	736.1	823.5	972.5	695.0	472.8	561.7	408.7
2010	679.9	802.0	572.6	674.4	791.8	569.7	612.0	716.0	525.0	835.0	1009.6	698.5	891.8	1080.0	731.1	424.1	544.7	345.7
2011	699.6	817.1	595.3	741.5	810.1	595.9	656.4	781.9	549.7	833.6	981.9	718.5	765.5	871.4	669.5	436.7	521.8	377.8
2012	687.2	811.0	579.2	693.1	817.9	583.0	616.2	743.0	512.8	886.5	985.3	793.1	843.8	1001.0	708.3	440.1	463.6	418.3
2013	687.8	805.8	583.8	693.7	811.8	588.8	615.6	708.5	534.9	918.5	1061.5	782.1	887.0	1075.3	728.5	413.4	485.9	364.6
2014	676.0	791.2	572.8	685.7	802.3	579.5	636.9	752.5	538.1	739.9	850.5	646.5	818.5	971.5	684.9	371.8	416.1	337.6
2015	691.3	811.5	583.3	704.1	821.6	597.0	601.5	725.0	497.2	832.8	980.1	704.1	965.3	1171.5	790.6	413.8	498.8	360.5
2016	696.6	824.8	581.1	704.8	826.6	593.6	607.5	739.7	496.9	874.2	1029.9	724.6	1023.9	1314.1	783.5	433.5	485.6	392.8
2017	679.3	800.0	568.7	681.4	796.3	574.9	592.0	705.7	493.5	800.0	912.2	680.8	1001.9	1244.9	796.7	419.1	478.8	377.9
2018	688.6	813.4	573.5	690.2	808.2	579.8	607.1	736.8	493.9	843.2	945.3	746.7	1036.1	1293.0	816.9	429.7	487.7	388.2
2019	676.6	799.6	562.9	674.5	792.5	563.3	602.8	720.7	500.0	841.5	970.2	727.5	1051.0	1311.8	836.8	421.6	519.6	351.0
2020	842.2	1002.1	694.1	794.6	929.2	667.9	871.7	1085.5	689.9	1057.7	1275.0	854.0	1757.8	2199.1	1397.5	507.4	597.5	437.9
<b>Cardiovascular diseases</b>																		
2000	276.1	333.1	230.0	276.0	335.8	227.7	273.6	320.8	236.1	411.5	460.3	374.6	257.5	308.3	218.7	190.6	197.0	183.2
2001	267.3	321.6	223.0	265.8	322.0	220.1	281.4	325.8	242.8	388.1	422.3	354.6	234.1	275.6	202.5	184.3	190.8	179.9
2002	265.5	321.1	221.0	266.1	323.2	220.0	276.3	321.8	240.0	329.8	402.1	269.0	216.2	257.6	184.4	218.4	280.4	173.5
2003	258.4	310.3	215.8	257.2	309.3	214.2	278.2	339.9	230.3	390.1	426.5	348.3	188.6	239.3	150.6	145.3	137.2	150.7
2004	248.5	298.4	207.8	243.1	295.7	200.6	284.1	331.4	247.0	372.5	365.2	363.2	214.6	254.7	181.0	200.3	158.8	259.2
2005	245.7	298.2	203.8	241.3	295.8	198.2	266.1	331.8	217.5	343.3	304.3	385.9	235.6	279.7	201.6	243.0	244.9	241.3
2006	216.4	258.3	181.0	218.2	258.9	183.3	203.2	243.8	170.2	310.3	443.9	208.0	167.0	213.0	131.3	136.2	159.0	122.9
2007	194.4	227.5	164.3	196.9	234.0	163.5	179.8	201.8	159.1	225.9	210.0	239.7	155.0	181.8	132.4	108.9	265.9	108.3
2008	194.1	235.8	158.1	196.3	240.6	158.3	184.8	218.8	153.8	219.6	235.0	205.2	150.4	172.8	133.7	121.4	132.3	114.1
2009	188.8	228.1	154.9	188.3	229.4	152.9	179.8	211.3	151.9	245.7	228.8	252.2	164.2	209.1	130.0	150.8	182.3	127.9
2010	188.6	225.1	156.7	188.8	224.9	156.6	172.4	201.5	148.9	258.5	305.4	215.1	183.2	216.9	154.8	130.0	175.8	98.9
2011	201.0	239.2	168.0	212.6	239.9	167.1	193.4	223.9	168.0	266.1	329.3	219.6	149.2	160.8	136.3	122.4	148.6	103.7
2012	193.3	233.6	159.1	195.1	238.4	157.9	176.2	204.3	153.1	284.0	290.7	269.6	168.3	204.1	139.8	134.7	159.3	116.7
2013	187.7	229.0	152.4	190.9	233.3	154.0	161.9	194.2	135.3	280.2	354.0	218.5	164.2	199.8	137.4	133.6	154.8	119.2
2014	171.6	206.9	140.7	174.9	210.4	143.0	156.2	191.6	127.3	212.3	256.3	176.8	147.7	196.6	111.3	100.8	112.7	90.4
2015	189.0	226.7	156.1	192.4	231.6	157.8	165.1	191.3	141.7	266.8	306.2	232.1	167.0	205.0	136.2	119.1	153.6	97.6
2016	190.8	230.7	155.9	194.4	235.2	158.0	168.3	202.3	140.4	275.8	314.3	233.8	189.6	238.8	152.7	120.9	135.9	111.0
2017	189.9	228.6	155.5	191.4	228.9	157.3	166.2	204.8	134.8	258.3	297.4	220.1	204.2	268.3	157.4	125.2	150.3	110.3
2018	188.4	225.2	155.6	189.8	227.1	155.9	167.5	203.0	137.4	241.1	254.7	227.4	186.0	216.7	160.8	128.2	148.9	113.7
2019	184.9	221.2	152.4	185.9	221.9	152.9	160.4	196.4	131.0	254.7	270.6	237.7	192.7	238.6	156.7	128.0	159.5	104.4
2020	205.3	246.9	167.8	204.5	243.4	168.6	182.7	230.3	144.3	293.7	352.6	238.6	237.2	304.4	187.6	134.7	160.9	114.1

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>-----Diseases of heart</b>																		
2000	206.1	259.3	163.6	207.2	263.2	162.5	204.7	247.2	171.4	289.5	312.8	267.0	183.8	229.5	148.5	132.3	146.1	118.8
2001	201.7	251.3	161.5	202.1	252.9	160.9	206.1	255.8	165.4	273.6	300.5	248.5	177.7	218.4	146.8	116.1	116.8	116.0
2002	201.0	253.6	158.9	203.0	257.8	159.0	201.2	239.2	170.5	237.0	311.6	178.6	164.0	201.2	134.3	145.6	177.8	122.0
2003	197.1	246.6	157.1	197.9	248.4	157.2	198.5	252.7	155.9	299.4	335.2	259.2	141.9	181.6	111.0	97.6	88.8	103.5
2004	186.7	234.2	148.5	184.9	235.0	144.8	197.6	239.1	165.0	258.5	241.3	258.5	166.9	215.3	128.2	135.3	112.8	167.4
2005	186.9	237.4	147.3	185.2	237.7	144.5	189.6	242.2	149.9	250.3	235.7	266.2	179.1	231.7	139.9	159.8	177.7	143.9
2006	166.1	207.3	131.8	168.8	210.6	133.9	149.8	181.1	124.0	231.9	328.6	153.5	129.4	169.5	98.1	94.7	118.5	80.2
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
2018	140.5	176.3	109.1	144.3	181.1	111.4	116.0	147.4	90.1	166.4	185.8	149.5	129.9	156.0	108.6	86.0	112.9	68.5
2019	137.3	172.5	106.3	140.4	175.7	108.5	107.9	141.6	81.1	188.3	201.7	175.5	132.8	176.0	100.6	86.7	118.0	63.8
2020	152.9	192.2	118.1	154.9	192.5	120.8	125.5	163.5	94.8	212.3	263.8	164.4	164.3	234.2	113.2	91.0	112.0	74.6
<b>-----Cerebrovascular diseases</b>																		
2000	51.7	50.8	51.8	50.8	49.3	51.4	51.2	54.4	48.3	82.4	101.5	71.6	55.3	60.2	51.9	46.1	45.0	47.8
2001	47.7	48.3	46.8	46.2	47.1	45.0	55.4	50.8	57.7	79.6	80.0	76.2	44.3	46.6	42.9	51.1	49.2	52.1
2002	47.0	47.3	46.7	45.9	45.3	46.2	53.9	62.6	47.8	69.6	57.9	72.9	39.4	46.5	34.7	57.6	72.6	46.9
2003	43.9	42.9	43.8	41.7	40.1	42.1	61.9	65.7	59.2	69.0	60.6	73.5	36.4	45.8	29.9	35.9	42.5	31.1
2004	43.6	42.7	43.6	41.4	40.6	41.3	61.3	62.4	60.1	71.5	69.0	69.1	27.5	20.1	31.8	45.1	31.6	64.4
2005	40.6	40.0	40.5	38.8	38.1	38.8	51.0	59.8	44.3	66.0	40.3	94.1	32.3	29.9	33.7	64.6	49.0	78.3
2006	34.8	33.4	35.2	34.1	31.3	35.5	37.3	43.9	32.1	58.2	86.0	41.1	27.0	32.8	23.0	18.4	6.8	25.9
2007	30.6	27.7	32.2	29.7	26.9	31.2	34.9	30.0	37.8	34.1	30.9	36.5	22.0	23.9	20.3	37.7	85.6	40.0
2008	30.3	29.6	30.5	29.2	28.0	29.9	33.6	34.6	32.0	40.0	42.9	38.9	23.5	26.2	21.8	36.2	32.8	38.9
2009	28.9	28.2	29.1	27.5	26.6	27.9	33.8	34.3	32.7	42.8	31.4	54.5	24.7	33.5	20.0	39.2	43.6	35.9
2010	30.7	28.9	31.3	29.4	27.2	30.5	35.1	34.8	34.6	53.5	41.4	58.1	29.8	30.0	29.5	26.0	30.7	21.7
2011	30.6	28.0	32.3	30.4	26.2	30.7	34.9	33.3	35.6	56.5	43.3	64.3	29.7	24.8	33.1	29.1	34.2	26.2
2012	29.9	30.0	29.4	28.1	28.0	27.6	35.5	37.8	33.6	56.0	50.9	57.7	27.1	30.3	24.5	30.9	26.4	33.3
2013	28.2	27.2	28.5	27.1	25.7	27.7	29.7	30.8	28.5	54.4	51.4	54.6	23.4	18.6	25.3	30.7	30.0	31.2
2014	26.2	24.8	26.8	25.3	25.2	26.1	27.4	26.6	27.5	40.8	41.7	39.2	24.5	24.2	24.0	28.7	33.1	25.8
2015	31.1	31.3	30.7	30.1	29.6	30.1	32.4	34.0	30.6	51.8	59.6	45.5	31.6	31.7	31.1	30.4	36.7	27.0
2016	30.7	29.9	30.9	30.0	28.7	30.6	31.5	31.4	31.2	48.1	49.7	45.8	30.1	27.8	30.9	31.1	41.5	24.8
2017	30.7	30.7	30.2	29.2	28.5	29.3	34.5	38.1	31.3	49.2	45.6	50.3	31.7	30.7	31.1	23.6	26.2	22.0
2018	32.1	31.6	32.0	30.6	29.9	30.8	34.6	36.3	32.6	44.1	42.7	43.9	39.2	37.4	40.5	27.9	25.2	29.2
2019	31.0	30.2	31.4	30.0	28.8	30.7	33.9	33.7	33.5	35.7	38.6	32.7	35.7	34.9	35.8	23.2	25.0	21.7
2020	34.6	34.8	33.8	32.9	32.3	32.9	38.3	42.8	34.2	48.6	51.6	45.9	43.6	44.7	42.9	29.9	32.0	28.0

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>Malignant neoplasms</b>																		
2000	170.4	204.0	145.8	174.8	208.1	150.0	156.9	201.5	126.0	216.1	274.7	178.0	123.0	142.7	107.2	103.4	103.6	103.1
2001	169.2	199.8	147.5	173.1	203.7	151.4	155.6	196.8	126.9	213.0	247.6	195.0	121.7	128.8	115.4	147.0	175.5	127.1
2002	168.6	209.1	139.1	172.4	213.2	142.5	156.3	211.2	118.0	222.7	290.3	176.0	117.6	125.8	112.5	116.5	126.5	108.5
2003	169.4	208.3	141.3	171.2	212.4	141.2	168.5	209.2	140.1	218.5	245.6	200.8	120.7	112.6	126.7	132.9	132.8	132.6
2004	164.7	201.2	138.6	165.4	202.9	138.1	161.6	218.1	123.6	227.7	274.2	200.5	139.3	150.9	131.8	111.0	72.9	165.2
2005	161.8	197.1	136.1	162.4	197.6	136.8	165.9	217.1	130.8	217.9	216.7	219.3	122.2	159.7	97.5	112.7	122.5	104.0
2006	154.7	187.0	131.0	162.8	195.5	138.4	124.7	160.9	98.7	163.5	216.0	127.7	83.1	93.9	79.5	82.0	113.2	64.1
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
2018	135.9	161.8	114.7	140.2	165.7	118.9	118.7	144.3	99.6	156.7	193.4	131.2	115.3	149.6	92.6	102.7	112.0	96.7
2019	134.7	156.7	116.4	136.9	158.3	118.6	118.3	137.3	103.7	173.5	210.0	147.1	132.3	162.6	112.5	98.4	113.1	89.8
2020	134.7	156.1	117.2	138.9	159.3	121.8	114.8	132.7	100.9	169.4	206.2	141.6	116.5	138.7	102.8	87.9	97.0	81.5
<b>-----Lung cancer</b>																		
2000	46.1	59.2	35.8	49.1	61.9	39.1	31.6	49.6	18.1	65.8	79.8	52.1	8.9	13.1	5.5	29.6	29.0	29.8
2001	44.5	54.8	36.4	47.6	57.0	40.2	29.2	49.4	14.4	55.7	78.9	39.5	9.8	11.9	8.1	41.7	62.8	27.1
2002	46.6	58.6	37.1	50.1	62.4	40.4	27.7	40.0	18.3	61.2	74.7	49.5	13.1	13.4	13.0	24.7	24.5	24.6
2003	47.4	61.0	37.1	50.6	64.0	40.3	33.5	49.6	21.5	59.4	80.8	45.6	13.2	17.2	10.3	21.9	26.3	18.5
2004	45.4	57.3	36.3	48.2	59.6	39.3	29.4	49.4	14.7	61.4	74.4	53.0	17.3	21.5	14.2	21.5	15.7	30.3
2005	43.0	54.1	34.4	45.9	56.8	37.4	29.0	45.0	17.3	53.0	58.6	46.8	6.5	9.0	4.7	19.7	18.8	20.4
2006	42.7	53.5	34.2	47.4	58.6	38.5	21.4	31.6	13.8	45.9	65.9	33.9	4.7	4.3	4.9	18.4	32.5	9.2
2007	38.2	47.2	30.9	42.4	51.7	34.8	20.5	30.4	12.4	39.6	46.3	35.7	9.9	14.2	6.8	21.5	48.0	23.1
2008	38.5	47.7	31.2	42.3	51.7	34.8	20.0	27.7	13.7	37.1	45.4	27.8	11.2	10.1	11.7	32.7	49.1	21.8
2009	39.0	47.4	32.2	42.7	51.5	35.5	23.7	33.9	15.8	38.7	38.3	39.8	10.0	7.1	12.6	26.6	37.0	19.1
2010	38.1	46.1	31.5	41.7	49.5	35.3	20.6	28.5	14.6	36.6	41.7	31.4	7.5	12.5	3.6	22.1	36.9	12.8
2011	37.8	46.1	31.1	46.7	49.2	34.9	22.9	35.9	13.3	36.6	40.4	33.3	7.9	13.8	3.9	20.8	33.9	13.4
2012	37.7	45.2	31.6	41.5	49.0	35.3	22.0	30.6	15.6	43.0	50.7	36.7	9.3	7.9	9.8	20.9	33.6	13.5
2013	36.4	42.9	31.0	40.2	46.7	34.8	22.1	27.6	17.3	40.5	57.3	29.4	10.0	11.6	9.5	22.9	31.6	17.6
2014	32.2	38.1	27.3	35.3	41.0	30.5	21.6	30.4	15.2	29.5	37.5	22.7	10.2	12.0	8.7	26.7	27.8	25.4
2015	35.1	40.5	30.7	39.1	44.2	34.8	18.8	24.9	14.5	38.4	58.6	22.5	8.1	10.3	6.9	30.6	38.0	25.8
2016	31.4	36.6	26.9	34.8	40.0	30.5	17.8	22.0	14.3	37.8	48.7	31.5	7.4	10.7	4.7	19.5	20.1	18.4
2017	30.8	36.0	26.5	34.3	39.6	29.7	15.2	19.6	11.7	27.9	35.6	20.6	8.5	3.9	11.6	29.2	30.5	28.1
2018	28.9	33.8	24.6	31.5	36.4	27.3	17.6	20.7	15.0	35.6	47.7	26.2	9.0	17.9	2.8	22.8	26.3	20.4
2019	26.2	29.7	23.3	28.6	31.7	25.9	16.3	20.9	12.8	33.1	41.4	25.9	8.1	9.3	7.3	20.9	19.4	21.7
2020	26.8	29.9	24.2	29.4	32.0	27.3	15.3	18.8	12.6	36.0	47.9	26.8	9.6	12.5	7.6	14.8	16.6	13.6

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>-----Colorectal cancer</b>																		
2000	17.0	20.5	14.1	17.4	20.7	14.6	16.4	20.5	13.5	16.3	26.3	9.7	8.2	15.1	2.7	6.6	12.9	2.2
2001	16.7	19.0	14.8	16.9	19.0	15.2	16.6	22.1	12.9	27.4	26.2	25.2	7.2	7.8	6.3	10.6	15.3	7.2
2002	16.5	20.6	13.4	16.9	21.0	13.6	16.2	23.4	11.7	26.4	36.4	19.8	9.1	7.9	9.3	9.7	13.9	7.0
2003	17.9	21.8	14.7	17.9	22.0	14.4	21.2	25.5	17.9	26.3	22.3	28.2	6.3	10.2	3.7	3.0	4.8	1.8
2004	15.3	18.9	12.6	15.5	19.2	12.8	13.1	15.8	11.5	27.3	41.2	16.9	9.3	14.1	5.6	11.0	7.7	15.9
2005	15.4	18.9	12.8	15.2	18.8	12.5	17.6	21.5	14.8	27.0	23.7	30.6	7.5	10.0	6.0	12.5	18.7	7.1
2006	14.6	18.1	12.0	15.1	18.9	12.0	14.2	15.8	13.1	14.9	21.1	10.1	4.7	3.5	5.5	6.5	11.4	3.9
2007	14.4	17.7	11.5	15.0	18.1	12.3	12.0	16.5	8.6	15.7	19.3	11.8	8.0	10.6	5.3	9.4	28.7	9.8
2008	13.1	15.1	11.3	13.2	15.0	11.4	13.2	15.5	11.2	16.4	20.3	13.0	11.1	11.9	10.9	8.6	14.9	4.2
2009	12.9	14.9	11.2	12.9	15.1	11.0	13.8	16.7	11.5	14.1	14.0	14.9	8.5	7.4	9.1	13.8	16.4	12.5
2010	13.8	16.6	11.4	13.9	16.0	12.1	13.5	19.0	9.2	21.9	28.9	16.0	12.4	19.9	8.0	10.3	22.2	2.6
2011	13.4	15.4	11.6	14.4	15.3	11.4	13.6	16.5	11.2	20.2	12.6	25.6	9.9	12.0	7.4	14.3	16.2	12.7
2012	13.1	15.8	10.7	13.4	16.0	11.2	12.2	17.0	8.3	20.5	23.9	17.4	7.1	7.8	6.3	9.8	8.0	11.4
2013	13.6	15.3	12.3	13.7	15.5	12.2	12.5	14.3	10.9	21.7	19.6	23.0	11.3	7.3	14.0	12.1	13.0	11.7
2014	12.4	14.6	10.5	13.2	15.0	11.5	10.8	15.1	7.4	15.8	18.4	14.3	7.0	9.5	4.7	7.2	8.3	6.3
2015	12.9	15.6	10.5	12.9	15.1	10.9	11.8	16.6	8.0	19.5	25.1	15.0	13.3	18.8	9.6	9.4	17.1	4.9
2016	12.9	15.4	10.6	13.2	15.6	11.2	11.1	14.7	7.8	17.4	17.9	16.1	8.0	7.7	8.3	13.1	10.6	13.8
2017	13.0	16.0	10.2	13.2	16.4	10.3	12.7	16.6	9.5	15.1	13.8	16.1	11.1	14.1	8.4	6.0	11.3	2.4
2018	12.9	15.8	10.3	12.7	14.9	10.7	13.8	20.0	9.0	17.2	26.2	10.8	10.8	16.3	6.9	12.5	18.3	9.0
2019	12.3	14.6	10.1	12.4	15.0	10.0	11.2	12.5	9.8	14.2	17.3	11.3	12.9	17.2	10.4	11.0	10.2	11.6
2020	12.7	14.2	11.4	12.9	14.0	11.9	11.3	14.6	8.7	18.2	18.3	17.6	12.8	15.3	10.5	9.2	9.1	9.4
<b>-----Female breast cancer</b>																		
2000	NA	NA	25.4	NA	NA	26.2	NA	NA	20.7	NA	NA	29.5	NA	NA	12.1	NA	NA	12.8
2001	NA	NA	23.6	NA	NA	24.7	NA	NA	17.5	NA	NA	55.8	NA	NA	11.7	NA	NA	12.7
2002	NA	NA	22.2	NA	NA	22.5	NA	NA	18.7	NA	NA	42.3	NA	NA	9.6	NA	NA	17.7
2003	NA	NA	22.1	NA	NA	22.3	NA	NA	18.9	NA	NA	41.2	NA	NA	16.4	NA	NA	19.6
2004	NA	NA	21.4	NA	NA	21.4	NA	NA	18.0	NA	NA	32.2	NA	NA	18.4	NA	NA	35.2
2005	NA	NA	20.7	NA	NA	20.5	NA	NA	19.8	NA	NA	35.7	NA	NA	14.9	NA	NA	17.3
2006	NA	NA	21.6	NA	NA	23.2	NA	NA	14.0	NA	NA	25.7	NA	NA	6.9	NA	NA	7.5
2007	NA	NA	20.1	NA	NA	20.5	NA	NA	16.9	NA	NA	23.9	NA	NA	16.2	NA	NA	11.3
2008	NA	NA	19.8	NA	NA	20.6	NA	NA	15.1	NA	NA	38.0	NA	NA	11.6	NA	NA	7.1
2009	NA	NA	19.2	NA	NA	19.8	NA	NA	16.4	NA	NA	30.7	NA	NA	11.6	NA	NA	5.9
2010	NA	NA	19.2	NA	NA	19.9	NA	NA	18.5	NA	NA	25.8	NA	NA	8.2	NA	NA	12.9
2011	NA	NA	19.7	NA	NA	20.8	NA	NA	12.2	NA	NA	24.1	NA	NA	7.5	NA	NA	15.6
2012	NA	NA	19.2	NA	NA	20.0	NA	NA	14.8	NA	NA	30.3	NA	NA	8.6	NA	NA	15.3
2013	NA	NA	20.7	NA	NA	21.3	NA	NA	19.7	NA	NA	23.3	NA	NA	13.1	NA	NA	11.4
2014	NA	NA	17.9	NA	NA	18.5	NA	NA	16.5	NA	NA	29.4	NA	NA	9.2	NA	NA	6.3
2015	NA	NA	19.2	NA	NA	20.7	NA	NA	12.9	NA	NA	23.1	NA	NA	12.8	NA	NA	13.3
2016	NA	NA	19.4	NA	NA	20.8	NA	NA	13.9	NA	NA	23.0	NA	NA	11.8	NA	NA	13.4
2017	NA	NA	18.2	NA	NA	18.7	NA	NA	13.3	NA	NA	36.7	NA	NA	13.0	NA	NA	14.5
2018	NA	NA	17.6	NA	NA	18.7	NA	NA	13.8	NA	NA	24.9	NA	NA	9.1	NA	NA	17.6
2019	N/A	N/A	18.8	N/A	N/A	19.1	N/A	N/A	15.2	N/A	N/A	39.3	N/A	N/A	17.6	N/A	N/A	13.8
2020	N/A	N/A	18.5	N/A	N/A	19.5	N/A	N/A	15.9	N/A	N/A	28.2	N/A	N/A	6.5	N/A	N/A	13.5

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>-----Prostate cancer</b>																		
2000	NA	28.4	NA	NA	28.0	NA	NA	30.0	NA	NA	74.8	NA	NA	27.1	NA	NA	8.9	NA
2001	NA	24.3	NA	NA	24.1	NA	NA	26.3	NA	NA	45.0	NA	NA	14.0	NA	NA	24.2	NA
2002	NA	24.8	NA	NA	24.1	NA	NA	35.3	NA	NA	48.6	NA	NA	12.5	NA	NA	8.4	NA
2003	NA	25.1	NA	NA	25.2	NA	NA	22.4	NA	NA	41.2	NA	NA	21.0	NA	NA	7.6	NA
2004	NA	24.0	NA	NA	22.6	NA	NA	35.0	NA	NA	54.6	NA	NA	31.2	NA	NA	6.1	NA
2005	NA	23.8	NA	NA	23.5	NA	NA	30.6	NA	NA	20.4	NA	NA	23.5	NA	NA	5.1	NA
2006	NA	20.1	NA	NA	19.2	NA	NA	25.9	NA	NA	34.9	NA	NA	16.9	NA	NA	24.0	NA
2007	NA	18.9	NA	NA	19.5	NA	NA	15.8	NA	NA	23.6	NA	NA	16.6	NA	NA	19.4	NA
2008	NA	19.1	NA	NA	18.9	NA	NA	20.3	NA	NA	20.5	NA	NA	14.7	NA	NA	25.5	NA
2009	NA	18.4	NA	NA	18.2	NA	NA	20.0	NA	NA	28.9	NA	NA	16.4	NA	NA	2.1	NA
2010	NA	19.1	NA	NA	18.4	NA	NA	23.9	NA	NA	35.2	NA	NA	21.6	NA	NA	12.6	NA
2011	NA	19.8	NA	NA	19.5	NA	NA	20.6	NA	NA	24.1	NA	NA	17.1	NA	NA	5.0	NA
2012	NA	18.9	NA	NA	18.8	NA	NA	22.0	NA	NA	26.7	NA	NA	12.4	NA	NA	9.8	NA
2013	NA	18.2	NA	NA	18.0	NA	NA	17.0	NA	NA	26.7	NA	NA	19.9	NA	NA	18.5	NA
2014	NA	17.0	NA	NA	17.0	NA	NA	15.5	NA	NA	24.0	NA	NA	23.0	NA	NA	7.4	NA
2015	NA	17.6	NA	NA	17.3	NA	NA	17.6	NA	NA	29.6	NA	NA	26.0	NA	NA	10.7	NA
2016	NA	18.8	NA	NA	18.6	NA	NA	19.4	NA	NA	39.5	NA	NA	15.9	NA	NA	6.4	NA
2017	NA	16.8	NA	NA	16.5	NA	NA	16.3	NA	NA	26.3	NA	NA	19.9	NA	NA	9.7	NA
2018	NA	17.4	NA	NA	17.1	NA	NA	15.8	NA	NA	30.5	NA	NA	23.7	NA	NA	12.1	NA
2019	N/A	17.4	N/A	N/A	17.0	N/A	N/A	16.9	N/A	N/A	41.9	N/A	N/A	19.0	N/A	N/A	9.9	N/A
2020	N/A	18.5	N/A	N/A	18.2	N/A	N/A	18.3	N/A	N/A	35.4	N/A	N/A	17.5	N/A	N/A	8.1	N/A
<b>Chronic lower respiratory diseases<sup>b</sup></b>																		
2000	47.4	56.2	41.3	51.1	59.8	44.8	24.4	38.2	15.9	30.4	38.4	26.3	21.9	28.9	17.9	12.7	7.8	16.5
2001	46.9	53.9	42.2	51.0	58.1	46.2	17.7	25.4	12.5	37.9	48.9	32.2	26.8	30.0	24.3	21.4	19.2	23.0
2002	47.0	57.1	40.3	50.4	59.4	44.5	25.2	46.6	11.2	38.3	59.0	21.9	22.3	30.1	17.0	24.5	45.8	9.0
2003	45.4	53.8	40.0	48.3	56.5	42.9	28.7	39.9	22.1	30.3	39.7	23.1	19.4	20.8	18.4	15.5	34.4	2.1
2004	41.9	48.1	37.7	45.1	51.3	41.0	22.7	29.5	17.8	24.9	38.8	14.8	10.8	4.7	15.1	21.6	27.1	14.2
2005	46.8	51.3	43.5	49.6	53.6	46.7	31.6	42.7	24.0	43.9	49.4	37.9	12.0	12.9	11.4	17.9	22.6	13.8
2006	44.3	50.2	40.1	49.2	55.5	44.7	18.3	20.9	16.2	27.3	28.8	25.6	8.4	6.2	10.4	9.9	26.2	0.0
2007	39.2	43.5	36.0	43.7	47.9	40.7	18.8	26.4	13.4	18.7	10.1	26.7	13.0	20.1	8.4	7.5	19.9	6.1
2008	42.1	46.5	38.9	46.7	50.8	43.7	20.5	24.3	18.0	26.0	33.9	19.1	15.8	23.9	9.5	13.7	22.4	8.5
2009	40.5	44.7	37.1	45.0	48.7	42.1	16.4	20.2	13.4	26.8	34.1	20.8	19.2	29.5	12.3	18.0	33.4	8.1
2010	42.6	48.1	38.6	47.1	52.2	43.4	18.6	25.4	14.3	27.4	32.2	23.8	21.7	24.1	20.0	12.0	29.5	1.7
2011	45.9	49.7	42.8	55.3	53.3	48.5	19.5	26.5	14.7	34.8	48.5	24.7	14.4	14.7	14.4	17.2	26.4	11.9
2012	44.2	50.5	39.5	49.4	55.5	44.8	20.3	27.1	16.1	35.0	43.4	30.9	18.0	27.4	12.1	14.7	14.3	14.2
2013	44.5	48.1	41.8	49.3	52.5	47.0	20.9	24.6	18.2	46.7	56.4	37.5	15.5	11.7	18.4	19.4	32.0	12.4
2014	41.1	45.8	37.5	45.9	49.7	43.0	21.1	28.7	15.9	34.0	47.4	26.1	12.4	13.7	11.7	17.3	33.8	7.6
2015	45.1	48.9	41.7	50.8	53.7	48.0	21.5	27.9	16.8	34.0	51.8	20.6	14.8	16.5	13.0	18.1	17.5	18.4
2016	45.0	47.6	42.9	50.9	52.7	49.4	20.0	23.2	17.7	43.8	51.5	39.2	19.5	27.2	15.1	11.3	19.4	5.9
2017	43.0	45.3	41.0	48.0	49.7	46.5	19.9	23.7	17.1	28.8	21.3	34.3	22.9	27.4	19.9	20.1	29.6	14.3
2018	42.6	44.7	40.7	48.0	49.2	46.8	18.3	22.7	14.8	38.2	41.4	35.9	20.8	22.2	20.2	17.2	17.2	17.3
2019	39.2	41.9	37.0	43.7	45.1	42.5	20.1	25.9	16.1	34.2	49.7	23.4	18.1	21.5	15.6	11.6	13.2	10.6
2020	38.8	41.2	36.8	43.1	44.4	41.9	21.9	27.0	18.2	27.4	30.4	25.2	20.9	27.5	16.5	14.3	20.5	11.0



**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>Chronic liver disease and cirrhosis</b>																		
2000	12.8	17.7	8.3	10.4	14.9	6.4	15.8	20.5	11.0	6.6	7.1	5.9	61.7	80.2	45.3	4.1	6.9	2.2
2001	12.3	17.7	7.5	10.6	15.0	6.6	17.4	27.0	8.7	11.7	24.1	2.0	39.1	51.1	28.4	4.0	3.8	4.2
2002	12.1	15.6	8.9	9.9	11.9	8.0	21.6	31.9	12.3	9.8	14.6	5.5	40.5	55.6	27.5	5.3	2.9	7.0
2003	11.5	16.2	7.1	9.7	13.8	5.8	17.6	25.1	10.6	3.5	6.3	1.0	38.8	49.6	29.8	3.3	0.0	5.8
2004	11.1	15.6	6.9	8.4	11.7	5.4	18.6	26.6	10.6	6.7	7.3	6.5	51.0	68.9	36.1	3.8	7.0	2.4
2005	12.7	17.7	8.1	10.7	15.1	6.6	19.4	28.6	11.4	12.8	14.7	10.7	51.2	60.3	42.8	4.9	10.4	0.0
2006	11.4	14.3	8.5	9.6	11.8	7.6	15.5	19.9	11.1	7.2	11.6	4.2	43.6	54.3	32.7	3.1	3.8	2.5
2007	11.3	15.4	7.6	9.6	13.0	6.6	16.3	23.5	9.4	5.9	9.9	2.3	36.8	46.9	28.3	3.2	5.5	4.2
2008	11.7	15.3	8.4	10.0	13.2	7.1	15.4	19.9	11.2	7.5	9.2	5.6	40.7	52.8	30.5	1.8	2.6	1.1
2009	12.2	15.4	9.1	9.5	12.8	6.4	18.7	21.4	15.7	3.1	3.4	2.7	54.0	57.9	49.9	3.1	6.4	1.1
2010	12.3	16.1	8.8	9.7	13.6	6.1	15.5	20.9	10.3	8.0	9.5	7.0	64.6	63.9	64.9	0.5	1.2	0.0
2011	13.4	18.0	9.2	12.0	14.7	8.1	18.9	29.2	9.8	6.6	5.5	7.6	43.6	46.7	40.4	4.2	9.0	0.9
2012	13.6	18.7	9.0	11.4	15.9	7.2	16.9	25.7	9.2	10.9	14.8	8.5	59.2	63.3	55.5	2.6	6.1	0.0
2013	14.5	18.2	11.1	12.6	15.5	10.0	16.7	23.0	10.8	6.8	9.9	3.9	62.0	70.1	55.0	3.9	4.3	3.4
2014	13.2	16.5	10.1	10.9	14.1	7.9	18.0	22.4	13.6	8.3	10.7	5.5	52.7	48.0	55.5	3.8	4.0	3.6
2015	14.9	19.2	11.0	13.1	16.1	10.3	14.0	22.0	7.0	8.4	12.3	4.6	77.6	91.8	66.1	4.0	8.3	0.8
2016	15.1	19.8	10.8	12.5	16.0	9.2	16.8	24.2	10.3	7.7	12.7	2.9	85.9	107.3	67.2	2.0	5.2	0.0
2017	14.2	18.0	10.7	11.9	14.6	9.3	15.8	23.1	9.6	4.6	7.2	2.1	74.0	85.4	63.7	4.8	8.8	2.0
2018	14.2	17.9	10.9	11.3	13.7	9.1	15.1	22.9	8.3	6.8	8.5	5.5	88.8	101.9	77.1	3.4	5.7	1.8
2019	14.7	18.8	10.8	12.4	15.6	9.3	14.5	21.0	8.7	7.8	9.9	6.0	82.7	98.2	68.8	3.9	1.8	5.4
2020	17.4	21.6	13.4	14.9	18.6	11.5	16.7	23.3	10.7	4.3	6.2	2.5	103.2	110.6	95.5	3.1	2.9	3.3
<b>Diabetes</b>																		
2000	19.0	21.0	17.2	14.9	17.4	12.6	41.1	41.9	40.6	46.0	40.9	47.4	74.6	74.1	74.2	19.5	10.9	26.1
2001	19.9	22.9	17.5	15.4	19.2	12.2	42.9	43.5	42.3	55.7	42.2	64.1	72.8	71.2	73.9	14.8	3.0	23.3
2002	22.3	25.6	19.7	18.0	21.8	15.1	45.6	49.1	42.6	41.0	46.4	37.2	80.8	69.2	88.6	21.9	15.7	26.3
2003	20.3	23.6	17.5	16.5	20.6	13.1	39.1	35.9	40.9	53.6	55.0	49.8	55.8	48.2	60.3	15.7	22.2	11.6
2004	20.7	23.4	18.4	16.8	19.7	14.4	43.5	44.2	42.0	44.8	47.7	42.6	59.0	58.4	58.8	30.0	29.1	31.6
2005	20.1	24.7	16.7	15.5	20.2	12.1	46.0	49.9	42.4	55.2	56.2	54.0	69.9	73.5	68.2	17.8	17.7	18.0
2006	18.9	22.5	15.9	15.2	18.4	12.5	40.4	46.1	35.3	43.9	49.7	42.3	43.9	49.3	39.5	10.9	9.7	11.4
2007	17.0	20.5	13.9	13.7	17.4	10.4	30.8	32.6	28.9	30.3	32.0	30.0	51.1	61.1	42.1	5.1	12.8	4.4
2008	17.0	20.7	13.9	13.8	17.9	10.5	29.1	29.7	27.7	30.8	35.4	29.2	50.8	47.9	52.5	16.1	22.9	12.3
2009	15.7	18.2	13.5	12.2	15.5	9.4	28.1	29.2	27.2	31.1	28.6	34.9	54.2	46.6	59.9	16.2	18.5	14.4
2010	20.1	24.9	16.0	15.2	20.1	11.0	37.3	45.0	31.4	50.0	56.8	45.5	79.3	80.6	76.9	11.7	9.3	13.1
2011	24.8	30.3	20.2	21.6	25.1	15.7	41.7	48.4	35.9	57.8	71.9	44.4	61.3	50.7	68.8	23.3	32.4	17.4
2012	23.5	29.2	18.6	18.3	23.9	13.5	40.8	47.4	35.4	49.4	59.0	40.6	80.2	94.1	69.7	27.6	27.8	26.6
2013	23.6	29.1	18.8	18.6	24.0	14.0	40.7	45.8	36.3	60.2	68.0	55.8	65.7	79.7	55.0	17.9	18.5	17.9
2014	23.0	28.9	17.8	18.8	24.6	13.6	39.1	46.8	32.6	39.7	41.8	37.1	63.2	74.7	54.5	18.3	30.1	10.9
2015	25.7	31.8	20.4	20.1	25.8	15.1	45.3	53.2	38.7	53.0	67.5	42.6	73.9	85.6	65.3	22.7	29.3	18.4
2016	24.5	31.5	18.4	19.3	25.8	13.5	40.5	51.4	32.1	50.1	55.9	44.9	79.9	100.4	63.5	20.8	14.9	24.0
2017	23.8	30.1	18.3	18.1	23.5	13.3	39.4	48.7	31.7	45.9	49.5	42.3	81.6	101.9	64.8	21.3	22.6	20.3
2018	23.0	29.8	17.1	18.0	24.0	12.6	35.0	44.0	27.4	48.9	54.7	44.5	73.6	92.4	59.1	17.0	25.9	11.4
2019	23.9	30.5	18.1	18.9	25.6	12.9	34.6	42.0	28.8	43.6	44.6	42.0	91.4	106.3	78.5	19.5	23.4	16.6
2020	27.9	36.0	20.7	21.4	28.2	15.2	43.1	56.0	32.6	51.7	61.9	42.1	106.4	137.7	82.1	22.1	24.9	19.8

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>Accidents (unintentional injuries)</b>																		
2000	41.1	58.0	24.9	36.9	51.5	23.3	41.6	60.8	22.5	49.7	75.8	22.7	113.1	165.2	67.4	24.1	24.4	21.4
2001	46.6	66.5	27.7	42.5	59.5	26.8	45.6	63.9	25.9	52.6	83.2	22.4	112.7	177.5	53.9	29.9	41.3	46.6
2002	45.2	62.8	28.8	41.5	56.8	27.8	45.5	64.6	26.2	44.0	58.5	28.5	111.0	168.4	60.4	15.5	13.8	15.6
2003	44.8	61.6	28.8	40.9	55.2	27.6	44.7	63.3	26.3	52.4	69.8	35.0	108.6	153.5	66.3	25.3	35.2	17.8
2004	46.0	61.1	31.7	43.3	56.8	30.7	48.9	66.1	31.8	45.9	66.9	26.0	103.9	137.5	73.7	21.2	21.7	30.0
2005	51.1	68.7	34.4	46.2	62.4	31.4	54.8	71.5	37.2	64.3	80.3	46.9	117.8	174.1	67.4	34.2	41.2	28.1
2006	51.2	68.5	34.3	48.7	64.5	33.5	52.4	72.9	32.2	54.8	73.0	34.5	97.2	139.8	58.6	19.8	17.0	20.8
2007	46.6	60.6	32.3	44.9	57.7	32.2	40.6	53.5	27.5	48.1	62.8	29.6	95.0	143.9	50.3	20.3	72.6	20.3
2008	44.7	59.0	30.6	45.4	59.8	31.4	34.2	46.9	22.0	43.1	50.6	33.8	92.6	142.6	47.9	23.7	31.1	17.9
2009	43.1	56.6	29.8	43.3	56.6	30.4	35.3	48.2	23.3	36.5	42.1	30.0	92.6	144.4	46.4	24.5	27.6	21.1
2010	43.8	56.6	31.6	45.5	58.0	33.3	33.7	45.3	22.8	36.0	42.3	30.7	99.2	148.9	55.4	24.6	24.9	23.9
2011	45.5	58.3	32.6	46.9	57.3	33.9	38.9	51.9	26.4	41.6	50.3	34.4	100.6	146.7	58.0	19.7	28.4	14.0
2012	42.4	54.0	31.0	43.3	54.0	32.7	33.9	45.4	22.8	38.2	50.3	25.2	94.8	136.9	56.5	21.0	20.0	20.3
2013	46.3	60.1	32.8	47.9	61.2	34.7	38.5	51.4	26.3	43.3	68.7	23.5	104.5	150.5	62.9	13.4	12.7	13.2
2014	43.3	56.7	30.1	43.7	57.7	29.9	35.9	47.3	24.9	37.6	44.1	32.2	85.4	128.2	47.4	18.3	15.5	19.3
2015	48.1	62.7	34.1	49.3	62.4	36.7	36.7	48.4	24.9	50.5	59.5	40.6	139.0	203.9	82.7	21.7	23.7	20.2
2016	53.7	73.1	34.9	55.2	73.8	36.9	41.6	58.2	25.9	52.2	66.0	35.8	139.1	219.5	67.9	25.9	33.4	20.1
2017	55.3	73.7	37.0	54.5	71.5	37.3	45.9	61.4	30.4	60.3	89.3	31.1	142.0	206.1	88.1	24.3	31.2	19.3
2018	55.9	76.4	35.6	56.3	74.7	37.8	44.5	63.5	26.0	57.6	80.4	34.1	144.5	224.0	74.5	24.9	31.5	18.7
2019	59.2	82.6	36.0	60.5	83.0	38.0	48.3	70.8	26.1	60.4	80.0	40.3	129.4	183.3	81.6	22.9	31.5	15.0
2020	71.5	100.6	42.4	69.2	94.4	43.8	60.4	89.5	31.5	82.2	124.6	38.0	180.1	262.7	104.9	20.2	24.8	16.1
<b>-----Motor vehicle accidents</b>																		
2000	17.5	24.4	10.6	13.8	18.5	9.2	18.2	28.5	7.5	19.3	33.1	6.8	74.2	106.4	46.3	15.3	11.6	12.8
2001	17.2	24.2	10.1	13.5	18.5	8.5	18.2	26.3	9.4	19.1	28.8	7.2	63.2	88.8	38.3	8.6	7.7	9.9
2002	18.5	25.5	11.6	14.7	20.3	9.3	21.1	27.4	14.0	11.9	15.9	7.5	65.9	100.2	35.3	10.1	8.2	11.1
2003	18.0	24.9	11.2	14.6	20.3	9.0	21.3	29.1	13.6	15.2	23.3	8.1	59.0	78.0	40.4	11.8	14.1	9.9
2004	18.1	23.9	12.5	15.3	20.3	10.6	23.2	30.0	16.0	14.8	18.2	10.8	54.1	63.9	44.1	11.3	13.7	13.9
2005	18.9	27.0	11.1	15.0	21.9	8.4	22.7	33.1	12.6	24.9	31.4	17.8	62.6	91.3	36.4	10.2	14.5	6.3
2006	19.6	26.8	12.4	16.6	22.8	10.7	21.9	29.9	13.3	15.3	22.9	7.7	56.9	76.5	38.5	5.9	5.3	6.1
2007	16.2	22.2	10.1	13.1	18.3	8.0	17.6	22.6	12.2	13.6	18.2	7.6	49.0	72.8	27.2	9.9	37.6	10.6
2008	13.6	19.5	7.9	12.0	17.7	6.5	13.1	18.5	7.7	11.5	16.8	5.6	41.9	55.0	29.3	4.4	6.9	2.0
2009	11.6	16.8	6.5	10.1	15.2	5.1	10.6	14.4	6.7	12.4	14.2	10.3	36.9	51.0	23.3	6.5	11.2	3.0
2010	11.1	15.9	6.4	9.2	13.6	4.8	11.1	15.6	6.9	10.8	14.2	7.2	41.7	60.2	24.0	5.5	4.3	6.3
2011	12.1	17.6	6.9	10.4	14.5	5.6	11.7	17.6	6.2	11.7	16.6	7.5	44.2	66.8	23.7	6.8	6.3	7.3
2012	11.4	16.8	6.3	10.0	14.8	5.3	10.6	16.3	5.4	10.1	15.2	5.1	37.8	53.1	22.8	4.9	5.4	4.5
2013	11.4	16.3	6.6	10.2	15.1	5.3	11.4	15.5	7.3	12.0	18.1	4.8	31.7	40.3	23.5	5.8	8.6	3.8
2014	10.3	14.5	6.0	8.3	12.5	4.1	10.3	14.2	6.5	7.9	11.1	4.4	35.6	49.2	23.1	2.5	2.8	2.2
2015	12.6	18.0	7.2	10.7	15.5	5.9	9.9	15.2	4.8	14.1	19.1	8.2	54.3	74.1	36.5	8.2	7.9	8.3
2016	13.9	20.1	7.8	11.5	17.3	5.9	13.3	19.9	7.2	19.1	22.6	14.7	52.2	77.6	29.5	7.2	9.0	6.2
2017	13.8	19.5	8.2	12.0	17.8	6.1	12.7	17.7	8.1	17.1	26.0	8.6	54.0	70.0	39.7	7.5	10.1	5.2
2018	14.1	20.0	8.3	12.3	17.3	7.4	12.1	18.7	6.0	13.9	17.0	10.7	60.7	91.1	33.1	6.2	7.9	4.8
2019	13.1	18.9	7.5	12.4	18.0	6.9	12.5	19.1	6.3	12.0	16.2	7.8	36.7	48.4	26.5	6.1	10.4	2.6
2020	14.0	20.2	7.8	12.0	17.9	6.2	13.7	19.7	7.6	12.2	19.3	4.6	44.7	59.4	30.8	6.8	6.0	7.4

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	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
<b>Assault (homicide)</b>																		
2000	7.6	11.1	3.8	3.9	5.4	2.3	13.0	19.2	6.1	22.7	32.3	11.0	14.9	22.1	7.5	7.6	5.1	9.7
2001	8.7	13.7	3.6	4.3	6.1	2.6	15.5	24.8	5.0	22.2	35.7	6.8	17.2	24.8	10.0	4.9	9.7	1.2
2002	8.6	13.9	3.0	4.4	6.8	2.0	15.1	25.8	3.4	21.3	32.5	7.1	20.3	29.0	11.8	3.3	0.0	5.8
2003	8.3	12.8	3.6	3.7	5.1	2.2	14.7	23.7	4.8	24.9	38.7	9.0	18.8	31.5	6.9	5.4	2.5	5.8
2004	8.2	13.3	2.9	4.8	7.0	2.6	13.6	23.2	3.0	22.3	35.5	7.4	14.7	25.9	4.5	1.4	2.3	0.0
2005	8.2	13.5	2.6	3.5	5.6	1.3	14.6	24.2	3.9	27.4	45.7	7.5	14.0	22.4	5.8	5.1	8.0	2.5
2006	8.5	13.5	3.1	4.6	6.8	2.4	13.0	21.6	3.3	19.6	30.5	7.5	13.2	23.7	3.2	2.4	1.5	3.5
2007	7.7	11.8	3.2	3.9	5.5	2.2	12.0	19.5	3.7	23.4	32.3	12.7	13.1	21.7	4.8	2.6	16.0	1.6
2008	7.1	11.2	2.7	3.7	5.6	1.7	10.6	16.9	3.7	20.7	32.7	6.4	12.8	20.6	5.2	3.2	4.3	2.1
2009	5.5	8.0	2.9	3.2	4.9	1.5	8.1	12.1	4.0	14.2	18.5	9.1	13.2	18.0	8.5	0.9	0.0	1.5
2010	6.5	10.5	2.4	3.8	5.5	2.2	8.0	13.5	2.3	15.4	25.6	3.4	18.0	31.4	5.0	4.1	4.2	4.0
2011	6.1	9.6	2.6	3.5	5.1	1.8	7.9	14.0	2.0	16.5	23.8	7.9	11.9	18.9	4.8	3.9	5.5	2.7
2012	5.9	8.6	3.1	4.3	6.0	2.4	6.1	9.7	2.5	14.5	20.2	8.2	17.3	26.3	8.8	2.0	3.0	0.9
2013	5.9	9.2	2.5	4.0	6.2	1.7	5.8	9.0	2.4	15.4	25.4	3.6	17.7	29.6	6.2	1.9	2.1	1.7
2014	4.6	7.1	2.1	3.0	4.2	1.8	6.0	9.8	2.1	11.1	17.5	4.0	7.3	12.0	2.6	0.4	0.8	0.0
2015	5.6	8.6	2.5	4.0	5.7	2.3	5.3	8.3	2.2	15.5	25.7	3.6	15.7	25.7	5.8	2.4	3.0	1.7
2016	6.3	9.9	2.5	3.7	5.3	2.1	6.8	11.7	1.8	20.4	33.4	5.6	17.6	25.7	9.9	4.0	7.1	1.6
2017	6.4	10.0	2.8	4.1	5.5	2.7	6.8	11.1	2.5	17.9	30.0	4.1	17.9	30.7	5.5	0.7	0.8	0.6
2018	6.1	9.8	2.4	3.6	4.9	2.3	6.6	11.4	1.6	19.3	30.0	6.9	17.9	29.1	6.9	2.6	3.9	1.4
2019	5.9	9.1	2.6	3.7	5.5	1.9	5.8	9.3	2.1	15.2	22.8	6.6	20.3	32.6	8.6	2.3	4.2	0.6
2020	7.7	12.1	3.2	4.3	6.0	2.6	6.9	11.5	2.1	27.3	45.4	7.2	28.4	46.0	11.7	2.3	2.7	1.8
<b>Intentional self-harm (suicide)</b>																		
2000	14.6	24.7	5.2	16.7	27.6	6.8	7.2	12.7	1.4	6.5	12.2	0.0	16.2	29.7	3.7	5.7	12.3	0.0
2001	14.9	24.6	5.6	12.8	21.0	5.1	5.9	9.9	1.6	9.2	15.2	2.4	15.4	26.4	5.2	9.4	15.4	4.7
2002	15.9	26.4	6.0	18.3	30.0	7.4	8.3	14.2	2.5	6.2	11.4	0.0	17.9	31.7	4.9	4.1	9.1	0.0
2003	14.6	24.0	5.8	16.4	27.1	6.4	8.2	11.8	4.2	11.3	16.6	4.8	15.2	27.4	3.6	6.0	7.0	5.9
2004	14.9	24.1	6.3	16.6	26.4	7.5	9.8	17.5	2.2	12.1	17.3	5.1	17.0	28.5	6.5	4.0	7.0	2.7
2005	15.4	24.9	6.5	16.6	26.7	7.3	10.5	17.8	3.0	3.3	4.7	1.8	17.5	28.7	6.8	11.7	8.9	14.1
2006	15.4	24.7	6.6	17.8	27.9	8.5	8.2	14.2	2.0	8.3	13.9	2.3	13.7	23.4	4.5	8.4	13.2	4.3
2007	15.4	24.4	6.7	18.7	29.4	8.3	9.2	14.7	3.6	6.2	10.1	1.7	9.8	16.3	3.6	6.1	9.2	2.4
2008	14.8	23.0	7.0	17.6	27.3	8.5	6.5	10.8	1.9	7.5	10.3	4.2	13.5	21.2	5.9	9.9	10.7	8.8
2009	16.1	24.6	8.1	18.4	28.0	9.5	9.0	14.0	3.9	10.5	12.7	7.7	15.9	22.9	9.3	9.9	19.9	2.3
2010	16.7	27.1	6.7	20.6	32.8	8.7	7.4	12.5	2.6	6.4	9.9	2.2	18.7	32.3	5.7	6.8	11.0	3.2
2011	17.2	27.4	7.5	22.0	33.1	10.1	8.1	14.8	1.8	9.1	13.7	4.3	14.9	24.0	5.8	5.3	6.9	3.5
2012	16.2	25.9	7.0	20.2	32.2	8.7	6.8	11.1	2.9	10.0	15.5	4.0	17.9	27.9	8.1	5.7	10.2	1.8
2013	17.0	26.6	7.7	20.8	32.4	9.6	8.4	12.8	4.2	6.7	9.7	3.1	21.9	36.1	8.1	7.0	14.5	1.1
2014	16.5	25.6	7.7	21.0	31.9	10.4	8.3	13.4	3.4	9.0	13.6	4.2	13.9	24.3	3.7	7.0	12.0	2.7
2015	17.8	27.5	8.4	23.6	36.4	11.1	6.7	10.4	3.2	6.6	9.2	3.7	19.0	28.4	10.0	7.0	9.9	4.5
2016	17.7	28.0	7.9	21.7	33.6	10.2	8.8	15.0	2.9	9.0	13.1	5.2	24.2	36.7	11.9	9.3	14.0	4.7
2017	18.0	28.1	8.4	22.1	33.8	10.8	8.5	14.1	3.0	10.5	19.1	2.3	26.2	40.4	12.7	9.3	10.6	7.8
2018	19.5	31.5	7.8	23.7	37.5	10.2	8.7	15.2	2.4	16.0	24.6	6.6	36.5	61.8	12.3	7.3	11.0	4.1
2019	18.9	29.7	8.3	23.1	36.4	10.1	9.9	16.4	3.7	12.5	14.1	11.1	26.8	41.8	12.4	7.3	11.5	3.9
2020	18.2	28.8	8.0	22.5	35.0	10.3	9.2	14.9	3.6	13.7	22.1	4.5	28.0	43.9	12.9	6.8	12.4	1.9

Notes: <sup>a</sup> Adjusted to the 2000 standard U.S. population; <sup>b</sup> Chronic obstructive pulmonary diseases in 1990; <sup>c</sup> The COVID-19 data collection began in mid-March 2020; age-adjusted rates by race/ethnicity for COVID-19 may be found in Table 2b-4; beginning in 2000, when the new standard for the age-adjustment of mortality rates was implemented, all previously published rates for 1979-1999 became obsolete. With the 2008 edition of this report we have added the recomputed age-adjusted mortality rates for 1991-1999. In order to compute these rates, we have used the population denominators consistent with both the 1990 and 2000 census. The mortality rates for 1989-1999 in Table 2B-2 also were revised for consistency; The denominators are available at:

<http://pub.azdhs.gov/health-stats/>

**TABLE 2B-4  
NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES\* FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND  
GENDER, ARIZONA, 2020**

	NUMBER OF DEATHS																				
	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	T	M	F
<b>Total, all causes<sup>b</sup></b>	75,700	41,431	34,269	54,148	28,990	25,158	12,504	7,277	5,227	2,932	1,723	1,209	4,290	2,412	1,878	1,199	586	613			
<b>Major cardiovascular diseases</b>	19,063	10,406	8,657	14,934	8,056	6,878	2,348	1,336	1,012	770	443	327	542	301	241	311	157	154			
<b>Diseases of heart</b>	14,185	8,097	6,088	11,275	6,356	4,919	1,635	968	667	557	334	223	379	233	146	210	111	99			
<b>Coronary heart disease</b>	10,205	6,074	4,131	8,148	4,786	3,362	1,185	732	453	363	239	124	253	160	93	156	84	72			
<b>Malignant neoplasms</b>	12,671	6,821	5,850	9,983	5,421	4,562	1,656	860	796	469	258	211	274	137	137	222	98	124			
<b>Malignant neoplasm of trachea, bronchus and lung</b>	2,592	1,336	1,256	2,208	1,123	1,085	208	112	96	100	60	40	23	13	10	37	16	21			
<b>Malignant neoplasm of colon, rectum, and anus</b>	1,173	602	571	885	442	443	172	100	72	53	27	26	30	17	13	24	9	15			
<b>Malignant neoplasm of breast</b>	890†	10†	883	684	8	676	130†	*	130	40†	*	42	9	0	9	20	0	20			
<b>Malignant neoplasm of prostate</b>	795	795	0	633	633	0	98	98	0	41	41	0	13	13	0	7	7	0			
<b>Malignant melanoma of skin</b>	210†	150†	60†	193	140	53	14	8	6	0†	*	0	0†	*	0	0†	0	*			
<b>Malignant neoplasm of cervix uteri</b>	74	0	70†	42	0	42	23	0	23	0†	0	*	0†	0	*	0†	0	*			
<b>COVID-19<sup>c</sup></b>	8,430	4,980	3,450	4,098	2,365	1,733	2,635	1,668	967	270	154	116	1,194	636	558	177	112	65			
<b>Accidents (unintentional injury)</b>	5,377	3,677	1,700	3,208	2,077	1,131	1,254	942	312	290	227	63	492	344	148	52	29	23			
<b>Accidental poisoning</b>	2,480†	1,829	650†	1,290	899	391	702	560	142	186	146	40	248	182	66	20†	11	*			
<b>Falls</b>	1,130†	590†	541	935	480	455	117	59	58	16	10	6	46	31	15	10†	*	6			
<b>Motor vehicle accidents</b>	1,035	747	288	520	384	136	312	225	87	47	39	8	125	82	43	18	7	11			
<b>Accidental drowning and submersion</b>	100†	70†	30†	68	43	25	20†	17	*	0†	*	*	10†	*	0	0†	*	*			
<b>Chronic lower respiratory diseases</b>	3,698	1,795	1,903	3,237	1,546	1,691	270	141	129	73	37	36	47	26	21	31	16	15			
<b>Alzheimer's disease</b>	3,235	1,103	2,132	2,650	921	1,729	385	128	257	87	26	61	40	7	33	57	14	43			
<b>Cerebrovascular diseases</b>	3,225	1,474	1,751	2,435	1,088	1,347	478	240	238	123	60	63	97	41	56	71	31	40			
<b>Diabetes</b>	2,563	1,549	1,014	1,451	904	547	620	366	254	147	85	62	259	149	110	57	26	31			
<b>Chronic liver disease and cirrhosis</b>	1,430†	860†	560†	827	507	320	290	195	95	20†	11	*	274	140	134	10†	*	6			
<b>Intentional self-harm (suicide)</b>	1,360†	1,066	290†	992	772	220	204	163	41	50	43	7	85	65	20	20†	18	*			
<b>Essential (primary) hypertension and hypertensive renal disease</b>	1,131	562	569	807	400	407	174	92	82	69	37	32	56	23	33	18	7	11			
<b>Influenza and pneumonia</b>	1,109	629	480	755	427	328	199	104	95	35	24	11	97	59	38	16	8	8			
<b>Parkinson's disease</b>	1,020†	659	360†	859	563	296	92	53	39	20†	17	*	23	13	10	19	12	7			
<b>Nephritis, nephrotic syndrome and nephrosis</b>	770†	411	360†	517	286	231	162	81	81	31	15	16	46	17	29	10†	8	*			
<b>Assault (homicide)</b>	530†	420†	110†	165	114	51	164	138	26	104	91	13	77	60	17	10†	*	*			
<b>Septicemia</b>	430†	210†	210†	271	143	128	73	28	45	24	13	11	45	20	25	10†	*	*			
<b>Human immunodeficiency virus (HIV) disease</b>	70†	60†	10†	40†	36	*	10†	10	*	10†	9	*	0†	*	*	0†	*	*			
<b>Injury by firearms</b>	1,260†	1,072	190†	779	647	132	253	222	31	122	113	9	82	68	14	20†	13	*			
<b>Drug-induced deaths</b>	2,668	1,907	761	1,495	1,006	489	728	578	150	194	149	45	185	126	59	18	12	6			
<b>Opioid-induced deaths</b>	1,880†	1,358	530†	1,035	703	332	554	437	117	126	98	28	133	93	40	10†	9	*			
<b>Alcohol-induced deaths</b>	1,570†	1,060†	510†	890	593	297	238	182	56	29	22	7	398	251	147	10†	*	*			

**TABLE 2B-4 (continued)**  
**NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES<sup>a</sup> FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND GENDER, ARIZONA, 2020**

	AGE-ADJUSTED MORTALITY RATES <sup>a</sup>																	
	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
<b>Total, all causes</b>	842.2	1002.1	694.1	794.6	929.2	667.9	871.7	1085.5	689.9	1057.7	1275.0	854.0	1757.8	2199.1	1397.5	507.4	597.5	437.9
<b>Major cardiovascular diseases</b>	205.3	246.9	167.8	204.5	243.4	168.6	182.7	230.3	144.3	293.7	352.6	238.6	237.2	304.4	187.6	134.7	160.9	114.1
<b>Diseases of heart</b>	152.9	192.2	118.1	154.9	192.5	120.8	125.5	163.5	94.8	212.3	263.8	164.4	164.3	234.2	113.2	91.0	112.0	74.6
Coronary heart disease	109.4	143.4	79.4	111.2	144.1	81.6	91.5	123.8	65.5	138.3	188.4	92.5	111.1	160.5	74.1	66.6	83.6	53.7
<b>Malignant neoplasms</b>	134.7	156.1	117.2	138.9	159.3	121.8	114.8	132.7	100.9	169.4	206.2	141.6	116.5	138.7	102.8	87.9	97.0	81.5
Malignant neoplasm of trachea, bronchus and lung	26.8	29.9	24.2	29.4	32.0	27.3	15.3	18.8	12.6	36.0	47.9	26.8	9.6	12.5	7.6	14.8	16.6	13.6
Malignant neoplasm of colon, rectum, and anus	12.7	14.2	11.4	12.9	14.0	11.9	11.3	14.6	8.7	18.2	18.3	17.6	12.8	15.3	10.5	9.2	9.1	9.4
Malignant neoplasm of breast	9.9	0.3	18.5	10.4	0.3	19.5	8.8	**	15.9	15.6	**	28.2	3.5	0.0	6.5	8.0	0.0	13.5
Malignant neoplasm of prostate	8.3	18.5	0.0	8.3	18.2	0.0	7.8	18.3	0.0	15.8	35.4	0.0	6.7	17.5	0.0	3.2	8.1	0.0
Malignant melanoma of skin	2.3	3.5	1.2	2.8	4.4	1.4	0.9	1.1	0.7	**	**	0.0	**	**	0.0	**	0.0	**
Malignant neoplasm of cervix uteri	0.9	0.0	1.7	0.7	0.0	1.3	1.3	0.0	2.5	**	0.0	**	**	0.0	**	**	0.0	**
<b>COVID-19<sup>b</sup></b>	92.1	118.3	69.2	55.4	69.5	43.2	185.8	259.9	126.4	101.6	123.1	83.7	492.3	605.3	406.9	72.6	110.4	46.6
<b>Accidents (unintentional injury)</b>	71.5	100.6	42.4	69.2	94.4	43.8	60.4	89.5	31.5	82.2	124.6	38.0	180.1	262.7	104.9	20.2	24.8	16.1
Accidental poisoning	36.2	52.9	19.1	35.7	49.7	21.3	30.4	47.8	12.7	50.0	75.6	22.5	88.4	135.3	45.0	5.0	7.7	**
Motor vehicle accidents	14.0	20.2	7.8	12.0	17.9	6.2	13.7	19.7	7.6	12.2	19.3	4.6	44.7	59.4	30.8	6.8	6.0	7.4
Falls	12.2	14.2	10.5	12.7	14.4	11.1	9.6	11.3	8.4	6.5	7.8	5.1	20.5	31.2	11.9	5.0	**	4.6
Accidental drowning and submersion	1.3	1.9	0.8	1.6	2.1	1.0	0.9	1.6	**	**	**	**	**	**	0.0	**	**	**
<b>Chronic lower respiratory diseases</b>	38.8	41.2	36.8	43.1	44.4	41.9	21.9	27.0	18.2	27.4	30.4	25.2	20.9	27.5	16.5	14.3	20.5	11.0
<b>Alzheimer's disease</b>	34.7	27.1	40.5	34.6	27.0	40.5	36.1	30.0	40.4	44.8	31.1	54.3	21.4	11.0	28.2	28.6	17.9	34.7
<b>Cerebrovascular diseases</b>	34.6	34.8	33.8	32.9	32.3	32.9	38.3	42.8	34.2	48.6	51.6	45.9	43.6	44.7	42.9	29.9	32.0	28.0
<b>Diabetes</b>	27.9	36.0	20.7	21.4	28.2	15.2	43.1	56.0	32.6	51.7	61.9	42.1	106.4	137.7	82.1	22.1	24.9	19.8
<b>Intentional self-harm (suicide)</b>	18.2	28.8	8.0	22.5	35.0	10.3	9.2	14.9	3.6	13.7	22.1	4.5	28.0	43.9	12.9	6.8	12.4	**
<b>Chronic liver disease and cirrhosis</b>	17.4	21.6	13.4	14.9	18.6	11.5	16.7	23.3	10.7	4.3	6.2	**	103.2	110.6	95.5	3.1	**	3.3
<b>Essential (primary) hypertension and hypertensive renal disease</b>	12.2	13.3	11.0	10.9	11.9	9.8	14.2	17.5	11.8	25.0	29.0	21.6	25.1	21.7	26.7	8.8	8.3	9.0
<b>Influenza and pneumonia</b>	12.2	15.1	9.6	10.9	13.5	8.5	14.4	15.6	13.1	12.8	18.8	7.8	41.4	57.8	29.0	7.8	9.4	6.5
<b>Parkinson's disease</b>	10.8	15.6	6.8	11.2	16.1	7.0	8.1	10.9	6.0	8.1	14.4	**	11.4	16.9	8.0	8.9	14.6	5.1
<b>Nephritis, nephrotic syndrome and nephrosis</b>	8.4	9.8	7.2	7.2	8.7	5.9	12.0	14.0	10.5	11.8	12.0	11.5	20.2	16.8	22.3	5.5	8.6	**
<b>Assault (homicide)</b>	7.7	12.1	3.2	4.3	6.0	2.6	6.9	11.5	2.1	27.3	45.4	7.2	28.4	46.0	11.7	2.3	**	**
<b>Septicemia</b>	4.7	5.1	4.4	4.1	4.7	3.5	5.3	4.5	6.0	8.3	9.5	7.1	19.4	19.1	19.2	2.7	**	**
<b>Human immunodeficiency virus (HIV) disease</b>	0.9	1.5	0.3	0.8	1.3	**	0.6	1.0	**	3.8	5.7	**	**	**	**	**	**	0.0
<b>Injury by firearms</b>	17.2	29.4	5.2	17.6	29.2	6.2	10.8	18.8	2.7	32.4	57.3	5.1	28.3	48.6	8.9	5.6	8.7	**
<b>Drug-induced deaths</b>	38.4	54.7	21.7	40.4	54.8	25.5	31.6	49.5	13.4	51.9	76.8	25.2	64.3	88.6	40.8	5.9	8.4	3.4
<b>Opioid-induced deaths</b>	27.6	39.4	15.4	29.3	40.1	18.0	23.2	35.6	10.3	32.6	47.8	15.8	45.5	64.4	27.0	3.7	6.1	**
<b>Alcohol-induced deaths</b>	20.4	27.7	13.3	17.9	23.9	12.1	12.8	20.4	5.8	8.2	12.1	4.2	149.2	198.2	105.5	1.9	**	**

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> The number of deaths per 100,000 resident population age-adjusted to the 2000 U.S. standard; The rates for cervical cancer are per 100,000 females; The rate for prostate cancer is per 100,000 males; <sup>b</sup> Includes records with unknown gender and race/ethnicity; <sup>c</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-5  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> FOR SELECTED CAUSES OF DEATH BY URBAN/RURAL AREA AND GENDER,  
ARIZONA, 2020**

	Arizona			Urban			Rural		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
	<b>Total, all causes</b>	842.2	1002.1	694.1	811.9	964.6	672.1	991.1	1180.9
<b>Major cardiovascular diseases</b>	205.3	246.9	167.8	200.8	240.6	165.3	222.2	269.3	178.2
<b>Diseases of heart</b>	152.9	192.2	118.1	148.2	185.1	115.8	171.7	219.3	127.6
<b>Coronary heart disease</b>	109.4	143.4	79.4	104.9	137.0	77.0	127.6	168.6	89.8
<b>Malignant neoplasms</b>	134.7	156.1	117.2	131.8	152.7	115.0	146.0	167.1	127.5
<b>Malignant neoplasm of trachea, bronchus and lung</b>	26.8	29.9	24.2	25.7	28.8	23.3	31.1	34.0	28.3
<b>Malignant neoplasm of colon, rectum, and anus</b>	12.7	14.2	11.4	12.5	13.9	11.2	13.4	14.6	12.5
<b>Malignant neoplasm of breast</b>	9.9	0.3	18.5	9.6	0.2	17.8	11.4	0.3	21.8
<b>Malignant neoplasm of prostate</b>	8.3	18.5	0.0	8.0	18.1	0.0	9.4	20.2	0.0
<b>Malignant melanoma of skin</b>	2.3	3.5	1.2	2.2	3.4	1.2	2.7	4.2	1.4
<b>Malignant neoplasm of cervix uteri</b>	0.9	0.0	1.7	0.9	0.0	1.8	0.7	0.0	1.3
<b>COVID-19<sup>b</sup></b>	92.1	118.3	69.2	86.8	113.0	64.3	118.7	145.0	93.8
<b>Accidents (unintentional injury)</b>	71.5	100.6	42.4	68.1	96.3	40.0	88.4	120.7	55.4
<b>Accidental poisoning</b>	36.2	52.9	19.1	35.4	52.0	18.5	38.5	54.9	21.4
<b>Motor vehicle accidents</b>	14.0	20.2	7.8	12.6	18.4	6.7	22.4	30.1	14.5
<b>Falls</b>	12.2	14.2	10.5	11.9	13.8	10.4	13.9	16.8	11.1
<b>Accidental drowning and submersion</b>	1.3	1.9	0.8	1.3	1.9	0.8	1.2	1.7	0.7
<b>Chronic lower respiratory diseases</b>	38.8	41.2	36.8	36.1	38.0	34.7	49.9	53.3	46.9
<b>Alzheimer's disease</b>	34.7	27.1	40.5	35.2	27.5	40.8	32.3	25.0	38.7
<b>Cerebrovascular diseases</b>	34.6	34.8	33.8	34.4	34.9	33.5	34.6	33.7	35.2
<b>Diabetes</b>	27.9	36.0	20.7	27.4	35.5	20.4	30.6	39.2	22.5
<b>Intentional self-harm (suicide)</b>	18.2	28.8	8.0	16.2	25.6	7.2	30.0	47.2	12.7
<b>Chronic liver disease and cirrhosis</b>	17.4	21.6	13.4	14.5	18.3	11.0	34.6	41.5	27.6
<b>Essential (primary) hypertension and hypertensive renal disease</b>	12.2	13.3	11.0	12.7	14.0	11.4	9.7	10.2	9.1
<b>Influenza and pneumonia</b>	12.2	15.1	9.6	12.0	14.8	9.6	13.2	16.8	9.9
<b>Parkinson's disease</b>	10.8	15.6	6.8	11.4	16.8	7.2	7.9	10.9	5.3
<b>Nephritis, nephrotic syndrome and nephrosis</b>	8.4	9.8	7.2	7.7	8.8	6.7	11.5	13.7	9.5
<b>Assault (homicide)</b>	7.7	12.1	3.2	7.3	11.4	3.0	10.5	16.2	4.6
<b>Septicemia</b>	4.7	5.1	4.4	4.4	4.9	4.0	5.9	5.8	5.9
<b>(HIV) disease</b>	0.9	1.5	0.3	0.9	1.5	0.4	1.0	1.8	0.1
<b>Injury by firearms</b>	17.2	29.4	5.2	15.9	27.0	4.9	24.7	42.4	6.8
<b>Drug-induced deaths</b>	38.4	54.7	21.7	37.7	54.4	20.7	40.5	53.3	26.8
<b>Opioid-induced deaths</b>	27.6	39.4	15.4	27.6	39.7	15.1	26.2	35.3	16.2
<b>Alcohol-induced deaths</b>	20.4	27.7	13.3	15.4	21.3	9.9	50.4	66.2	34.6

Notes: <sup>a</sup> The number of deaths per 100,000 population in specified group age-adjusted to the 2000 standard U.S.; The rates for cervical cancer are per 100,000 females; the rates for prostate cancer are per 100,000 males; <sup>b</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-6  
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,  
ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
<b>Total, all causes<sup>a</sup></b>	75,700	41,431	34,269	1054.8	1162.0	949.0
Salmonella infections	0†	0	*	**	0.0	**
Shigellosis and amebiasis	0	0	0	0.0	0.0	0.0
Certain other intestinal infections	211	89	122	2.9	2.5	3.4
Enterocolitis due to Clostridium difficile	116	52	64	1.6	1.5	1.8
Tuberculosis	15	8	7	0.2	0.2	0.2
Respiratory tuberculosis	10†	*	6	0.2	**	0.2
Other tuberculosis	0†	*	*	**	**	**
Whooping cough	0	0	0	0.0	0.0	0.0
Scarlet fever and erysipelas	0	0	0	0.0	0.0	0.0
Meningococcal infection	0	0	0	0.0	0.0	0.0
Septicemia	425	212	213	5.9	5.9	5.9
Syphilis	0	0	0	0.0	0.0	0.0
Acute poliomyelitis	0	0	0	0.0	0.0	0.0
Arthropod-borne encephalitis	0†	*	0	**	**	0.0
Measles	0	0	0	0.0	0.0	0.0
Viral hepatitis	100	63	37	1.4	1.8	1.0
Human immunodeficiency virus (HIV) disease	73	60	13	1.0	1.7	0.4
Malaria	0	0	0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	403	243	160	5.6	6.8	4.4
Malignant neoplasms	12,671	6,821	5,850	176.6	191.3	162.0
Malignant neoplasm of lip, oral cavity and pharynx	217	154	63	3.0	4.3	1.7
Malignant neoplasm of esophagus	313	263	50	4.4	7.4	1.4
Malignant neoplasm of stomach	215	125	90	3.0	3.5	2.5
Malignant neoplasm of colon, rectum, and anus	1,173	602	571	16.3	16.9	15.8
Malignant neoplasm of liver and intrahepatic bile ducts	630	401	229	8.8	11.2	6.3
Malignant neoplasm of pancreas	1,005	545	460	14.0	15.3	12.7
Malignant neoplasm of larynx	71	58	13	1.0	1.6	0.4
Malignant neoplasm of trachea, bronchus and lung	2,592	1,336	1,256	36.1	37.5	34.8
Malignant melanoma of skin	212	151	61	3.0	4.2	1.7
Malignant neoplasm of breast	894	11	883	12.5	0.3	24.5
Malignant neoplasm of cervix uteri	74	0	74	1.0	0.0	2.0
Malignant neoplasm of corpus uteri and uterus, part unspecified	212	0	212	3.0	0.0	5.9
Malignant neoplasm of ovary	298	0	298	4.2	0.0	8.3
Malignant neoplasm of prostate	795	795	0	11.1	22.3	0.0
Malignant neoplasm of kidney and renal pelvis	337	242	95	4.7	6.8	2.6
Malignant neoplasm of bladder	416	321	95	5.8	9.0	2.6
Malignant neoplasm of meninges, brain and other parts of central nervous sy	390	229	161	5.4	6.4	4.5
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,263	748	515	17.6	21.0	14.3
Hodgkin's disease	20†	13	*	0.2	0.4	**
Non-Hodgkin's lymphoma	452	267	185	6.3	7.5	5.1
Leukemia	499	305	194	7.0	8.6	5.4
Multiple myeloma and immunoproliferative neoplasms	292	162	130	4.1	4.5	3.6
Other and unspecified malignant neoplasms of lymphoid tissue	0†	*	*	**	**	**
All other and unspecified malignant neoplasm	1,564	840	724	21.8	23.6	20.1
In situ neoplasms	418	233	185	5.8	6.5	5.1
Anemias	54	17	37	0.8	0.5	1.0
Diabetes	2,563	1,549	1,014	35.7	43.4	28.1

**TABLE 2B-6 (continued)**  
**DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,**  
**ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
Nutritional deficiencies	622	228	394	8.7	6.4	10.9
Malnutrition	600	225	375	8.4	6.3	10.4
Other nutritional deficiencies	20†	*	19	0.3	**	0.5
Obesity	243	141	102	3.4	4.0	2.8
Meningitis	20	11	9	0.3	0.3	0.2
Parkinson's disease	1,016	659	357	14.2	18.5	9.9
Alzheimer's disease	3,235	1,103	2,132	45.1	30.9	59.0
Major cardiovascular diseases	19,063	10,406	8,657	265.6	291.9	239.7
Diseases of heart	14,185	8,097	6,088	197.7	227.1	168.6
Acute rheumatic fever and chronic rheumatic heart disease	87	31	56	1.2	0.9	1.6
Hypertensive heart disease	1,619	779	840	22.6	21.8	23.3
Hypertensive heart and renal disease	179	82	97	2.5	2.3	2.7
Ischemic heart disease	8,586	5,295	3,291	119.6	148.5	91.1
Acute myocardial infarction	1,899	1,152	747	26.5	32.3	20.7
Other acute ischemic heart disease	97	61	36	1.4	1.7	1.0
Other forms of chronic ischemic heart disease	6,590	4,082	2,508	91.8	114.5	69.5
Atherosclerotic cardiovascular disease	1,742	1,155	587	24.3	32.4	16.3
All other forms of chronic ischemic heart disease	4,848	2,927	1,921	67.6	82.1	53.2
Other heart diseases	3,714	1,910	1,804	51.8	53.6	50.0
Acute and subacute endocarditis	44	34	10	0.6	1.0	0.3
Diseases of pericardium and acute myocarditis	19	10	9	0.3	0.3	0.2
Heart failure	993	534	459	13.8	15.0	12.7
All other forms of heart disease	2,658	1,332	1,326	37.0	37.4	36.7
Essential (primary) hypertension and hypertensive renal disease	1,131	562	569	15.8	15.8	15.8
Cerebrovascular diseases	3,225	1,474	1,751	44.9	41.3	48.5
Atherosclerosis	110	49	61	1.5	1.4	1.7
Other diseases of circulatory system	412	224	188	5.7	6.3	5.2
Aortic aneurysm and dissection	203	123	80	2.8	3.4	2.2
Other disease of arteries, arterioles and capillaries	209	101	108	2.9	2.8	3.0
Other disorders of circulatory system	147	85	62	2.0	2.4	1.7
Influenza and pneumonia	1,109	629	480	15.5	17.6	13.3
Influenza	100	53	47	1.4	1.5	1.3
Pneumonia	1,009	576	433	14.1	16.2	12.0
COVID-19*	8,430	4,980	3,450	117.5	139.7	95.5
Other acute lower respiratory infections	10†	*	*	0.1	**	**
Acute bronchiolitis	0†	*	*	**	**	**
Unspecified acute lower respiratory infection	0†	*	*	**	**	**
Chronic lower respiratory diseases	3,698	1,795	1,903	51.5	50.3	52.7
Bronchitis, chronic and unspecified	10†	7	*	0.2	0.2	**
Emphysema	181	106	75	2.5	3.0	2.1
Asthma	121	43	78	1.7	1.2	2.2
Other chronic lower respiratory diseases	3,385	1,639	1,746	47.2	46.0	48.4
Pneumoconioses and chemical effects	9	9	0	0.1	0.3	0.0
Pneumonitis due to solids and liquids	187	119	68	2.6	3.3	1.9
Other disease of respiratory system	1,094	611	483	15.2	17.1	13.4
Peptic ulcer	114	60	54	1.6	1.7	1.5
Diseases of appendix	12	6	6	0.2	0.2	0.2
Hernia	43	19	24	0.6	0.5	0.7



**TABLE 2B-6 (continued)**  
**DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,**  
**ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
Chronic liver disease and cirrhosis	1,426	864	562	19.9	24.2	15.6
Alcoholic liver disease	906	573	333	12.6	16.1	9.2
Other chronic liver disease and cirrhosis	520	291	229	7.2	8.2	6.3
Cholelithiasis and other disorders of gallbladder	100	52	48	1.4	1.5	1.3
Nephritis, nephrotic syndrome and nephrosis	772	411	361	10.8	11.5	10.0
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	*	*	0.1	**	**
Chronic glomerulonephritis	10†	6	*	0.1	0.2	**
Renal failure	754	402	352	10.5	11.3	9.7
Others disorders of kidney	0†	*	0	**	**	0.0
Infections of kidney	27	7	20	0.4	0.2	0.6
Hyperplasia of prostate	14	14	0	0.2	0.4	0.0
Inflammatory diseases of female pelvic organs	0†	0	*	**	0.0	**
Pregnancy, childbirth and the puerperium	39	0	39	0.5	0.0	1.1
Pregnancy with abortive outcome	0	0	0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	39	0	39	0.5	0.0	1.1
Perinatal conditions	194	110	84	2.7	3.1	2.3
Congenital malformations	215	113	102	3.0	3.2	2.8
Symptoms, signs, abnormal findings <sup>a</sup>	1,036	498	538	14.4	14.0	14.9
Total accidents	5,377	3,677	1,700	74.9	103.1	47.1
Transport accidents	1,125	821	304	15.7	23.0	8.4
Motor vehicle accidents	1,035	747	288	14.4	21.0	8.0
Other land transport accidents	40†	35	*	0.6	1.0	**
Water, air, space	50	39	11	0.7	1.1	0.3
Nontransport accidents	4,252	2,856	1,396	59.2	80.1	38.7
Falls	1,127	586	541	15.7	16.4	15.0
Accidental discharge of firearms	10†	*	*	0.1	**	**
Accidental drowning and submersion	99	68	31	1.4	1.9	0.9
Accidental exposure to smoke, fire and flames	48	31	17	0.7	0.9	0.5
Accidental poisoning	2,483	1,829	654	34.6	51.3	18.1
Other and unspecified non-transport accidents	489	337	152	6.8	9.5	4.2
Intentional self-harm (suicide)	1,359	1,066	293	18.9	29.9	8.1
By discharge of firearms	828	705	123	11.5	19.8	3.4
By other means	531	361	170	7.4	10.1	4.7
Assault (homicide)	526	415	111	7.3	11.6	3.1
By discharge of firearms	384	320	64	5.4	9.0	1.8
By other means	142	95	47	2.0	2.7	1.3
Legal intervention	30†	27	*	0.4	0.8	**
Events of undetermined intent	186	121	65	2.6	3.4	1.8
Discharge of firearms	20†	15	*	0.2	0.4	**
Other and unspecified events of undetermined intent	169	106	63	2.4	3.0	1.7
Operations of war	0	0	0	0.0	0.0	0.0
Complications of medical and surgical care	127	68	59	1.8	1.9	1.6
Injury by firearms	1,263	1,072	191	17.6	30.1	5.3
Drug-induced deaths	2,668	1,907	761	37.2	53.5	21.1
Opioid-induced deaths	1,884	1,358	526	26.3	38.1	14.6
Alcohol-induced deaths	1,574	1,061	513	21.9	29.8	14.2

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes records with unknown gender; The list of Causes of Death was developed for the general analysis of ICD-10 mortality statistics and for ranking of leading causes of death. It is similar in structure and content and replaces the list of 72 Selected Causes of Death used for ICD-9 mortality statistics; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-7  
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY CATEGORY, GENDER, AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ALL FORMS OF HEART DISEASE</b>	<b>TOTAL</b>	9,719	10,423	10,366	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185
	<b>Male</b>	5,351	5,748	5,731	5,910	5,575	6,286	6,702	6,973	7,030	7,129	8,097
	<b>Female</b>	4,368	4,675	4,635	4,587	4,378	4,988	5,118	5,312	5,380	5,431	6,088
<b>Acute rheumatic fever and chronic rheumatic heart disease</b>	<b>TOTAL</b>	42	69	51	64	74	52	77	79	98	71	87
	<b>Male</b>	15	22	19	17	26	20	33	27	41	31	31
	<b>Female</b>	27	47	32	47	48	32	44	52	57	40	56
<b>Hypertensive heart and renal disease</b>	<b>TOTAL</b>	36	49	51	49	65	71	111	147	153	165	179
	<b>Male</b>	16	22	28	27	31	36	56	73	81	77	82
	<b>Female</b>	20	27	23	22	34	35	55	74	72	88	97
<b>Ischemic heart disease</b>	<b>TOTAL</b>	7,043	7,498	7,294	7,159	6,650	7,264	7,734	7,814	7,540	7,617	8,586
	<b>Male</b>	4,076	4,409	4,279	4,259	3,957	4,391	4,703	4,829	4,670	4,642	5,295
	<b>Female</b>	2,967	3,089	3,015	2,900	2,693	2,873	3,031	2,985	2,870	2,975	3,291
<b>Hypertensive heart disease</b>	<b>TOTAL</b>	644	739	761	943	991	1,118	1,114	1,122	1,400	1,409	1,619
	<b>Male</b>	302	348	375	462	491	517	554	526	711	735	779
	<b>Female</b>	342	391	386	481	500	601	560	596	689	674	840
<b>Other heart diseases</b>	<b>TOTAL</b>	1,954	2,069	2,209	2,282	2,173	2,769	2,784	3,123	3,219	3,298	3,714
	<b>Male</b>	942	947	1,030	1,145	1,070	1,322	1,356	1,518	1,527	1,644	1,910
	<b>Female</b>	1,012	1,121	1,179	1,137	1,103	1,447	1,428	1,605	1,692	1,654	1,804

**TABLE 2B-8  
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ALL CANCERS<sup>a</sup></b>	<b>TOTAL<sup>b</sup></b>	10,423	10,543	10,871	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671
	Male	5,639	5,639	5,932	5,950	5,731	6,263	6,429	6,493	6,675	6,740	6,821
	Female	4,784	4,903	4,939	5,243	4,869	5,361	5,372	5,424	5,422	5,745	5,850
<b>ICD-9 140-149/ICD-10 C00-C14 - Malignant neoplasm of lip, oral cavity and pharynx (oropharyngeal cancer)</b>	<b>TOTAL</b>	134	132	144	150	137	160	205	180	165	187	217
	Male	98	105	106	101	98	109	157	128	127	141	154
	Female	36	27	38	49	39	51	48	52	38	46	63
<b>ICD-9 150/ICD-10 C15 - Malignant neoplasm of esophagus</b>	<b>TOTAL</b>	273	288	325	320	286	303	310	333	332	332	313
	Male	220	232	260	257	230	249	246	273	271	270	263
	Female	53	56	65	63	56	54	64	60	61	62	50
<b>ICD-9 151/ICD-10 C16 - Malignant neoplasm of stomach</b>	<b>TOTAL</b>	199	211	204	202	186	211	226	203	236	226	215
	Male	123	131	118	122	109	121	128	124	134	134	125
	Female	76	80	86	80	77	90	98	79	102	92	90
<b>ICD-9 153, 154/ICD-10 C18-C21 - Malignant neoplasm of colon, rectum, rectosigmoid junction and anus</b>	<b>TOTAL</b>	952	927	946	997	953	1,022	1,069	1,118	1,126	1,117	1,173
	Male	520	482	523	510	510	568	591	639	641	621	602
	Female	432	445	423	487	443	454	478	479	485	496	571
<b>ICD-9 157/ICD-10 C25 - Malignant neoplasm of pancreas</b>	<b>TOTAL</b>	707	708	813	755	769	852	901	914	952	1,018	1,005
	Male	373	355	450	392	400	461	494	484	513	541	545
	Female	334	353	363	363	369	391	407	430	439	477	460
<b>ICD-9 162/ICD-10 C33-C34 - Malignant neoplasm of trachea, bronchus and lung</b>	<b>TOTAL</b>	2,655	2,654	2,772	2,763	2,543	2,885	2,689	2,754	2,640	2,510	2,592
	Male	1,465	1,474	1,512	1,485	1,385	1,533	1,452	1,487	1,436	1,315	1,336
	Female	1,190	1,180	1,260	1,278	1,158	1,352	1,237	1,267	1,204	1,195	1,256
<b>ICD-9 172/ICD-10 C43 - Malignant melanoma of skin</b>	<b>TOTAL</b>	191	187	216	222	215	213	191	190	209	206	212
	Male	133	125	147	137	147	142	131	129	150	133	151
	Female	58	62	69	85	68	71	60	61	59	73	61
<b>ICD-9 174,175/ICD-10 C50 - Malignant neoplasm of breast</b>	<b>TOTAL</b>	732	747	740†	836	729	810†	853	834	815	911	894
	Male	12	6	*	9	6	*	9	8	10	12	11
	Female	720	741	740	827	723	809	844	826	805	899	883

**TABLE 2B-8 (continued)  
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ICD-9 180/ICD-10 C53 - Malignant neoplasm of cervix uteri</b>	TOTAL	68	72	73	86	75	84	82	78	84	74
	Female	68	72	73	86	75	84	82	78	84	74
<b>ICD-9 179, 182/ ICD-10 C54-C55 - Malignant neoplasm of body of uterus and of uterus, part unspecified</b>	TOTAL	138	159	131	140	176	180	168	200	203	212
	Female	138	159	131	140	176	180	168	200	203	212
<b>ICD-9 185/ICD-10 C61 - Malignant neoplasm of prostate</b>	TOTAL	549	574	581	570	572	633	697	659	734	795
	Male	549	574	581	570	572	633	697	659	734	795
<b>ICD-9 188/ICD-10 C67 - Malignant neoplasm of bladder</b>	TOTAL	247	355	316	293	305	355	367	362	358	416
	Male	183	245	244	221	241	255	267	279	276	321
	Female	64	109	72	72	64	100	100	83	82	95
<b>ICD-9 189/ICD-10 C64-C65 - Malignant neoplasm of kidney and other and unspecified urinary organs</b>	TOTAL	286	267	252	274	254	309	308	323	351	337
	Male	189	178	171	179	177	224	205	208	250	242
	Female	97	89	81	95	77	85	103	115	101	95
<b>ICD-9 191, 192/ICD-10 C70-C72 - Malignant neoplasm of brain</b>	TOTAL	268	275	337	325	339	323	340	339	366	390
	Male	153	145	196	172	194	190	195	194	206	220
	Female	115	130	141	153	145	133	145	145	160	161
<b>ICD-9 201/ICD-10 81 - Hodgkin's disease</b>	TOTAL	22	19	17	26	10 <sup>†</sup>	30	22	29	22	20 <sup>†</sup>
	Male	12	9	8	16	10	21	10	15	12	13
	Female	10	10	9	10	*	9	12	14	10	*
<b>ICD-9 200, 202/ICD-10 C82-C85 - Malignant lymphoma other than Hodgkin's disease</b>	TOTAL	379	392	372	416	371	397	399	388	398	452
	Male	219	212	214	251	196	216	221	240	235	267
	Female	160	180	158	165	175	181	178	148	163	185
<b>ICD-9 203/ICD-10 C88, C90 - Multiple myeloma and immunoproliferative neoplasms</b>	TOTAL	206	219	221	247	221	240	243	270	297	292
	Male	117	133	128	129	133	139	149	162	181	162
	Female	89	86	93	118	88	101	94	108	116	130
<b>Other malignant neoplasms</b>	TOTAL	2,417	2,357	2,409	2,571	2,455	2,613	2,731	2,743	2,877	3,219
	Male	1,273	1,234	1,273	1,400	1,323	1,397	1,477	1,464	1,538	1,734
	Female	1,144	1,123	1,136	1,171	1,132	1,216	1,254	1,279	1,339	1,485

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes other forms of cancer; <sup>b</sup> Total includes records with unknown gender.

**TABLE 2B-9  
NUMBER OF DEATHS FROM UNINTENTIONAL INJURIES IN ACCIDENTS BY CATEGORY AND YEAR AMONG  
ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total unintentional injury deaths</b>	2,834	2,959	2,804	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377
<b>Railway accident</b>	12	6	7	7	8	6	11	9	7	10	9
<b>Motor vehicle accident</b>	711	787	747	767	702	855	967	979	1,032	970	1,035
<b>Water transport accident</b>	*	*	*	*	0	*	*	7	7	*	*
<b>Accident involving aircraft</b>	16	21	13	9	*	7	10	17	10	13	14
<b>Poisoning by drugs/medicaments</b>	798	781	731	853	885	955	1,095	1,269	1,425	1,679	2,309
<b>Poisoning by gases and vapors</b>	81	102	86	112	94	105	153	105	120	118	174
<b>Falls</b>	762	776	782	870	881	1,014	1,103	1,076	1,090	1,109	1,127
<b>Fire, flames, smoke</b>	25	33	43	68	30	25	40	51	23	43	48
<b>Excessive natural heat</b>	51	57	51	56	32	43	99	108	94	118	210
<b>Excessive natural cold</b>	17	22	9	28	19	20	21	24	15	37	27
<b>Contact with venomous snakes and lizards</b>	*	0	*	0	0	0	0	*	*	0	0
<b>Contact with venomous spiders</b>	0	0	0	*	0	0	0	*	0	0	0
<b>Contact with scorpions</b>	0	0	0	*	0	0	0	0	0	0	0
<b>Contact with hornets, wasps, bees</b>	0	0	0	*	0	*	*	*	*	*	*
<b>Bitten or struck by dog</b>	*	*	*	*	*	*	*	*	0	*	*
<b>Lightning</b>	*	*	*	*	0	*	*	*	0	0	0
<b>Storms and floods</b>	*	0	0	0	0	0	0	12	*	*	0
<b>Accidental drowning and submersion</b>	86	86	83	72	78	81	105	106	92	100	99
<b>Choked on food</b>	39	34	38	29	33	34	33	38	40	38	38
<b>Choked on other objects</b>	57	44	44	57	56	53	38	39	29	40	31
<b>Mechanical suffocation</b>	28	25	23	21	35	40	35	41	25	37	27
<b>Accidental discharge of firearms</b>	11	8	*	9	6	*	7	8	10	13	6
<b>Exposure to electric current</b>	*	6	0	6	*	*	10	*	*	*	8
<b>Overexertion</b>	*	0	0	0	0	0	0	*	0	0	0
<b>Adverse effects of drugs in therapeutic use</b>	10	*	6	10	10	12	*	*	11	7	14
<b>Misadventures to patients during medical/surgical care</b>	41	45	42	46	32	20	43	96	103	108	113

Notes: \* Cell suppressed due to count less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2B-10  
NUMBER OF DEATHS FROM MOTOR VEHICLE-RELATED INJURIES BY PERSON INJURED, GENDER, AND YEAR,  
ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>TOTAL</b>											
<b>Total</b>	711	787	747	767	702	855	967	979	1,032	970	1,035
<b>Male</b>	501	562	541	541	492	605	693	691	729	692	747
<b>Female</b>	210	225	206	226	210	250	274	288	303	278	288
<b>Motorcyclist</b>											
<b>Total</b>	69	113	130	111	100	121	126	137	130	130 <sup>†</sup>	154
<b>Male</b>	61	96	113	98	93	106	118	122	114	130	139
<b>Female</b>	8	17	17	13	7	15	8	15	16	*	15
<b>Pedestrian</b>											
<b>Total</b>	152	153	128	152	138	160	218	245	251	227	235
<b>Male</b>	115	111	88	105	100	115	150	161	171	166	166
<b>Female</b>	37	42	40	47	38	45	68	84	80	61	69
<b>Pedal cyclist</b>											
<b>Total</b>	20 <sup>†</sup>	20 <sup>†</sup>	11	20 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	30 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	30 <sup>†</sup>
<b>Male</b>	20	16	11	19	15	15	18	24	18	18	23
<b>Female</b>	*	*	0	*	*	*	*	*	*	*	*
<b>Other person</b>											
<b>Total</b>	469	502	478	481	445	558	601	568	630	587	618
<b>Male</b>	305	339	329	319	284	369	407	384	426	378	419
<b>Female</b>	164	163	149	162	161	189	194	184	204	209	199

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2B-11  
LEADING CAUSES OF DEATH BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2020**

Causes of death	TOTAL	IN HOSPITAL						NOT IN HOSPITAL			
		In-patient	Out-patient <sup>3</sup>	Died on arrival	Status Unknown	Subtotal	Nursing home <sup>b</sup>	Residence	Other <sup>c</sup>	Subtotal	
<b>TOTAL, ALL CAUSES</b>	75,700	19,771	3,863	29	26,555	50,218	6,198	4,460	14,824	25,482	
Diseases of heart	14,185	2,789	1,122	7	5,798	9,716	774	812	2,883	4,469	
Coronary heart disease	10,210†	1,682	903	*	4,404	6,990†	492	553	2,167	3,212	
Malignant neoplasms	12,670†	1,676	180	*	6,875	8,730†	1,854	414	1,671	3,939	
Malignant neoplasm of trachea, bronchus and lung	2,592	375	38	0	1,420	1,833	339	76	344	759	
Malignant neoplasm of colon, rectum, and anus	1,173	138	14	0	631	783	193	39	158	390	
Malignant neoplasm of breast	894	91	11	0	465	567	164	36	127	327	
Malignant neoplasm of prostate	795	51	8	0	477	536	90	39	130	259	
Malignant neoplasm of cervix uteri	70†	7	*	0	34	40†	15	*	13	30†	
COVID-19 <sup>2</sup>	8,430†	5,812	217	*	642	6,670†	511	637	608	1,756	
Accidents (unintentional injury)	5,380†	1,030	754	*	1,289	3,080†	294	94	1,913	2,301	
Accidental poisoning	2,480†	218	377	*	933	1,530†	8	*	943	950†	
Falls	1,127	409	58	0	150	617	249	73	188	510	
Motor vehicle accidents	1,040†	231	237	*	16	490†	16	*	529	550†	
Accidental drowning and submersion	100†	15	17	*	25	60†	*	0	40	40†	
Chronic lower respiratory diseases	3,698	589	156	0	1,737	2,482	309	252	655	1,216	
Alzheimer's disease	3,240†	39	12	*	1,009	1,060†	136	425	1,613	2,174	
Cerebrovascular diseases	3,225	709	65	0	923	1,697	539	282	707	1,528	
Diabetes	2,560†	483	284	*	1,244	2,010†	158	121	272	551	
Chronic liver disease and cirrhosis	1,426	587	44	0	418	1,049	209	51	117	377	
Intentional self-harm (suicide)	1,360†	106	100	*	635	840†	10	*	506	520†	
Essential (primary) hypertension & hypertensive renal disease	1,131	151	64	0	536	751	80	106	194	380	
Influenza and pneumonia	1,109	781	37	0	105	923	87	41	58	186	
Parkinson's disease	1,016	47	9	0	418	474	71	125	346	542	
Nephritis, nephrotic syndrome and nephrosis	770†	285	29	*	264	580†	40	41	111	192	
Assault (homicide)	530†	93	131	*	73	300†	*	0	224	230†	
Septicemia	425	333	14	0	29	376	22	10	17	49	
<b>Human immunodeficiency virus (HIV) disease</b>	70†	35	*	0	18	50†	10	*	*	20†	
<b>Injury by firearms</b>	1,260†	120	173	*	470	770†	*	*	496	500†	
<b>Drug-induced deaths</b>	2,670†	267	381	*	1,033	1,680†	31	*	949	990†	
<b>Opioid-induced deaths</b>	1,880†	143	266	*	786	1,200†	9	*	677	690†	
<b>Alcohol-induced deaths</b>	1,570†	424	88	*	594	1,110†	196	27	244	467	

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes Emergency Room; <sup>b</sup> Includes other long-term care facilities; <sup>c</sup> Includes hospices; <sup>2</sup> The COVID-19 data collection began in mid-March 2020.







## 2C.

### AGE-SPECIFIC MORTALITY

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Six age-specific profiles of mortality are given on the following pages. The six developmental periods in the life span are:

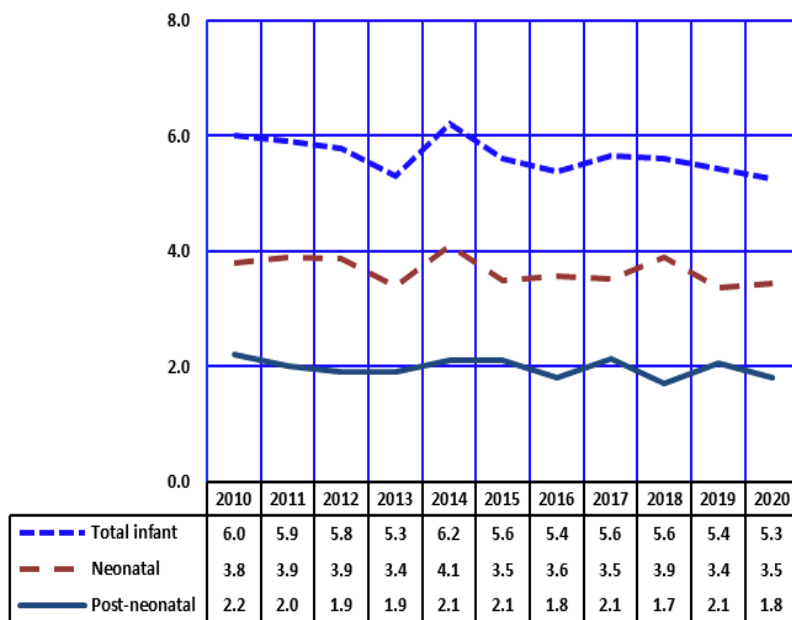
- **Infants** less than one year of age
- **Children** 1 to 14 years old
- **Adolescents** or persons 15 to 19 years old
- **Young adults** or persons 20 to 44 years old
- **Middle-aged adults** or persons 45 to 64 years old
- **Elderly** or persons 65 years or older.

For each age group, cause-specific mortality is compared between urban (i.e., Maricopa, Pima, Pinal, and Yuma counties) and rural (all other counties) regions and between genders. Urban and rural regions also are compared in gender-specific total mortality.

A comparison of age-specific mortality for causes of death is provided in **Table 2C-27**. A comparison of age-specific mortality rates is presented in **Table 2C-28**.

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-1**  
**Infant Mortality Rates by Neonatal/Postneonatal Age and Year, Arizona, 2010-2020**



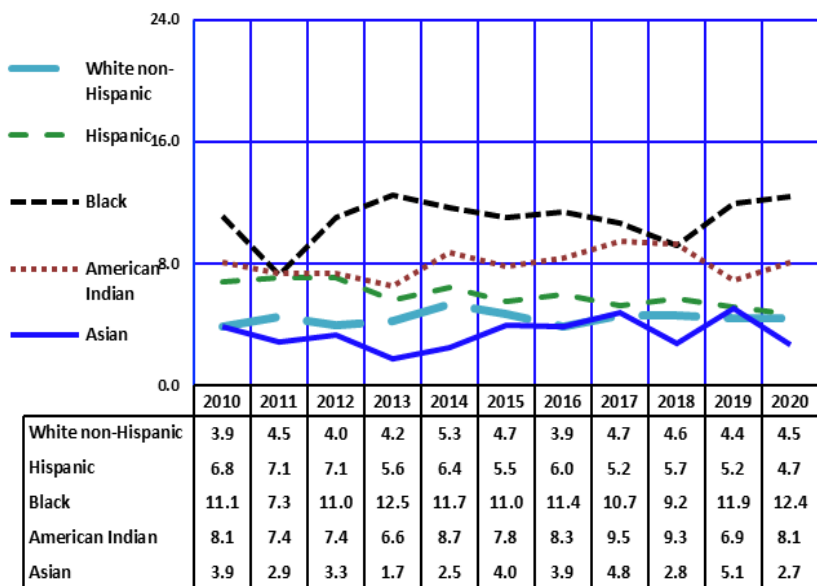
Notes: Neonatal deaths are those deaths affecting infants age 0-27 days; Post-neonatal deaths are deaths to infants aged 28 days-1 year.

Infant mortality is defined as the number of deaths within the first year of life. The infant mortality rate is computed as the number of infant deaths in a calendar year per 1,000 live births recorded for the same period.

In 2020, 404 Arizona infants died before reaching their first birthday, 131 fewer than the latest peak of 535 infant deaths in 2014, and a decrease of 26 deaths in comparison to 2019 (**Table 2C-2**).

Based on the actual number of infant deaths and live births in 2020, the infant mortality rate was slightly lower at 5.3 infant deaths per 1,000 live births in 2020 than in 2019 which had 5.4 infant deaths per 1,000 live births (**Figure 2C-1**).

**Figure 2C-2**  
**Infant Mortality Rates<sup>a</sup> by Race/Ethnicity and Year, Arizona, 2010-2020**



Note: <sup>a</sup> Number of infant deaths per 1,000 live births in specified group.

In 2020, 95.0 percent (384/404)\* 100 of all infant death records were successfully matched to their corresponding birth records.

The mortality risk for infants varies by race/ethnicity. During the 11-year period (2010-2020), infants born to Asian or Pacific Islander mothers witnessed the lowest mortality rates among all racial/ethnic groups for the most part (**Figure 2C-2, Table 2C-2**). The exception being 2017 and 2019, as the infant mortality for Whites was the lowest of all racial/ethnic groups.

In parallel, in each year from 2010 to 2020, Black or African American and American Indian infants had the worst survival chances among the racial/ethnic groups (**Figure 2C-2**).

\*Infant death records that were not linked to their corresponding birth certificates include unrecorded home births (i.e., no birth certificates were issued) and out-of-State births (i.e., the State issuing the certificate of birth did not send a copy to Arizona).

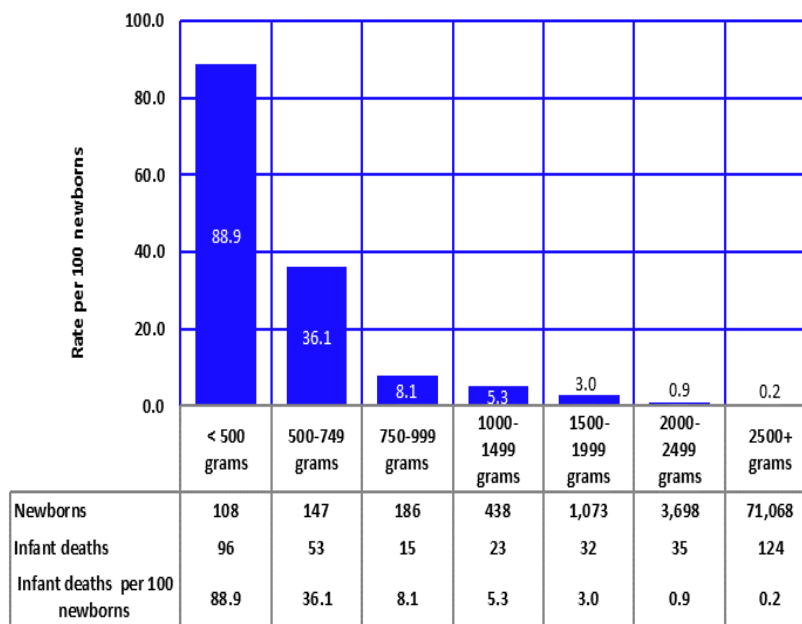
2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

Newborn weight at birth is one of the most important predictors of an infant’s survival chances. In 2020, the mortality rate of very low birth weight babies (birthweight less than 500 grams) was 88.9 per 100 live births (**Figure 2C-3**).

The absolute number of low birthweight births remained lower in 2020 at 5,650 than at its peak in the last 10 years which occurred in 2016 (n= 6,186). The proportion of babies whose weight at birth was less than 1,000 grams decreased slightly from 7.2 percent of all low birthweight births in 2019 to 7.8 percent in 2020 (**Table 1B-3**).

In summary, infants with low birth weight (weighing less than 2,500 grams at birth) represented an increasing proportion of infant deaths per 100 newborns as weight decreased across stratifications (**Figure 2C-3**).

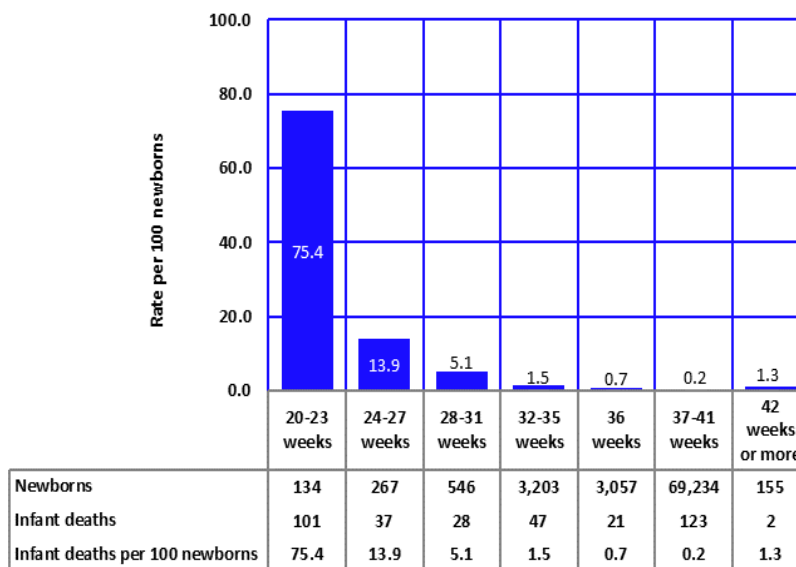
**Figure 2C-3**  
**Proportion of Infant Deaths by Birthweight, Arizona, 2020**



Note: 63 cases in the complete 2020 birth file had missing birthweight estimates.

Similar to low birthweight infants, preterm and very preterm babies contribute greatly to the total infant mortality rate because of their higher risk of mortality. For example, in 2020 births occurring between 20-27 weeks of gestation accounted for only 0.5 percent of all births but 35.9 percent of infant deaths with a matching death record. Births at 20-23 weeks of gestation have a very high infant mortality rate of 75.4 per 100 live births (**Figure 2C-4**). Overall, in 2020 preterm infants (those born before 37 weeks of gestation) accounted for 9.4 percent of all births (**Table 1B-2**) and 60.9 percent of all infant deaths (only those with matching death records).

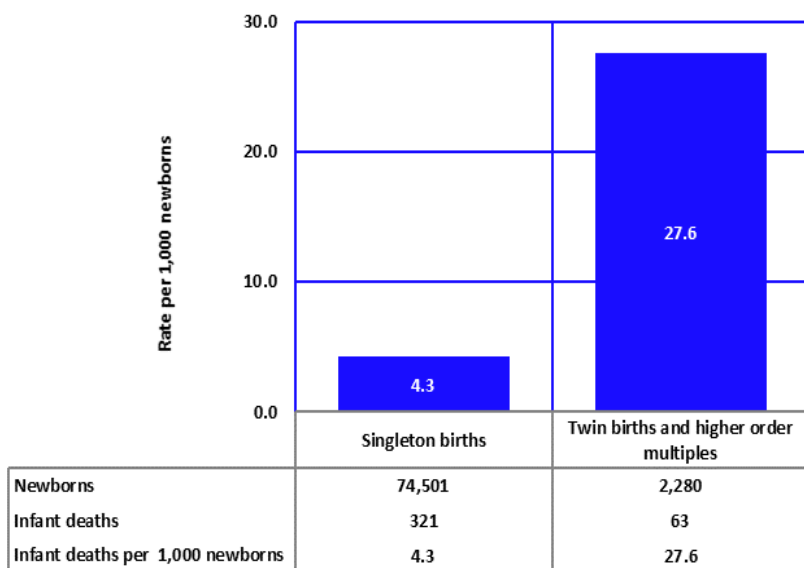
**Figure 2C-4.1**  
**Proportion of Infant Deaths by Gestational Age, Arizona, 2020**



Note: 136 cases in the complete 2020 birth file had missing gestational age; two of which were missing in the linked infant death file.

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-4.2**  
**Infant Mortality Rates for Single and Multiple Births, Arizona, 2020**



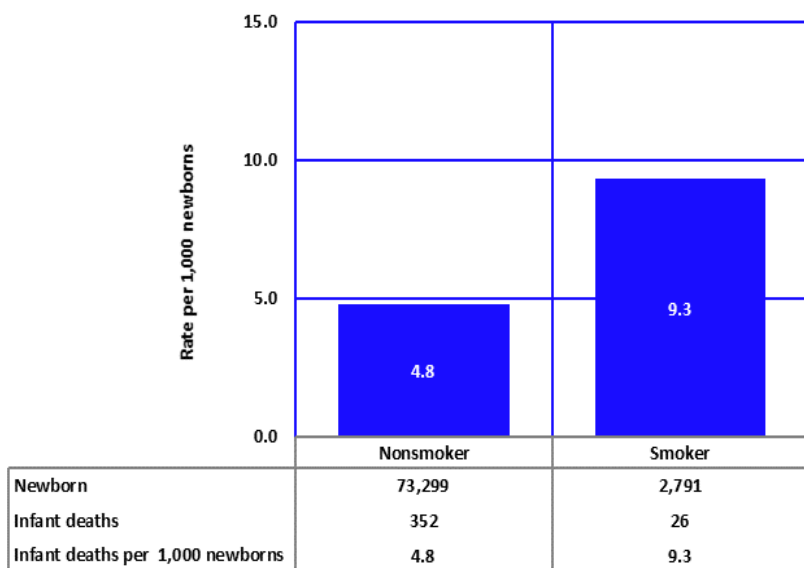
Note: 0 cases in the complete 2020 birth file were missing plurality.

As already noted in Section 1B, infants born in multiple deliveries tend to be born at shorter gestations and smaller than those in singleton deliveries. In 2020, infants born in multiple deliveries were 12.2 times more likely (46.4 vs. 3.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births (**Figure 1B-10**).

The infant mortality rate for single births was 4.3/1,000 live births in 2020 (**Figure 2C-4.2**). The infant mortality rate for twin births or higher order multiples (27.6/1,000 live births) was 6.4 times higher than the infant mortality for singleton births.

Babies born in multiple deliveries accounted for 3.0 percent of births (**Table 1B-16**), but 16.4 percent of all infant deaths in Arizona in 2020 (only those with matching birth and death records).

**Figure 2C-4.3**  
**Infant Mortality Rates by Mother's Smoking Status during Pregnancy, Arizona, 2020**



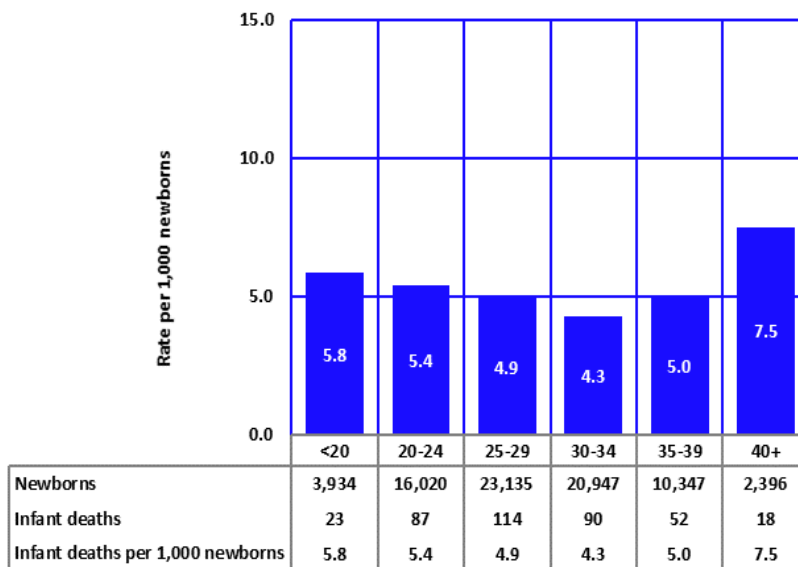
Note: 691 cases in the complete 2020 birth file were missing mothers' smoking status.

Smoking during pregnancy has been shown to increase the risk of preterm delivery, low birth weight and infant mortality. In 2020, among the 2,791 mothers who smoked during pregnancy, the risk of infant mortality was 1.9 times higher than among nonsmoker mothers (**Figure 2C-4.3**).

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-4.4**  
**Infant Mortality Rates by Mother's Age Group, Arizona, 2020**

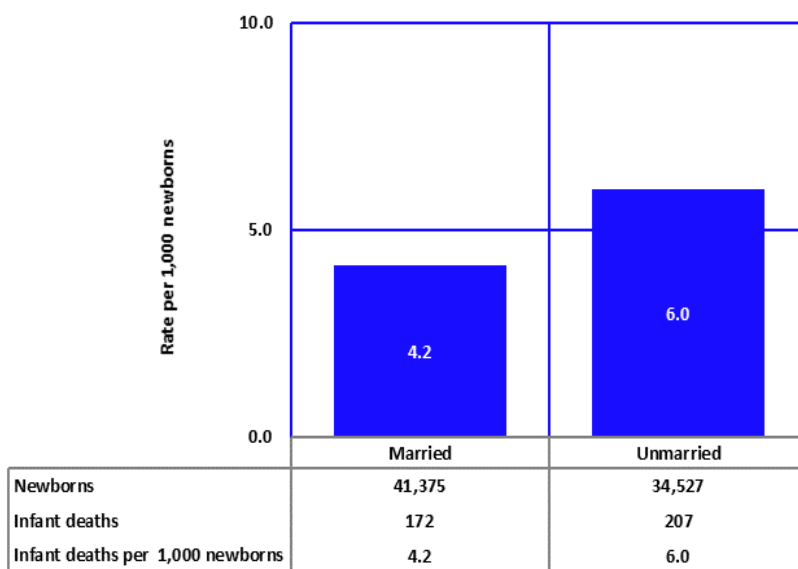
Infant mortality rates vary with maternal age. In 2019, infants born to younger mothers (less than 20 years) and older mothers (40 years or over) had the highest infant mortality rates of all age groups, 5.8/1,000 and 7.5/1,000 respectively (**Figure 2C-4.4**). For mothers aged 20 through 39 years, the infant mortality rates were consistently lower than 6 deaths/1,000.



Note: 2 cases in the complete 2020 birth file were missing mother's age.

Infants born to unmarried mothers accounted for the absolute majority of infant deaths in 2020 (207 infant deaths) compared to married mothers (172 infant deaths). In 2020, more children were born to married women (41,375) than their unmarried counterparts (34,527; **Table 1B-25**). Infants of unmarried mothers had an infant mortality rate of 6.0 deaths per 1,000 live births, 1.4 times higher than the rate for infants of married mothers (4.2 infant deaths per 1,000 live births; **Figure 2C-4.5**). The effect of marital status on infant mortality suggests that marital status is a proxy measure of factors traditionally related to infant mortality such as poverty conditions, access to health care and social support. Mother's marital status may signify the presence or absence of emotional, social, and financial resources.

**Figure 2C-4.5**  
**Infant Mortality Rates by Mother's Marital Status, Arizona, 2020**



Note: 879 cases in the complete 2020 birth file were missing mother's marital status.

**TABLE 2C-1  
INFANT, NEONATAL, AND POSTNEONATAL MORTALITY RATES AND PERCENT OF POSTNEONATAL DEATHS,  
UNITED STATES, ARIZONA AND URBAN/RURAL COUNTIES OF ARIZONA, 2010-2020**

<b>UNITED STATES</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Infant mortality <sup>a</sup>	6.1	6.0	6.0	6.0	5.8	5.9	5.8	5.8	5.7	5.7	5.4
Neonatal mortality <sup>a</sup>	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.7	3.6
Postneonatal mortality <sup>a</sup>	2.1	2.0	2.0	2.0	1.8	1.9	2.0	1.9	1.9	1.9	1.9
Percent postneonatal mortality <sup>b</sup>	34.4	33.3	33.3	33.3	31.0	32.2	34.5	32.8	33.3	33.9	34.3
<b>ARIZONA, STATEWIDE TOTAL</b>											
Infant mortality <sup>a</sup>	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Neonatal mortality <sup>a</sup>	3.8	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5
Postneonatal mortality <sup>a</sup>	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8
Percent postneonatal mortality <sup>b</sup>	36.7	34.3	32.9	35.3	33.4	37.8	33.7	37.7	30.4	38.1	34.4
<b>URBAN COUNTIES</b>											
Infant mortality <sup>a</sup>	5.7	5.8	5.7	5.2	6.1	5.3	5.2	5.4	5.5	5.2	5.1
Neonatal mortality <sup>a</sup>	3.7	3.9	3.9	3.3	4.0	3.3	3.5	3.4	3.8	3.3	3.4
Postneonatal mortality <sup>a</sup>	2.0	1.9	1.9	1.8	2.1	2.0	1.7	2.0	1.6	2.0	1.7
Percent postneonatal mortality <sup>b</sup>	35.1	32.6	32.9	35.1	34.1	37.4	32.5	36.6	29.9	37.8	34.0
<b>RURAL COUNTIES</b>											
Infant mortality <sup>a</sup>	7.4	6.6	5.9	5.8	6.6	7.3	5.6	6.9	6.2	6.5	6.1
Neonatal mortality <sup>a</sup>	4.5	3.7	3.9	3.7	4.5	4.4	3.1	3.7	4.1	4.0	3.7
Postneonatal mortality <sup>a</sup>	2.9	2.9	2.0	2.2	2.1	3.0	2.4	3.2	2.1	2.5	2.3
Percent postneonatal mortality <sup>b</sup>	37.7	43.8	33.8	37.3	31.6	40.5	43.8	46.7	33.3	38.8	38.3

Notes: <sup>a</sup> Rates per 1,000 live births; the U.S. rates are from the National Center for Health Statistics; <sup>b</sup> Total infant mortality = 100 percent; Urban = Maricopa, Pima, Pinal, and Yuma Counties; the remaining counties comprise Arizona's rural areas; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

<http://www.cdc.gov/nchs/products/vsrr/infant-mortality-dashbord.htm>

**TABLE 2C-2  
NUMBER AND RATES\* OF INFANT DEATHS BY RACE/ETHNICITY AND GENDER, ARIZONA, 2010-2020  
NUMBER OF INFANT DEATHS**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	151	171	154	161	213	181	146	166	160	151	148
Male	88	98	81	93	122	99	87	93	94	81	88
Female	63	73	73	68	91	82	59	73	66	70	60
<b>Hispanic or Latino</b>											
Total	235	229	236	185	216	189	203	173	187	170	149
Male	144	122	138	97	108	94	111	98	110	99	84
Female	91	107	98	88	108	95	92	74	76	71	65
<b>Black or African American</b>											
Total	48	32	52	59	53	48	50	49	43	58	59
Male	20	16	22	30	35	24	23	30	18	33	29
Female	28	16	30	29	18	24	27	19	25	25	30
<b>American Indian or Alaska Native</b>											
Total	47	43	41	36	45	39	42	46	44	31	33
Male	28	15	22	19	24	21	22	23	20	19	16
Female	19	28	19	17	21	18	20	23	23	12	17
<b>Asian or Pacific Islander</b>											
Total	10†	10†	10†	10†	10†	10†	13	16	10†	20†	10†
Male	9	8	8	*	6	*	7	10	*	13	7
Female	*	*	*	*	*	9	6	6	*	*	*
<b>All groups<sup>b</sup></b>											
Total	519	504	495	447	535	473	454	461	447	430	404
Male	302	267	271	242	295	243	250	262	250	247	228
Female	217	237	224	205	240	230	204	198	195	183	176

**INFANT MORTALITY RATES**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	3.9	4.5	4.0	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5
Male	4.4	5.0	4.1	4.7	5.9	5.0	4.5	5.1	5.2	4.6	5.2
Female	3.3	3.9	3.9	3.7	4.7	4.4	3.2	4.2	3.9	4.2	3.7
<b>Hispanic or Latino</b>											
Total	6.8	7.1	7.1	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7
Male	8.3	7.3	8.1	5.7	6.2	5.4	6.4	5.8	6.5	6.0	5.2
Female	5.4	6.8	6.1	5.5	6.6	5.6	5.5	4.5	4.7	4.4	4.2
<b>Black or African American</b>											
Total	11.1	7.3	11.0	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4
Male	9.1	7.3	9.2	12.3	14.9	10.7	10.3	12.6	7.9	13.1	12.0
Female	13.1	7.4	12.8	12.7	8.3	11.3	12.5	8.6	10.5	10.6	12.8
<b>American Indian or Alaska Native</b>											
Total	8.1	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1
Male	9.5	5.1	7.8	6.7	9.4	8.3	8.7	9.2	8.2	8.3	7.6
Female	6.6	9.7	6.9	6.4	8.1	7.3	8.0	9.8	10.2	5.5	8.6
<b>Asian or Pacific Islander</b>											
Total	3.9	2.9	3.3	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7
Male	5.4	4.4	4.2	**	3.7	**	4.0	5.9	**	7.9	4.6
Female	**	**	**	**	**	5.7	3.7	3.7	**	**	**
<b>All groups<sup>b</sup></b>											
Total	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Male	6.8	6.1	6.2	5.5	6.6	5.6	5.8	6.3	6.1	6.1	5.8
Female	5.1	5.7	5.4	5.0	5.7	5.5	4.9	4.9	5.0	4.7	4.7

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6;<sup>a</sup> Number of infant deaths per 1,000 live births in specified ethnic/gender group; infant deaths are by the race/ethnicity of the decedent; For consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate; The change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method;<sup>b</sup> Includes records with other and unknown ethnic group.

**TABLE 2C-3  
NUMBER AND RATES<sup>a</sup> OF INFANT DEATHS BY RACE/ETHNICITY AND AGE GROUP, 2010-2020  
NUMBER OF INFANT DEATHS**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	151	171	154	161	213	181	146	166	160	151	148
Neonatal	96	120	100	97	138	108	92	106	116	92	99
Postneonatal	55	51	54	64	75	73	54	60	44	59	49
<b>Hispanic or Latino</b>											
Total	235	229	236	185	216	189	203	173	187	170	149
Neonatal	156	152	170	131	149	130	142	115	136	109	108
Postneonatal	79	77	66	54	67	59	61	58	51	61	41
<b>Black or African American</b>											
Total	48	32	52	59	53	48	50	49	43	58	59
Neonatal	32	20	34	38	34	25	33	30	25	37	36
Postneonatal	16	12	18	21	19	23	17	19	18	21	23
<b>American Indian or Alaska Native</b>											
Total	47	43	41	36	45	39	42	46	44	31	33
Neonatal	22	19	21	20	26	16	21	20	25	14	13
Postneonatal	25	24	20	16	19	23	21	26	19	17	20
<b>Asian or Pacific Islander</b>											
Total	10†	10	10†	10†	10†	10†	13	16	10†	20†	10†
Neonatal	11	10	7	*	7	12	13	7	*	11	*
Postneonatal	*	0	*	*	*	*	0	9	*	*	*
<b>All groups<sup>b</sup></b>											
Total	519	504	495	447	535	473	454	461	447	430	404
Neonatal	330	331	332	289	354	294	301	287	311	266	265
Postneonatal	189	173	163	158	181	179	153	174	136	164	139

**INFANT MORTALITY RATES**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	3.9	4.5	4.0	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5
Neonatal	2.5	3.1	2.6	2.5	3.4	2.8	2.4	3.0	3.3	2.7	3.0
Postneonatal	1.4	1.3	1.4	1.7	1.9	1.9	1.4	1.7	1.3	1.7	1.5
<b>Hispanic or Latino</b>											
Total	6.8	7.1	7.1	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7
Neonatal	4.5	4.7	5.1	4.0	4.4	3.8	4.2	3.5	4.1	3.3	3.4
Postneonatal	2.3	2.4	2.0	1.6	2.0	1.7	1.8	1.7	1.5	1.9	1.3
<b>Black or African American</b>											
Total	11.1	7.3	11.0	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4
Neonatal	7.4	4.6	7.2	8.0	7.5	5.7	7.5	6.5	5.4	7.6	7.6
Postneonatal	3.7	2.7	3.8	4.4	4.2	5.3	3.9	4.1	3.9	4.3	4.8
<b>American Indian or Alaska Native</b>											
Total	8.1	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1
Neonatal	3.8	3.3	3.8	3.7	5.1	3.2	4.2	4.1	5.3	3.1	3.2
Postneonatal	4.3	4.1	3.6	2.9	3.7	4.6	4.2	5.3	4.0	3.8	4.9
<b>Asian or Pacific Islander</b>											
Total	3.9	2.9	3.3	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7
Neonatal	3.3	2.9	1.9	**	2.2	3.7	3.9	2.1	**	3.5	**
Postneonatal	**	0.0	**	**	**	**	0.0	2.7	**	**	**
<b>All groups<sup>b</sup></b>											
Total	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Neonatal	3.8	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5
Postneonatal	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Number of infant deaths per 1,000 live births in specified ethnic/gender group; infant deaths are by the race/ethnicity of the decedent; for consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate; the change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method; <sup>b</sup> Includes records with other and unknown ethnic group.



**TABLE 2C-4  
NEONATAL, POSTNEONATAL, AND TOTAL INFANT MORTALITY BY CHILD'S GENDER AND MOTHER'S RACE/ETHNICITY,  
ARIZONA, 2020**

	NUMBER OF DEATHS BY AGE			MORTALITY RATES <sup>a</sup>		
	Total	Neonatal	Postneonatal	Total	Neonatal	Postneonatal
<b>TOTAL, ALL GROUPS</b>	404	265	139	5.3	3.5	1.8
<b>Male</b>	228	149	79	5.8	3.8	2.0
<b>Female</b>	176	116	60	4.7	3.1	1.6
<b>White non-Hispanic</b>	148	99	49	4.5	3.0	1.5
<b>Male</b>	88	57	31	5.2	3.4	1.8
<b>Female</b>	60	42	18	3.7	2.6	1.1
<b>Hispanic or Latino</b>	149	108	41	4.7	3.4	1.3
<b>Male</b>	84	59	25	5.2	3.6	1.5
<b>Female</b>	65	49	16	4.2	3.1	1.0
<b>Black or African American</b>	59	36	23	12.4	7.6	4.8
<b>Male</b>	29	18	11	12.0	7.4	4.6
<b>Female</b>	30	18	12	12.8	7.7	5.1
<b>American Indian or Alaska Native</b>	33	13	20	8.1	3.2	4.9
<b>Male</b>	16	9	7	7.6	4.2	3.3
<b>Female</b>	20†	*	13	8.6	**	6.6
<b>Asian or Pacific Islander</b>	10†	*	*	2.7	**	**
<b>Male</b>	10†	*	*	4.6	**	**
<b>Female</b>	0†	*	0	**	**	0.0

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Number of deaths per 1,000 live births in specified gender group by mother's race/ethnicity; denominators are from Table 5B-8.

**TABLE 2C-5  
NUMBER OF DEATHS FOR SELECTED LEADING CAUSES OF INFANT MORTALITY<sup>a</sup> BY YEAR, ARIZONA, 2010-2020**

Causes of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Congenital malformations, deformations and chromosomal abnormalities</b>	114	107	118	101	121	117	105	92	122	103	87
<b>of brain, spinal cord or nervous system</b>	21	13	19	13	24	20	14	18	17	12	12
<b>of respiratory system</b>	9	*	6	*	*	8	7	*	13	13	6
<b>Short gestation and low birth weight</b>	64	60	62	56	63	53	55	64	73	54	73
<b>Maternal complications</b>	27	33	46	28	39	39	28	31	21	23	20
<b>Accidents (unintentional injuries)</b>	18	23	16	14	27	29	16	23	13	20	17
<b>Sudden infant death syndrome</b>	34	25	13	14	13	15	7	14	14	17	13
<b>Intrauterine hypoxia or birth asphyxia</b>	*	11	*	6	9	*	6	11	*	6	11
<b>Respiratory distress syndrome</b>	7	*	*	*	*	*	*	6	*	*	8
<b>Assault (homicide)</b>	6	6	*	*	6	*	*	10	*	8	*
<b>Influenza and pneumonia</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Total, all causes</b>	519	504	495	447	535	473	454	461	447	430	404

Notes: \* Cell suppressed due to count less than 6; <sup>a</sup> Leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10).

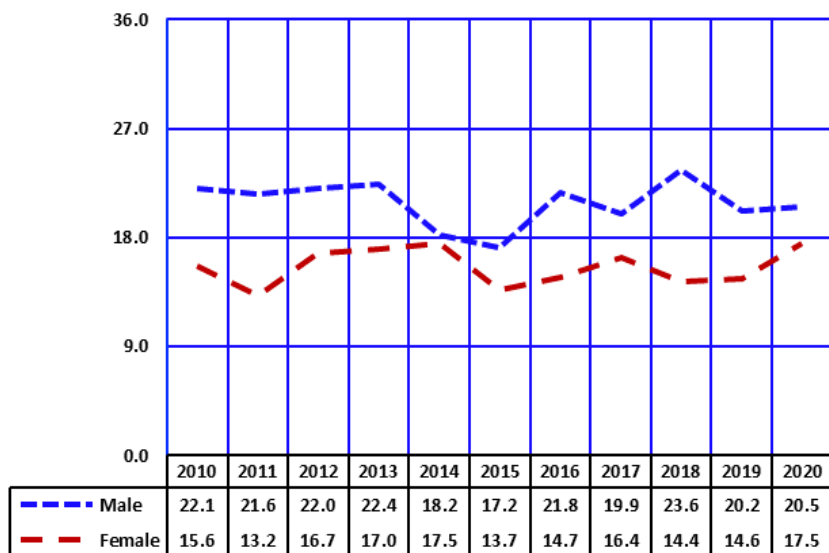
**TABLE 2C-6  
INFANT MORTALITY RATES<sup>a</sup> FOR SELECTED LEADING CAUSES OF DEATH BY YEAR, ARIZONA, 2010-2020**

Causes of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Congenital malformations, deformations and chromosomal abnormalities</b>	1.3	1.3	1.4	1.2	1.4	1.4	1.2	1.1	1.5	1.3	1.1
<b>of brain, spinal cord or nervous system</b>	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
<b>of respiratory system</b>	0.1	**	0.1	**	**	0.1	0.1	**	0.2	0.2	0.1
<b>Short gestation and low birth weight</b>	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.8	0.9	0.7	1.0
<b>Maternal complications</b>	0.3	0.4	0.5	0.3	0.5	0.5	0.3	0.4	0.3	0.3	0.3
<b>Accidents (unintentional injuries)</b>	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2
<b>Sudden infant death syndrome</b>	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
<b>Intrauterine hypoxia or birth asphyxia</b>	**	0.1	**	0.1	0.1	**	0.1	0.1	**	0.1	0.1
<b>Assault (homicide)</b>	0.1	0.1	**	**	0.1	**	**	0.1	**	0.1	**
<b>Respiratory distress syndrome</b>	0.1	**	**	**	**	**	**	0.1	**	**	0.1
<b>Influenza and pneumonia</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Total, all causes</b>	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Number of infant deaths per 1,000 live births; leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10).

**2C.AGE-SPECIFIC MORTALITY**  
**Childhood mortality (ages 1-14 years)**

**Figure 2C-5**  
**Mortality Rates<sup>a</sup> by Gender and Year among Children 1-14 Years, Arizona, 2010-2020**

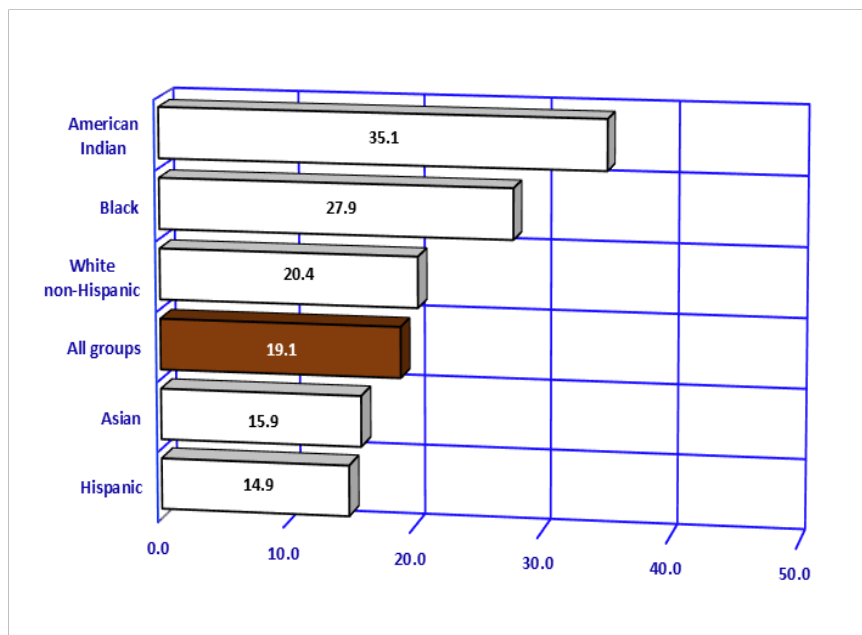


In 2020, a total of 240 deaths were recorded among 1,259,819 children aged 1-14 years residing in Arizona. The 2020 childhood mortality rate was 19.1 per 100,000, representing an increase from 17.5 the rate recorded in 2019 (**Table 2C-7**). Between 2019 and 2020 the mortality rate for male and female children witnessed a slight increase (**Figure 2C-5, Table 2C-7**).

The five causes with the greatest mortality rates in childhood from 2010-2020 were *accidents* (unintentional injuries), *malignant neoplasms*, homicide, *congenital malformations*, and *suicide* (**Table 2C-7**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group.

**Figure 2C-6**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Children 1-14 Years, Arizona, 2020**



American Indian children had the highest total mortality rate (35.1 deaths per 100,000) in 2020, followed by Black or African American children (27.9/100,000; and White non-Hispanic children (20.4/100,000 **Figure 2C-6**). The mortality rates of Asian and Hispanic or Latino children were lower than the average rate for all groups.

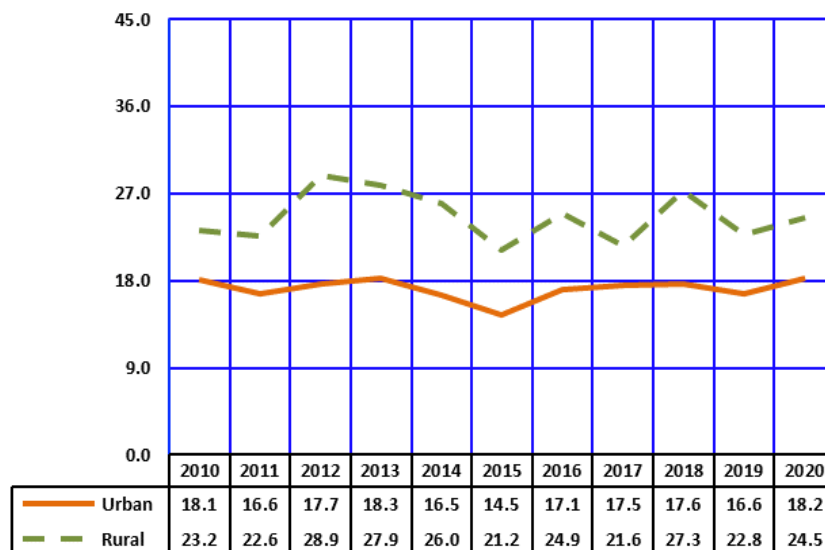
It is important to note that the mortality rate of Asians is based on a very low death count (n=7) (**Table 2C-10**) thus not statistically reliable.

In 2020, there were 18 children who died from congenital anomalies and 17 by means of suicide among this age group (**Table 2C-10**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group.

2C.AGE-SPECIFIC MORTALITY  
**Childhood mortality (ages 1-14 years)**

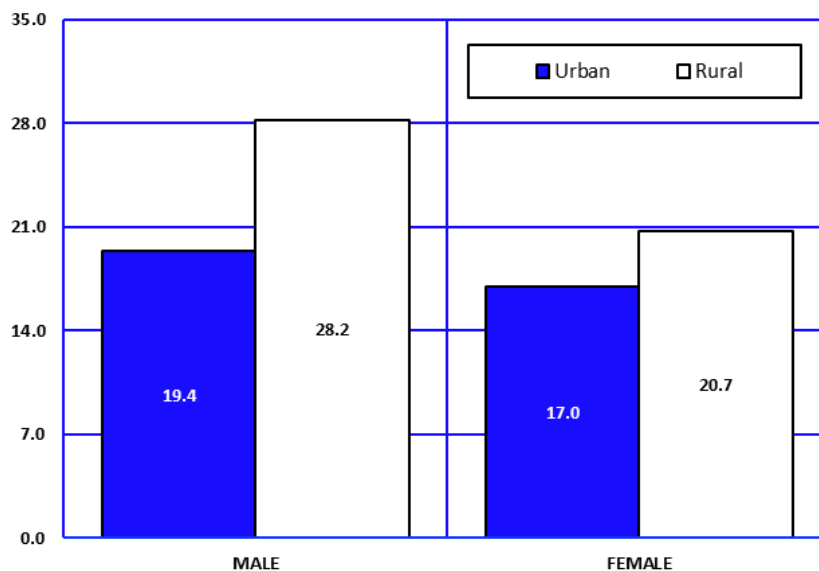
**Figure 2C-7**  
**Mortality Rates<sup>a</sup> by Urban/Rural Area<sup>b</sup> and Year among Children 1-14 Years, Arizona, 2010-2020**



From 2019 to 2020, mortality rates increased for both rural and urban children (**Figure 2C-7, Table 2C-8**). Between 2010 and 2020, urban childhood mortality rates have been lower than rural childhood mortality rates in each year during the 11-year period.

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group; <sup>b</sup> Urban counties are Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

**Figure 2C-8**  
**Mortality Rates<sup>a</sup> by Gender in Urban/Rural<sup>b</sup> Areas among Children 1-14 Years, Arizona, 2020**



The overall mortality rate among children 1-14 years residing in Arizona was higher for both males and females in rural areas compared to urban areas with 28.2 deaths per 100,000 persons aged 1-14 years in urban areas versus 19.4 deaths per 100,000 persons aged 1-14 years in urban areas. Similarly, the mortality rate for females 1-14 years was 20.7 deaths per 100,000 persons aged 1-14 years in rural areas compared to 17.0 deaths per 100,000 persons aged 1-14 years in urban areas.

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group; <sup>b</sup> Urban counties include Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

**TABLE 2C-7  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	8.2	9.6	7.4	8.6	6.5	5.7	7.0	6.8	8.4	5.0	6.7	-18.3
Motor vehicle accidents	3.1	4.0	3.5	4.5	2.5	2.0	4.0	2.9	3.2	2.9	3.4	9.7
Drowning	2.5	2.6	2.2	1.8	2.2	1.9	2.3	2.3	3.2	0.8	2.2	-12.0
Other	2.6	3.1	1.7	2.3	1.9	1.9	0.6	1.5	2.0	1.4	1.1	-57.7
Malignant neoplasms	1.9	1.7	2.8	2.5	1.7	1.7	1.6	2.3	2.3	3.1	2.0	5.3
Assault (homicide)	2.0	0.9	0.9	1.4	0.9	1.2	0.9	0.6	0.5	1.8	1.7	-15.0
Intentional self-harm (suicide)	1.2	1.1	1.1	0.6	1.1	1.1	0.8	1.7	2.0	1.4	1.7	41.7
Congenital malformations	1.5	1.7	1.8	0.9	0.9	0.9	1.1	0.9	1.2	1.5	1.1	-26.7
ALL CAUSES	22.1	21.6	22.0	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	-7.2
(Number of all deaths)	(143)	(141)	(143)	(146)	(118)	(111)	(140)	(129)	(154)	(132)	(132)	(-7.7)
<b>FEMALE</b>												
Accidents (unintentional injuries)	5.1	3.2	3.7	4.5	3.7	4.3	4.5	5.1	3.3	4.1	5.3	3.9
Motor vehicle accidents	2.4	1.1	1.8	2.6	2.6	1.9	2.7	2.2	2.4	2.1	2.9	20.8
Other	1.4	0.8	1.1	0.6	0.6	1.8	1.0	1.6	0.5	1.4	1.5	7.1
Drowning	1.3	1.3	0.8	1.3	0.5	0.6	0.8	1.3	0.5	0.6	1.0	-23.1
Malignant neoplasms	2.2	2.4	2.4	2.1	2.9	0.5	1.3	2.4	2.6	2.1	1.9	-13.6
Congenital malformations	1.6	1.0	2.3	2.4	1.3	2.1	0.6	1.1	1.3	1.0	1.8	12.5
Assault (homicide)	0.3	1.3	1.1	1.6	1.3	1.3	1.3	1.0	1.3	1.1	1.3	333.3
Influenza and pneumonia	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.2	-33.3
ALL CAUSES	15.6	13.2	16.7	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	12.2
(Number of all deaths)	(97)	(83)	(104)	(106)	(109)	(85)	(91)	(102)	(90)	(92)	(108)	11.3
<b>TOTAL</b>												
Accidents (unintentional injuries)	6.7	6.5	5.6	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	-10.4
Motor vehicle accidents	2.8	2.6	2.7	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	14.3
Drowning	1.9	2.0	1.5	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	-15.8
Other	2.0	2.0	1.4	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	-35.0
Malignant neoplasms	2.0	2.0	2.6	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	0.0
Assault (homicide)	1.2	1.1	1.0	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	25.0
Congenital malformations	1.6	1.3	2.0	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	-12.5
Intentional self-harm (suicide)	0.7	0.9	0.6	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	85.7
ALL CAUSES	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1
(Number of all deaths)	(240)	(224)	(247)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	0.0

Notes: <sup>a</sup> Number of deaths per 100,000 children 1-14 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-8  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG CHILDREN (1-14 YEARS)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	6.0	5.7	4.7	5.5	4.5	4.3	5.0	5.8	5.4	4.1	6.0	0.0
Motor vehicle accidents	2.5	1.7	1.9	2.6	2.0	1.7	2.6	2.1	2.1	2.1	2.7	8.0
Drowning	1.8	2.2	1.5	1.8	1.4	1.2	1.8	2.1	2.0	0.7	1.8	0.0
Other	1.7	1.7	1.3	1.1	1.1	1.4	0.6	1.6	1.4	1.3	1.5	-11.8
Malignant neoplasms	2.3	2.1	2.6	2.4	2.3	1.1	1.4	2.5	2.5	2.5	2.0	-13.0
Congenital malformations	1.8	1.3	2.1	1.8	1.0	1.5	0.9	1.0	1.4	1.3	1.6	-11.1
Assault (homicide)	1.3	1.2	0.9	1.5	1.0	1.2	1.1	0.6	0.7	1.6	1.3	0.0
Diseases of heart	0.3	0.4	0.6	0.3	0.3	0.3	0.5	0.2	0.5	0.3	0.5	66.7
ALL CAUSES	18.1	16.6	17.7	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	0.6
(Number of all deaths)	(197)	(182)	(192)	(200)	(180)	(158)	(186)	(192)	(194)	(184)	(199)	1.0
<b>RURAL</b>												
Accidents (unintentional injuries)	10.8	11.3	10.9	12.6	8.9	9.5	10.8	6.8	8.5	8.0	6.0	-44.4
Motor vehicle accidents	4.3	7.5	7.1	8.7	5.5	3.3	8.5	5.1	7.4	5.1	6.0	39.5
Drowning	2.2	0.5	1.6	0.0	1.1	1.7	0.0	0.0	1.1	0.6	0.0	-100.0
Other	4.3	3.2	2.2	3.8	2.2	4.5	2.3	1.7	0.0	2.3	0.0	-100.0
Assault (homicide)	0.5	0.5	1.6	1.6	1.7	1.7	1.1	1.7	1.7	0.6	3.0	500.0
Intentional self-harm (suicide)	1.1	0.5	1.1	1.6	2.2	2.8	1.7	4.0	3.4	2.3	3.0	172.7
Malignant neoplasms	0.5	1.6	2.2	1.6	2.2	1.1	1.7	1.7	1.7	2.8	1.8	260.0
Congenital malformations	0.5	1.6	1.6	0.5	1.7	1.7	0.6	1.1	0.0	1.1	0.6	20.0
ALL CAUSES	23.2	22.6	28.9	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	5.6
(Number of all deaths)	(43)	(42)	(53)	(51)	(47)	(38)	(44)	(38)	(48)	(40)	(41)	(-4.7)
<b>TOTAL</b>												
Accidents (unintentional injuries)	6.7	6.5	5.6	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	-10.4
Motor vehicle accidents	2.8	2.6	2.7	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	14.3
Drowning	1.9	2.0	1.5	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	-15.8
Other	2.0	2.0	1.4	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	-35.0
Malignant neoplasms	2.0	2.0	2.6	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	0.0
Assault (homicide)	1.2	1.1	1.0	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	25.0
Congenital malformations	1.6	1.3	2.0	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	-12.5
Intentional self-harm (suicide)	0.7	0.9	0.6	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	85.7
ALL CAUSES	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1
(Number of all deaths)	(240)	(224)	(247)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	0.0

Notes: <sup>a</sup> Number of deaths per 100,000 children 1-14 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-9  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER  
IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	20.0	20.8	20.0	21.3	16.2	16.2	19.9	18.4	22.2	19.6	19.4	-3.0
Female	16.2	12.3	15.2	15.2	16.8	12.7	14.3	16.6	12.8	13.5	17.0	4.9
TOTAL	18.1	16.6	17.7	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	0.6
<b>RURAL</b>												
Male	33.9	26.4	32.1	29.0	30.5	23.1	33.5	27.9	32.5	23.5	28.2	-16.8
Female	12.1	18.7	25.5	26.6	21.3	19.3	16.1	15.0	21.9	22.1	20.7	71.1
TOTAL	23.2	22.6	28.9	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	5.6
<b>TOTAL</b>												
Male	22.1	21.6	22.0	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	-7.2
Female	15.6	13.2	16.7	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	12.2
TOTAL	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1

Notes: <sup>a</sup> Rates are presented per 100,000 children 1-14 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.



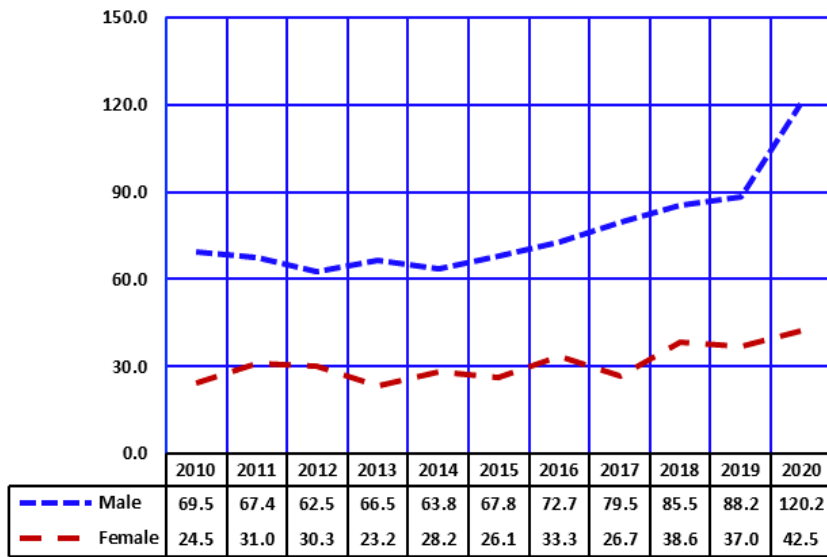
**TABLE 2C-10  
LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020**

Cause of death	Total	Gender		Area <sup>a</sup>		Race/ethnicity				
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander
Accidents (unintentional injury)	80 <sup>†</sup>	43	33	66	10	36	27	*	8	*
Motor vehicle accidents	40 <sup>†</sup>	22	18	30	10	19	14	0	*	*
Accidental drowning and submersion	20 <sup>†</sup>	14	6	20	0	10	8	0	*	*
Malignant neoplasms	30 <sup>†</sup>	13	12	22	*	16	7	*	*	0
Leukemia	10 <sup>†</sup>	6	*	8	*	7	*	*	0	0
Assault (homicide)	20 <sup>†</sup>	11	8	14	*	*	9	*	*	0
By other means	10 <sup>†</sup>	6	6	9	*	*	7	*	0	0
By discharge of firearms	10 <sup>†</sup>	*	*	*	*	*	*	*	*	0
Congenital malformations	20 <sup>†</sup>	7	11	17	*	8	8	0	*	0
Intentional self-harm (suicide)	20 <sup>†</sup>	11	6	12	*	10	*	*	*	0
COVID-19 <sup>‡</sup>	0 <sup>†</sup>	*	*	*	*	*	*	0	*	0
Influenza and pneumonia	0 <sup>†</sup>	*	*	*	0	0	*	0	0	0
Chronic lower respiratory diseases	0 <sup>†</sup>	*	0	*	0	0	*	0	0	0
Asthma	0 <sup>†</sup>	*	0	*	0	0	*	0	0	0
<b>Total, all causes</b>	<b>240</b>	<b>132</b>	<b>108</b>	<b>199</b>	<b>41</b>	<b>104</b>	<b>84</b>	<b>22</b>	<b>23</b>	<b>7</b>

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**2C.AGE-SPECIFIC MORTALITY**  
**Adolescent mortality (ages 15-19 years)**

**Figure 2C-9**  
**Mortality Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

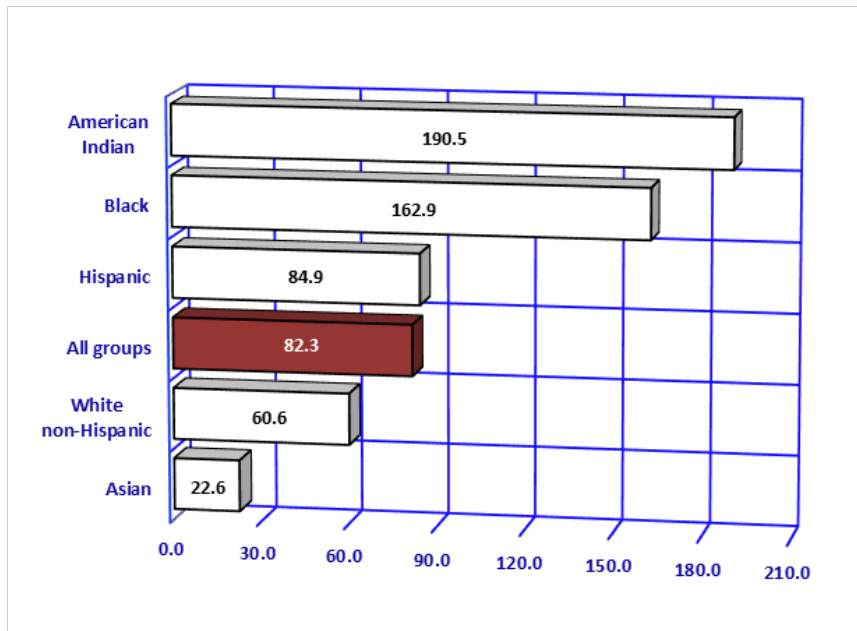


Adolescence refers to individuals between the ages of 15 and 19, an important developmental period marking the transition from childhood to adulthood. In 2020, an estimated 471,519 adolescents resided in Arizona, comprising 6.6 percent of the State’s population (**Table 10A-1**). The lives of 388 resident adolescents prematurely ended in 2020, resulting in a total mortality rate of 82.3 deaths per 100,000 adolescents. This mortality rate was 72.5 percent higher than the 2010 rate (**Table 2C-11**).

The likelihood of dying was approximately 283% higher for adolescent boys than for adolescent girls in 2020 (**Figure 2C-9, Table 2C-11**).

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 15 - 19 years old in specified group.

**Figure 2C-10**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Adolescents 15-19 Years, Arizona, 2020**



The five causes with the greatest number of deaths over the 2010-2020 period were *unintentional injuries in accidents, suicide, homicide, malignant neoplasms, and diseases of heart* (**Table 2C-14**).

In 2020, adolescents who were Asian or White had greater survival chances than the state average for all adolescents. American Indian had the lowest survival chances of all racial/ethnic groups (**Figure 2C-10**).

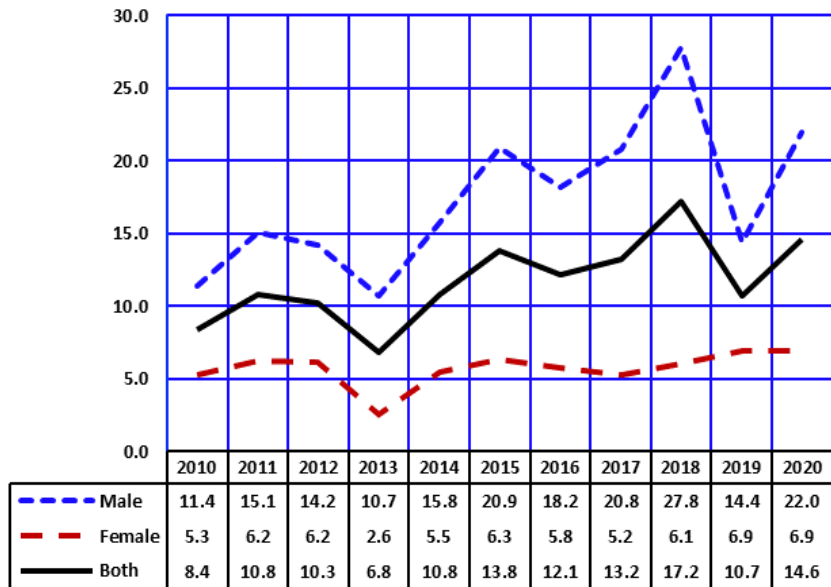
Note: <sup>a</sup> Number of deaths per 100,000 persons, 15 - 19 years old in specified group.

**2C.AGE-SPECIFIC MORTALITY**  
**Adolescent mortality (ages 15-19 years)**

**Figure 2C-11**  
**Suicide Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

In 2020, sixty-nine suicide deaths were recorded among Arizonans age 15-19 years, an increase from 51 recorded in 2019 (**Table 2C-14**). In 2020, as in prior years, male adolescents accounted for the absolute majority (76.8 percent) of completed suicides.

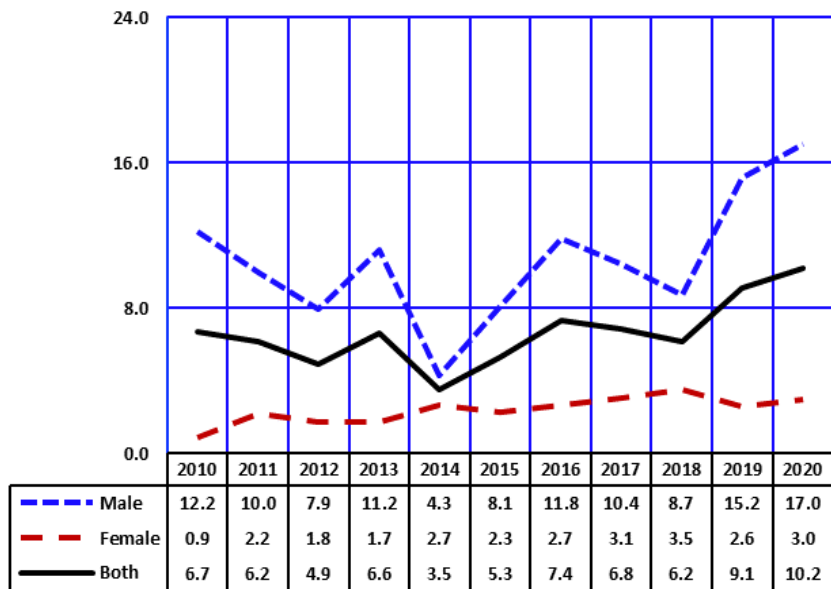
The suicide rate in 2013 was the lowest recorded since at least 1990 (**Figure 2C-11, Table 2C-11**). Between 2010 and 2020, the adolescent male suicide rate (22.0/100,000) increased 93.0 percent, while the adolescent female suicide rate (6.9) increased by 30.2 percent. The male to female ratio in suicide mortality rates increased from 2.2:1 in 2010 to 3.2:1 in 2020. In other words, male adolescents were almost 3.2 times more likely to kill themselves than female adolescents in 2020, compared to 2.1 times in 2010.



Note: <sup>a</sup> Number of suicide deaths per 100,000 persons, 15 - 19 years old in specified group.

**Figure 2C-12**  
**Homicide Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

During the 11-year period, from 2010 to 2020, the overall adolescent mortality rate due to homicide increased by 52.2 percent. However, there were some gender differences in homicide rates, marked by an increase of 39.3 percent among adolescent males and 233.3 percent among their female counterparts (**Figure 2C-12, Table 2C-11**). From 2019 to 2020, the overall mortality rate of adolescent homicide deaths increased by 12.1 percent. Looking at gender specific homicide mortality, there was a substantial increase of 11.8 percent for males and 15.4 percent for females in the 2019-2020 years.



Note: <sup>a</sup> Number of homicide deaths per 100,000 persons, 15 - 19 years old in specified group.

**TABLE 2C-11  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	27.0	29.3	28.8	28.1	22.3	20.9	27.9	33.3	32.4	42.0	58.0	114.8
Other	11.8	0.8	10.4	12.8	7.3	8.1	14.8	17.9	19.1	26.0	37.7	219.5
Motor vehicle accidents	15.2	18.8	18.3	15.3	15.0	12.8	13.1	15.4	13.3	16.1	20.3	33.6
Intentional self-harm (suicide)	11.4	15.1	14.2	10.7	15.8	20.9	18.2	20.8	27.8	14.4	22.0	93.0
Assault (homicide)	12.2	10.0	7.9	11.2	4.3	8.1	11.8	10.4	8.7	15.2	17.0	39.3
Malignant neoplasms	2.5	2.1	2.9	2.5	2.6	3.8	2.5	2.1	2.5	4.1	3.7	48.0
Diseases of heart	2.1	1.3	0.0	0.4	1.3	0.4	0.0	0.8	1.7	0.4	2.1	0.0
ALL CAUSES	69.5	67.4	62.5	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	72.9
(Number of all deaths)	(165)	(161)	(150)	(161)	(149)	(159)	(172)	(191)	(206)	(214)	(290)	75.8
<b>FEMALE</b>												
Accidents (unintentional injuries)	9.4	9.7	15.8	7.9	7.7	9.0	15.5	11.8	20.8	18.1	19.1	103.2
Other	4.9	0.9	2.6	1.7	2.7	2.7	4.0	3.5	7.8	7.3	10.0	104.1
Motor vehicle accidents	4.5	5.8	13.2	6.1	5.0	6.3	11.5	8.3	13.0	10.8	9.1	102.2
Intentional self-harm (suicide)	5.3	6.2	6.2	2.6	5.5	6.3	5.8	5.2	6.1	6.9	6.9	30.2
Assault (homicide)	0.9	2.2	1.8	1.7	2.7	2.3	2.7	3.1	3.5	2.6	3.0	233.3
Diseases of heart	0.9	0.9	0.0	0.9	0.9	0.9	1.8	0.9	0.9	0.4	1.7	88.9
Malignant neoplasms	2.7	4.4	1.8	3.5	4.1	2.7	2.2	1.3	0.9	3.9	0.9	-66.7
ALL CAUSES	24.5	31.0	30.3	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	73.5
(Number of all deaths)	(55)	(70)	(69)	(53)	(62)	(58)	(75)	(61)	(89)	(86)	(98)	78.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	18.4	19.8	22.5	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	112.0
Other	8.4	0.9	6.6	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	188.1
Motor vehicle accidents	10.0	12.5	15.8	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	48.0
Intentional self-harm (suicide)	8.4	10.8	10.3	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	73.8
Assault (homicide)	6.7	6.2	4.9	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	52.2
Malignant neoplasms	2.6	3.2	2.4	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	-11.5
Diseases of heart	1.5	1.1	0.0	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	26.7
ALL CAUSES	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5
(Number of all deaths)	(220)	(231)	(220)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	76.4

Notes: <sup>a</sup> Number of deaths per 100,000 adolescents 15-19 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-12  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ADOLESCENTS (15-19 YEARS)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	17.0	18.4	17.0	15.8	12.5	13.4	20.4	19.6	25.9	31.1	39.0	129.4
Other	7.7	1.0	5.1	6.5	3.7	4.9	8.2	10.3	13.7	18.2	25.4	229.9
Motor vehicle accidents	9.3	10.8	11.9	9.3	8.9	8.5	12.2	9.3	12.2	12.8	13.6	46.2
Intentional self-harm (suicide)	7.2	8.5	8.1	5.0	9.6	12.7	11.2	11.5	12.4	9.9	12.3	70.8
Assault (homicide)	6.7	6.4	4.8	6.8	3.7	5.9	7.9	7.8	6.5	10.1	10.9	62.7
Malignant neoplasms	2.3	2.8	2.8	3.5	3.7	2.8	2.8	1.8	1.7	4.4	2.7	17.4
Diseases of heart	1.5	1.3	0.0	0.5	1.3	0.5	0.8	1.0	1.0	0.5	2.2	46.7
ALL CAUSES	43.6	45.3	38.8	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	83.5
(Number of all deaths)	(169)	(177)	(153)	(169)	(163)	(171)	(199)	(199)	(230)	(266)	(324)	91.7
<b>RURAL</b>												
Accidents (unintentional injuries)	25.5	26.9	52.1	31.8	29.9	24.5	30.3	39.9	30.2	24.5	37.7	47.8
Motor vehicle accidents	13.4	21.5	37.0	19.3	17.1	15.8	13.0	25.6	18.7	17.3	22.6	68.7
Other	12.1	0.0	15.1	12.4	12.8	8.6	17.3	14.2	11.5	7.2	15.1	24.8
Intentional self-harm (suicide)	14.8	22.9	21.9	16.6	17.1	20.2	17.3	22.8	44.5	15.9	28.6	93.2
Assault (homicide)	6.7	5.4	5.5	5.5	2.9	1.4	2.9	1.4	4.3	2.9	6.0	-10.4
Malignant neoplasms	4.0	5.4	0.0	0.0	1.4	5.8	0.0	1.4	1.4	1.4	0.0	-100.0
Diseases of heart	1.3	0.0	0.0	0.0	0.0	1.4	1.4	0.0	2.9	0.0	0.0	-100.0
ALL CAUSES	68.6	72.7	90.5	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	36.3
(Number of all deaths)	(51)	(54)	(66)	(45)	(48)	(46)	(46)	(52)	(64)	(33)	(62)	21.6
<b>TOTAL</b>												
Accidents (unintentional injuries)	18.4	19.8	22.5	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	112.0
Other	8.4	0.9	6.6	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	188.1
Motor vehicle accidents	10.0	12.5	15.8	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	48.0
Intentional self-harm (suicide)	8.4	10.8	10.3	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	73.8
Assault (homicide)	6.7	6.2	4.9	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	52.2
Malignant neoplasms	2.6	3.2	2.4	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	-11.5
Diseases of heart	1.5	1.1	0.0	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	26.7
ALL CAUSES	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5
(Number of all deaths)	(220)	(231)	(220)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	76.4

Notes: <sup>a</sup> Number of deaths per 100,000 adolescents 15-19 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-13  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	62.8	62.2	50.8	62.0	59.8	60.8	69.6	73.9	78.3	93.0	118.1	88.1
Female	23.4	27.4	26.1	21.7	24.2	26.6	30.9	24.7	35.2	36.9	40.0	70.9
TOTAL	43.6	45.3	38.8	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	83.5
<b>RURAL</b>												
Male	104.9	94.6	123.3	91.4	85.8	106.8	84.9	111.6	124.4	56.9	130.8	24.7
Female	30.3	49.6	53.3	31.2	50.0	23.6	47.1	34.9	58.4	38.0	55.0	81.5
TOTAL	68.6	72.7	90.5	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	36.3
<b>TOTAL</b>												
Male	69.5	67.4	62.5	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	72.9
Female	24.5	31.0	30.3	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	73.5
TOTAL	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5

Notes: <sup>a</sup> Rates are presented per 100,000 children 15-19 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

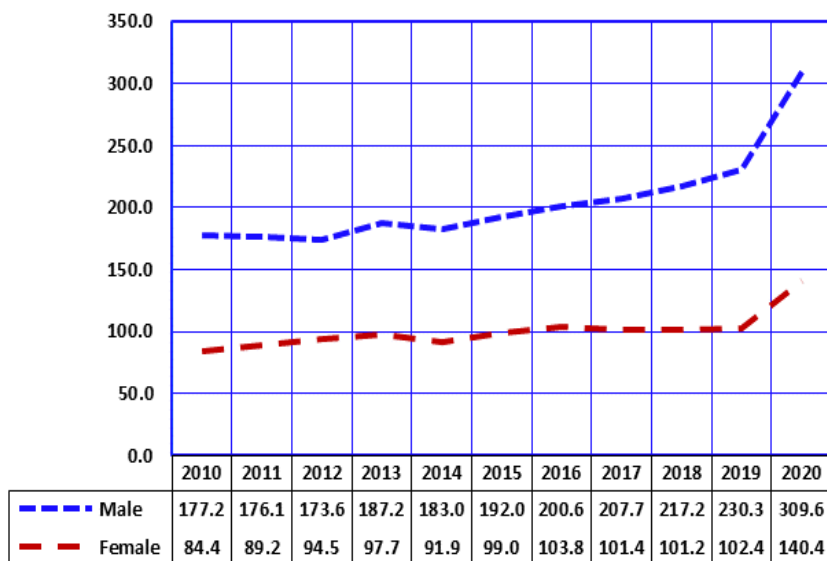
**TABLE 2C-14  
LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Gender		Area <sup>a</sup>			Race/ethnicity						
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Unknown
<b>Accidents (unintentional injury)</b>	180 <sup>†</sup>	140	44	158	25	*	59	91	16	14	*	*
<b>Accidental poisoning</b>	100 <sup>†</sup>	83	20	96	6	*	35	47	10	7	*	*
<b>Motor vehicle accidents</b>	70 <sup>†</sup>	49	21	55	15	0	21	39	*	*	0	0
<b>Accidental drowning and submersion</b>	0 <sup>†</sup>	*	0	0	*	0	*	0	0	0	0	0
<b>Intentional self-harm (suicide)</b>	70 <sup>†</sup>	53	16	50	19	0	30	23	*	12	*	0
<b>By discharge of firearms</b>	40 <sup>†</sup>	35	*	28	12	0	17	13	*	6	*	0
<b>By other means</b>	29	18	11	22	7	0	13	10	0	6	0	0
<b>Assault (homicide)</b>	50 <sup>†</sup>	41	7	44	*	0	*	21	17	6	0	0
<b>By discharge of firearms</b>	40 <sup>†</sup>	37	*	38	*	0	*	19	13	*	0	0
<b>By other means</b>	10 <sup>†</sup>	*	*	6	*	0	0	*	*	*	0	0
<b>Malignant neoplasms</b>	10 <sup>†</sup>	9	*	11	0	0	*	7	0	0	0	0
<b>Diseases of the heart</b>	10 <sup>†</sup>	*	*	9	0	0	*	*	*	0	0	0
<b>Events of undetermined intent</b>	10 <sup>†</sup>	*	*	*	*	0	*	*	*	0	0	0
<b>COVID-19<sup>‡</sup></b>	0 <sup>†</sup>	*	*	*	*	0	0	*	0	*	0	0
<b>Total, all causes<sup>b</sup></b>	388	290	98	324	62	2	121	173	45	43	4	2

Notes: \* Cell suppressed due to count less than 6; <sup>†</sup> Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> May include death records where the county of residence could not be classified as urban or rural; Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

2C.AGE-SPECIFIC MORTALITY  
**Young adult mortality (ages 20-44 years)**

**Figure 2C-13**  
**Mortality Rates<sup>a</sup> by Gender and Year among Young Adults 20-44 Years, Arizona, 2010-2020**

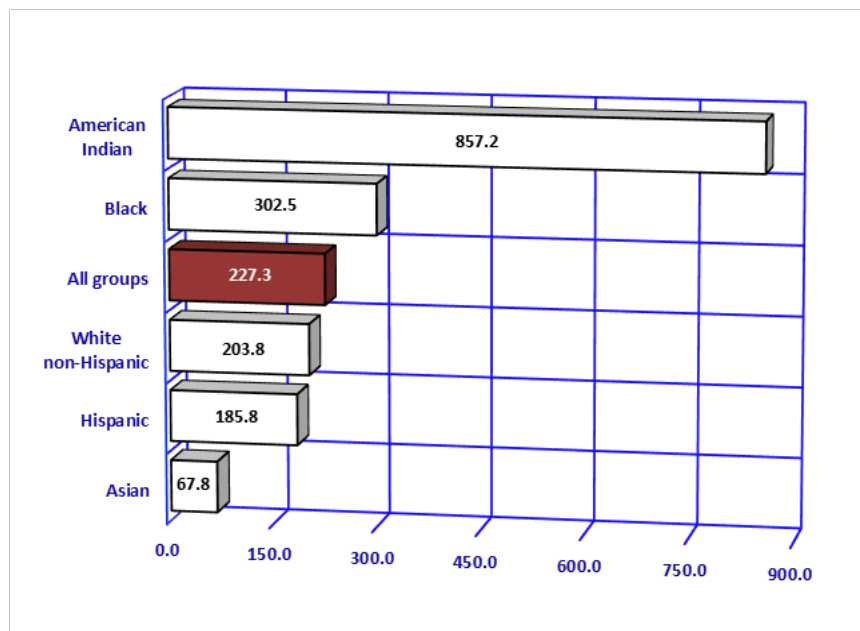


In 2020, 33.0 percent of Arizona residents were between 20 and 44 years of age. Among the six developmental periods examined in the life span, young adulthood, with an estimated 2.4 million individuals, easily represented the largest segment of the population. However, only 7.1 percent of all deaths occurred during young adulthood.

In each year from 2010 to 2020 period, males aged 20-44 years died at a higher rate than females. During the same period, the mortality rate for this age group increased by 74.7 percent for males and 66.4 percent for females. Compared to 2019, the young adult mortality rate increased both for males (34.4 percent) and females (37.1 percent); **Figure 2C-13, Table 2C-15).**

Note: <sup>a</sup> Number of deaths per 100,000 persons, 20-44 years old in specified group.

**Figure 2C-14**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



The 2020 mortality among young adults shows racial/ethnic disparities. American Indians aged 20-44 years had the highest mortality rates while Asians of the same age group recorded the lowest mortality rate across all groups.

American Indian young adults had a mortality rate 2.8 times greater than Black or African American adults, the racial/ethnic group with the second highest young adult mortality rate. The American Indian young adult mortality rate was 3.8 times higher than the state average for young adults and 12.6 times greater than Asian young adults.

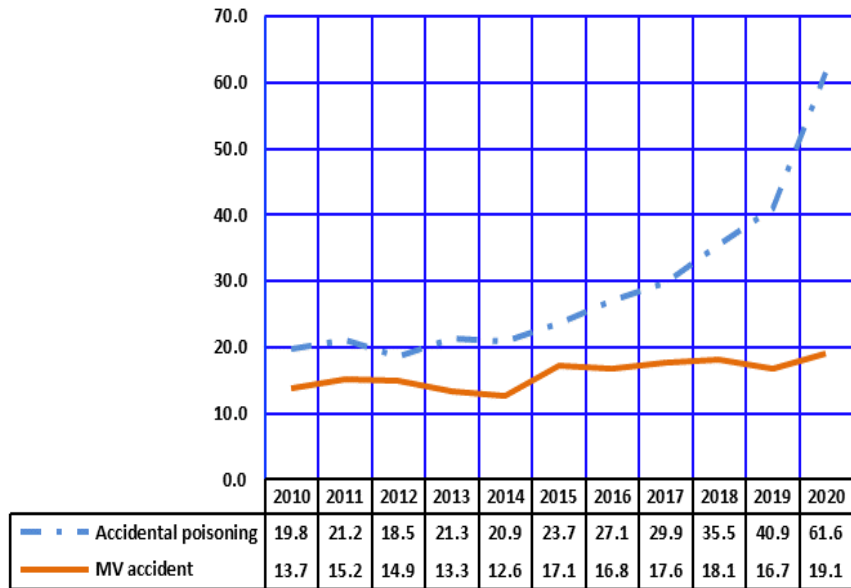
Note: <sup>a</sup> Number of deaths per 100,000 persons, 20-44 years old in specified group.



**2C.AGE-SPECIFIC MORTALITY**  
**Young adult mortality (ages 20-44 years)**

In 2020, 1,456 deaths of young adults were attributed to accidental poisoning (Table 2C-18), an increase of 50.7 percent from 2019. The mortality rate for accidental poisoning among young adults (61.6/100,000) exceeded the mortality rate for motor vehicle-related injuries. In the past decade, excess of mortality due to accidental poisoning has been consistently recorded in each year since 2010 (Figure 2C-15). Among the young adults 20-44 years, 1,373 accidental poisoning deaths were due to drug overdose (ICD-10 X40-44) and 67 deaths were due to alcohol poisoning (ICD-10 X45).

**Figure 2C-15**  
**Mortality Rates<sup>a</sup> for Motor Vehicle-Related Injuries and Accidental Poisoning by Year among Young Adults 20-44 Years, Arizona, 2010-2020**

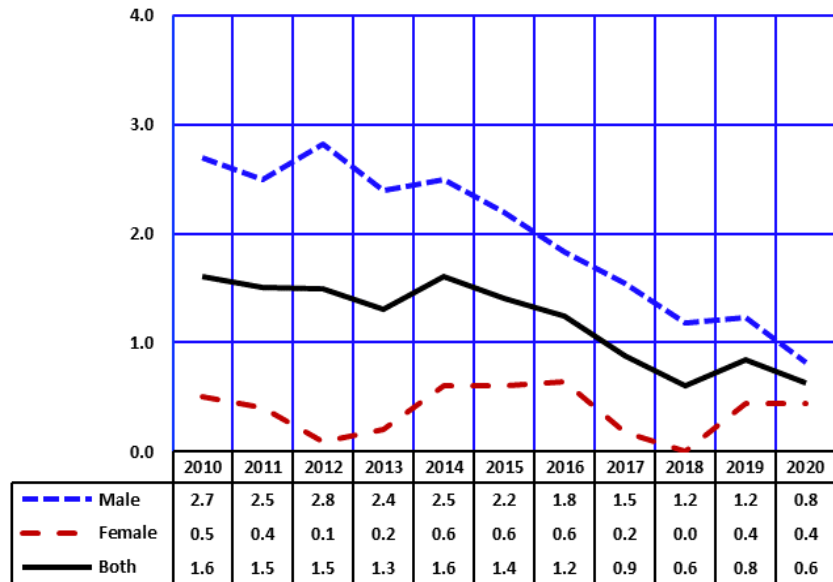


Note: <sup>a</sup> Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 20-44 years old in specified group.

**Figure 2C-16**  
**Mortality Rates<sup>a</sup> for HIV Disease by Gender and Year among Young Adults 20-44 Years, Arizona, 2010-2020**

In 2020, of the 73 deaths from HIV disease about 20.5 percent occurred among Arizonans 20-44 years old (Table 2C-27), a decrease from 29.4 percent in 2019. Males accounted for the majority of the young adult deaths from HIV disease in 2020 (Table 2C-18).

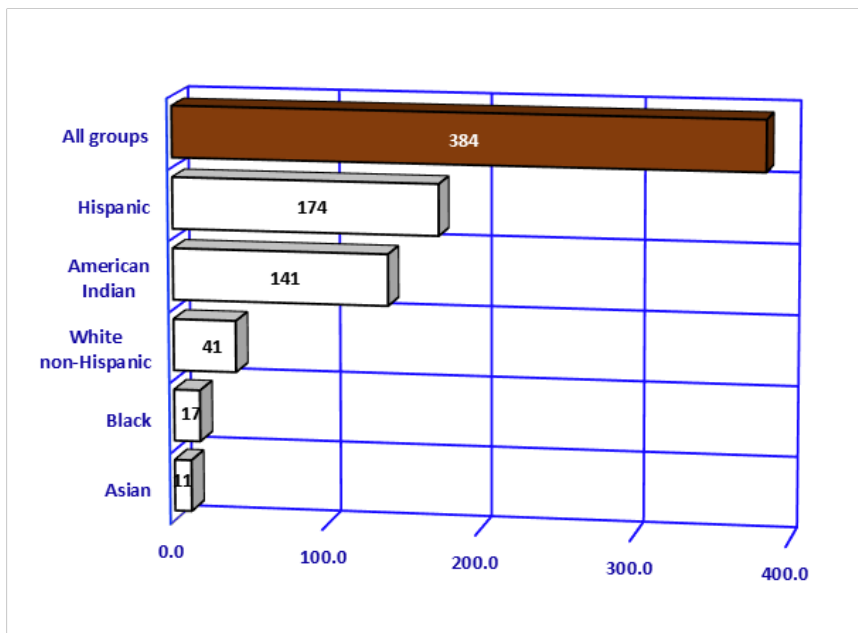
An analysis of HIV mortality rates by gender for the 2010-2020 period revealed a decrease of 70.4 percent in mortality among young males and 20.0 in mortality rate among their female counterparts.



Note: <sup>a</sup> Number of HIV deaths per 100,000 persons, 20-44 years old in specified group.

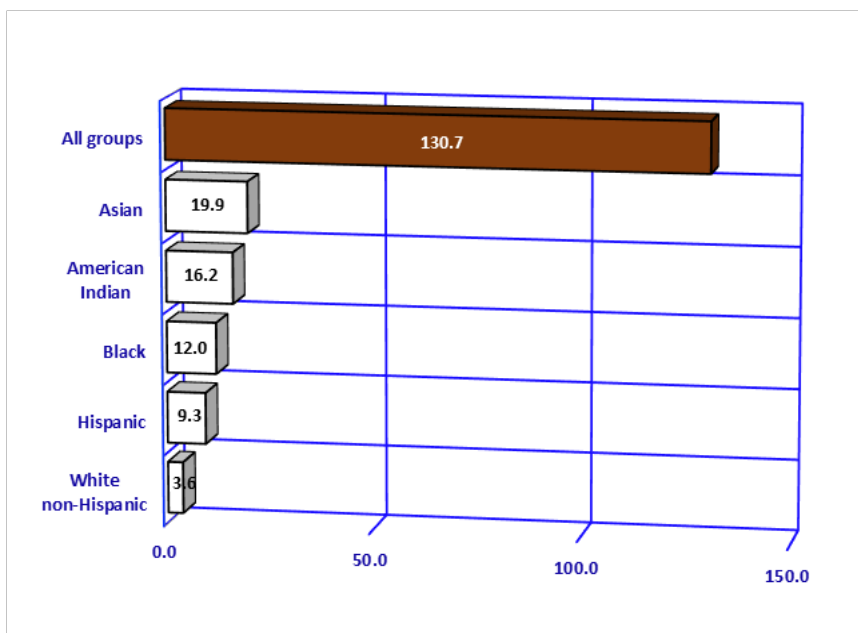
**2C.AGE-SPECIFIC MORTALITY**  
**Young adult mortality (ages 20-44 years)**

**Figure 2C-17**  
**Mortality for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



In 2020, 384 Arizona resident young adults age 20-44 died from COVID-19. Among the deaths, people who identified as Hispanic or Latino represented the largest amount of deaths compared to other race and ethnicities with 45.3% (n=174) of deaths in this age group. The least impacted race were Asians with 2.9% (n= 11) of deaths in this age group (**Figure 2C-17, Table 2C-18**).

**Figure 2C-18**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



The age-specific mortality rate of Arizona resident young adults aged 20-44 years found the highest risk among American Indians with a rate of 130.7 deaths per 100,000 people aged 20-44. This was approximately eight times the rate among all race/ethnicity groups (16.2 deaths per 100,000 people aged 20-44). People who identified as Hispanic or Latino represented the second highest group with 19.9 deaths per 100,000 people aged 20-44 and was above the average of all groups (**Figure 2C-18**).

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 20-44 years old in specified group.

**TABLE 2C-15  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)  
BY GENDER, ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	52.6	57.9	52.8	56.7	54.3	63.3	71.2	76.7	86.0	94.3	128.5	144.3
Other	27.5	8.7	31.2	38.0	35.9	38.6	46.9	52.6	59.9	70.2	100.9	266.9
Motor vehicle accidents	19.8	20.6	21.6	18.7	18.4	24.7	24.3	24.1	26.1	24.1	27.6	39.4
Intentional self-harm (suicide)	31.5	32.4	29.0	30.8	28.7	30.8	30.9	33.5	36.9	37.2	35.1	11.4
Assault (homicide)	20.1	18.2	16.1	16.1	13.3	16.6	17.8	19.4	17.9	15.0	20.3	1.0
Diseases of heart	11.7	14.7	13.5	14.2	14.0	13.6	12.0	14.7	13.3	14.8	18.9	61.5
Malignant neoplasms	12.8	11.0	12.3	13.4	11.2	13.0	11.3	12.0	10.9	12.0	12.6	-1.6
ALL CAUSES	177.2	176.1	173.6	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	74.7
(Number of all deaths)	(1,920)	(1,923)	(1,910)	(2,082)	(2,071)	(2,191)	(2,304)	(2,421)	(2,588)	(2,799)	(3,763)	96.0
<b>FEMALE</b>												
Accidents (unintentional injuries)	22.4	25.2	22.8	24.5	21.3	28.2	26.6	29.3	30.5	32.0	44.6	99.1
Other	15.0	2.1	15.1	16.9	14.7	19.1	17.5	18.6	20.8	23.1	34.5	130.0
Motor vehicle accidents	7.4	9.7	7.7	7.6	6.6	9.1	9.0	10.7	9.7	8.9	10.1	36.5
Malignant neoplasms	14.0	15.7	17.6	17.4	14.0	13.5	16.7	14.5	16.2	14.1	14.5	3.6
Intentional self-harm (suicide)	6.8	8.9	8.7	9.6	9.0	10.5	9.9	11.2	9.6	8.1	10.9	60.3
Diseases of heart	4.6	6.4	7.0	5.6	6.6	7.2	5.1	7.0	6.3	6.1	7.6	65.2
Assault (homicide)	3.5	2.4	4.3	3.4	2.9	3.2	3.7	3.8	3.7	4.0	4.7	34.3
ALL CAUSES	84.4	89.2	94.5	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	66.4
(Number of all deaths)	(876)	(933)	(990)	(1,033)	(991)	(1,080)	(1,137)	(1,123)	(1,139)	(1,174)	(1,614)	84.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	37.8	41.9	38.2	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	132.0
Other	24.1	5.5	23.3	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	185.1
Motor vehicle accidents	13.7	15.2	14.9	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	39.4
Intentional self-harm (suicide)	19.4	20.9	19.1	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	20.1
Malignant neoplasms	13.4	13.3	14.9	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	0.7
Diseases of heart	8.2	10.6	10.3	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	63.4
Assault (homicide)	12.0	10.5	10.3	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	5.8
ALL CAUSES	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5
(Number of all deaths)	(2,796)	(2,856)	(2,900)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	92.3

Notes: <sup>a</sup> Rates are presented per 100,000 persons 20-44 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-16  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	33.5	36.6	32.3	35.4	33.8	40.1	43.9	49.0	55.2	60.6	82.6	146.6
Other	22.0	4.3	20.2	23.9	22.7	25.4	28.9	34.3	39.5	46.1	65.9	199.5
Motor vehicle accidents	11.5	12.4	12.1	11.5	11.1	14.7	15.1	14.8	15.7	14.5	16.7	45.2
Intentional self-harm (suicide)	17.7	18.1	17.0	18.3	16.8	19.0	18.4	19.7	20.6	21.3	20.5	15.8
Malignant neoplasms	13.3	13.5	14.1	15.3	12.7	13.1	13.5	13.0	13.5	12.6	13.7	3.0
Diseases of heart	8.0	9.6	9.5	9.3	9.7	10.1	8.3	10.3	9.2	10.2	13.3	66.3
Assault (homicide)	11.0	10.0	9.5	9.4	8.1	9.6	10.7	11.3	11.1	9.8	12.1	10.0
ALL CAUSES	119.7	120.3	118.8	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	72.3
(Number of all deaths)	(2,203)	(2,232)	(2,215)	(2,451)	(2,422)	(2,557)	(2,676)	(2,783)	(2,986)	(3,224)	(4,270)	93.8
<b>RURAL</b>												
Accidents (unintentional injuries)	63.9	71.9	74.4	74.9	61.2	78.6	77.9	75.3	81.3	80.9	116.3	82.0
Other	36.9	10.3	42.7	50.8	39.6	47.9	51.3	39.4	48.5	52.8	81.6	121.1
Motor vehicle accidents	27.0	33.0	31.7	24.2	21.7	30.8	26.7	36.0	32.8	28.1	34.7	28.5
Intentional self-harm (suicide)	30.2	37.6	32.4	33.6	32.3	32.1	33.5	40.1	43.5	35.0	42.5	40.7
Assault (homicide)	16.0	12.8	14.8	13.0	7.2	10.6	10.6	10.9	10.4	7.9	16.7	4.4
Diseases of heart	9.6	16.7	14.5	14.0	14.4	13.0	10.3	14.3	14.0	12.5	13.6	41.7
Malignant neoplasms	13.8	12.0	19.0	15.4	11.4	13.3	16.7	13.6	12.4	16.2	12.6	-8.7
ALL CAUSES	203.7	210.2	233.4	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	77.4
(Number of all deaths)	(574)	(593)	(662)	(647)	(602)	(657)	(705)	(697)	(712)	(720)	(1,063)	85.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	37.8	41.9	38.2	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	132.0
Other	24.1	5.5	23.3	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	185.1
Motor vehicle accidents	13.7	15.2	14.9	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	39.4
Intentional self-harm (suicide)	19.4	20.9	19.1	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	20.1
Malignant neoplasms	13.4	13.3	14.9	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	0.7
Diseases of heart	8.2	10.6	10.3	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	63.4
Assault (homicide)	12.0	10.5	10.3	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	5.8
ALL CAUSES	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5
(Number of all deaths)	(2,796)	(2,856)	(2,900)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	92.3

Notes: <sup>a</sup> Rates are presented per 100,000 young adults 20-44 years old; <sup>b</sup> The five causes with the greatest number of deaths statewide over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-17  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	159.4	158.7	154.0	169.0	165.6	171.9	178.4	187.7	198.0	216	282.9	77.5
Female	78.4	80.3	81.9	89.2	85.1	90.1	94.0	91.4	95.2	93.8	125.4	59.9
TOTAL	119.7	120.3	118.8	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	72.3
<b>RURAL</b>												
Male	281.0	271.6	288.4	296.4	278.8	294.2	315.6	307.7	332.7	309.8	475.6	69.3
Female	121.6	144.8	174.6	151.6	130.0	149.8	160.1	159.3	135.0	158.9	236.7	94.7
TOTAL	203.7	210.2	233.4	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	77.4
<b>TOTAL</b>												
Male	177.2	176.1	173.6	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	74.7
Female	84.4	89.2	94.5	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	66.4
TOTAL	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5

Notes: <sup>a</sup> Rates are presented per 100,000 persons 20-44 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

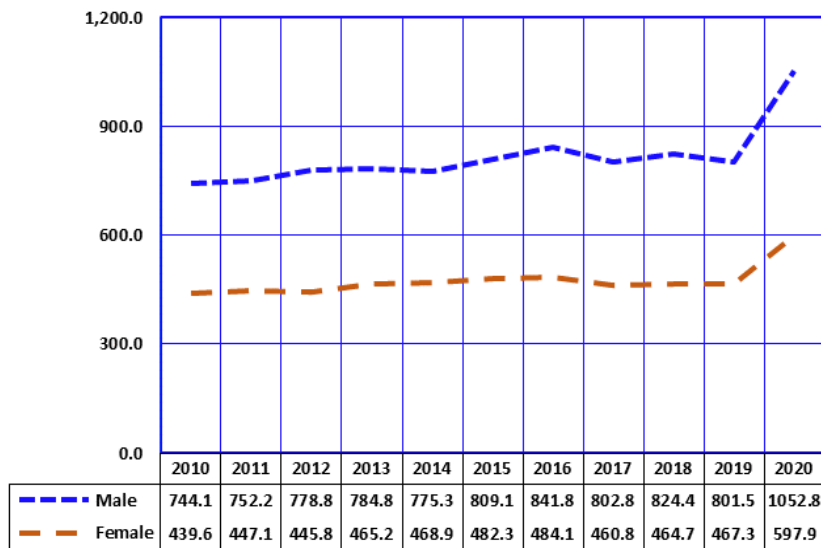
**TABLE 2C-18  
LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity					
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown	
													Male
Accidents (unintentional injury)	2,075	1,562	513	1,710	342	23	929	682	144	293	17	10	
Accidental poisoning	1,456	1,090	366	1,247	193	16	687	474	102	176	9	8	
Motor vehicle accidents	450†	335	116	346	102	*	169	164	28	84	*	*	
Intentional self-harm (suicide)	550†	427	125	424	125	*	319	121	35	63	13	*	
By discharge of firearms	305	255	50	248	56	*	186	71	22	18	8	0	
By other means	250†	172	75	176	69	*	133	50	13	45	*	*	
COVID-19 <sup>‡</sup>	384	246	138	280	102	*	41	174	17	141	11	0	
Malignant neoplasms	320†	153	167	283	37	0	149	115	24	24	7	*	
Malignant neoplasm of lymphoid, hematopoietic and related tissue	50†	32	14	42	*	0	19	21	*	*	*	0	
Malignant neoplasm of breast	50†	0	45	38	7	0	22	10	7	*	*	*	
Malignant neoplasm of meninges, brain and other parts of central nervous system	40†	22	13	32	*	0	20	12	*	*	0	0	
Diseases of heart	320†	230	87	275	40	*	147	84	41	32	12	*	
Assault (homicide)	300†	247	54	250	49	*	74	105	61	54	*	*	
By discharge of firearms	240†	208	36	214	29	*	64	88	55	31	*	*	
By other means	60†	39	18	36	20	*	10	17	6	23	0	*	
Chronic liver disease and cirrhosis	260†	165	99	166	96	*	99	52	0	112	*	0	
Diabetes	110†	70	35	87	18	0	45	31	6	21	*	0	
Cerebrovascular diseases	50†	34	17	43	7	*	24	18	*	*	*	0	
Influenza and pneumonia	50†	33	17	34	15	*	21	16	*	11	0	0	
Obesity	40†	31	11	36	6	0	20	12	*	6	0	0	
Human immunodeficiency virus (HIV) disease	20†	10	*	13	*	0	7	*	*	0	*	0	
<b>Total, all causes</b>	<b>5,377</b>	<b>3,763</b>	<b>1,614</b>	<b>4,270</b>	<b>1,063</b>	<b>44</b>	<b>2,290</b>	<b>1,625</b>	<b>427</b>	<b>925</b>	<b>80</b>	<b>30</b>	

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

2C.AGE-SPECIFIC MORTALITY  
Middle-aged adult mortality (ages 45-64 years)

Figure 2C-19  
Mortality Rates<sup>a</sup> by Gender and Year among Middle-Aged Adults 45-64 Years, Arizona, 2010-2020



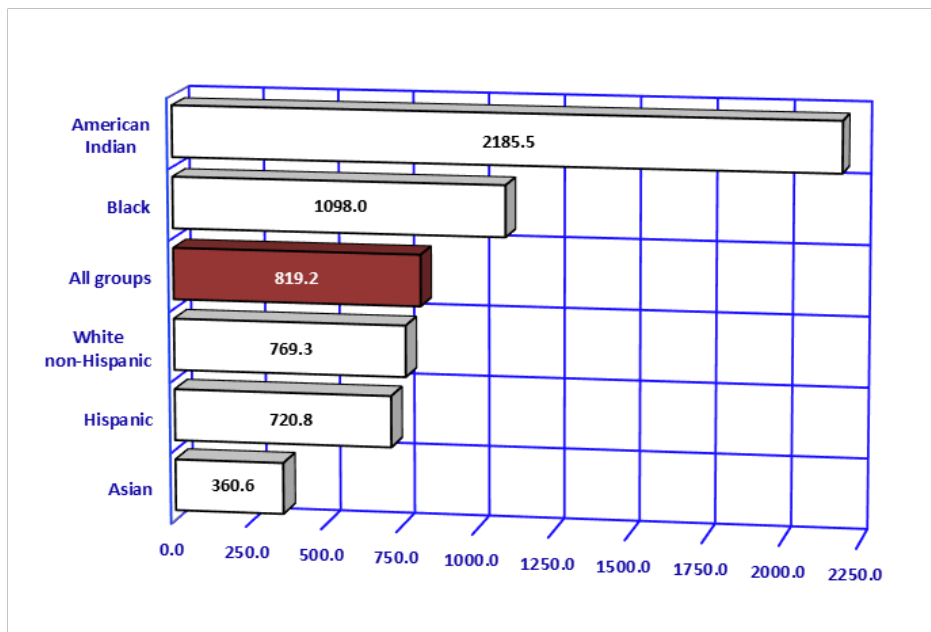
Note: <sup>a</sup> Number of deaths per 100,000 persons, 45-64 years old in specified group.

In 2020, the 1,709,336 middle-aged adult residents aged 45 to 64 experienced 14,003 deaths, or an average of 38 deaths per day. The total number of deaths among 45-64 years old Arizona residents in 2020 (14,003) is higher than the 2019 count (10,834) and 2018, (10,920). Overall, 2020 had the highest number of deaths for the age group of middle-aged adult residents 45-64 years recorded over the time period of 2010-2020 (**Table 2C-19**).

The 2020 total mortality rate among middle-age females was 36.0 percent higher, and among middle-aged males, 41.5 percent higher than their respective rates in 2010 (**Figure 2C-19, Table 2C-19**). In 2020, the mortality rate for males age 45 - 64 was 76.1 percent higher than the female mortality of the same age group.

The five causes with the greatest number of deaths in 2010-2020 were *malignant neoplasms, diseases of heart, accidents, chronic liver disease and cirrhosis, and chronic lower respiratory diseases* (**Table 2C-19**).

Figure 2C-20  
Mortality Rates<sup>a</sup> by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020



Note: <sup>a</sup> Number of deaths per 100,000 persons, 45-64 years old in specified group.

American Indian and Black or African American middle-aged adults had the two highest mortality rates (2185.5/100,000 and 1098.0/100,000, respectively) among the racial/ethnic groups.

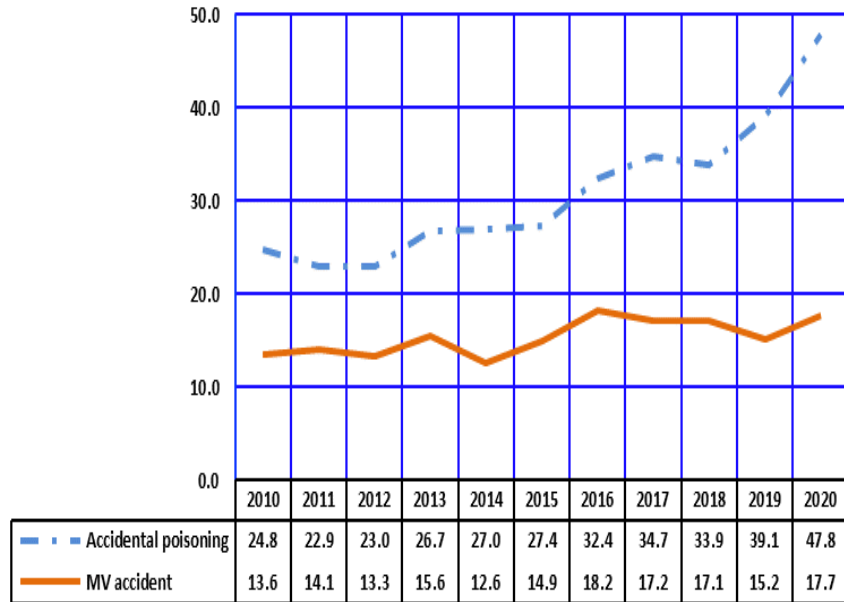
If the 2020 total mortality rate for Asian middle-aged adults applied to all Arizona residents 45-64 years old, 6,164 middle-aged adults would have died rather than the 14,003 who actually did.

2C.AGE-SPECIFIC MORTALITY  
**Middle-aged adult mortality (ages 45-64 years)**

**Figure 2C-21**  
**Mortality Rates<sup>a</sup> for Accidental Poisoning and Motor Vehicle-related Injuries**  
**by Year among Middle-Aged Adults 45-64 Years, Arizona, 2010-2020**

The 2020 mortality rate due to accidental poisoning was 47.8 per 100,000 adults aged 45-64 years, an increase of 22.3 percent from 2019. In 2020, about 817 deaths were attributed to accidental poisoning (Table 2C-22). Of the accidental poisoning deaths in this age group, 739 were drug overdoses (ICD-10 X40-X44) and 71 were alcohol poisoning (ICD-10 X45).

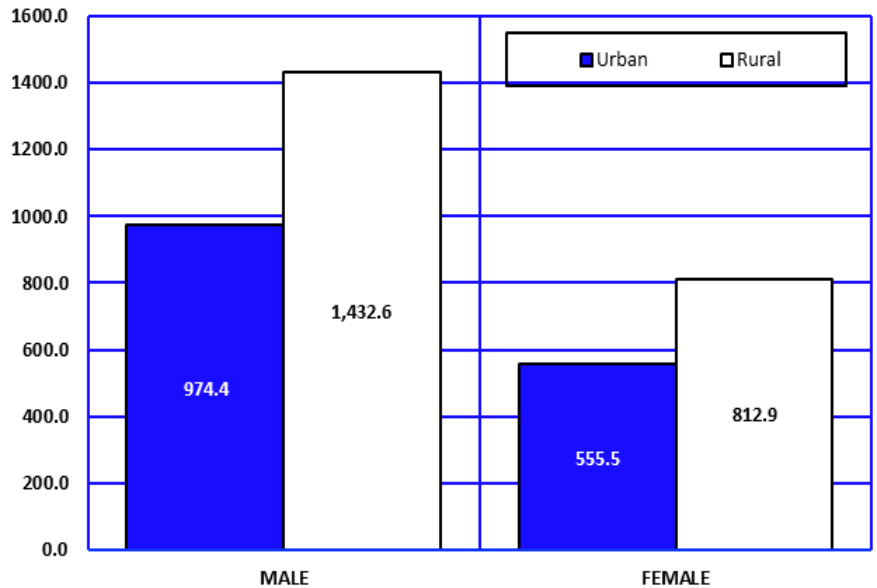
Since 2010, the mortality rate for accidental poisoning exceeded the mortality rate for motor vehicle-related injuries among the middle-aged (Figure 2C-21). In 2020, accidental poisoning mortality rate of 47.8 per 100,000 middle-aged adults was 2.7 times higher than the mortality rate of 17.7 per 100,000 for motor vehicle accidents. White non-Hispanics accounted for about 60.6 percent of all accidental poisoning deaths (Table 2C-22).



Note: <sup>a</sup> Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 45-64 years old in specified group.

**Figure 2C-22**  
**Mortality Rates by Gender in Urban<sup>a</sup> and Rural Areas among**  
**Middle-Aged Adults 45-64 Years, Arizona, 2020**

In 2020, as in the past, rural middle-aged males had the worse survival chances than the remaining of the sub-groups (Figure 2C-22, Table 2C-21). The mortality rate for rural middle-aged males in 2020 was 1.5 times greater than for urban males, 1.8-fold greater than rural females, and 2.6-fold greater than urban females.

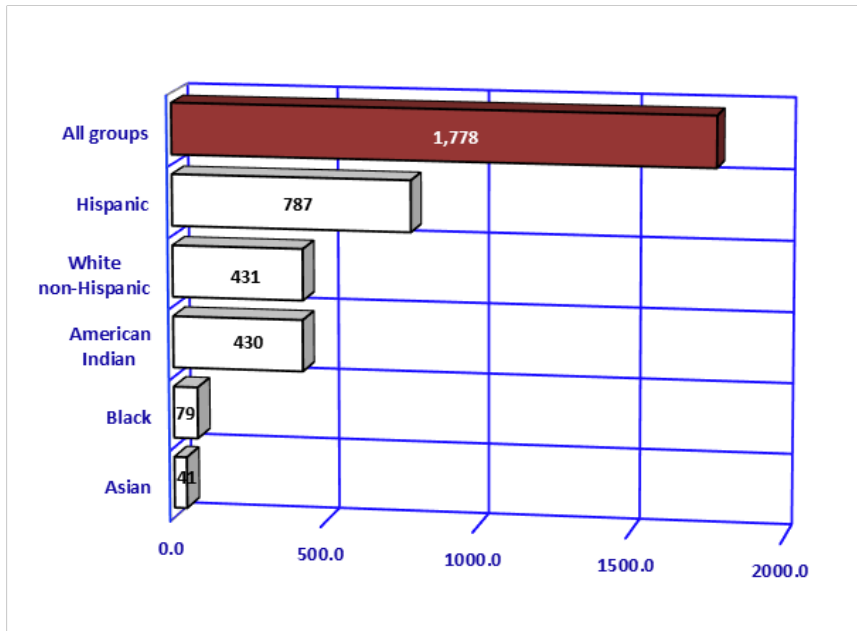


Note: <sup>a</sup> Urban counties include Maricopa, Pima, Pinal, and Yuma counties.



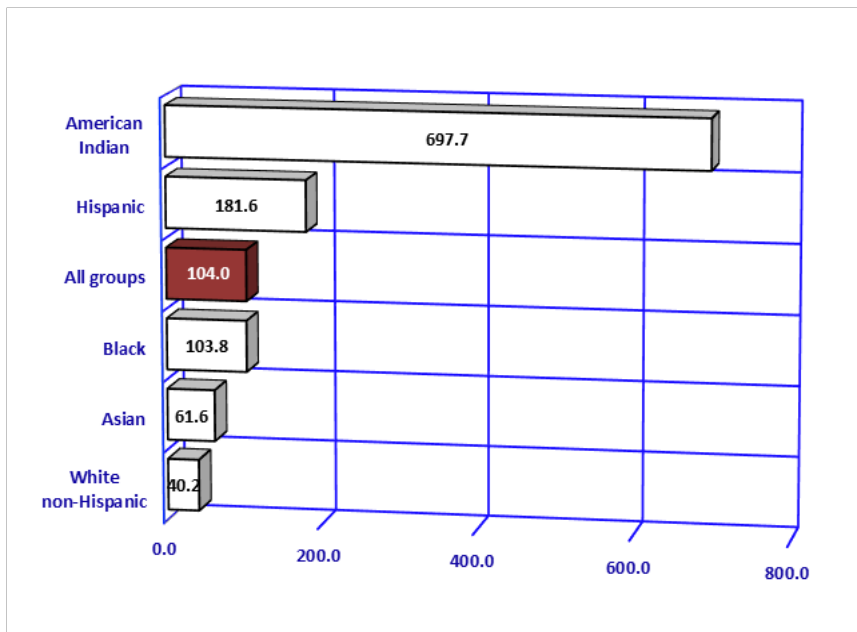
**2C.AGE-SPECIFIC MORTALITY**  
**Middle-aged adult mortality (ages 45-64 years)**

**Figure 2C-23**  
**Mortality for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020**



In 2020, 1,778 Arizona resident middle-aged adults age 45-64 died from COVID-19. Among the deaths, people who identified as Hispanic or Latino represented the largest amount of deaths compared to other race and ethnicities with 44.3% (n= 787) of deaths in this age group. The least impacted race were Asians with 2.3% (n= 41) of deaths in this age group (**Figure 2C-23, Table 2C-22**).

**Figure 2C-24**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020**



The age-specific mortality rate of Arizona resident middle aged adults 45-64 years found the highest risk among American Indians with a rate of 697.7 deaths per 100,000 people aged 45-64. This was nearly seven times the rate among all race/ethnicity groups (104.0 deaths per 100,000 people aged 45-64). People who identified as Hispanic or Latino represented the second highest group with 181.6 deaths per 100,000 people aged 45-64 and was above the average of all groups.

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 45-64 years old in specified group.

**TABLE 2C-19  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)  
BY GENDER, ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Diseases of heart	160.7	165.3	155.1	159.3	143.2	166.6	170.1	164.7	162.5	160.8	186.3	15.9
Malignant neoplasms	188.3	186.3	196.6	191.4	171.5	186.4	184.1	180.7	177.8	175.1	164.9	-12.4
Accidents (unintentional injuries)	69.2	68.9	68.0	77.9	73.5	76.8	100.4	98.8	95.5	105.7	128.1	85.1
Other	54.6	19.8	47.9	54.5	54.0	54.5	71.5	72.1	70.5	82.6	101.0	85.0
Motor vehicle accidents	19.9	21.4	20.1	23.3	19.4	22.3	28.9	26.8	25.0	23.1	27.1	36.2
Chronic liver disease and cirrhosis	42.1	49.6	50.2	46.7	43.1	48.1	47.8	45.5	45.7	43.8	49.7	18.1
Intentional self-harm (suicide)	40.9	41.3	41.8	38.3	37.7	40.3	41.2	37.4	43.3	39.7	38.7	-5.4
ALL CAUSES	744.1	752.2	778.8	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	41.5
(Number of all deaths)	(5,659)	(5,760)	(5,999)	(6,088)	(6,111)	(6,444)	(6,781)	(6,570)	(6,839)	(6,702)	(8,755)	54.7
<b>FEMALE</b>												
Malignant neoplasms	153.9	156.9	155.1	160.7	145.0	155.6	150.9	143.9	146.3	147.5	147.9	-3.9
Diseases of heart	55.9	61.8	60.5	54.6	54.0	60.8	66.7	58.2	62.7	61.9	68.0	21.6
Accidents (unintentional injuries)	36.6	32.8	33.0	38.0	33.7	35.8	38.4	42.2	37.3	38.7	46.7	27.6
Other	29.0	7.4	26.1	29.8	27.4	27.9	30.4	18.6	27.7	31.0	37.8	30.3
Motor vehicle accidents	7.7	7.1	6.9	8.2	6.2	7.9	8.1	8.2	9.7	7.7	8.9	15.6
Diabetes	17.0	21.3	22.3	23.6	22.8	27.4	24.6	22.6	22.1	23.4	30.2	77.6
Chronic lower respiratory diseases	19.3	21.6	24.2	24.8	24.8	23.0	25.8	26.4	27.6	21.3	24.0	24.4
ALL CAUSES	439.6	447.1	445.8	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	36.0
(Number of all deaths)	(3,553)	(3,638)	(3,631)	(3,810)	(3,914)	(4,066)	(4,130)	(3,997)	(4,081)	(4,132)	(5,248)	47.4
<b>TOTAL</b>												
Malignant neoplasms	170.6	171.2	175.2	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	-8.5
Diseases of heart	106.7	112.0	106.5	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	17.6
Accidents (unintentional injuries)	52.4	50.3	50.0	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	64.7
Other	38.8	13.4	36.7	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	76.8
Motor vehicle accidents	13.6	14.1	13.3	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	30.1
Chronic liver disease and cirrhosis	30.2	34.3	35.0	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	32.5
Chronic lower respiratory diseases	20.0	23.6	25.1	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	29.0
ALL CAUSES	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5
(Number of all deaths)	(9,212)	(9,398)	(9,630)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	52.0

Notes: <sup>a</sup> Rates are presented per 100,000 middle-aged adults 45-64 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-20**  
**MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)**  
**IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Malignant neoplasms	164.6	166.5	171.8	169.1	153.8	164.8	162.1	156.3	156.4	153.7	150.9	-8.3
Diseases of heart	98.6	103.9	95.9	96.5	89.5	100.3	106.3	101.7	100.2	103.9	115.5	17.1
Accidents (unintentional injuries)	47.5	45.4	47.6	51.5	47.3	50.2	61.3	61.3	60.0	66.1	82.0	72.6
Other	36.5	12.4	35.7	38.5	36.7	37.8	45.3	46.6	46.0	52.4	65.7	80.0
Motor vehicle accidents	11.1	11.9	11.9	13.0	10.6	12.4	16.0	14.7	14.0	13.6	16.3	46.8
Chronic liver disease and cirrhosis	27.2	30.8	31.5	29.9	31.5	32.6	30.3	30.1	29.9	28.5	33.8	24.3
Chronic lower respiratory diseases	19.2	20.6	22.9	22.6	23.4	25.0	25.9	24.0	24.4	21.0	22.1	15.1
ALL CAUSES	552.4	561.5	575.8	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	37.5
(Number of all deaths)	(7,098)	(7,274)	(7,513)	(7,631)	(7,855)	(8,128)	(8,485)	(8,223)	(8,527)	(8,485)	(10,988)	54.8
<b>RURAL</b>												
Malignant neoplasms	193.1	186.3	187.8	204.7	175.4	196.4	184.3	182.9	186.2	196.3	182.9	-5.3
Diseases of heart	137.4	143.7	152.5	142.2	133.3	163.5	159.6	140.1	162.6	139.1	176.9	28.7
Accidents (unintentional injuries)	66.2	67.6	55.3	75.8	73.3	72.6	83.8	91.5	86.9	94.1	100.0	51.1
Other	42.6	16.5	36.4	51.7	52.8	46.6	58.3	64.2	55.6	71.4	78.0	83.1
Motor vehicle accidents	23.6	22.5	18.9	24.1	20.5	26.0	25.5	27.2	31.3	22.7	22.1	-6.4
Chronic liver disease and cirrhosis	41.9	49.3	47.5	57.1	41.7	59.2	61.9	56.6	53.5	59.7	71.9	71.6
Chronic lower respiratory diseases	22.2	36.3	33.2	32.3	34.1	33.9	37.9	41.7	49.1	35.5	44.5	100.5
ALL CAUSES	708.3	716.6	720.2	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	56.9
(Number of all deaths)	(2,010)	(2,035)	(2,017)	(2,191)	(2,091)	(2,275)	(2,219)	(2,152)	(2,317)	(2,293)	(2,922)	45.4
<b>TOTAL</b>												
Malignant neoplasms	170.6	171.2	175.2	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	-8.5
Diseases of heart	106.7	112.0	106.5	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	17.6
Accidents (unintentional injuries)	52.4	50.3	50.0	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	64.7
Other	38.8	13.4	36.7	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	76.8
Motor vehicle accidents	13.6	14.1	13.3	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	30.1
Chronic liver disease and cirrhosis	30.2	34.3	35.0	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	32.5
Chronic lower respiratory diseases	20.0	23.6	25.1	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	29.0
ALL CAUSES	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5
(Number of all deaths)	(9,212)	(9,398)	(9,630)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	52.0

Notes: <sup>a</sup> Rates are presented per 100,000 middle-aged adults 45-64 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-21  
MORTALITY RATES<sup>a</sup> FOR THE SELECED FIVE LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	690.0	703.5	724.9	726.0	728.1	746.1	769.7	736.7	762.1	743.8	974.4	41.2
Female	423.0	427.8	434.7	441.0	448.0	454.8	464.5	437.4	436.6	436.6	555.5	31.3
TOTAL	552.4	561.5	575.8	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	37.5
<b>RURAL</b>												
Male	924.9	918.6	968.7	1018.5	953.9	1054.9	1079.2	1025.4	1110.2	1080.1	1432.6	54.9
Female	504.0	526.1	486.1	568.8	561.6	603.7	557.3	556.0	596.9	617.8	812.9	61.3
TOTAL	708.3	716.6	720.2	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	56.9
<b>TOTAL</b>												
Male	744.1	752.2	778.8	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	41.5
Female	439.6	447.1	445.8	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	36.0
TOTAL	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5

Notes: <sup>a</sup> Rates are presented per 100,000 persons 45-64 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information.

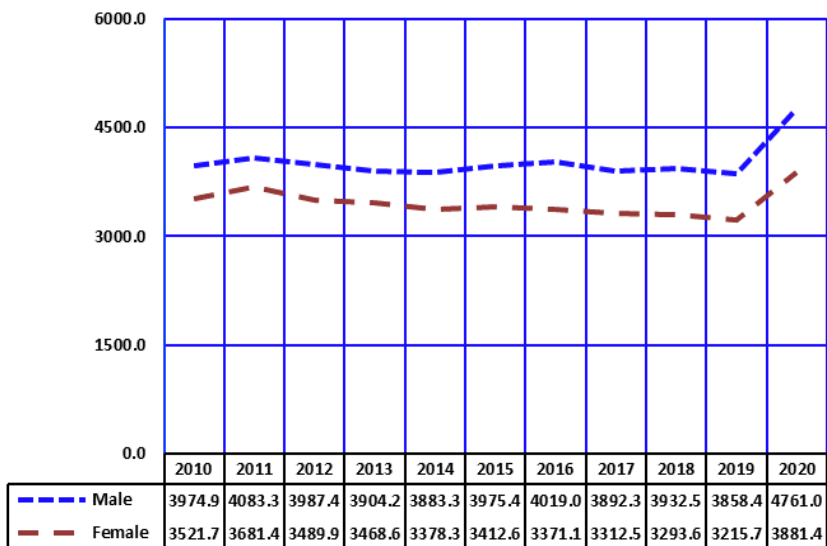
**TABLE 2C-22  
LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity				
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Unknown
Malignant neoplasms	2,669	1,371	1,298	2,183	481	*	1,836	511	152	78	72	20
Malignant neoplasm of trachea, bronchus and lung	460†	230	226	358	96	*	357	46	31	6	13	*
Malignant neoplasm of colon, rectum, and anus	330†	195	138	281	52	0	214	77	18	11	9	*
Malignant neoplasm of breast	270†	*	267	223	48	0	195	48	16	*	7	*
Malignant neoplasm of pancreas	210†	119	92	169	40	*	148	38	11	7	*	*
Diseases of heart	2,146	1,549	597	1,670	465	11	1,422	361	182	99	45	37
COVID-19 <sup>b</sup>	1,778	1,153	625	1,350	418	10	431	787	79	430	41	10
Accidents (unintentional injury)	1,475	1,065	410	1,186	263	26	902	300	90	123	9	51
Accidental poisoning	820†	586	231	683	122	12	495	168	64	59	*	29
Motor vehicle accidents	300†	225	78	236	58	9	181	78	10	22	*	8
Falls	110†	65	42	76	31	0	69	18	*	15	*	0
Diabetes	739	474	265	606	132	*	357	199	60	97	15	11
Chronic liver disease and cirrhosis	680†	413	270	489	189	*	395	142	12	124	*	8
Chronic lower respiratory diseases	440†	230	211	319	117	*	361	38	16	15	*	8
Intentional self-harm (suicide)	420†	322	95	318	97	*	348	44	9	6	6	*
By discharge of firearms	250†	202	43	182	63	0	215	16	6	*	*	*
By other means	170†	120	52	136	34	*	133	28	*	*	*	*
Cerebrovascular diseases	388	218	170	310	72	6	225	85	32	28	10	8
Influenza and pneumonia	210†	136	74	177	33	0	120	50	10	27	*	*
Essential (primary) hypertension and hypertensive renal disease	180†	134	48	159	23	0	103	33	26	18	*	0
Nephritis, nephrotic syndrome and nephrosis	150†	81	64	107	37	*	78	40	8	16	*	0
Assault (homicide)	120†	90	29	93	25	*	56	24	18	14	*	*
By discharge of firearms	80†	58	17	60	15	0	33	16	15	7	*	*
By other means	40†	32	12	33	10	*	23	8	*	7	*	*
Septicemia	110†	49	59	83	22	*	63	17	6	19	*	*
Viral hepatitis	50†	35	18	46	6	*	31	18	*	0	*	*
Human immunodeficiency virus (HIV) disease	40†	34	*	33	*	*	19	10	*	*	0	*
<b>Total, all causes<sup>b</sup></b>	<b>14,003</b>	<b>8,755</b>	<b>5,248</b>	<b>10,988</b>	<b>2,922</b>	<b>93</b>	<b>8,245</b>	<b>3,123</b>	<b>836</b>	<b>1,347</b>	<b>240</b>	<b>212</b>

Note: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to add less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; \* The COVID-19 data collection began in mid-March 2020.

**2C.AGE-SPECIFIC MORTALITY**  
**Elderly mortality (ages 65 years and older)**

**Figure 2C-25**  
**Mortality Rates<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**



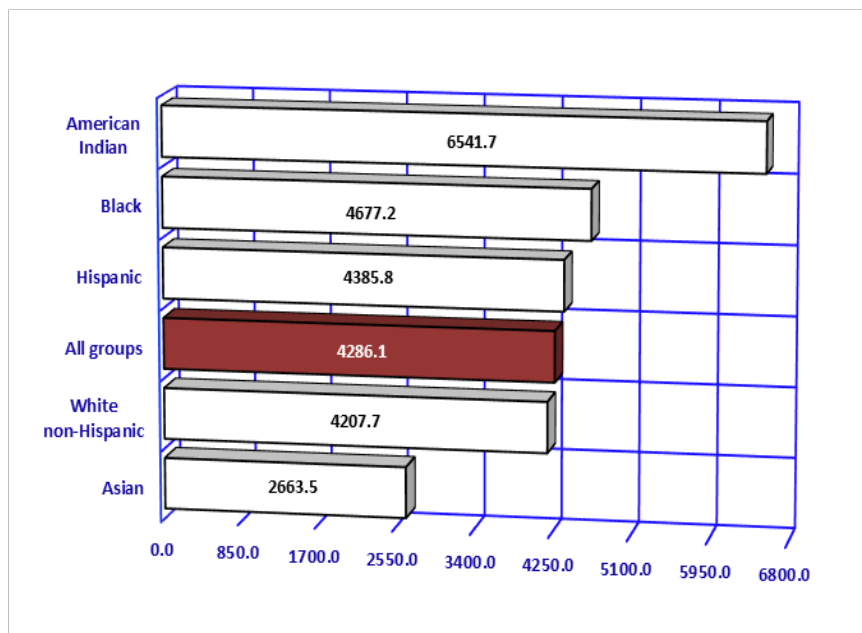
In 2020, an estimated 1,289,810 residents age 65 years and older resided in the state (**Table 10A-1**). No other age group has as great of a disproportionate gender distribution as the elderly. As a result of the higher total mortality rates for males at earlier ages, more elderly women than men were alive in 2020.

The 2020 elderly mortality rate of 4286.1 per 100,000 was 15.0 percent higher than the 2010 rate of 3,728.2 (**Table 2C-23**).

The 2020 total mortality rate among elderly females was 10.2 percent higher than their rate in 2010. The mortality rate among elderly males increased 19.8 percent during the same period (**Figure 2C-25, Table 2C-23**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 65+ years old in specified group.

**Figure 2C-26**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



In 2020 the mortality rate for Arizona's American Indian elderly residents was 2.5 times that of the Asian elderly population. The mortality rate of 2,663.5 /100,000 among elderly Asians was the lowest rate among the racial/ethnic groups (**Figure 2C-26**). White non-Hispanic elderly had the second lowest mortality rate in 2020 at 4,207.7/100,000.

Note: <sup>a</sup> Number of deaths per 100,000 persons, 65+ years old in specified group.

2C.AGE-SPECIFIC MORTALITY  
**Elderly mortality (ages 65 years and older)**

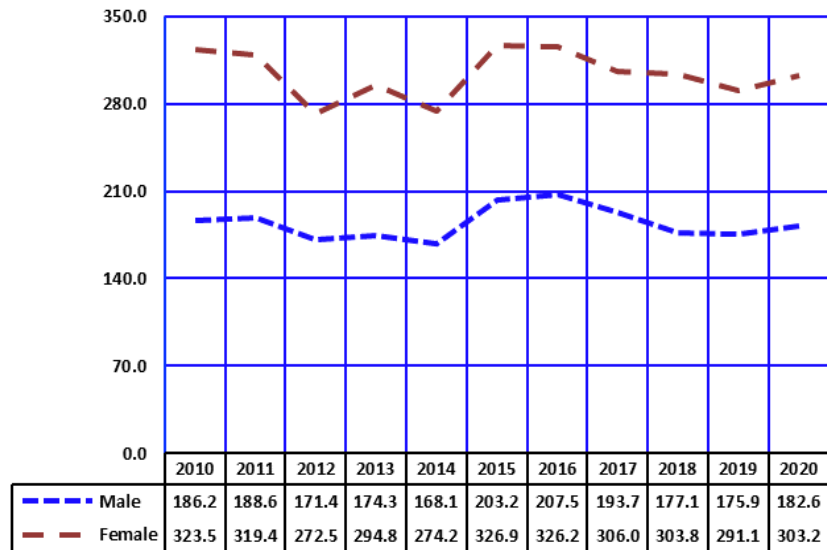
**Tables 2C-23 and 2C-24** provide mortality rates for the five causes with the greatest number of deaths over the 2010-2020 period.

In 2020, Alzheimer’s disease (3,195 deaths; **Table 2C-26**) accounted for 5.8 percent of elderly mortality. From 2019 to 2020, the mortality rate due to Alzheimer’s disease increased for both genders (**Figure 2C-27**).

There were 2,111 deaths from Alzheimer’s disease among elderly females in 2020, approximately twice the number of deaths from this cause among males (1,084; **Table 2C-26**).

White non-Hispanic elderly accounted for 82.1 percent of the 2020 deaths from Alzheimer’s disease (based on data in **Table 2C-26**).

**Figure 2C-27**  
**Trends in Mortality Rates for Alzheimer’s Disease<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**

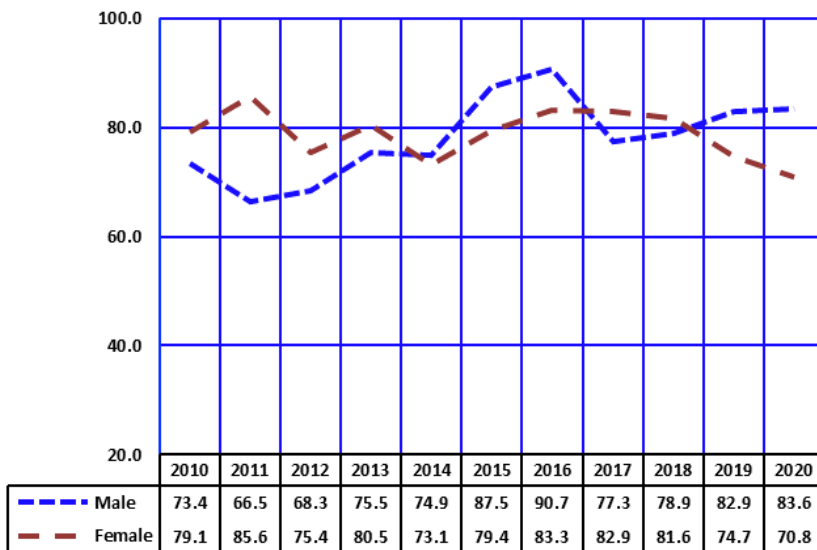


Note: <sup>a</sup> Number of deaths due to Alzheimer’s disease per 100,000 persons, 65+ years old in specified group.

**Figure 2C-28**  
**Trends in Mortality Rates for Falls and Fall-related Injuries<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**

Among unintentional injury deaths unrelated to motor vehicles, Arizona’s elderly experienced high mortality from *fall-related injuries* (**Figure 2C-28**). In 2020, 989 elderly Arizonans 65 years or older died from *fall-related injuries*, compared to 992 in 2019, representing a 0.3 percent decrease between these two years (**Table 2C-26**).

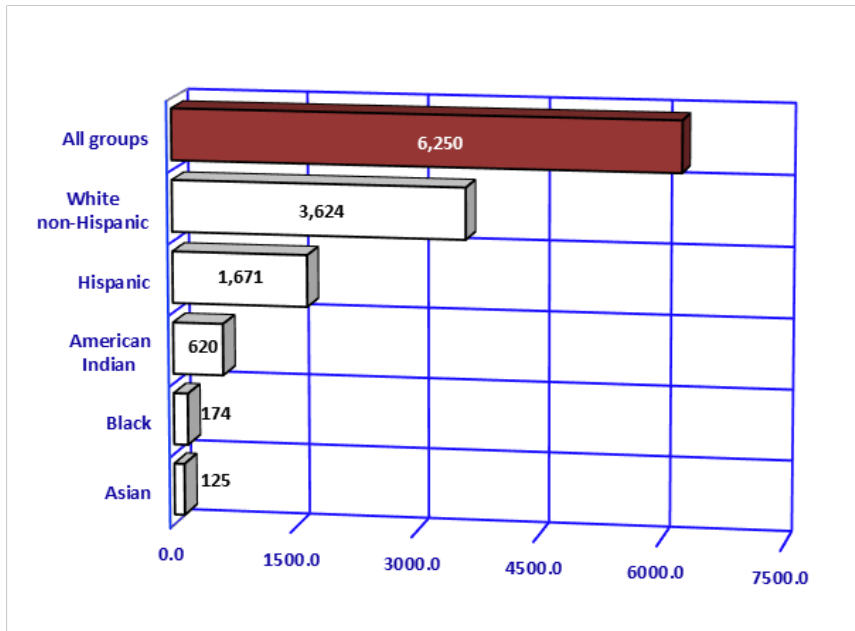
In 2020, Arizonans aged 85 years old or older experienced the largest number of *fall-related deaths* (505), followed by Arizonans 75-84 years old (314), and those aged 65-74 years old (170).



Note: <sup>a</sup> Number of deaths due to falls and fall-related injuries per 100,000 persons, 65+ years old in specified group.

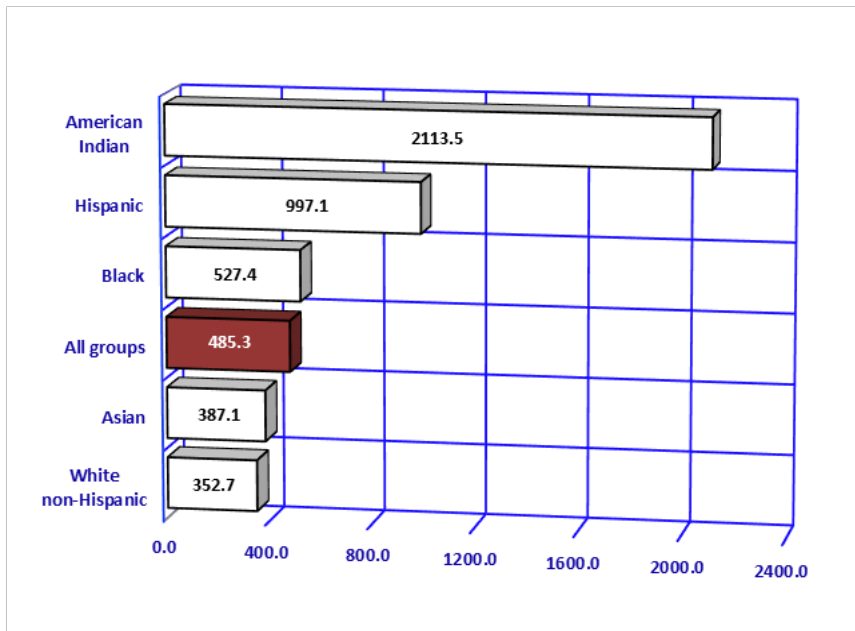
2C.AGE-SPECIFIC MORTALITY  
**Elderly mortality (ages 65 years and older)**

**Figure 2C-29**  
**Mortality for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



In 2020, 6,250 Arizona resident elderly adults 65 years of age and older died from COVID-19. Among the deaths, people who identified as White, non-Hispanic represented the largest amount of deaths compared to other race and ethnicities with 58.0% (n=3,624) of deaths in this age group. The least impacted race were Asians with 2.0% (n=125) of deaths in this age group (**Figure 2C-29, Table 2C-26**).

**Figure 2C-30**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



The age-specific mortality rate of Arizona resident elderly adults 65 years of age and older found the highest risk among American Indians with a rate of 2,113.5 deaths per 100,000 people aged 65 years and older. This was approximately 4.4 times the rate among all race/ethnicity groups (485.3 deaths per 100,000 people aged 65+). People who identified as Hispanic or Latino represented the second highest group with 997.1 deaths per 100,000 people aged 65 years and older (**Figure 2C-30**) and approximately 2.1 times the rate among all race/ethnicity groups.

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 65 years and older in specified group.



**TABLE 2C-23  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Diseases of heart	992.8	1065.5	1022.2	1007.0	908.6	970.0	1003.2	1002.5	984.3	961.0	1062.8	7.1
Malignant neoplasms	1007.7	1007.4	992.6	958.6	899.1	931.7	927.9	893.5	901.1	875.4	888.7	-11.8
Chronic lower respiratory diseases	310.9	318.4	319.9	302.7	290.2	308.7	298.2	288.3	280.8	265.2	260.6	-16.2
Cerebrovascular diseases	169.3	164.4	165.5	151.8	144.4	183.0	176.8	178.6	187.1	181.4	205.2	21.2
Alzheimer's disease	186.2	188.6	171.4	174.3	168.1	203.2	207.5	193.7	177.1	175.9	182.6	-1.9
ALL CAUSES	3974.9	4083.3	3987.4	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	19.8
(Number of all deaths)	(15,967)	(16,517)	(17,101)	(17,489)	(18,292)	(19,665)	(20,781)	(21,144)	(22,030)	(22,480)	(28,258)	77.0
<b>FEMALE</b>												
Diseases of heart	804.8	847.2	794.5	763.7	694.9	756.2	741.0	743.4	726.4	705.3	774.3	-3.8
Malignant neoplasms	702.5	710.9	678.6	697.9	628.1	670.5	642.2	628.7	601.8	624.4	627.5	-10.7
Alzheimer's disease	323.5	319.4	272.5	294.8	274.2	326.9	326.2	306.0	303.8	291.1	303.2	-6.3
Chronic lower respiratory diseases	272.6	301.4	268.6	283.6	248.3	286.8	288.1	271.7	265.6	248.2	240.3	-11.8
Cerebrovascular diseases	229.9	231.0	208.0	198.1	191.1	210.5	218.4	208.0	215.3	207.8	224.3	-2.4
ALL CAUSES	3521.7	3681.4	3489.9	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	10.2
(Number of all deaths)	(16,909)	(17,798)	(17,855)	(18,494)	(18,718)	(19,815)	(20,408)	(21,055)	(21,542)	(21,918)	(27,025)	59.8
<b>TOTAL</b>												
Diseases of heart	890.4	946.8	898.3	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	1.9
Malignant neoplasms	841.5	846.1	821.8	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	-11.1
Chronic lower respiratory diseases	290.1	309.1	292.0	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	-14.0
Alzheimer's disease	260.9	259.8	226.4	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	-5.1
Cerebrovascular diseases	202.3	200.7	188.6	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	6.5
ALL CAUSES	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0
(Number of all deaths)	(32,876)	(34,318)	(34,958)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	68.2

Notes: <sup>a</sup> Rates are presented per 100,000 elderly persons 65 years and older; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-24  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Diseases of heart	888.5	932.0	891.8	862.3	781.0	830.2	835.5	839.1	829.2	822.4	893.4	0.6
Malignant neoplasms	834.0	846.2	825.5	807.6	748.7	783.6	756.6	737.1	724.0	726.2	732.2	-12.2
Alzheimer's disease	284.9	288.9	251.5	272.0	252.6	291.9	286.0	262.6	253.4	249.6	254.7	-10.6
Chronic lower respiratory diseases	288.7	311.3	288.9	286.3	267.8	292.0	285.8	265.3	257.5	238.0	235.6	-18.4
Cerebrovascular diseases	201.5	202.0	192.8	180.1	172.6	198.1	197.5	193.8	203.2	197.2	218.6	8.5
ALL CAUSES	3738.3	3886.0	3740.3	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	13.4
(Number of all deaths)	(26,043)	(27,302)	(27,824)	(28,442)	(29,416)	(31,179)	(32,370)	(33,146)	(34,397)	(35,062)	(43,652)	67.6
<b>RURAL</b>												
Diseases of heart	889.9	990.4	912.5	919.1	834.0	935.2	947.2	940.3	900.8	819.6	950.5	6.8
Malignant neoplasms	864.6	840.5	802.6	847.8	764.5	810.8	828.2	792.5	794.6	788.7	803.9	-7.0
Chronic lower respiratory diseases	291.6	298.9	299.6	314.0	264.3	311.1	311.2	328.6	327.6	323.4	304.0	4.3
Alzheimer's disease	169.6	145.1	130.2	117.2	118.7	184.1	211.9	218.2	211.3	190.6	218.6	28.9
Cerebrovascular diseases	204.1	193.1	171.9	164.1	157.9	195.8	204.0	193.6	196.1	187.2	202.0	-1.0
ALL CAUSES	3657.5	3741.1	3590.0	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	21.3
(Number of all deaths)	(6,773)	(6,935)	(7,058)	(7,505)	(7,526)	(8,196)	(8,653)	(8,905)	(9,099)	(9,241)	(11,525)	70.2
<b>TOTAL</b>												
Diseases of heart	890.4	946.8	898.3	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	1.9
Malignant neoplasms	841.5	846.1	821.8	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	-11.1
Chronic lower respiratory diseases	290.1	309.1	292.0	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	-14.0
Alzheimer's disease	260.9	259.8	226.4	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	-5.1
Cerebrovascular diseases	202.3	200.7	188.6	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	6.5
ALL CAUSES	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0
(Number of all deaths)	(32,876)	(34,318)	(34,958)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	68.2

Notes: <sup>a</sup> Rates are presented per 100,000 elderly persons 65 years and older; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-25  
MORTALITY RATES<sup>a</sup> FOR THE FIVE LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	3976.9	4107.6	3980.1	3898.2	3888.6	3944.3	3960.2	3799.2	3891.3	3816.2	4695.5	18.1
Female	3543.8	3705.0	3543.8	3470.8	3388.5	3405.1	3344.3	3306.7	3297.9	3214.4	3856.4	8.8
TOTAL	3738.3	3886.0	3740.3	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	13.4
<b>RURAL</b>												
Male	3917.1	3948.9	3952.6	3895.3	3826.7	4027.0	4133.9	4142.9	4043.4	3971.6	4952.7	26.4
Female	3418.2	3547.4	3256.0	3454.5	3309.8	3409.1	3435.2	3304.1	3253.6	3188.9	3956.9	15.8
TOTAL	3657.5	3741.1	3590.0	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	21.3
<b>TOTAL</b>												
Male	3974.9	4083.3	3987.4	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	19.8
Female	3521.7	3681.4	3489.9	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	10.2
TOTAL	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0

Notes: <sup>a</sup> Rates are presented per 100,000 persons 65 years and older; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information.

**TABLE 2C-26  
LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity				
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
Diseases of heart	11,699	6,308	5,391	9,202	2,470	27	9,704	1,177	330	244	153	91
Malignant neoplasms	9,644	5,275	4,369	7,541	2,089	14	7,976	1,016	292	171	143	46
Malignant neoplasm of trachea, bronchus and lung	2,119	1,095	1,024	1,628	490	*	1,843	157	66	16	24	13
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,020 <sup>†</sup>	605	416	836	184	*	849	111	24	16	16	*
Malignant neoplasm of colon, rectum, and anus	800 <sup>†</sup>	387	417	625	176	*	648	85	32	19	15	*
Malignant neoplasm of pancreas	790 <sup>†</sup>	422	365	634	151	*	641	79	20	24	18	*
Malignant neoplasm of prostate	720 <sup>†</sup>	722	0	558	164	0	584	85	31	12	7	*
Malignant neoplasm of breast	580 <sup>†</sup>	7	571	450	127	*	467	73	21	*	11	*
COVID-19 <sup>‡</sup>	6,260	3,576	2,684	4,851	1,395	14	3,624	1,671	174	620	125	46
Chronic lower respiratory diseases	3,220	1,547	1,673	2,427	790	*	2,857	221	52	30	28	32
Alzheimer's disease	3,195	1,084	2,111	2,623	568	*	2,623	378	84	39	57	14
Cerebrovascular diseases	2,780	1,218	1,562	2,251	525	*	2,184	375	84	65	59	13
Diabetes	1,716	1,003	713	1,370	343	*	1,048	389	80	141	40	18
Accidents (unintentional injury)	1,550	857	693	1,215	334	*	1,279	148	36	49	19	19
Falls	990 <sup>†</sup>	496	493	806	182	*	853	91	11	23	9	*
Motor vehicle accidents	170 <sup>†</sup>	115	53	125	43	0	130	17	*	6	7	*
Parkinson's disease	990 <sup>†</sup>	638	348	843	142	*	839	89	17	20	19	*
Essential (primary) hypertension and hypertensive disease	931	419	512	787	144	0	698	138	38	34	16	7
Influenza and pneumonia	840 <sup>†</sup>	452	387	674	158	7	612	128	23	56	15	*
Nephritis, nephrotic syndrome and nephrosis	600 <sup>†</sup>	316	287	448	152	*	431	111	20	28	9	*
Septicemia	280 <sup>†</sup>	138	146	217	66	*	190	52	11	24	*	*
<b>Total, all causes<sup>b</sup></b>	<b>55,283</b>	<b>28,258</b>	<b>27,025</b>	<b>43,652</b>	<b>11,525</b>	<b>106</b>	<b>43,239</b>	<b>7,350</b>	<b>1,543</b>	<b>1,919</b>	<b>860</b>	<b>372</b>

Notes: \* Cell suppressed due to count less than 6; <sup>†</sup> Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

# **COMPARATIVE CAUSE-SPECIFIC MORTALITY BY AGE GROUP**

**TABLE 2C-27  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+	Un- known
Total, all causes	75,700	404	240	388	5,377	14,003	55,283	5
Salmonella infections	0†	0	0	0	0	0	*	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0
Certain other intestinal infections	210†	7	*	0	*	40	160	0
Enterocolitis due to Clostridium difficile	120†	0	0	0	*	19	96	0
Tuberculosis	20†	0	0	0	*	6	7	0
Respiratory tuberculosis	10†	0	0	0	*	*	*	0
Other tuberculosis	0†	0	0	0	0	*	*	0
Whooping cough	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0
Septicemia	430†	*	*	*	26	108	284	0
Syphilis	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0†	0	0	0	0	0	*	0
Measles	0	0	0	0	0	0	0	0
Viral hepatitis	100†	0	0	*	*	53	42	0
Human immunodeficiency virus (HIV) disease	73	0	0	0	15	39	19	0
Malaria	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	400†	*	*	*	38	78	278	0
Malignant neoplasms	12,670†	*	25	11	320	2,669	9,644	0
Malignant neoplasm of lip, oral cavity and pharynx	220†	0	0	0	*	68	144	0
Malignant neoplasm of esophagus	310†	0	0	0	*	69	241	0
Malignant neoplasm of stomach	215	0	0	0	11	55	149	0
Malignant neoplasm of colon, rectum, and anus	1,173	0	0	0	36	333	804	0
Malignant neoplasm of liver and intrahepatic bile ducts	630†	0	0	0	*	179	446	0
Malignant neoplasm of pancreas	1,005	0	0	0	7	211	787	0
Malignant neoplasm of larynx	70†	0	0	0	*	17	53	0
Malignant neoplasm of trachea, bronchus and lung	2,592	0	0	0	17	456	2,119	0
Malignant melanoma of skin	212	0	0	0	11	49	152	0
Malignant neoplasm of breast	894	0	0	0	45	271	578	0
Malignant neoplasm of cervix uteri	74	0	0	0	12	28	34	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	210†	0	0	0	*	64	146	0
Malignant neoplasm of ovary	298	0	0	0	15	74	209	0
Malignant neoplasm of prostate	800†	0	0	0	*	72	722	0
Malignant neoplasm of kidney and renal pelvis	340†	0	*	0	6	81	249	0
Malignant neoplasm of bladder	420†	0	0	0	*	30	383	0

**TABLE 2C-27 (continued)  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Malignant neoplasm of meninges, brain and other parts of central nervous system	390†	*	*	*	35	122	224	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,260†	*	10	*	46	181	1,021	0
Hodgkin's disease	20†	0	0	0	*	6	9	0
Non-Hodgkin's lymphoma	452	0	0	0	18	66	368	0
Leukemia	500†	*	10	*	25	63	396	0
Multiple myeloma and immunoproliferative neoplasms	290†	0	0	0	*	45	246	0
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	0	0	0	*	*	0
All other and unspecified malignant neoplasm	1,560†	0	9	*	59	309	1,183	0
In situ neoplasms	420†	*	*	*	8	45	359	0
Anemias	50†	0	0	0	*	7	42	0
Diabetes	2,560†	0	*	*	105	739	1,716	0
Nutritional deficiencies	620†	0	*	0	*	34	586	0
Malnutrition	600†	0	*	0	*	30	568	0
Other nutritional deficiencies	20†	0	0	0	0	*	18	0
Obesity	240†	0	*	*	42	113	85	0
Meningitis	20†	0	0	*	*	7	10	0
Parkinson's disease	1,016	0	0	0	0	30	986	0
Alzheimer's disease	3,235	0	0	0	0	40	3,195	0
Major cardiovascular diseases	19,063	12	10	11	401	2,809	15,820	0
Diseases of heart	14,185	8	6	9	317	2,146	11,699	0
Acute rheumatic fever and chronic rheumatic heart disease	90†	0	0	*	*	13	68	0
Hypertensive heart disease	1,619	0	0	0	49	274	1,296	0
Hypertensive heart and renal disease	180†	0	0	0	*	15	160	0
Ischemic heart disease	8,590†	*	0	*	115	1,337	7,132	0
Acute myocardial infarction	1,899	0	0	0	43	388	1,468	0
Other acute ischemic heart disease	100†	0	0	0	*	31	65	0
Other forms of chronic ischemic heart disease	6,590†	*	0	*	71	918	5,599	0
Atherosclerotic cardiovascular disease	1,742	0	0	0	45	465	1,232	0
All other forms of chronic ischemic heart disease	4,850†	*	0	*	26	453	4,367	0
Other heart diseases	3,714	7	6	7	144	507	3,043	0
Acute and subacute endocarditis	44	0	0	0	8	16	20	0
Diseases of pericardium and acute myocarditis	20†	0	0	0	*	*	14	0
Heart failure	990†	*	0	0	10	86	896	0
All other forms of heart disease	2,658	6	6	7	124	402	2,113	0
Essential (primary) hypertension and hypertensive renal disease	1,130†	*	0	0	17	182	931	0
Cerebrovascular diseases	3,230†	*	*	*	51	388	2,780	0
Atherosclerosis	110	0	0	0	0	9	101	0

**TABLE 2C-27 (continued)**  
**COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Other diseases of circulatory system	410†	*	*	0	16	84	309	0
Aortic aneurysm and dissection	200†	0	*	0	8	52	142	0
Other disease of arteries, arterioles and capillaries	210†	*	0	0	8	32	167	0
Other disorders of circulatory system	150†	*	0	0	21	42	81	0
Influenza and pneumonia	1,110†	*	*	*	50	210	839	0
Influenza	100†	*	*	0	9	29	59	0
Pneumonia	1,010†	*	*	*	41	181	780	0
COVID-19*	8,430†	0	*	*	384	1,778	6,260	0
Other acute lower respiratory infections	10†	0	0	0	0	*	*	0
Acute bronchiolitis	0†	0	0	0	0	*	*	0
Unspecified acute lower respiratory infection	0†	0	0	0	0	*	0	0
Chronic lower respiratory diseases	3,700†	0	*	*	34	441	3,220	0
Bronchitis, chronic and unspecified	10†	0	0	0	0	*	9	0
Emphysema	181	0	0	0	0	25	156	0
Asthma	120†	0	*	*	28	43	47	0
Other chronic lower respiratory diseases	3,390†	0	0	0	*	372	3,008	0
Pneumoconioses and chemical effects	10†	0	0	0	0	*	7	0
Pneumonitis due to solids and liquids	187	0	0	0	6	32	149	0
Other disease of respiratory system	1,090†	6	*	*	28	181	876	0
Peptic ulcer	110†	0	0	0	*	27	83	0
Diseases of appendix	10†	*	0	0	*	*	7	0
Hernia	40†	0	0	0	*	*	37	0
Chronic liver disease and cirrhosis	1,426	0	0	0	264	683	479	0
Alcoholic liver disease	906	0	0	0	228	458	220	0
Other chronic liver disease and cirrhosis	520	0	0	0	36	225	259	0
Cholelithiasis and other disorders of gallbladder	100†	0	0	0	*	10	87	0
Nephritis, nephrotic syndrome and nephrosis	770†	*	0	0	22	145	603	0
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	0	0	0	0	*	6	0
Chronic glomerulonephritis	10†	0	0	0	*	*	6	0
Renal failure	750†	*	0	0	19	142	591	0
Others disorders of kidney	0†	0	0	0	*	0	0	0
Infections of kidney	30†	0	0	0	*	6	19	0
Hyperplasia of prostate	14	0	0	0	0	0	14	0
Inflammatory diseases of female pelvic organs	0†	0	0	0	*	*	*	0
Pregnancy, childbirth and the puerperium	40†	0	0	*	37	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	40†	0	0	*	37	0	0	0



**TABLE 2C-27 (continued)**  
**COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Perinatal conditions	190†	187	6	0	*	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	220†	87	18	*	21	50	35	0
Symptoms, signs, abnormal findings	1,040†	42	8	*	70	142	766	*
Total accidents	5,377	17	76	184	2,075	1,475	1,550	0
Transport accidents	1,040†	*	40	70	451	303	168	0
Motor vehicle accidents	1,130†	*	43	72	477	330	200	0
Other land transport accidents	40†	0	*	0	17	8	14	0
Water, air, space	50†	0	*	*	9	19	18	0
Nontransport accidents	4,252	14	33	112	1,598	1,145	1,350	0
Falls	1,127	0	0	0	31	107	989	0
Accidental discharge of firearms	10†	0	0	*	*	0	0	0
Accidental drowning and submersion	100†	0	20	*	20	29	29	0
Accidental exposure to smoke, fire and flames	50†	0	0	*	10	19	17	0
Accidental poisoning	2,483	0	8	103	1,456	817	99	0
Other and unspecified nontransport accidents	490†	14	*	*	77	173	216	0
Intentional self-harm (suicide)	1,359	0	17	69	552	417	304	0
By discharge of firearms	830†	0	*	40	305	245	234	0
By other means	531	0	13	29	247	172	70	0
Assault (homicide)	530†	*	19	48	301	119	35	0
By discharge of firearms	384	0	7	41	244	75	17	0
By other means	140†	*	12	7	57	44	18	0
Legal intervention	30†	0	0	*	17	9	*	0
Events of undetermined intent	186	9	11	7	78	56	25	0
Discharge of firearms	20†	0	*	*	7	*	*	0
Other and unspecified events of undetermined intent	170†	9	8	*	71	55	21	0
Operations of war	0	0	0	0	0	0	0	0
Complications of medical and surgical care	130†	0	*	*	*	33	88	0
Injury by firearms	1,263	0	14	86	577	330	256	0
Drug-induced deaths	2,670†	*	15	112	1,502	882	153	0
Opioid-induced deaths	1,880†	*	14	105	1,227	473	64	0
Alcohol-induced deaths	1,570†	0	0	*	429	792	352	0

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; the causes of death in this table are classified by the Tenth Revision of the International Classification of Diseases (ICD-10); ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 2C-28  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Total, all causes	1054.8	526.2	19.1	82.3	227.3	819.2	4286.1
Salmonella infections	0.0	0.0	0.0	0.0	0.0	0.0	**
Shigellosis and amebiasis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections	2.9	9.1	**	0.0	**	2.3	12.4
Enterocolitis due to Clostridium difficile	1.6	0.0	0.0	0.0	**	1.1	7.4
Tuberculosis	0.2	0.0	0.0	0.0	**	0.4	0.5
Respiratory tuberculosis	0.2	0.0	0.0	0.0	**	**	**
Other tuberculosis	0.1	0.0	0.0	0.0	0.0	**	**
Whooping cough	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scarlet fever and erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Septicemia	5.9	**	**	**	1.1	6.3	22.0
Syphilis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acute poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arthropod-borne encephalitis	0.0	0.0	0.0	0.0	0.0	0.0	**
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral hepatitis	1.4	0.0	0.0	**	**	3.1	3.3
Human immunodeficiency virus (HIV) disease	1.0	0.0	0.0	0.0	0.6	2.3	1.5
Malaria	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	5.6	**	**	**	1.6	4.6	21.6
Malignant neoplasms	176.6	**	2.0	2.3	13.5	156.1	747.7
Malignant neoplasm of lip, oral cavity and pharynx	3.0	0.0	0.0	0.0	**	4.0	11.2
Malignant neoplasm of esophagus	4.4	0.0	0.0	0.0	**	4.0	18.7
Malignant neoplasm of stomach	3.0	0.0	0.0	0.0	0.5	3.2	11.6
Malignant neoplasm of colon, rectum, and anus	16.3	0.0	0.0	0.0	1.5	19.5	62.3
Malignant neoplasm of liver and intrahepatic bile ducts	8.8	0.0	0.0	0.0	**	10.5	34.6
Malignant neoplasm of pancreas	14.0	0.0	0.0	0.0	0.3	12.3	61.0
Malignant neoplasm of larynx	1.0	0.0	0.0	0.0	**	1.0	4.1
Malignant neoplasm of trachea, bronchus and lung	36.1	0.0	0.0	0.0	0.7	26.7	164.3
Malignant melanoma of skin	3.0	0.0	0.0	0.0	0.5	2.9	11.8
Malignant neoplasm of breast	12.5	0.0	0.0	0.0	1.9	15.9	44.8
Malignant neoplasm of cervix uteri	2.0	0.0	0.0	0.0	1.0	3.2	4.9
Malignant neoplasm of corpus uteri and uterus, part unspecified	5.9	0.0	0.0	0.0	**	7.3	21.0
Malignant neoplasm of ovary	8.3	0.0	0.0	0.0	1.3	8.4	30.0
Malignant neoplasm of prostate	22.3	0.0	0.0	0.0	**	8.7	121.6
Malignant neoplasm of kidney and renal pelvis	4.7	0.0	**	0.0	0.3	4.7	19.3
Malignant neoplasm of bladder	5.8	0.0	0.0	0.0	**	1.8	29.7

**TABLE 2C-28 (continued)  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Malignant neoplasm of meninges, brain and other parts of central nervous system	5.4	**	**	**	1.5	7.1	17.4
Malignant neoplasm of lymphoid, hematopoietic and related tissue	17.6	**	0.8	**	1.9	10.6	79.2
Hodgkin's disease	0.2	0.0	0.0	0.0	**	0.4	0.7
Non-Hodgkin's lymphoma	6.3	0.0	0.0	0.0	0.8	3.9	28.5
Leukemia	7.0	**	0.8	**	1.1	3.7	30.7
Multiple myeloma and immunoproliferative neoplasms	4.1	0.0	0.0	0.0	**	2.6	19.1
Other and unspecified malignant neoplasms of lymphoid tissue	0.0	0.0	0.0	0.0	0.0	**	**
All other and unspecified malignant neoplasm	21.8	0.0	0.7	**	2.5	18.1	91.7
In situ neoplasms	5.8	**	**	**	0.3	2.6	27.8
Anemias	0.8	0.0	0.0	0.0	**	0.4	3.3
Diabetes	35.7	0.0	**	**	4.4	43.2	133.0
Nutritional deficiencies	8.7	0.0	**	0.0	**	2.0	45.4
Malnutrition	8.4	0.0	**	0.0	**	1.8	44.0
Other nutritional deficiencies	0.3	0.0	0.0	0.0	0.0	**	1.4
Obesity	3.4	0.0	**	**	1.8	6.6	6.6
Meningitis	0.3	0.0	0.0	**	**	0.4	0.8
Parkinson's disease	14.2	0.0	0.0	0.0	0.0	1.8	76.4
Alzheimer's disease	45.1	0.0	0.0	0.0	0.0	2.3	247.7
Major cardiovascular diseases	265.6	15.6	0.8	2.3	17.0	164.3	1226.5
Diseases of heart	197.7	10.4	0.5	1.9	13.4	125.5	907.0
Acute rheumatic fever and chronic rheumatic heart disease	1.2	0.0	0.0	**	**	0.8	5.3
Hypertensive heart disease	22.6	0.0	0.0	0.0	2.1	16.0	100.5
Hypertensive heart and renal disease	2.5	0.0	0.0	0.0	**	0.9	12.4
Ischemic heart disease	119.6	**	0.0	**	4.9	78.2	552.9
Acute myocardial infarction	26.5	0.0	0.0	0.0	1.8	22.7	113.8
Other acute ischemic heart disease	1.4	0.0	0.0	0.0	**	1.8	5.0
Other forms of chronic ischemic heart disease	91.8	**	0.0	**	3.0	53.7	434.1
Atherosclerotic cardiovascular disease	24.3	0.0	0.0	0.0	1.9	27.2	95.5
All other forms of chronic ischemic heart disease	67.6	**	0.0	**	1.1	26.5	338.6
Other heart diseases	51.8	9.1	0.5	1.5	6.1	29.7	235.9
Acute and subacute endocarditis	0.6	0.0	0.0	0.0	0.3	0.9	1.6
Diseases of pericardium and acute myocarditis	0.3	0.0	0.0	0.0	**	**	1.1
Heart failure	13.8	**	0.0	0.0	0.4	5.0	69.5
All other forms of heart disease	37.0	7.8	0.5	1.5	5.2	23.5	163.8
Essential (primary) hypertension and hypertensive renal disease	15.8	**	0.0	0.0	0.7	10.6	72.2
Cerebrovascular diseases	44.9	**	**	**	2.2	22.7	215.5
Atherosclerosis	1.5	0.0	0.0	0.0	0.0	0.5	7.8

TABLE 2C-28 (continued)  
**COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Other diseases of circulatory system	5.7	**	**	0.0	0.7	4.9	24.0
Aortic aneurysm and dissection	2.8	0.0	**	0.0	0.3	3.0	11.0
Other disease of arteries, arterioles and capillaries	2.9	**	0.0	0.0	0.3	1.9	12.9
Other disorders of circulatory system	2.0	**	0.0	0.0	0.9	2.5	6.3
Influenza and pneumonia	15.5	**	**	**	2.1	12.3	65.0
Influenza	1.4	**	**	0.0	0.4	1.7	4.6
Pneumonia	14.1	**	**	**	1.7	10.6	60.5
COVID-19 <sup>b</sup>	117.5	0.0	**	**	16.2	104.0	485.3
Other acute lower respiratory infections	0.1	0.0	0.0	0.0	0.0	**	**
Acute bronchiolitis	0.0	0.0	0.0	0.0	0.0	**	**
Unspecified acute lower respiratory infection	0.0	0.0	0.0	0.0	0.0	**	0.0
Chronic lower respiratory diseases	51.5	0.0	**	**	1.4	25.8	249.6
Bronchitis, chronic and unspecified	0.2	0.0	0.0	0.0	**	**	0.7
Emphysema	2.5	0.0	0.0	0.0	0.0	1.5	12.1
Asthma	1.7	0.0	**	**	1.2	2.5	3.6
Other chronic lower respiratory diseases	47.2	0.0	0.0	0.0	**	21.8	233.2
Pneumoconioses and chemical effects	0.1	0.0	0.0	0.0	0.0	**	0.5
Pneumonitis due to solids and liquids	2.6	0.0	0.0	0.0	0.3	1.9	11.6
Other disease of respiratory system	15.2	7.8	**	**	1.2	10.6	67.9
Peptic ulcer	1.6	0.0	0.0	0.0	**	1.6	6.4
Diseases of appendix	0.2	**	0.0	0.0	**	**	0.5
Hernia	0.6	0.0	0.0	0.0	**	**	2.9
Chronic liver disease and cirrhosis	19.9	0.0	0.0	0.0	11.2	40.0	37.1
Alcoholic liver disease	12.6	0.0	0.0	0.0	9.6	26.8	17.1
Other chronic liver disease and cirrhosis	7.2	0.0	0.0	0.0	1.5	13.2	20.1
Cholelithiasis and other disorders of gallbladder	1.4	0.0	0.0	0.0	**	0.6	6.7
Nephritis, nephrotic syndrome and nephrosis	10.8	**	0.0	0.0	0.9	8.5	46.8
Acute and rapidly progressive nephritic and nephrotic syndrome	0.1	0.0	0.0	0.0	0.0	**	0.5
Chronic glomerulonephritis	0.1	0.0	0.0	0.0	**	**	0.5
Renal failure	10.5	**	0.0	0.0	0.8	8.3	45.8
Others disorders of kidney	0.0	0.0	0.0	0.0	**	0.0	0.0
Infections of kidney	0.4	0.0	0.0	0.0	**	0.4	1.5
Hyperplasia of prostate	0.4	0.0	0.0	0.0	0.0	0.0	2.4
Inflammatory diseases of female pelvic organs	0.1	0.0	0.0	0.0	**	**	**
Pregnancy, childbirth and the puerperium	1.1	0.0	0.0	**	3.2	0.0	0.0
Pregnancy with abortive outcome	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	1.1	0.0	0.0	**	3.2	0.0	0.0

**TABLE 2C-28 (continued)  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+
Perinatal conditions	2.7	243.5	0.5	0.0	**	0.0	0.0
Congenital anomalies, deformations and chromosomal abnormalities	3.0	113.3	1.4	**	0.9	2.9	2.7
Symptoms, signs, abnormal findings	14.4	54.7	0.6	**	3.0	8.3	59.4
Total accidents	74.9	22.1	6.0	39.0	87.7	86.3	120.2
Transport accidents	15.7	**	3.4	15.3	20.2	19.3	15.5
Motor vehicle accidents	14.4	**	3.2	14.8	19.1	17.7	13.0
Other land transport accidents	0.6	0.0	**	0.0	0.7	0.5	1.1
Water, air, space	0.7	0.0	**	**	0.4	1.1	1.4
Nontransport accidents	59.2	18.2	2.6	23.8	67.6	67.0	104.7
Falls	15.7	0.0	0.0	0.0	1.3	6.3	76.7
Accidental discharge of firearms	0.1	0.0	0.0	**	**	0.0	0.0
Accidental drowning and submersion	1.4	0.0	1.6	**	0.8	1.7	2.2
Accidental exposure to smoke, fire and flames	0.7	0.0	0.0	**	0.4	1.1	1.3
Accidental poisoning	34.6	0.0	0.6	21.8	61.6	47.8	7.7
Other and unspecified nontransport accidents	6.8	18.2	**	**	3.3	10.1	16.7
Intentional self-harm (suicide)	18.9	0.0	1.3	14.6	23.3	24.4	23.6
By discharge of firearms	11.5	0.0	**	8.5	12.9	14.3	18.1
By other means	7.4	0.0	1.0	6.2	10.4	10.1	5.4
Assault (homicide)	7.3	**	1.5	10.2	12.7	7.0	2.7
By discharge of firearms	5.4	0.0	0.6	8.7	10.3	4.4	1.3
By other means	2.0	**	1.0	1.5	2.4	2.6	1.4
Legal intervention	0.4	0.0	0.0	**	0.7	0.5	**
Events of undetermined intent	2.6	11.7	0.9	1.5	3.3	3.3	1.9
Discharge of firearms	0.2	0.0	**	**	0.3	**	**
Other and unspecified events of undetermined intent	2.4	11.7	0.6	**	3.0	3.2	1.6
Operations of war	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Complications of medical and surgical care	1.8	0.0	**	**	**	1.9	6.8
Injury by firearms <sup>b</sup>	17.6	0.0	1.1	18.2	24.4	19.3	19.8
Drug-induced deaths <sup>b</sup>	37.2	**	1.2	23.8	63.5	51.6	11.9
Opioid-induced deaths	26.3	**	1.1	22.3	51.9	27.7	5.0
Alcohol-induced deaths <sup>b</sup>	21.9	0.0	0.0	**	18.1	46.3	27.3

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> The rates for infants <1 year of age are per 100,000 births; all other rates are per 100,000 population in specified group; the rates for malignant neoplasm of cervix uteri, corpus uteri, ovary, inflammatory disease of female pelvic organs and complications of pregnancy are per 100,000 females; the rates for prostate cancer and hyperplasia of prostate are per 100,000 males; <sup>b</sup> Included in selected categories above; <sup>c</sup> The COVID-19 data collection began in mid-March 2020.





## 2D.

### **PATTERNS OF PREMATURE MORTALITY**

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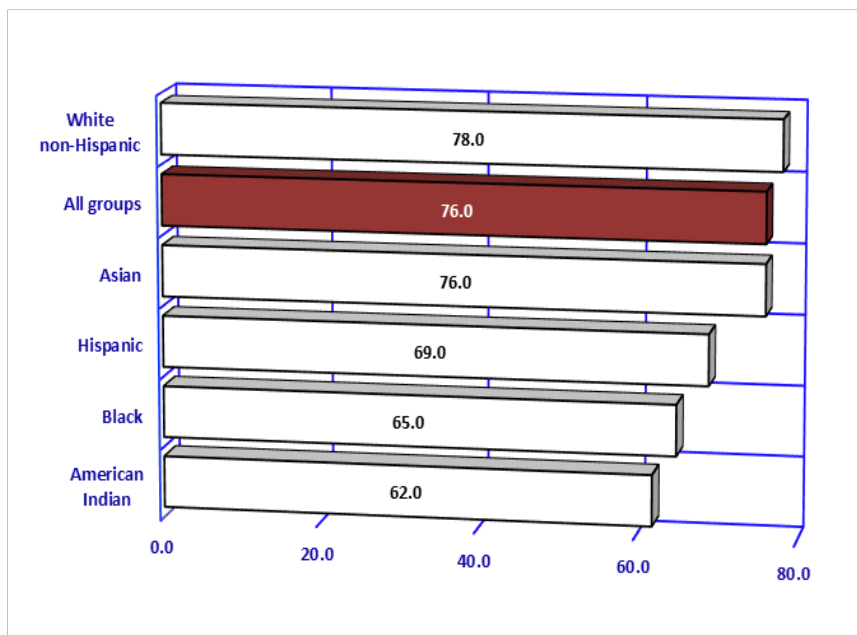
In 2020, among the race/ethnic minority groups (Hispanic or Latino, Black or African American, American Indian or Alaska Native, Asian or Pacific Islander), people younger than 25 years represented 41.9 percent of the group total (n= 3,211,632), while among White non-Hispanics the same age demographic accounted for 24.1 percent of the group total (n= 3,964,769). In contrast, people aged 65 years and older accounted for 25.9 percent of White non-Hispanics, but only 8.2 percent of all ethnic minority groups combined (percentages based on race-and-age-specific population denominators in **Table 10C-1**).

Arizona's population distribution by age and race/ethnicity is related to patterns of mortality among these subgroups. In 2020, of all deaths among the elderly (65 years and older), 78.2 percent were White non-Hispanics, 13.3 percent were Hispanic or Latino, with the remaining three racial/ethnic groups comprising only 7.8 percent of all deaths in this age group (**Table 2C-26**). Looking at younger ages, Native American children comprised only 5.2 percent of Arizona's population age 1-14, but accounted for 9.6 percent of all childhood deaths. Native American adolescents (ages 15-19) represented only 4.8 percent of all adolescents, but accounted for 11.1 percent of all adolescent deaths. Finally, Native American young adults (ages 20-44) represented 4.6 percent of all young adults but comprised 17.2 percent of all young adult deaths. In summary, Arizona's racial/ethnic minority groups tend to experience mortality earlier in life than Arizona's White non-Hispanics.

Beginning with the 2005 edition of the report, information about the arithmetic mean age at death was supplemented with information about the median age, or the age in the center of the distribution when sorted by age (see **Table 2D-1**). The median age is higher than the arithmetic mean age in negatively skewed distributions.

## 2D. PATTERNS OF PREMATURE MORTALITY

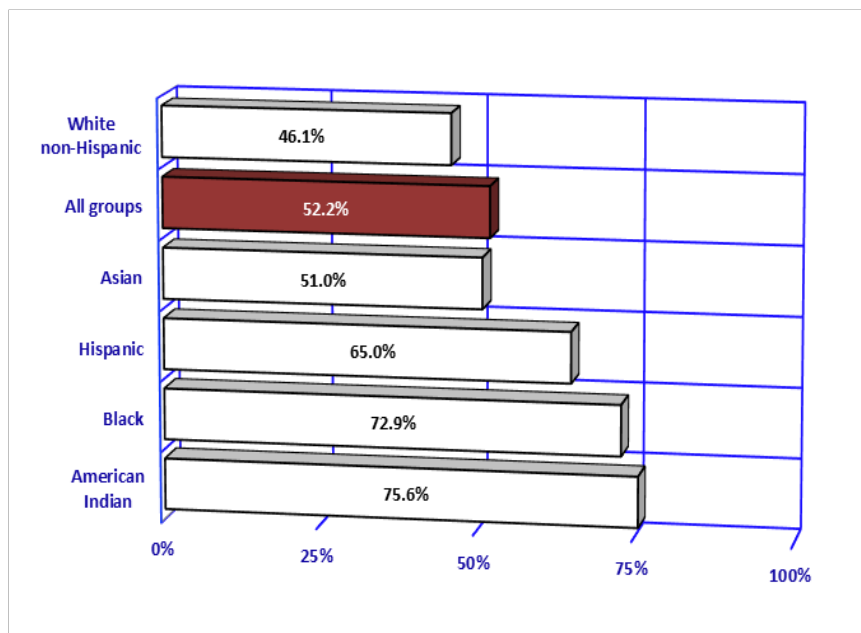
**Figure 2D-1**  
Median Age at Death by Race/Ethnicity, Arizona, 2020



The median age at death remained at 76 years from 2014 to 2020 (**Table 2D-1**). In other words, one of every two Arizonans who died in 2020 was older than 76 years of age. Among Arizona females, the median age at death was 79 years old when they died in 2020. Among males, the median age at death was 73 years in 2020. **Table 2D-1** shows both the median age at death by race/ethnicity and gender from 2010-2020.

In 2020, compared to White non-Hispanics, on average Asians were 2 years younger at time of death, Hispanics were 9 years younger, Blacks were 13 years younger, and American Indian residents of Arizona were 16 years younger (based on the median age at death).

**Figure 2D-2**  
Percent of Deaths before Expected<sup>a</sup> Years of Life Reached by Race/Ethnicity, Arizona, 2020



In 2020, the percent of deaths before expected years of life reached (a premature death ratio) was 52.2 percent, a level that changed from prior years (55.6 in 2019 and 55.1 for both 2018 and 2017 (**Figure 2D-2**)).

As expected, based on the findings for average and median age at death, White non-Hispanics were the only group with about 50 percent of all deaths (46.1 percent) occurring before the expected years of life were reached (**Figure 2D-2**). On average, 66.1 percent of the deaths among racial/ethnic minority groups occurred prematurely.

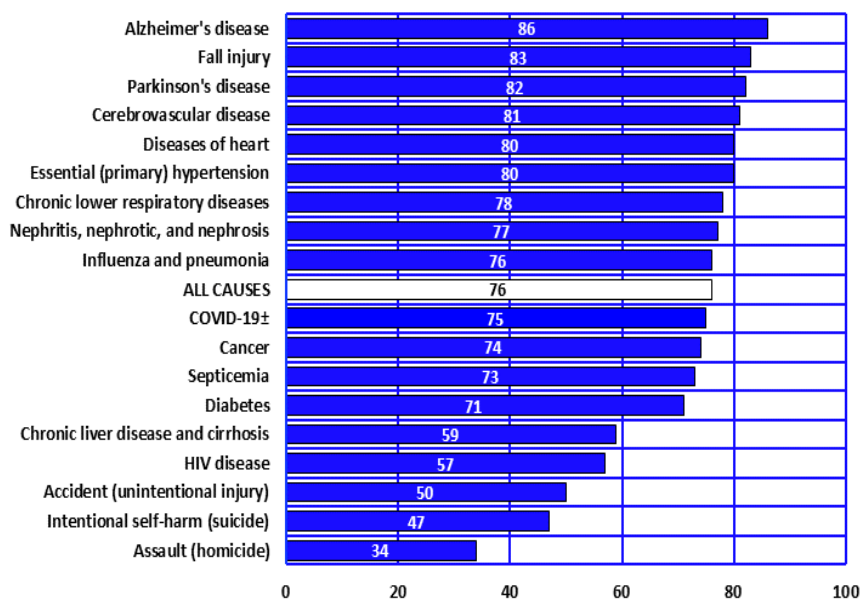
Among American Indians, nearly eight out of ten deaths (75.6 percent) were premature (**Table 2D-2**).

Note: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years).



## 2D. PATTERNS OF PREMATURE MORTALITY

**Figure 2D-3**  
**Median Age at Death for Selected Leading Causes of Death,**  
**Arizona, 2020**



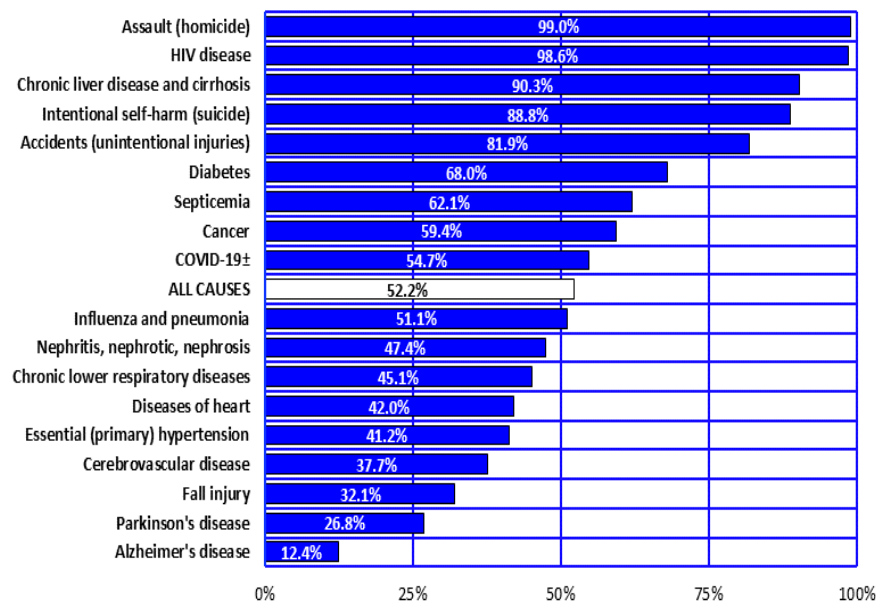
Note: ± The COVID-19 data collection began in mid-March 2020.

In 2020, *Alzheimer's disease* had the highest median age of death at 86 years (**Figure 2D-3**), exceeding by 10 years the median age at death for all causes (**Figure 2D-3, Table 2D-3**).

Among the leading causes of death, *homicide* had the lowest median age at death of 34 years.

From 2010-2015, *cancer* replaced *diseases of the heart* as the leading cause of death (based on the number of deaths). This epidemiologic transition in mortality risks is likely to have long lasting implications for the life expectancy of Arizonans, because the median age at death from *cancer* (74 years) is substantially lower than the median age at death from *diseases of the heart* (80 years).

**Figure 2D-4**  
**Percent of Deaths before Expected Years of Life<sup>a</sup> Reached for**  
**Selected Leading Causes of Death, Arizona, 2020**



Notes: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years);  
 ± The COVID-19 data collection began in mid-March 2020.

Only 12.4 percent of deaths from *Alzheimer's disease* occurred before the age of 77.0 years, i.e., before the expected years of life were reached. In contrast, almost all deaths from *homicide* were premature (99.0 percent; **Figure 2D-4, Table 2D-4**). The median age at death from *homicide* was 34 years in 2020, showing an increase from 33 years recorded in 2019 (**Figure 2D-3, Table 2D-3**).

A minority of deaths from *diseases of heart* were premature (42.0 percent). In contrast 59.4 percent of deaths from *cancer* occurred before the expected years of life were reached.

**TABLE 2D-1  
AVERAGE AND MEDIUM AGE AT DEATH FROM ALL CAUSES BY GENDER AND RACE/ETHNICITY, ARIZONA, 2010-2020**

Year	Gender	All ethnic groups		Race/ethnicity											
		Mean	Median	White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander			
				Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median		
2010	Total	72.1	77.0	74.8	79.0	62.4	68.0	62.6	65.0	57.0	58.0	65.7	71.0		
	Male	69.1	73.0	72.1	75.0	58.3	63.0	60.5	63.0	52.7	53.0	64.2	70.0		
	Female	75.4	80.0	77.7	82.0	67.4	74.0	65.3	69.0	62.6	65.0	67.4	74.0		
2011	Total	72.8	77.0	75.3	79.0	63.6	68.0	63.6	66.0	58.4	60.0	68.2	72.0		
	Male	69.7	73.0	72.5	76.0	59.8	63.0	61.0	64.0	54.4	54.0	65.6	69.0		
	Female	76.2	81.0	78.3	82.0	68.5	75.0	66.6	69.0	63.2	67.0	70.8	75.0		
2012	Total	72.7	77.0	75.2	78.8	63.8	68.8	62.6	65.9	57.8	59.8	68.6	73.1		
	Male	69.9	73.7	72.6	75.9	60.7	64.3	59.6	63.2	54.3	55.5	64.2	68.7		
	Female	75.9	80.6	78.1	82.1	67.8	74.7	66.0	69.6	62.0	65.0	72.3	78.5		
2013	Total	72.5	77.0	75.2	79.0	64.3	69.0	63.1	66.0	58.3	60.0	70.9	76.0		
	Male	69.6	74.0	72.6	76.0	60.6	64.0	59.5	63.0	54.7	55.0	68.4	73.0		
	Female	75.8	81.0	78.0	82.0	68.6	75.0	67.7	73.0	63.1	67.0	73.3	78.0		
2014	Total	72.7	76.0	75.1	78.0	64.7	69.0	62.7	65.0	59.3	61.0	70.3	74.0		
	Male	70.0	73.0	72.6	75.0	61.7	65.0	60.5	63.0	55.7	57.0	66.2	71.0		
	Female	75.8	80.0	77.9	81.0	68.4	74.0	65.3	67.0	63.8	66.0	74.1	79.0		
2015	Total	72.5	76.0	74.9	78.0	64.8	69.0	62.8	66.0	58.5	60.0	70.0	75.0		
	Male	69.9	73.0	72.5	75.0	61.7	66.0	60.4	64.0	55.0	56.0	67.3	71.0		
	Female	75.5	79.0	77.5	81.0	68.7	74.0	65.9	69.0	62.9	66.0	72.6	77.0		
2016	Total	72.9	76.0	75.4	78.0	65.0	69.0	63.4	66.0	58.9	60.0	69.2	74.0		
	Male	70.3	73.0	73.2	75.0	61.9	65.0	60.3	63.0	55.8	56.0	65.1	69.5		
	Female	75.9	79.0	78.0	81.0	69.1	75.0	67.6	71.0	63.3	66.0	72.9	78.0		
2017	Total	72.6	76.0	75.2	78.0	64.9	69.0	62.7	65.0	58.9	61.0	70.3	75.0		
	Male	69.9	73.0	72.8	76.0	61.5	65.0	58.7	62.0	55.7	57.0	67.6	72.0		
	Female	75.8	79.0	77.9	81.0	69.3	75.0	67.8	69.0	63.1	67.0	72.7	77.0		
2018	Total	72.5	76.0	75.2	78.0	65.2	70.0	63.5	67.0	58.2	60.0	71.2	75.0		
	Male	69.7	73.0	72.8	76.0	61.4	65.0	60.2	63.0	54.7	56.0	68.3	72.0		
	Female	75.9	80.0	77.9	81.0	70.2	76.0	67.3	70.0	62.9	66.0	73.8	78.0		
2019	Total	72.5	76.0	75.3	78.0	65.0	70.0	62.3	66.0	59.7	62.0	69.9	74.0		
	Male	69.8	74.0	72.9	76.0	61.1	65.0	59.9	65.0	56.5	58.0	66.5	71.0		
	Female	75.7	79.0	78.0	81.0	70.0	75.0	65.1	68.0	63.8	67.0	73.5	77.0		
2020	Total	72.1	76.0	75.3	78.0	65.4	69.0	62.1	65.0	60.2	62.0	72.0	76.0		
	Male	69.5	73.0	73.0	76.0	62.1	66.0	59.3	63.0	57.4	59.0	68.0	72.0		
	Female	75.4	79.0	77.8	80.0	70.0	74.0	66.2	69.0	63.7	66.0	75.9	79.0		

Notes: Average age at death = the arithmetic mean of the ages of Arizonans who died in a given year; Median age at death = the middle of the age distribution; half died at age greater than the median and half at age below the median; The mean is lower than the median in negatively skewed distributions.

**TABLE 2D-2  
PERCENT OF DEATHS BEFORE EXPECTED YEARS OF LIFE REACHED  
BY GENDER AND RACE/ETHNICITY, ARIZONA, 2010-2020**

<b>Year/gender</b>	<b>All racial/ethnic groups</b>	<b>White non-Hispanic</b>	<b>Hispanic or Latino</b>	<b>Black or African American</b>	<b>American Indian or Alaska Native</b>	<b>Asian or Pacific Islander</b>
<b>2010 Total</b>	54.5	49.9	68.7	73.4	79.6	65.1
<b>Male</b>	62.4	57.8	76.2	78.4	85.3	69.0
<b>Female</b>	45.8	41.5	59.5	67.4	71.9	60.7
<b>2011 Total</b>	53.8	49.6	67.4	74.4	77.7	66.3
<b>Male</b>	61.8	57.5	75.4	80.7	84.3	71.3
<b>Female</b>	45.1	41.2	57.3	67.1	70.0	61.5
<b>2012 Total</b>	55.0	50.9	68.4	74.4	78.7	62.3
<b>Male</b>	62.3	58.1	75.7	81.6	83.9	74.2
<b>Female</b>	46.7	43.0	59.1	66.1	72.2	51.9
<b>2013 Total</b>	54.6	50.1	67.1	72.8	76.7	58.9
<b>Male</b>	62.0	57.5	75.0	80.8	82.7	65.0
<b>Female</b>	46.2	42.1	57.7	62.4	68.9	53.2
<b>2014<sup>a</sup> Total</b>	54.8	50.9	66.7	75.2	77.8	58.9
<b>Male</b>	62.0	58.0	74.1	79.7	84.1	68.9
<b>Female</b>	46.7	43.1	57.7	69.8	69.8	49.7
<b>2015<sup>a</sup> Total</b>	54.9	50.9	67.4	74.1	77.4	59.9
<b>Male</b>	61.6	57.6	73.9	78.5	83.2	66.8
<b>Female</b>	47.2	43.4	59.1	68.6	70.2	53.1
<b>2016 Total</b>	55.3	51.4	66.7	73.5	77.1	58.5
<b>Male</b>	62.1	57.9	73.4	79.9	82.4	67.3
<b>Female</b>	47.5	44.1	57.9	64.9	69.7	50.6
<b>2017 Total</b>	55.1	50.6	67.0	75.1	77.9	58.7
<b>Male</b>	61.8	57.0	74.1	82.0	84.0	63.1
<b>Female</b>	47.3	43.3	58.0	66.1	69.9	54.7
<b>2018 Total</b>	55.1	50.8	65.6	73.3	78.8	57.7
<b>Male</b>	62.1	57.4	73.4	80.3	83.9	64.9
<b>Female</b>	46.9	43.2	55.1	65.2	71.9	51.2
<b>2019 Total</b>	55.6	50.8	67.3	75.3	77.8	60.2
<b>Male</b>	61.9	56.9	74.7	78.8	82.8	67.7
<b>Female</b>	48.2	43.9	57.9	71.0	71.5	52.3
<b>2020 Total</b>	52.2	46.1	65.0	72.9	75.6	51.0
<b>Male</b>	58.6	52.0	72.1	78.1	80.7	58.2
<b>Female</b>	44.5	39.3	55.0	65.3	69.1	44.2

Note: <sup>a</sup> Based on updated expected years of life at birth for all U.S. residents (77.0 years in 2020).

**TABLE 2D-3  
MEDIAN AGE AT DEATH FOR LEADING CAUSES OF MORTALITY BY GENDER, RACE/ETHNICITY, AND  
URBAN/RURAL AREAS<sup>a</sup>, ARIZONA, 2020**

	ARIZONA						Area/gender					Race/ethnicity				
	Total	Male	Female	Total Urban		Total Rural		Rural Male	Rural Female	White Non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
				Urban Male	Urban Female	Urban Male	Urban Female									
<b>Total, all causes</b>	76.0	73.0	79.0	76.0	73.0	79.0	75.0	73.0	78.0	69.0	65.0	62.0	76.0			
<b>Major cardiovascular diseases</b>	80.0	77.0	83.0	80.0	77.0	84.0	79.0	77.0	81.0	81.0	69.0	70.0	78.0			
<b>Diseases of heart</b>	80.0	77.0	84.0	80.0	77.0	84.0	78.0	76.0	81.0	81.0	68.0	70.0	78.0			
<b>Coronary heart disease</b>	79.0	76.0	84.0	80.0	76.0	84.0	78.0	76.0	81.0	80.0	68.0	71.0	77.0			
<b>Malignant neoplasms</b>	74.0	74.0	73.0	73.0	73.0	73.0	74.0	74.0	74.0	75.0	68.0	70.0	71.0			
<b>Lung cancer</b>	74.0	74.0	75.0	74.0	74.0	75.0	74.0	74.0	75.0	73.0	70.0	70.0	71.0			
<b>Prostate cancer</b>	79.0	79.0	0.0	79.0	79.0	0.0	79.0	79.0	0.0	80.0	73.0	82.0	77.0			
<b>Breast cancer</b>	71.0	70.0	71.0	71.0	64.5	71.0	72.5	77.0	72.0	73.0	63.5	46.0	70.5			
<b>Colorectal cancer</b>	72.0	70.0	73.0	71.0	69.0	73.0	73.0	72.5	74.0	73.0	66.0	69.5	66.5			
<b>Malignant melanoma of skin</b>	71.5	71.0	75.0	72.0	71.0	76.0	71.0	72.5	70.0	73.0	78.0	80.5	61.5			
<b>Cerebrovascular diseases</b>	81.0	78.0	83.0	81.0	78.0	83.0	80.0	77.0	82.0	77.0	72.0	73.0	78.0			
<b>Chronic lower respiratory diseases</b>	78.0	77.0	79.0	78.0	77.0	79.0	77.0	77.0	77.0	78.0	70.0	73.0	79.0			
<b>Accidents (unintentional injuries)</b>	50.0	46.0	58.0	49.0	45.0	58.0	54.0	51.5	59.0	58.0	40.0	38.0	49.5			
<b>Motor vehicle accidents</b>	41.0	41.0	41.0	41.0	41.0	43.0	40.0	41.5	37.0	53.0	31.0	34.0	53.5			
<b>Falls</b>	83.0	81.0	85.0	84.0	82.0	86.0	80.0	76.0	84.0	84.0	81.0	64.5	87.0			
<b>Accidental poisoning</b>	38.0	37.0	39.0	37.0	37.0	38.0	40.0	40.0	44.0	41.0	33.0	36.0	32.0			
<b>Accidental drowning</b>	51.0	46.0	62.0	51.0	46.0	62.0	54.0	57.0	44.0	55.5	45.0	35.0	44.0			
<b>Influenza and pneumonia</b>	76.0	74.0	78.0	76.0	75.0	79.0	76.0	73.5	77.0	78.0	68.0	70.0	85.5			
<b>COVID-19<sup>b</sup></b>	75.0	74.0	77.0	75.0	74.0	77.0	74.0	73.0	76.0	80.0	69.5	65.0	74.0			
<b>Alzheimer's disease</b>	86.0	85.0	88.0	87.0	85.0	88.0	85.0	85.0	86.0	87.0	85.0	85.5	88.0			
<b>Diabetes</b>	71.0	70.0	72.0	71.0	69.0	72.0	71.0	71.0	72.0	72.0	67.0	66.0	71.0			
<b>Intentional self-harm (suicide)</b>	47.0	48.0	44.0	46.0	47.5	44.0	50.0	50.0	49.0	54.0	30.0	28.0	38.0			
<b>Chronic liver disease and cirrhosis</b>	59.0	59.0	59.5	60.0	60.5	60.0	58.0	58.0	58.0	62.0	61.0	49.0	67.0			
<b>Nephritis, nephrotic syndrome and nephrosis</b>	77.0	77.0	77.0	77.0	77.0	76.0	78.0	78.0	80.0	79.0	70.0	70.0	78.5			
<b>Septicemia</b>	73.0	72.0	73.0	73.0	71.0	74.0	72.5	76.5	70.0	73.0	60.0	69.0	71.0			
<b>Assault (homicide)</b>	34.0	34.0	37.0	33.0	32.0	36.5	38.0	38.0	38.0	45.0	28.5	35.0	43.0			
<b>Parkinson's disease</b>	82.0	81.0	83.0	82.0	81.0	83.0	82.0	82.0	83.0	82.0	73.0	80.0	82.0			
<b>Essential (primary) hypertension and hypertensive renal disease</b>	80.0	76.0	84.0	80.0	76.0	84.0	80.0	77.0	83.0	82.0	67.0	70.5	86.0			
<b>Human immunodeficiency virus (HIV) disease</b>	57.0	56.0	59.0	56.5	56.0	58.5	63.0	57.5	65.0	58.0	50.0	50.5	44.0			
<b>Injury by firearms</b>	41.0	41.0	42.0	40.0	39.0	41.0	51.0	51.0	50.5	54.0	30.0	30.0	37.0			
<b>Drug-induced deaths</b>	38.0	37.0	41.0	38.0	37.0	40.0	40.0	38.0	46.0	42.0	37.0	33.0	30.5			
<b>Opioid-induced deaths</b>	34.0	33.0	37.0	34.0	33.0	37.0	36.0	34.0	43.0	37.0	31.0	31.0	23.0			
<b>Alcohol-induced deaths</b>	56.0	56.0	54.0	56.0	57.0	54.0	54.0	54.0	55.0	58.0	50.0	45.0	46.0			

Notes: <sup>a</sup> Urban = Maricopa, Pima, and Yuma counties; median age at death = the middle of the age distribution; half died at age greater than the median and half at age below the median; <sup>b</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2D-4  
PERCENT DEATHS BEFORE EXPECTED<sup>a</sup> YEARS OF LIFE REACHED FOR THE LEADING CAUSES OF MORTALITY BY  
GENDER, RACE/ETHNICITY, AND URBAN/RURAL AREAS<sup>b</sup>, ARIZONA, 2020**

	ARIZONA			Area/gender					Race/ethnicity						
	Total	Male	Female	Total	Urban	Urban Male	Urban Female	Total Rural	Rural Male	Rural Female	White Non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>Total, all causes</b>	52.2%	58.6%	44.5%	51.7%	58.5%	43.7%	53.7%	58.7%	47.3%	46.1%	65.0%	72.9%	75.6%	51.0%	
<b>Major cardiovascular diseases</b>	41.4%	49.5%	31.8%	40.7%	49.2%	30.8%	44.1%	50.2%	35.9%	37.5%	50.8%	66.6%	62.4%	45.7%	
<b>Diseases of heart</b>	42.0%	49.8%	31.7%	41.1%	49.4%	30.5%	45.1%	50.8%	36.7%	38.1%	52.3%	66.8%	64.1%	47.1%	
<b>Coronary heart disease</b>	43.1%	51.1%	31.4%	42.2%	50.7%	30.0%	46.1%	51.8%	36.6%	39.7%	51.6%	67.5%	62.1%	49.4%	
<b>Malignant neoplasms</b>	59.4%	59.6%	59.1%	59.8%	60.1%	59.4%	57.8%	57.7%	57.9%	56.4%	70.4%	74.2%	66.1%	66.2%	
<b>Lung cancer</b>	58.6%	59.7%	57.4%	58.8%	60.0%	57.6%	57.6%	58.3%	56.7%	57.1%	64.9%	75.0%	65.2%	59.5%	
<b>Colorectal cancer</b>	62.9%	67.6%	58.0%	62.9%	68.1%	57.5%	62.5%	65.6%	59.1%	58.3%	76.7%	81.1%	73.3%	75.0%	
<b>Breast cancer</b>	64.4%	63.6%	64.4%	65.7%	75.0%	65.6%	59.9%	33.3%	60.3%	61.4%	73.3%	77.3%	88.9%	65.0%	
<b>Prostate cancer</b>	40.0%	40.0%	0.0%	39.6%	39.6%	0.0%	41.2%	41.2%	0.0%	36.8%	55.1%	61.0%	15.4%	42.9%	
<b>Malignant melanoma of skin</b>	62.3%	63.6%	59.0%	61.7%	64.1%	56.0%	64.4%	61.8%	72.7%	60.6%	85.7%	0.0%	50.0%	100.0%	
<b>Accidents (unintentional injuries)</b>	81.9%	86.9%	70.9%	81.9%	87.2%	70.2%	81.2%	85.2%	73.1%	74.1%	93.0%	96.2%	94.9%	75.0%	
<b>Accidental poisoning</b>	99.8%	99.9%	99.5%	99.9%	100.0%	99.5%	99.7%	99.6%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	
<b>Falls</b>	32.1%	38.6%	25.1%	29.7%	35.2%	23.9%	41.8%	50.4%	31.0%	29.1%	40.2%	62.5%	63.0%	27.3%	
<b>Motor vehicle accidents</b>	93.8%	94.4%	92.4%	93.9%	95.3%	90.2%	93.0%	90.6%	98.6%	89.4%	99.0%	100.0%	98.4%	83.3%	
<b>Accidental drowning</b>	85.9%	91.2%	74.2%	84.7%	89.5%	75.0%	92.3%	100.0%	66.7%	82.4%	95.0%	100.0%	100.0%	50.0%	
<b>Chronic lower respiratory diseases</b>	45.1%	48.5%	41.9%	44.1%	48.1%	40.6%	47.8%	49.1%	46.4%	44.4%	44.4%	68.5%	55.3%	29.0%	
<b>Alzheimer's disease</b>	12.4%	15.2%	10.9%	12.3%	15.7%	10.6%	12.8%	13.4%	12.5%	11.9%	14.0%	14.9%	20.0%	8.8%	
<b>Cerebrovascular diseases</b>	37.7%	45.5%	31.2%	37.1%	45.1%	30.5%	39.7%	46.5%	33.7%	33.2%	47.9%	61.8%	56.7%	46.5%	
<b>Diabetes</b>	68.0%	70.5%	64.3%	68.9%	71.4%	65.1%	64.7%	67.0%	61.1%	63.8%	71.3%	75.5%	77.6%	68.4%	
<b>Intentional self-harm (suicide)</b>	88.8%	87.6%	93.2%	89.1%	88.0%	93.3%	87.7%	86.3%	92.8%	85.4%	98.5%	96.0%	98.8%	100.0%	
<b>Chronic liver disease and cirrhosis</b>	90.3%	91.3%	88.8%	89.4%	90.1%	88.2%	92.4%	94.2%	89.8%	87.4%	91.7%	100.0%	96.7%	88.9%	
<b>Essential (primary) hypertension and hypertensive renal disease</b>	41.2%	51.1%	31.5%	41.4%	51.6%	31.4%	40.0%	48.2%	31.8%	36.8%	44.8%	72.5%	58.9%	16.7%	
<b>Influenza and pneumonia</b>	51.1%	55.2%	45.8%	50.8%	55.4%	45.0%	52.4%	54.8%	48.8%	45.4%	64.8%	71.4%	64.9%	18.8%	
<b>COVID-19<sup>a</sup></b>	54.7%	58.0%	49.9%	54.0%	57.4%	49.0%	56.8%	59.7%	52.8%	39.4%	68.3%	69.6%	73.8%	53.7%	
<b>Parkinson's disease</b>	26.8%	28.4%	23.8%	26.7%	28.5%	23.3%	27.4%	27.7%	26.9%	25.0%	33.7%	66.7%	34.8%	21.1%	
<b>Nephritis, nephrotic syndrome and nephrosis</b>	47.4%	47.0%	47.9%	49.6%	49.0%	50.2%	41.5%	41.7%	41.2%	42.4%	57.4%	61.3%	63.0%	41.7%	
<b>Septicemia</b>	62.1%	65.6%	58.7%	63.3%	69.2%	57.0%	56.4%	50.0%	61.5%	59.4%	65.8%	75.0%	68.9%	50.0%	
<b>Assault (homicide)</b>	99.0%	99.3%	98.2%	99.1%	99.4%	97.8%	98.9%	98.6%	100.0%	97.0%	100.0%	100.0%	100.0%	100.0%	
<b>Human immunodeficiency virus (HIV) disease</b>	98.6%	100.0%	92.3%	98.3%	100.0%	91.7%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	100.0%	100.0%	
<b>Injury by firearms</b>	90.3%	89.5%	94.8%	91.4%	90.7%	95.4%	86.1%	85.1%	92.1%	84.7%	99.6%	99.2%	98.8%	100.0%	
<b>Drug-induced deaths</b>	99.1%	99.6%	97.8%	99.0%	99.6%	97.6%	99.5%	100.0%	98.4%	98.5%	99.9%	100.0%	100.0%	100.0%	
<b>Opioid-induced deaths</b>	99.7%	99.9%	99.4%	99.7%	99.8%	99.3%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	
<b>Alcohol-induced deaths</b>	95.8%	95.7%	96.1%	95.3%	95.1%	95.7%	96.7%	96.6%	96.8%	94.4%	96.6%	100.0%	98.0%	100.0%	

Notes: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years in 2020); <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; <sup>\*</sup> The COVID-19 data collection began in mid-March 2020.