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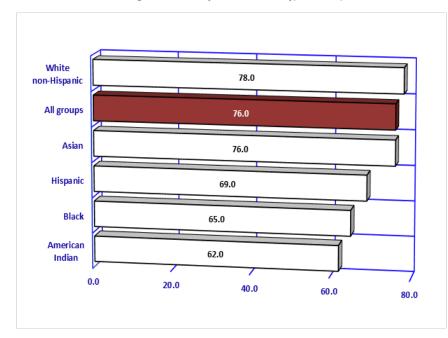
PATTERNS OF PREMATURE MORTALITY

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.

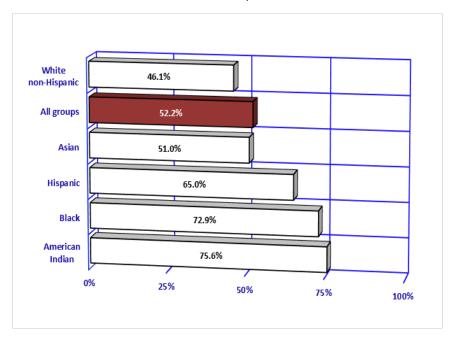
Figure 2D-1
Median Age at Death by Race/Ethnicity, Arizona, 2020



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^a Years of Life Reached by Race/Ethnicity,
Arizona, 2020



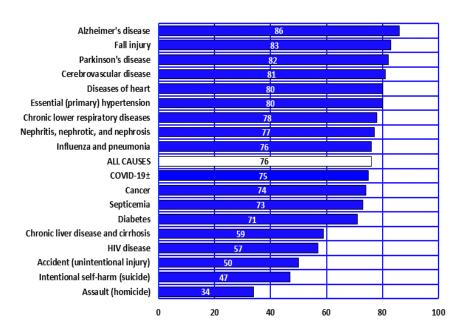
In 2020, the percent of deaths before expected years of life reached (a premature death ratio) was 52.2 percent, a level that changed from prior years (55.6 in 2019 and 55.1 for both 2018 and 2017 (**Figure 2D-2**).

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: a Expected years of life at birth for all U.S. residents (77.0 years).

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



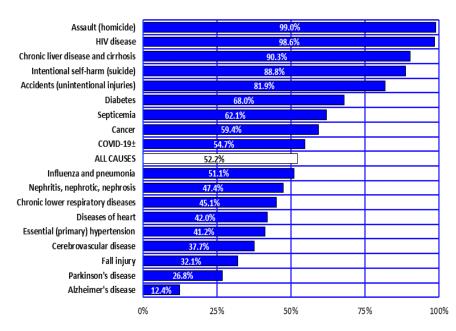
In 2020, Alzheimer's disease had the highest median age of death at 86 years (Figure 2D-3), exceeding by 10 years the median age at death for all causes (Figure 2D-3, Table 2D-3).

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). 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).

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

Figure 2D-4 Percent of Deaths before Expected Years of Life^a Reached for Selected Leading Causes of Death, Arizona, 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 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.

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