

**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, 2008-2018**

| Gender/Cause                        | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014     | 2015     | 2016     | 2017     | 2018     | % change from 2008 |
|-------------------------------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|--------------------|
| <b>MALE</b>                         |         |         |         |         |         |         |          |          |          |          |          |                    |
| Malignant neoplasms                 | 184.5   | 182.2   | 188.3   | 186.3   | 196.6   | 191.4   | 171.5    | 186.4    | 184.1    | 180.7    | 177.8    | -3.6               |
| Diseases of heart                   | 175.5   | 169.0   | 160.7   | 165.3   | 155.1   | 159.3   | 143.2    | 166.6    | 170.1    | 164.7    | 162.5    | -7.4               |
| Accidents (unintentional injuries)  | 76.5    | 71.9    | 69.2    | 68.9    | 68.0    | 77.9    | 73.5     | 76.8     | 100.4    | 98.8     | 95.5     | 24.8               |
| Other                               | 51.9    | 51.1    | 54.6    | 19.8    | 47.9    | 54.5    | 54.0     | 54.5     | 71.5     | 72.1     | 70.5     | 35.8               |
| Motor vehicle accidents             | 24.6    | 20.8    | 19.9    | 21.4    | 20.1    | 23.3    | 19.4     | 22.3     | 28.9     | 26.8     | 25.0     | 1.6                |
| Chronic liver disease and cirrhosis | 39.2    | 38.0    | 42.1    | 49.6    | 50.2    | 46.7    | 43.1     | 48.1     | 47.8     | 45.5     | 45.7     | 16.6               |
| Intentional self-harm (suicide)     | 35.1    | 37.0    | 40.9    | 41.3    | 41.8    | 38.3    | 37.7     | 40.3     | 41.2     | 37.4     | 43.3     | 23.4               |
| ALL CAUSES                          | 741.9   | 738.1   | 744.1   | 752.2   | 778.8   | 784.8   | 775.3    | 809.1    | 841.8    | 802.8    | 824.4    | 11.1               |
| (Number of all deaths)              | (5,450) | (5,472) | (5,659) | (5,760) | (5,999) | (6,088) | (6,111)  | (6,444)  | (6,781)  | (6,570)  | (6,839)  | 25.5               |
| <b>FEMALE</b>                       |         |         |         |         |         |         |          |          |          |          |          |                    |
| Malignant neoplasms                 | 151.4   | 154.2   | 153.9   | 156.9   | 155.1   | 160.7   | 145.0    | 155.6    | 150.9    | 143.9    | 146.3    | -3.4               |
| Diseases of heart                   | 63.4    | 59.4    | 55.9    | 61.8    | 60.5    | 54.6    | 54.0     | 60.8     | 66.7     | 58.2     | 62.7     | -1.1               |
| Accidents (unintentional injuries)  | 34.2    | 36.1    | 36.6    | 32.8    | 33.0    | 38.0    | 33.7     | 35.8     | 38.4     | 42.2     | 37.3     | 9.1                |
| Other                               | 24.2    | 28.5    | 29.0    | 7.4     | 26.1    | 29.8    | 27.4     | 27.9     | 30.4     | 18.6     | 27.7     | 14.5               |
| Motor vehicle accidents             | 10.0    | 7.6     | 7.7     | 7.1     | 6.9     | 8.2     | 6.2      | 7.9      | 8.1      | 8.2      | 9.7      | -3.0               |
| Chronic lower respiratory diseases  | 24.3    | 19.2    | 19.3    | 21.6    | 24.2    | 24.8    | 24.8     | 23.0     | 25.8     | 26.4     | 27.6     | 13.6               |
| Diabetes                            | 16.0    | 14.2    | 17.0    | 21.3    | 22.3    | 23.6    | 22.8     | 27.4     | 24.6     | 22.6     | 22.1     | 38.1               |
| ALL CAUSES                          | 448.4   | 448.6   | 439.6   | 447.1   | 445.8   | 465.2   | 468.9    | 482.3    | 484.1    | 460.8    | 464.7    | 3.6                |
| (Number of all deaths)              | (3,449) | (3,483) | (3,553) | (3,638) | (3,631) | (3,810) | (3,914)  | (4,066)  | (4,130)  | (3,997)  | (4,081)  | 18.3               |
| <b>TOTAL</b>                        |         |         |         |         |         |         |          |          |          |          |          |                    |
| Malignant neoplasms                 | 167.6   | 167.9   | 170.6   | 171.2   | 175.2   | 175.6   | 157.9    | 170.6    | 167.0    | 161.8    | 161.6    | -3.6               |
| Diseases of heart                   | 118.2   | 112.9   | 106.7   | 112.0   | 106.5   | 105.5   | 97.4     | 112.2    | 116.9    | 109.9    | 111.2    | -5.9               |
| Accidents (unintentional injuries)  | 54.9    | 53.6    | 52.4    | 50.3    | 50.0    | 57.4    | 53.0     | 55.7     | 68.5     | 69.7     | 65.6     | 19.5               |
| Other                               | 37.7    | 39.5    | 38.8    | 13.4    | 36.7    | 41.8    | 40.4     | 40.8     | 50.3     | 52.5     | 48.5     | 28.6               |
| Motor vehicle accidents             | 17.2    | 14.0    | 13.6    | 14.1    | 13.3    | 15.6    | 12.6     | 14.9     | 18.2     | 17.2     | 17.1     | -0.6               |
| Chronic liver disease and cirrhosis | 29.7    | 29.1    | 30.2    | 34.3    | 35.0    | 34.7    | 33.6     | 37.7     | 36.3     | 35.1     | 34.0     | 14.5               |
| Chronic lower respiratory diseases  | 24.7    | 21.5    | 20.0    | 23.6    | 25.1    | 24.7    | 25.4     | 26.6     | 28.2     | 27.3     | 28.4     | 15.0               |
| ALL CAUSES                          | 591.8   | 590.0   | 587.2   | 595.0   | 607.6   | 620.7   | 617.7    | 641.0    | 657.8    | 626.8    | 639.4    | 8.0                |
| (Number of all deaths)              | (8,899) | (8,855) | (9,212) | (9,398) | (9,630) | (9,898) | (10,025) | (10,510) | (10,911) | (10,567) | (10,920) | 22.7               |

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 2008-2018 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 2008-2018 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**.