



HEALTH STATISTICS CENTER
STATISTICAL BRIEF NO. 32

WEST VIRGINIA'S
10 LEADING CAUSES OF DEATH, 2016

HSC Statistical Brief No. 32
West Virginia's 10 Leading Causes of Death, 2016

Bill J. Crouch
Cabinet Secretary
West Virginia Department of Health and Human Resources

Rahul Gupta, MD, MPH, MBA, FACP
Commissioner and State Health Officer
Bureau for Public Health

Anne A. Williams, RN, BSN, MS-HCA
Deputy Commissioner, Health Improvement
Bureau for Public Health

Gary L. Thompson, BA
Interim Director and State Registrar
Health Statistics Center
Bureau for Public Health

Report Prepared By
Allysa B. Crews, MS
Epidemiologist
Health Statistics Center

Cause of Death statistics are derived from the underlying cause of death that is reported on death certificates across the United States. The nationally standardized 113 selected causes of death are categorized according to the *International Classification of Diseases, Tenth Revision (ICD-10)*. The data that is compiled by the National Center for Health Statistics (NCHS) is ordered by the occurrence of deaths attributed to each rankable cause. The ranking of causes of death provides information regarding the “relative burden of cause-specific mortality” (Heron, 2017). Age-adjusted death rates illustrate relative risk of mortality between population subgroups (Murphy, Xu, Kochanek, Curtin, & Arias, 2017). Uniform death rate age-adjustment to the 2000 U.S. Standard Population imparts comparability among populations with varying age distributions.

This report will present the 10 leading causes of death among West Virginia residents in 2016 and any trends therein.

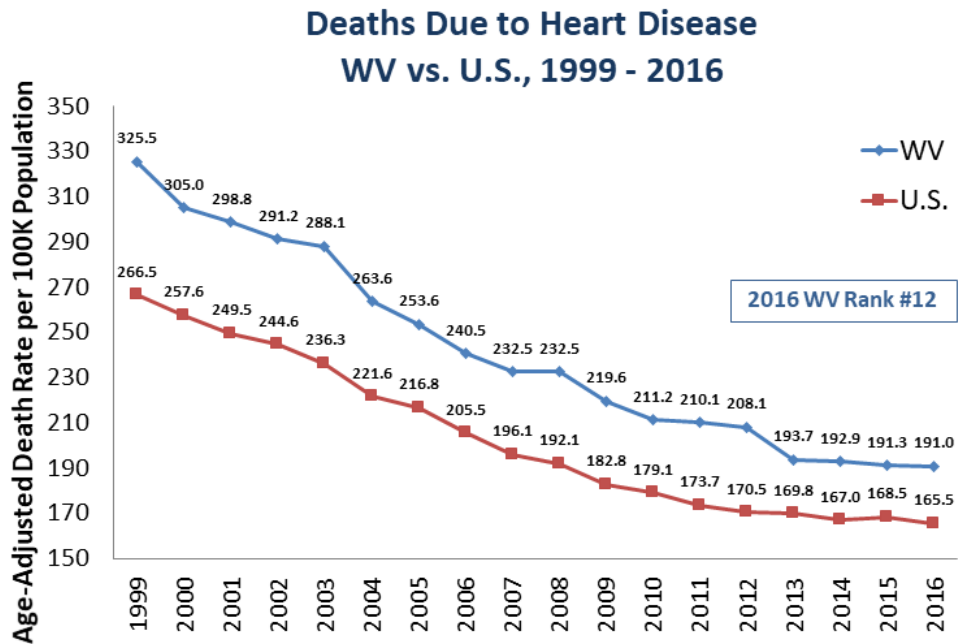
West Virginia 10 Leading Causes of Death, 2016 Population 1,831,102

Cause of Death	Number of Deaths	Age-Adjusted Death Rate per 100K
1. Heart Disease	4,767	191.0
2. Cancer	4,659	182.2
3. Accidents	1,705	89.7
4. Chronic Lower Respiratory Diseases	1,599	62.1
5. Cerebrovascular Diseases	1,039	41.7
6. Diabetes	860	34.8
7. Alzheimer’s Disease	786	31.7
8. Nephritis, Nephrotic Syndrome, and Nephrosis	481	19.3
9. Influenza and Pneumonia	423	17.3
10. Suicide	362	19.3

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

1. Heart Disease (ICD-10 I00-I09, I11, I13, I20-I51)

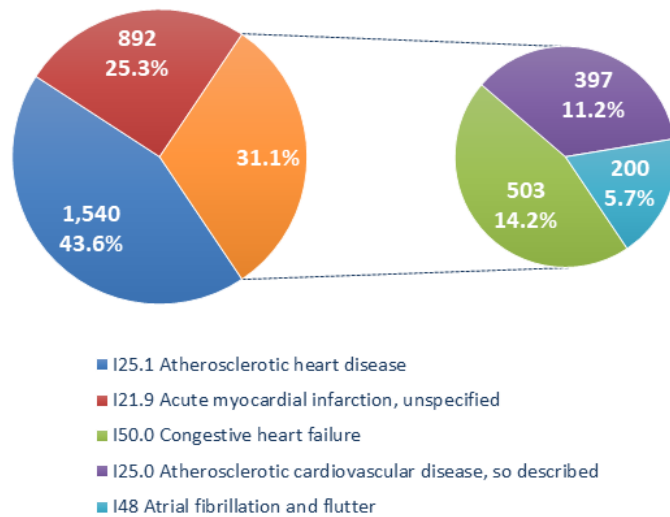
Heart disease includes conditions such as rheumatic fever, hypertensive heart disease, ischemic heart diseases, endocarditis, and heart failure.



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

Overall, deaths due to heart disease within the U.S. were on a steady decline between 1999 and 2016 with the age-adjusted death rate per 100,000 persons falling from 266.5 to 165.5 (37.9%). This trend is reflected in the WV data for the same timeframe with the same rate decreasing from 325.5 to 191.0 (41.3%). Although the rate of WV deaths due to heart disease has declined, the WV rate historically exceeds that of the U.S. The disparity between the WV rate and the U.S. rate decreased from a difference of 59.0 in 1999 to 25.5 in 2016. WV ranked 12th highest in the U.S. and District of Columbia in the age-adjusted rate of deaths attributed to heart disease in 2016.

**Top 5 Heart Disease Death Subcategories
by Number of Deaths, WV, 2016
N=3,532**

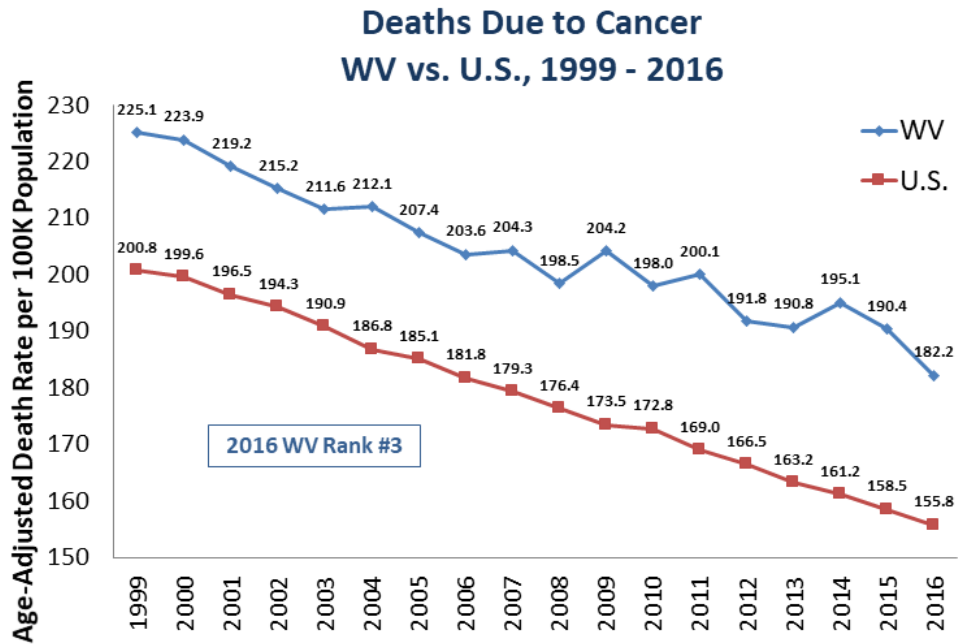


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- In 2016, WV had a total of 4,767 deaths that were attributed to heart disease.
- The top 5 heart disease subcategories accounted for 3,532 of those deaths.
- Atherosclerotic heart disease was responsible for 1,540 deaths, or 43.6% of the top 5 subcategories.

2. Cancer (ICD-10 C00-C97)

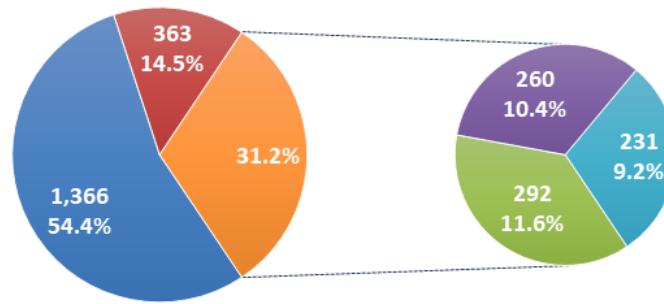
Malignant Neoplasms



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

The U.S. age-adjusted death rate per 100,000 population for cancer has decreased since 1999 declining from 200.8 to 155.8 (22.4%) in 2016. There was also a decrease in the age-adjusted death rate in WV from 225.1 to 182.2 deaths per 100,000 population (19.1%) despite a small surge in 2004, 2007, 2009, 2011, and 2014. The difference between WV and the U.S. in age-adjusted death rates due to cancer has remained close to constant with a 24.3 difference in 1999 and a 26.4 difference in 2016 with WV rates exceeding those of the country. WV was ranked 3rd in the U.S. and D.C. for age-adjusted death rate due to cancer in 2016.

**Top 5 Cancer Death Subcategories
by Number of Deaths, WV, 2016
N=2,512**



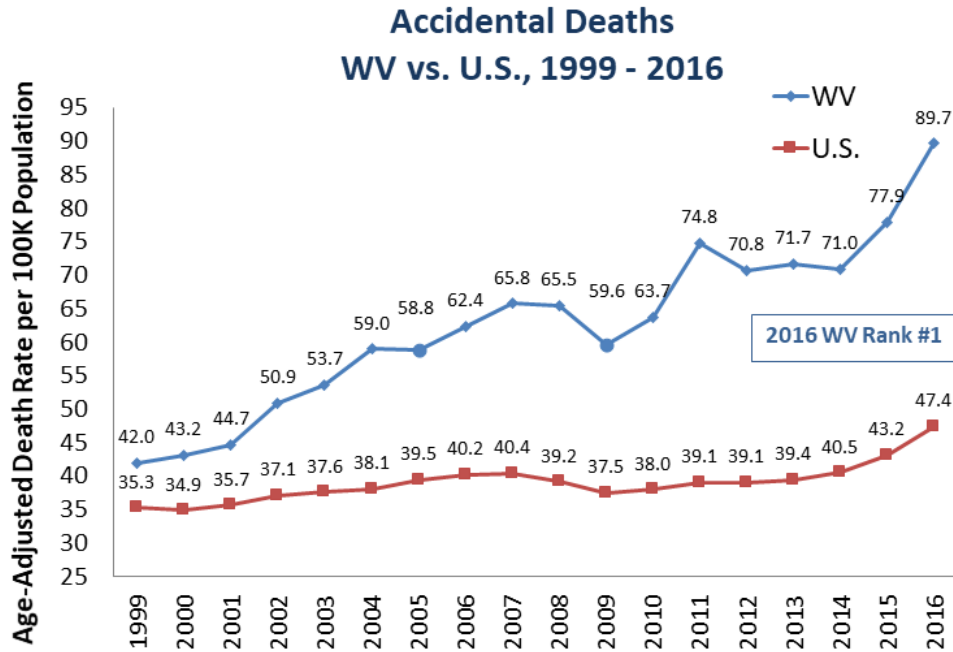
- C34.9 Bronchus or lung, unspecified - Malignant neoplasms
- C18.9 Colon, unspecified - Malignant neoplasms
- C50.9 Breast, unspecified - Malignant neoplasms
- C25.9 Pancreas, unspecified - Malignant neoplasms
- C80 Malignant neoplasm without specification of site

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- WV had a total of 4,659 deaths due to cancer in 2016.
- The top 5 cancer subcategories accounted for 2,512 deaths.
- Bronchus or lung cancer was responsible for 1,366 deaths, or 54.4% of the top 5 subcategories.

3. Accidents (ICD-10 V01-X59, Y85-Y86)

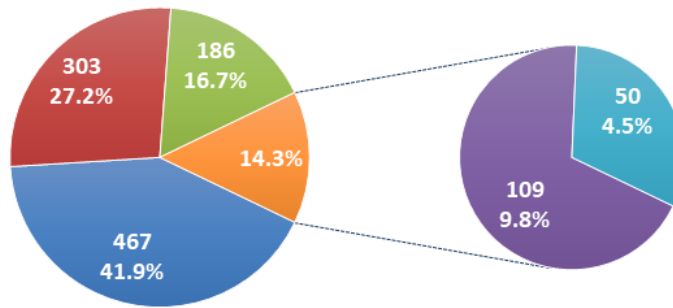
Unintentional Injuries



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics
Note: WV Data from 2005 and 2009 retrieved from WV Health Statistics Center due to closure of national reporting window.

The age-adjusted death rate of accidental deaths has increased at both the state and national level since 1999. The U.S. rate has grown from 35.3 to 47.4 deaths per 100,000 population, or 34.3%, while the WV rate has more than doubled, escalating from 42.0 to 89.7 (113.6%). In 2016, WV was ranked 1st in the country for the highest age-adjusted death rate due to accidents.

**Top 5 Accidental Death Subcategories
by Number of Deaths, WV, 2016
N=1,115**



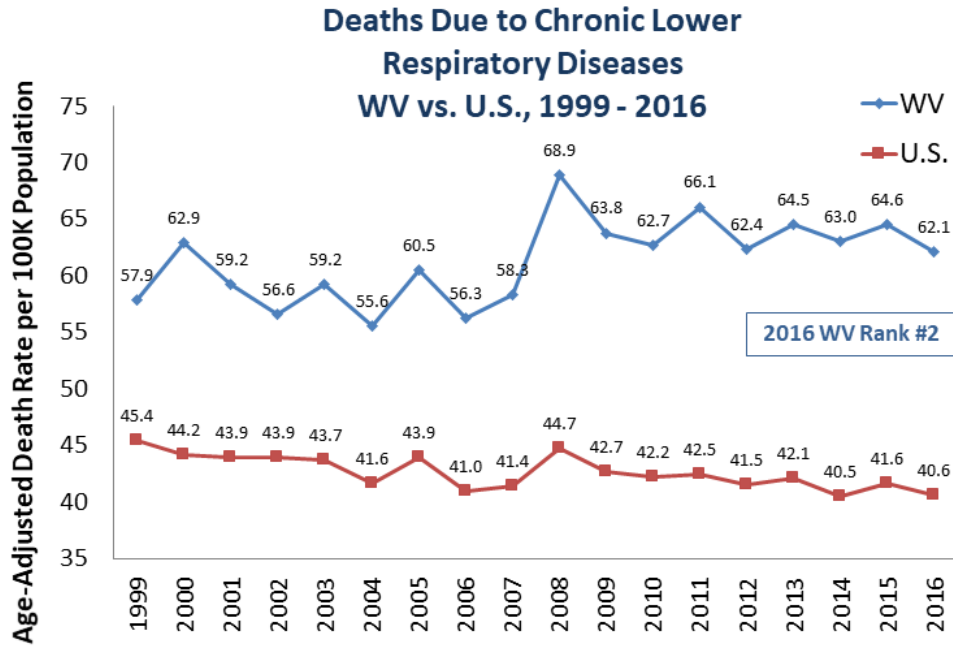
- X44 Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
- X42 Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
- W18 Other fall on same level
- V89.2 Person injured in unspecified motor-vehicle accident, traffic
- V87.7 Person injured in collision between other specified motor vehicles (traffic)

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- In 2016, there were 1,705 accidental deaths in WV.
- The top 5 accidental death subcategories accounted for 1,115 of those deaths.
- *Accidental poisoning by and exposure to other and unspecified drugs, medicaments* [substances used for medical treatment], *and biological substances* caused 467 deaths, or 41.9% of the top 5 subcategories.

4. Chronic Lower Respiratory Diseases (ICD-10 J40-J47)

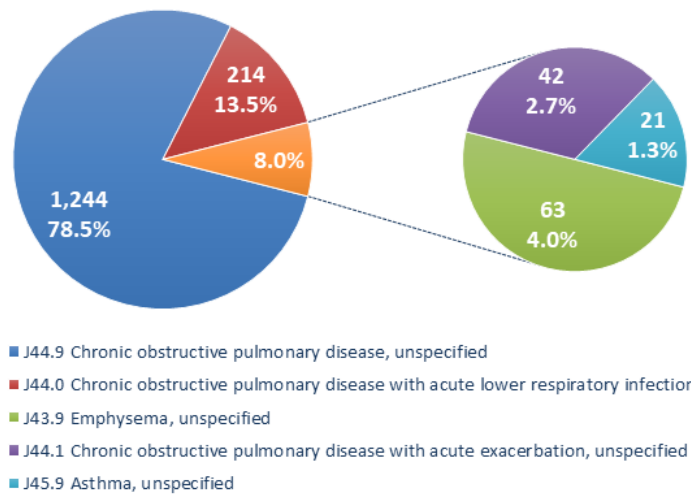
CLRD includes conditions such as chronic obstructive pulmonary disease (COPD), emphysema, asthma, and chronic bronchitis.



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

The U.S. has seen a small decline in the age-adjusted death rate due to Chronic Lower Respiratory Diseases (CLRD) from 1999 to 2016, dropping from 45.4 to 40.6 deaths per 100,000 population (10.6%). The WV age-adjusted death rate has been sporadic during this time. In 1999, the WV rate was 57.9 deaths per 100,000 persons and it was 62.1 in 2016, a 7.3% increase. This interval also included periodic spikes in the death rate in 2000, 2008, and 2011. WV had the 2nd highest age-adjusted death rate among U.S. states and D.C. for deaths due to CLRD in 2016.

**Top 5 Chronic Lower Respiratory Disease Death Subcategories
by Number of Deaths, WV, 2016
N=1,584**

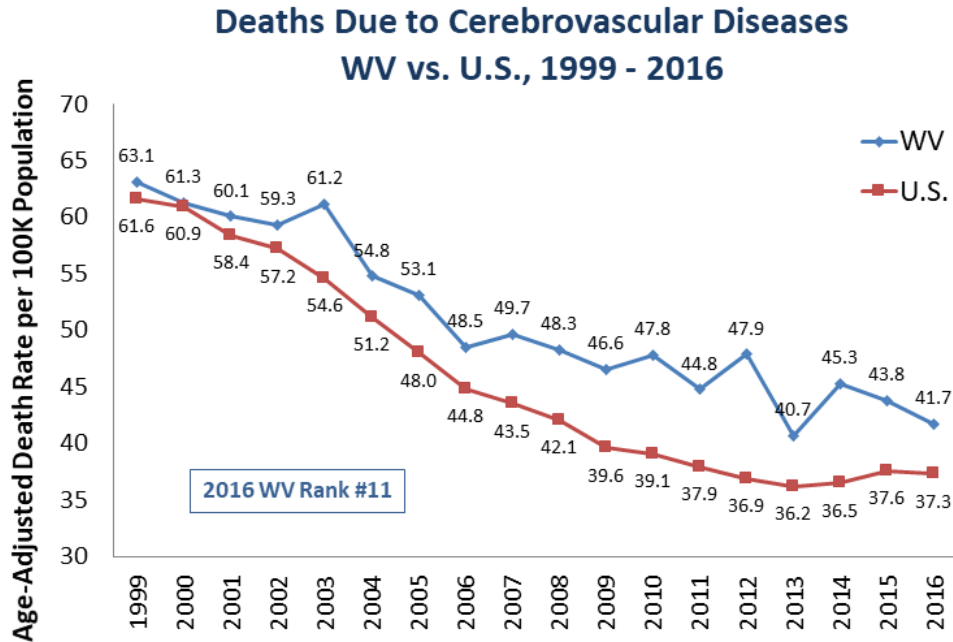


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- CLRD caused 1,599 WV deaths in 2016.
- The top 5 CLRD subcategories made up 1,584 of those deaths.
- Chronic Obstructive Pulmonary Disease (COPD) caused 1,244 WV deaths, or 78.5% of the top 5 subcategories and 77.8% of *all* CLRD deaths.

5. Cerebrovascular Diseases (ICD-10 I60-I69)

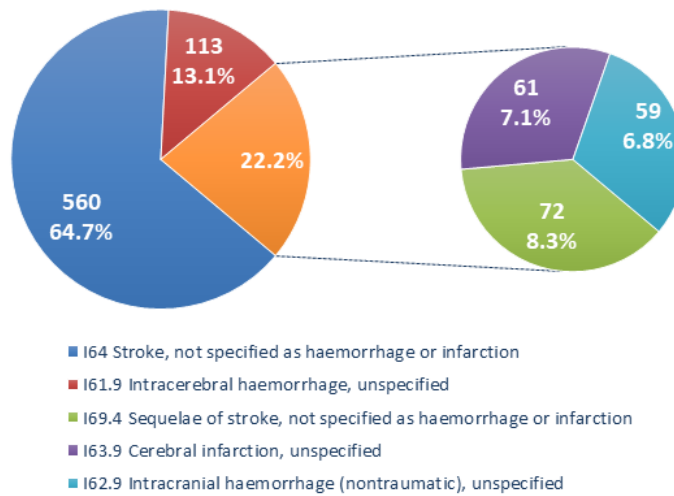
These conditions include stroke, cerebrovascular haemorrhage, aneurysm, and other cerebrovascular diseases.



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

Cerebrovascular disease deaths in the U.S. have declined from an age-adjusted rate of 61.6 in 1999 to 37.3 deaths per 100,000 persons in 2016 (39.4%). Although this rate has also waned in WV, the gap between WV and the U.S. has widened. In 1999, WV had an age-adjusted death rate of 63.1, which fell 33.9% to 41.7 deaths per 100,000 population in 2016. This WV trend also included a few spikes in this death rate. In 2016, WV ranked 11th in the country for age-adjusted death rate due to a cerebrovascular disease.

Top 5 Cerebrovascular Disease Death Subcategories by Number of Deaths, WV, 2016 N=865

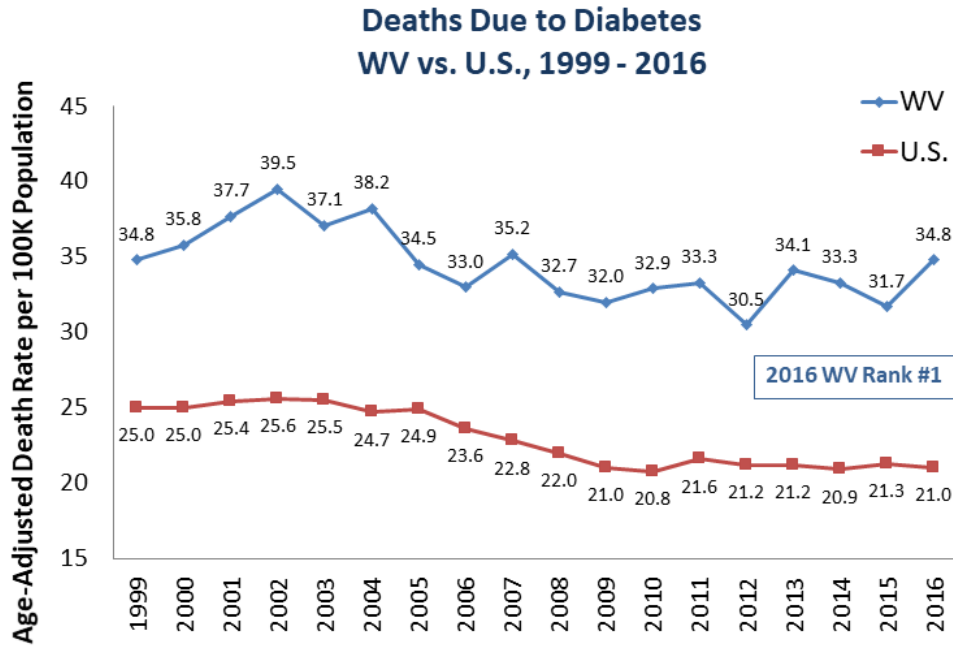


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- In 2016, WV had a total of 1,039 deaths that were attributed to cerebrovascular disease.
- The top 5 cerebrovascular disease subcategories accounted for 865 of those deaths.
- *Stroke, not specified as haemorrhage or infarction* was associated with 560 deaths, or 64.7% of the top 5 subcategories.

6. Diabetes (ICD-10 E10-E14)

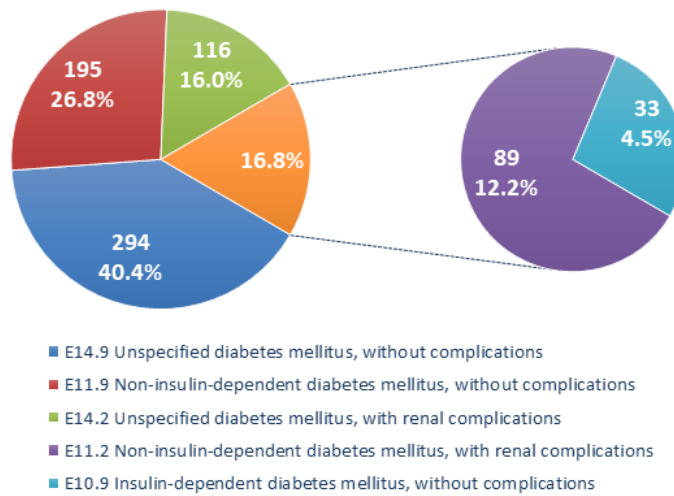
This cause of death includes insulin-dependent and non-insulin-dependent diabetes mellitus both with and without complications.



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

The age-adjusted death rate for diabetes was slightly improved in the U.S. between 1999 and 2016, falling from 25.0 to 21.0 deaths per 100,000 population (16.0%). This timeframe included a few spikes in this death rate including a rate of 21.6, which occurred in 2011. WV has had intermittent spikes in this death rate with significantly higher rates than the U.S. as a whole – both beginning and ending the mentioned timeframe at 34.8 deaths per 100,000 population. WV led the U.S. and D.C. in deaths attributed to diabetes in 2016, up from 3rd in 2015.

**Top 5 Diabetes Death Subcategories
by Number of Deaths, WV, 2016
N=727**

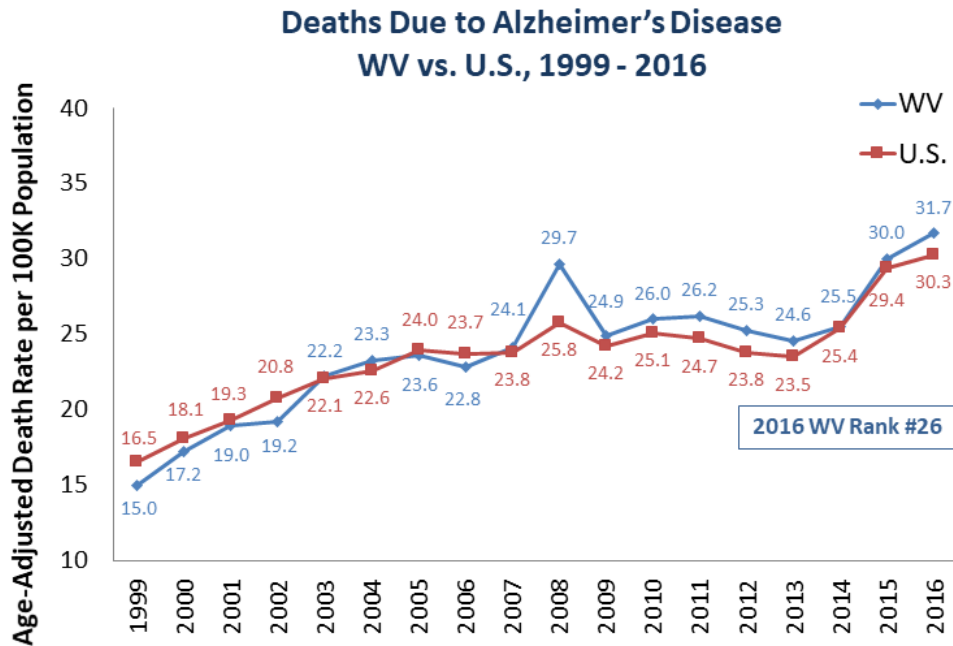


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- Diabetes caused 860 WV deaths in 2016.
- The top 5 diabetes subcategories accounted for 727 of those deaths.
- *Unspecified diabetes mellitus, without complications* caused 294 deaths, or 40.4% of the top 5 subcategories and 34.2% of *all* Diabetes deaths.

7. Alzheimer's Disease (ICD-10 G30)

Alzheimer's disease is a type of dementia that results in loss of memory and cognitive abilities as well as behavioral changes.



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

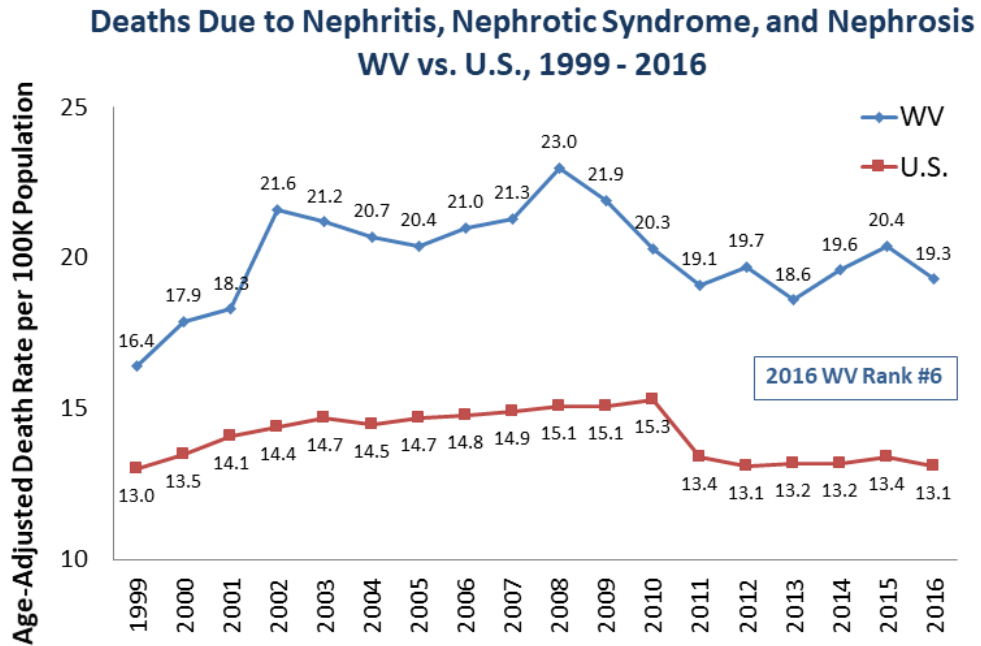
The U.S. age-adjusted death rate of Alzheimer's disease increased between 1999 and 2016 starting at 16.5 and rising to 30.3 deaths per 100,000 persons (83.6%). During this period, the U.S. and WV have exchanged leading roles multiple times and have had highly similar rates. WV had 15.0 deaths per 100,000 population in 1999, less than the U.S., and led the U.S. in the rate of Alzheimer's deaths in 2016 with 31.7 deaths per 100,000, a 111.3% increase. A single spike in the WV rate occurred in 2008 where the age-adjusted death rate increased from 24.1 to 29.7 and then fell to 24.9 deaths per 100,000 population the subsequent year. The similarities in rates made WV 26th highest in the country for deaths caused by Alzheimer's disease in 2016.

- The top Alzheimer's disease death subcategory was *G30.9 Alzheimer's disease, unspecified*.
- This category accounted for 777 (98.9%) of the total 786 Alzheimer's deaths.
- All other category data were suppressed due to NCHS data use restrictions to assure confidentiality, which suppresses data representing 0-9 persons.

[https://wonder.cdc.gov/wonder/help/ucd.html#Assurance of Confidentiality](https://wonder.cdc.gov/wonder/help/ucd.html#Assurance%20of%20Confidentiality)

8. Nephritis, Nephrotic Syndrome, and Nephrosis (ICD-10 N00-N07, N17-N19, N25-N27)

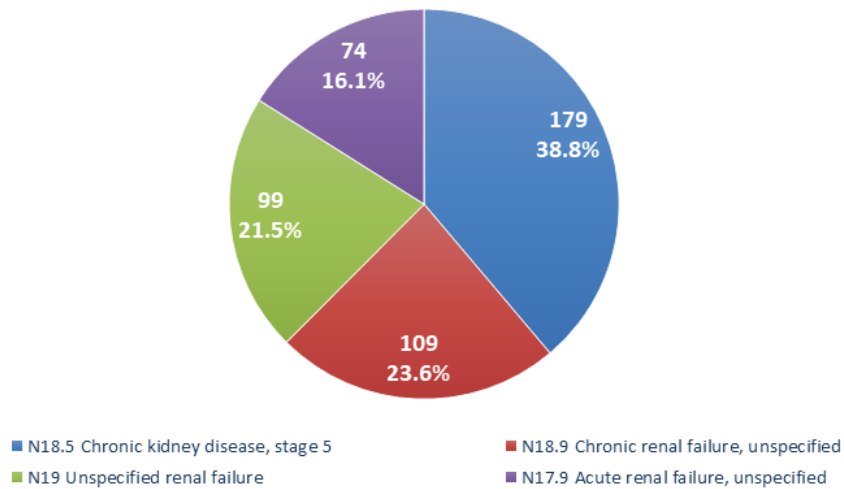
Kidney Disease



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

After several years of a rising age-adjusted death rate in the U.S. due to nephritis, nephrotic syndrome, and nephrosis (kidney disease), a sharp decline in 2011 (15.3 to 13.4 deaths per 100,000 population) started a downward trend. The 2016 U.S. age-adjusted death rate of 13.1 deaths per 100,000 population did not reach the previous low of 13.0, which occurred in 1999 (an overall 0.8% increase). The WV rate has continued to exceed the U.S. rate starting at 16.4 deaths per 100,000 population in 1999 and ending with 19.3 deaths per 100,000 population (an increase of 17.7%) after numerous surges over this period. In 2016, WV was ranked 6th in the U.S. for its age-adjusted death rate associated with kidney disease.

**Top Nephritis, Nephrotic Syndrome, and Nephrosis
Death Subcategories by Number of Deaths, WV, 2016
N=461**

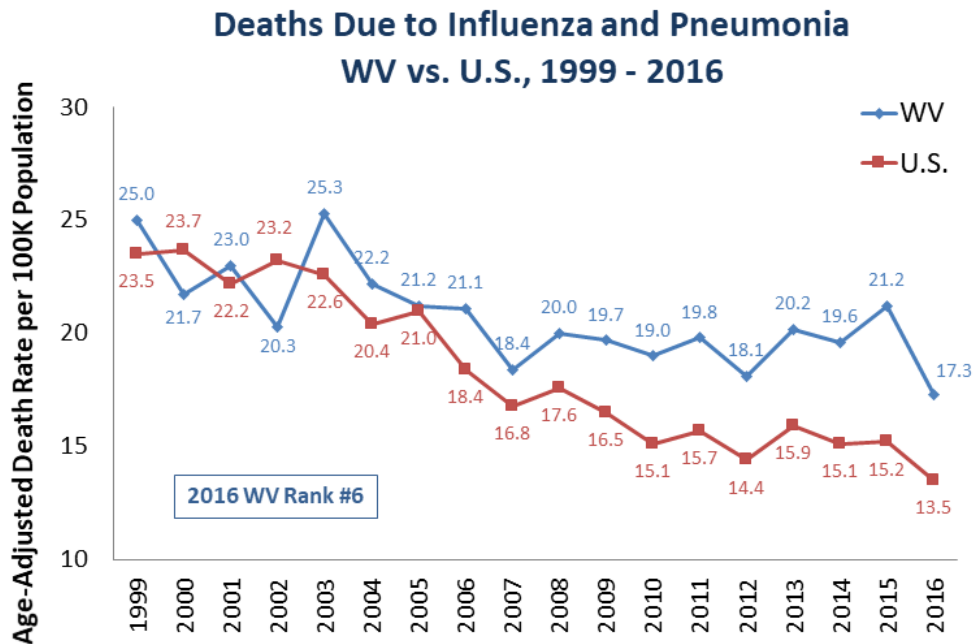


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- In 2016, WV had a total of 481 deaths that were attributed to nephritis, nephrotic syndrome, and nephrosis.
- The top 4 subcategories accounted for 461 of those deaths.
- *Chronic kidney disease, stage 5* caused 179 deaths, or 38.8% of the top 4 subcategories and 37.2% of all nephritis, nephrotic syndrome, and nephrosis deaths.
- All other category data were suppressed due to NCHS data use restrictions to assure confidentiality, which suppresses data representing 0-9 persons.
[https://wonder.cdc.gov/wonder/help/ucd.html#Assurance of Confidentiality](https://wonder.cdc.gov/wonder/help/ucd.html#Assurance%20of%20Confidentiality)

9. Influenza and Pneumonia (ICD-10 J09-J18)

Influenza and pneumonia are respiratory infections.



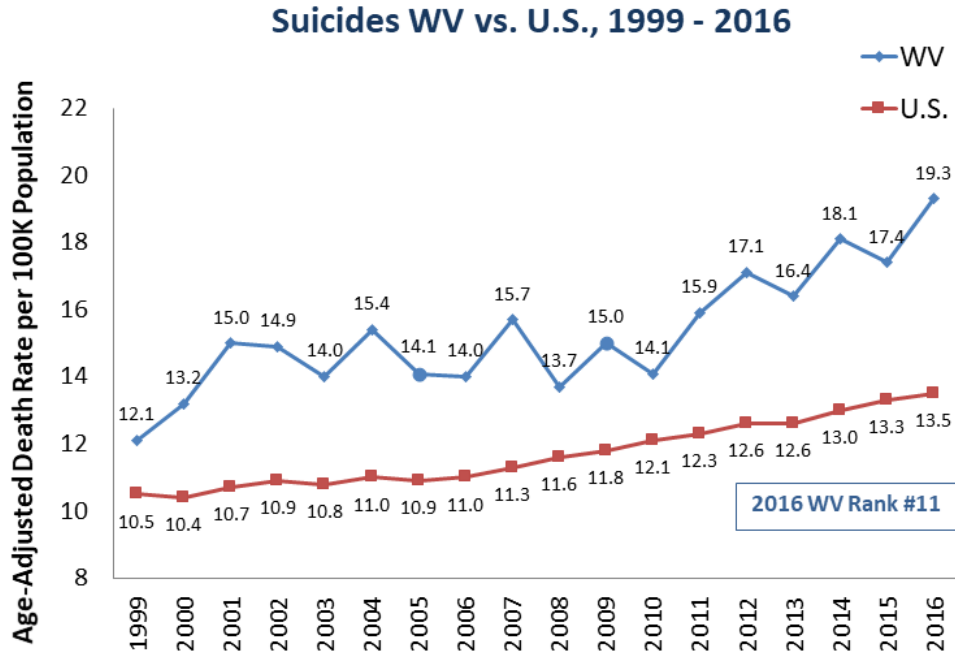
Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

The U.S. has seen a sharp decline in the age-adjusted death rate for influenza and pneumonia falling from 23.5 to 13.5 deaths per 100,000 population, or 42.6%, between 1999 and 2016. WV experienced the same trend with a drop from 25.0 to 17.3 deaths per 100,000 population (30.8%) in those years. Both the U.S. and WV had varying peaks in death rates over this period. Although the WV rate was higher at both ends of this period, the gap widened: there was a 1.5 deaths per 100,000 population gap in 1999 and a 3.8 deaths per 100,000 population gap in 2016. WV ranked 6th in the country for age-adjusted death rate due to influenza and pneumonia in 2016.

- The top 2 influenza and pneumonia death subcategories are *J18.9 Pneumonia, unspecified* (360 deaths) and *J11.0 Influenza with pneumonia, virus not identified* (12 deaths).
- They accounted for 372 (87.9%) of the total 423 influenza and pneumonia deaths in 2016.
- All other category data were suppressed due to NCHS data use restrictions to assure confidentiality, which suppresses data representing 0-9 persons.
[https://wonder.cdc.gov/wonder/help/ucd.html#Assurance of Confidentiality](https://wonder.cdc.gov/wonder/help/ucd.html#Assurance%20of%20Confidentiality)

10. Suicide (ICD-10 U03, X60-X84, Y87.0)

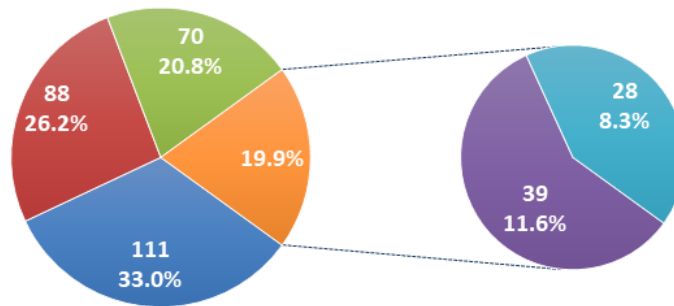
Intentional Self-Harm



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics
 Note: WV Data from 2005 and 2009 retrieved from WV Health Statistics Center due to closure of national reporting window.

The U.S. has seen a small rise in the age-adjusted death rate for suicide (intentional self-harm) between 1999 and 2016, an increase from 10.5 to 13.5 deaths per 100,000 persons, or 28.6%. WV’s rate fluctuated periodically, experiencing a marked 59.5% increase during this time with a rate of 12.1 deaths per 100,000 population in 1999 and a rate of 19.3 in 2016. In the final year of this timeframe, WV was ranked 11th in the U.S. and D.C. for the age-adjusted death rate from intentional self-harm.

**Top 5 Suicide Subcategories
by Number of Deaths, WV, 2016
N=336**

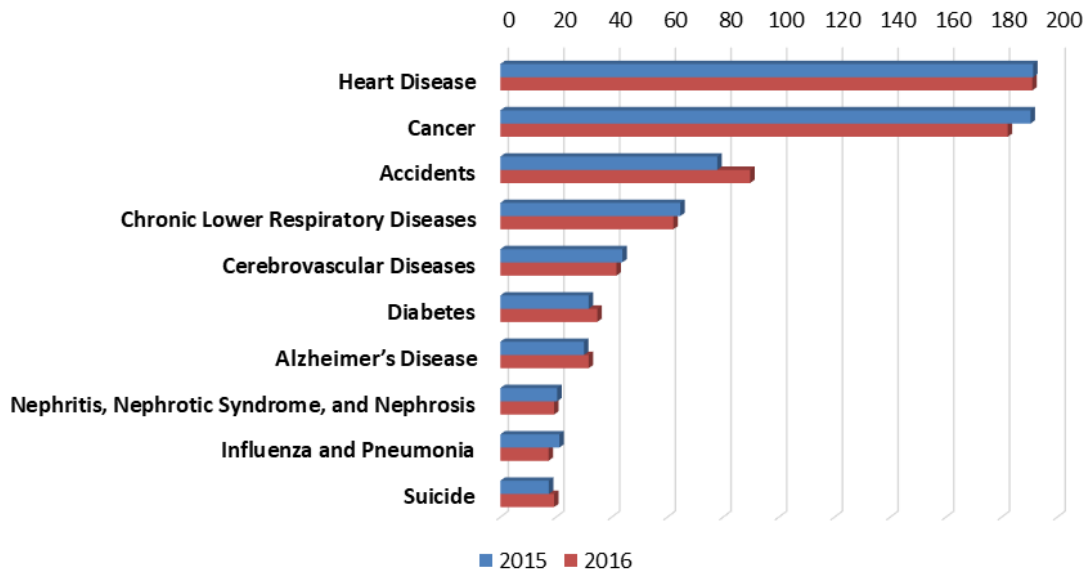


- X74 Intentional self-harm by other and unspecified firearm discharge
- X72 Intentional self-harm by handgun discharge
- X70 Intentional self-harm by hanging, strangulation and suffocation
- X73 Intentional self-harm by rifle, shotgun and larger firearm discharge
- X64 Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

- In 2016, WV had a total of 362 deaths by suicide.
- The top 5 suicide subcategories accounted for 336 of those deaths.
- *Intentional self-harm by other and unspecified firearm discharge* was responsible for 111 deaths, or 33.0% of the top 5 subcategories.

Age-Adjusted Death Rates for the 10 Leading Causes of Death in 2016: WV, 2015 and 2016

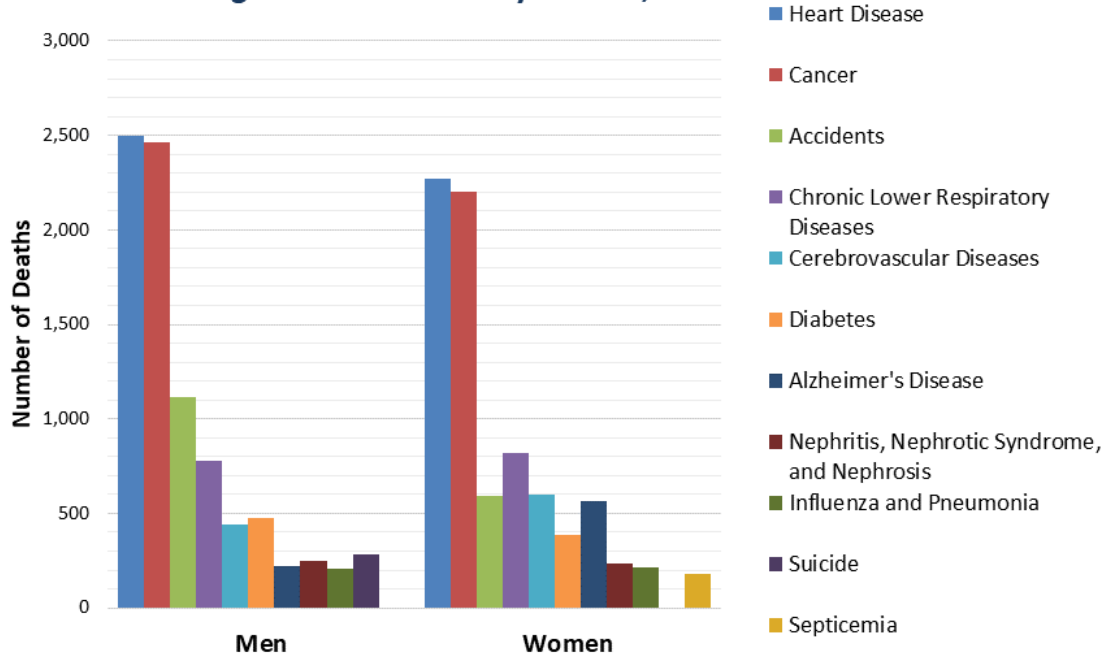


Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

Accidents (ICD-10 V01-X59, Y85-Y86)

- Among the top 10 causes of death, the rate of WV accidental deaths sustained the most change between 2012 and 2016, a 26.7% increase.
- The age-adjusted death rate increased to 89.7 deaths per 100,000 population (1,705 deaths), rising by 18.9 deaths per 100,000 persons (or 334 deaths) from 2012.
- Accidents rose from the 4th leading cause of death in 2015 to 3rd in 2016.
- *Accidental poisoning by and exposure to other and unspecified drugs, medicaments* [substances used for medical treatment], and *biological substances* and *accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified* were primarily responsible for the 2016 spike in WV accidental deaths, accounting for 159 of the 189 death increase.
- In 2016, *Accidental poisoning by and exposure to other and unspecified drugs, medicaments* [substances used for medical treatment], and *biological substances* was the most common accidental death regardless of gender or age group (44 and younger vs. 45 and older).

WV 10 Leading Causes of Death by Gender, 2016



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

West Virginia 10 Leading Causes of Death, 2016
Men, Population 905,943

Cause of Death	Number of Deaths	Age-Adjusted Death Rate per 100K
1. Heart Disease	2,496	231.3
2. Cancer	2,460	214.1
3. Accidents	1,112	122.7
4. Chronic Lower Respiratory Diseases	781	69.0
5. Diabetes	477	42.7
6. Cerebrovascular Diseases	442	41.5
7. Suicide	280	29.8
8. Nephritis, Nephrotic Syndrome, and Nephrosis	245	23.1
9. Alzheimer's Disease	221	23.2
10. Influenza and Pneumonia	210	20.5

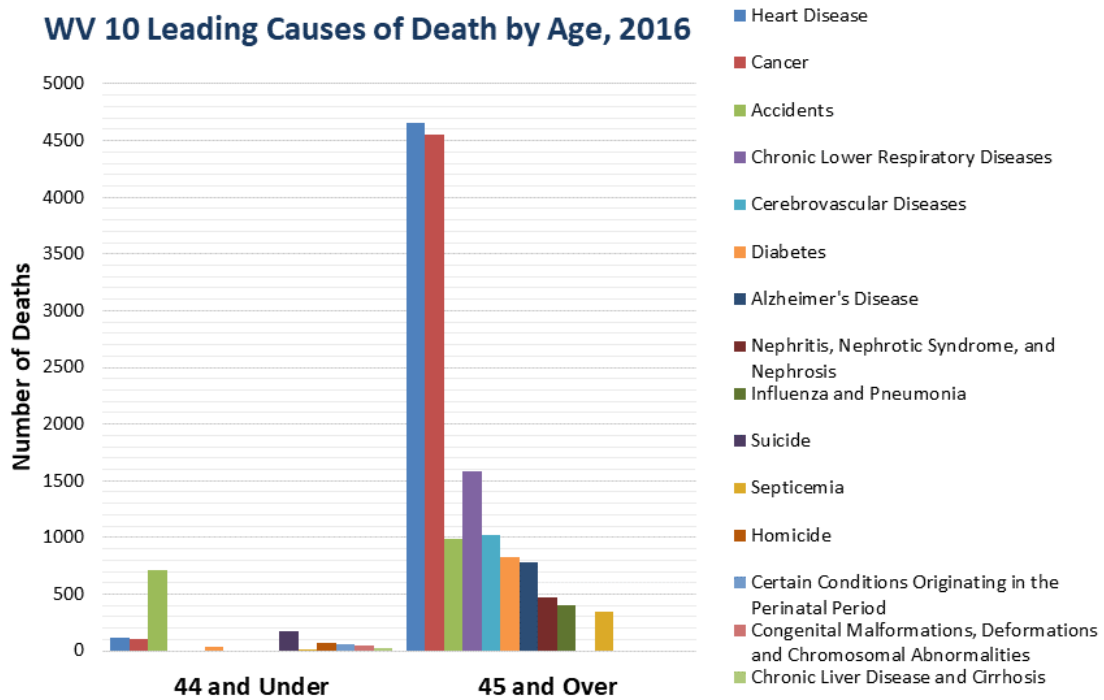
Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

West Virginia 10 Leading Causes of Death, 2016
Women, Population 925,159

Cause of Death	Number of Deaths	Age-Adjusted Death Rate per 100K
1. Heart Disease	2,271	156.4
2. Cancer	2,199	158.6
3. Chronic Lower Respiratory Diseases	818	57.3
4. Cerebrovascular Diseases	597	40.9
5. Accidents	593	57.1
6. Alzheimer's Disease	565	36.5
7. Diabetes	383	28.2
8. Nephritis, Nephrotic Syndrome, and Nephrosis	236	16.5
9. Influenza and Pneumonia	213	15.2
10. Sepsis	179	13.4

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

WV 10 Leading Causes of Death by Age, 2016



Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

**West Virginia 10 Leading Causes of Death, 2016
Aged 44 and Under, Population 978,536**

Cause of Death	Number of Deaths	Age-Adjusted Death Rate per 100K
1. Accidents	717	73.5
2. Suicide	175	18.0
3. Heart Disease	113	12.2
4. Cancer	106	11.5
5. Homicide	74	7.4
6. Certain Conditions Originating in the Perinatal Period	62	6.7
7. Congenital Malformations, Deformations, and Chromosomal Abnormalities	52	5.5
8. Diabetes	34	3.7
9. Chronic Liver Disease and Cirrhosis	27	2.9
10. Septicemia	18	*Unreliable

*Rates are marked as "unreliable" when the death count is less than 20 per the Centers for Disease Control.
Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

**West Virginia 10 Leading Causes of Death, 2016
Aged 45 and Over, Population 852,566**

Cause of Death	Number of Deaths	Age-Adjusted Death Rate per 100K
1. Heart Disease	4,654	525.1
2. Cancer	4,553	501.3
3. Chronic Lower Respiratory Diseases	1,584	175.2
4. Cerebrovascular Diseases	1,021	116.1
5. Accidents	988	120.0
6. Diabetes	826	93.0
7. Alzheimer's Disease	786	91.0
8. Nephritis, Nephrotic Syndrome, and Nephrosis	468	52.8
9. Influenza and Pneumonia	405	46.2
10. Septicemia	343	38.7

Data Source: United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics

For additional information regarding this brief please contact:

Allysa B. Crews, MS
Epidemiologist
Phone: (304) 356-4121
allysa.b.crews@wv.gov

West Virginia Bureau for Public Health
Health Statistics Center
350 Capitol Street, Room 165
Charleston, WV 25301
Phone: (304) 558-9100
<http://www.wvdhhr.org/bph/hsc/default.asp>

For additional information regarding conditions and diseases please contact:

West Virginia Bureau for Behavioral Health & Health Facilities
350 Capitol Street, Room 350
Charleston, WV 25301
Phone: (304) 356-4811
<https://dhhr.wv.gov/bhhf/Pages/default.aspx>

Behavioral Health
Substance Abuse
Alzheimer's Disease

West Virginia Bureau for Public Health
Division of Health Promotion and Chronic Disease
350 Capitol Street, Room 514
Charleston, WV 25301-3715
Phone: (304) 356-4193

General Chronic Disease:
<https://dhhr.wv.gov/hpcd/Pages/default.aspx>

Cancer:
<http://dhhr.wv.gov/hpcd/FocusAreas/wvcancer/Pages/default.aspx>

Diabetes:
<http://dhhr.wv.gov/hpcd/FocusAreas/wvdiabetes/Pages/default.aspx>

West Virginia Bureau for Public Health
Division of Tobacco Prevention
350 Capitol Street, Room 514
Charleston, WV 25301
Phone: (304) 356-4193
<https://dhhr.wv.gov/wvdtpp/Pages/default.aspx>

West Virginia Bureau for Public Health
Office of Epidemiology and Prevention Services
350 Capitol Street, Room 125
Charleston, WV 25301
Phone: (304) 558-2188

Immunizations:
<http://dhhr.wv.gov/oeps/immunization/Pages/default.aspx>

Infectious Disease:
<http://dhhr.wv.gov/oeps/disease/Pages/default.aspx>

West Virginia Bureau for Public Health
West Virginia Violence & Injury Prevention Program
350 Capitol Street, Room 427
Charleston, WV 25301
Phone: (800) 642-9704
<https://dhhr.wv.gov/vip/Pages/default.aspx>

Accidents

CAVEAT: Data contained in this report were collected from the U.S. Centers for Disease Control and Prevention CDC WONDER Online Database unless otherwise specified. There may be small differences between figures reported nationally by the CDC and figures kept internally by the WV Health Statistics Center.

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- Murphy, S., Xu, J., Kochanek, K., Curtin, S., and Arias, E. (2017). Deaths: Final Data for 2015. *National Vital Statistics Reports. 2017: 66(6)*. Hyattsville, MD: National Center for Health Statistics. Retrieved from https://www.cdc.gov/nchs/data/nvsr/nvsr66/nvsr66_06.pdf
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