

# Leading Causes of Death

Deaths and Crude Death Rates for the Ten Leading Causes of Death, Berrien County and Michigan Residents, 2009 and United States Residents, 2008

Rank	Cause of Death	Number of Deaths			Rate of Deaths		
		Berrien	Michigan	U.S.	Berrien	Michigan	U.S.
1	Heart Disease	360	23,044	617,527	224.3	231.1	203.1
2	Cancer	351	20,174	566,137	218.7	202.4	186.2
3	Chronic Lower Respiratory Disease	95	4,941	141,075	59.2	49.6	46.4
4	Stroke	124	4,415	133,750	77.3	44.3	44.0
5	Unintentional Injuries	64	3,671	121,207	39.9	36.8	39.9
6	Diabetes Mellitus	64	2,689	70,601	39.9	27.0	23.2
7	Alzheimer's Disease	72	2,552	82,476	44.9	25.6	27.1
8	Kidney Disease	32	1,955	61,472	19.6	19.3	20.9
9	Pneumonia/Influenza	19	1,540	56,335	11.8	15.4	18.5
10	Intentional Self-harm (Suicide)	12	1,164	35,933	7.5	11.7	11.8
Subtotal		1,190	65,889	1,873,324	741.6	660.9	616.1
All other causes		394	20,421	599,375	245.5	204.8	197.1
Total		1,584	86,310	2,472,699	987.1	865.7	813.2

Note: Rates are per 100,000 population. Data displayed are by the underlying cause of death which is the condition giving rise to the chain of events leading to death. Causes of death are classified in accordance with the Tenth Revision of the International Classifications of Diseases (ICD-10), a coding structure developed by the World Health Organization. This revision has been used to classify deaths occurring on or after January 1, 1999. [The ICD-10 codes are grouped into broader categories](#) for the causes listed in this table in order to classify these selected causes of death (e.g., ICD-10 codes C00-C97 are used to indicate deaths to cancer).

Source: 2009 Michigan Resident Death File, Division for Vital Records & Health Statistics, Michigan Department of Community Health; Population Estimate (latest update 9/2009), National Center for Health Statistics, [U.S. Census Populations With Bridged Race Categories](#); National Center for Health Statistics, [Deaths: Preliminary Data for 2008](#). [National vital statistics reports: vol 59 no2](#). Hyattsville, MD: National Center for Health Statistics. December 2010.

# Leading Causes of Death

Age-adjusted Death Rates for 10 Leading Causes by Race and Sex,  
Berrien County Residents, 2009.

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Heart Disease	170.9	214.1	142.1	164.7	213.3	130.8	217.5	*	221.9
Cancer	173.7	233.9	132.2	164.8	221.4	126.6	253.3	357.9	*
Chronic Lower Respiratory Diseases	45.7	49.5	44.5	46.7	50.0	46.0	*	*	*
Stroke	58.3	49.2	62.2	58.2	47.1	63.3	*	*	*
Unintentional Injuries	36.7	57.4	20.7	33.5	52.2	*	*	*	*
Diabetes Mellitus	31.6	40.8	25.0	27.1	35.9	20.3	*	*	*
Alzheimer's Disease	33.8	26.9	37.1	34.1	29.3	36.1	*	*	*
Kidney Disease	14.1	*	*	*	*	*	*	*	*
Pneumonia/Influenza	*	*	*	*	*	*	*	*	*
Intentional Self-harm (Suicide)	*	*	*	*	*	*	*	*	*
All other causes	200.1	216.0	186.5	187.8	205.8	170.9	265.7	294.8	264.1
Total	781.7	927.5	673.4	742.4	889.8	628.3	1,046.5	1,288.5	910.8

Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group. Age-adjusted death rates are computed by the direct method, using as the standard population the age distribution of the total population of the United States for the year 2000.

Prior to rate calculations, death records with race not stated were randomly allocated to the white and black groups based on the proportion of Michigan Resident deaths in each of the racial categories for that year. Records with sex not stated were randomly assigned to male and female (50 percent each). Records with age not stated were allocated to the age group 85 and over.

Data displayed are by the underlying cause of death which is the condition giving rise to the chain of events leading to death. Causes of death are classified in accordance with the Tenth Revision of the International Classifications of Diseases (ICD-10), a coding structure developed by the World Health Organization. This revision has been used to classify deaths occurring on or after January 1, 1999.

\*: A rate is not calculated when there are fewer than 20 events because the width of the confidence interval would negate any usefulness for comparative purposes.

Source: 2009 Michigan Resident Death File, Division for Vital Records & Health Statistics, Michigan Department of Community Health; Population Estimate (latest update 9/2009), National Center for Health Statistics, [U.S. Census Populations With Bridged Race Categories](#).

Last updated May 20, 2011.  
For more information, please contact the Epidemiologist at 269.927.5639.