

Peoria County
Mortality
Report

2014

The 2014 Peoria County Mortality Report focuses on leading causes and rates of death among Peoria County residents.

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Public Health
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**Peoria City/County
Health Department**

2014 Peoria County Mortality Report

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Executive Summary

The 2014 Peoria County Mortality Report is intended to provide information on the overall mortality and leading causes of death among Peoria County residents. This report provides data on the number of deaths, death rates, and trends by age, gender, race, and cause of death

Key Findings

- In 2014, there were a preliminary total of 1,619 registered deaths of Peoria County residents.
- The age-adjusted death rate was 767.7 deaths per 100,000; with a median age of 75 years.
- The 6 leading causes of death in 2014 were:
 1. Heart Disease
 2. Cancer
 3. Respiratory Diseases
 4. Dementia
 5. Stroke
 6. External Factors
- Overall males had a higher age-adjusted death rate than females, with African American/Black males having the highest rate of 1338.0 deaths per 100,000.

Overall Mortality

Summary

In 2014, primary death data indicated a total number of 1,619 deaths among Peoria County residents. The crude death rate for 2014 was 865.2 deaths per 100,000 population; with an age-adjusted death rate of 767.7 deaths per 100,000 population. Of the 1,619 deaths, 47.4% were reported among men with an age-adjusted death rate of 846.4 per 100,000. Women accounted for 52.6% of all deaths; an age-adjusted rate of 695.7 per 100,000 (Table 1).

Within Peoria County, the 56.5% of deaths is among those ages 75 years and older, with a median age at death of 78 years. Whites accounted for 86.2% of all deaths with an age-adjusted death rate for Whites is 752.5 per 100,000. While 13.0% of all deaths were among African American/Blacks; the age-adjusted death rate for African American/Blacks it is 929.1 per 100,000. The difference is accounted by the median age at time of death for African American/Blacks is 65 years and for Whites is 80 years.

In Table 2 and 3, age-specific counts and crude death rates by gender and race are available. The crude death rate is higher among African Americans/Blacks compared to their White counterparts at younger age ranges, specifically between the ages of 0 to 34 years.

Table 1: All Causes - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender and Race, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	1,619	75	865.2	767.7
Male	767	73	846.4	846.4
Female	852	83	882.9	695.7
White	1,396	80	994.6	752.5
Male	630	75	923.4	803.1
Females	766	83	1061.9	704.6
African American/Black	211	65	638.4	929.1
Male	129	63	840.2	1338.0
Female	82	69	463.3	640.7

Table 2: All Causes - Age Range Specific Count by Gender and Race, Peoria County, Illinois, 2014

Age Range	All Race			White			African American/Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
00-14	29	16	13	10	3	7	17	11	6
15-24	14	12	2	10	9	1	2	2	0
25-34	24	17	7	15	10	5	9	7	2
35-44	36	25	11	27	17	10	8	7	1
45-54	93	56	37	72	43	29	20	12	8
55-64	224	134	90	175	104	71	49	30	19
65-74	284	150	134	236	120	116	47	29	18
75 +	915	357	558	851	324	527	59	31	28

Table 3: All Causes - Age Range Specific Crude Death Rate (per 100,000 population) by Gender and Race, Peoria County, Illinois, 2014

Age Range	All Race			White			African American/Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
00-14	77.5	82.1	70.9	43.3	25.4	62.2	183.1	236.6	129.4
15-24	52.7	95.3	14.8	55.3	100.3	11.0	32.4	67.7	0.0
25-34	93.6	137.9	55.0	81.2	106.0	55.4	196.4	350.4	77.4
35-44	157.7	169.3	94.2	157.0	198.8	115.7	203.1	402.1	45.5
45-54	373.7	457.8	288.3	356.7	436.2	280.7	538.7	720.3	390.8
55-64	957.7	1699.6	734.4	890.4	1101.1	695.4	1602.4	2135.2	1149.4
65-74	2023.7	2508.0	1803.5	1927.2	2078.3	1792.3	3378.8	4738.6	2310.7
75 +	7298.4	6565.8	7228.0	7433.6	7417.6	7443.5	6505.0	9480.1	4827.6

Mortality by Leading Causes

The leading causes of death by count among Peoria County residents in 2014 were Heart Disease, Cancer, Respiratory Disease, Dementia, Stroke and External Factors (Table 4 & 5). Overall this trend continues when examining age adjusted rates, with the exception being external factors which have a higher rate than stroke. Table 5 also includes gender and race age-adjusted rates.

Specific leading causes of death by age range are provided in Table 6. External factors is the leading cause for individuals ages 0-44 years, with cancer and heart disease ranked first and second for ages 45 and older. Table 7 includes information on contributing factors; tobacco use, obesity, diabetes, hypertension, dementia, alcohol, chronic obstructive pulmonary disease (COPD) and injuries. While these factors may also be the underlying cause of death, they were registered as part of the certificate.

Table 4: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Counts, Peoria County, IL 2014

Leading Cause	Overall	Gender		Race	
		Male	Female	White	AA/Black
All Deaths	1619	767	852	1396	211
Heart Disease	435 (26.9)	212 (26.7)	223 (26.2)	372 (26.6)	62 (29.4)
Cancer	365 (22.5)	182 (23.7)	183 (21.5)	311 (22.3)	52 (24.6)
Respiratory Disease	131 (8.1)	63 (8.2)	68 (8.0)	120 (8.6)	11 (5.2)
Dementia	127 (7.8)	34 (4.4)	93 (10.9)	120 (8.6)	6 (2.8)
Stroke	99 (6.1)	39 (5.1)	60 (7.0)	88 (6.3)	8 (3.8)
External Factors	97 (6.0)	67 (8.7)	30 (3.5)	80 (5.7)	16 (7.6)

Table 5: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Age-Adjusted Death Rates (per 100,000 population) Peoria County, IL 2014

Leading Cause	Count (%)	Age-Adjusted Rate				
		Overall	Gender		Race	
			Male	Female	White	AA/Black
Heart Disease	435 (26.9)	204.6	233.9	177.9	197.1	283.5
Cancer	365 (22.5)	168.0	200.8	113.6	165.6	245.5
Respiratory Disease	131 (8.1)	60.7	69.5	54.1	61.9	59.0
Dementia	127 (7.8)	60.5	37.5	72.3	62.8	37.8
Stroke	99 (6.1)	46.8	43.0	48.8	46.5	33.0
External Factors	97 (6.0)	50.5	73.9	28.5	52.9	46.2

Table 6: Leading Causes of Death, Excluding Infant Mortality by Age Range, Peoria County, Illinois 2014

Rank	Age Range							
	00-14	15-24	25-34	35-44	45-54	55-64	65-74	75 +
1	External Factors	External Factors	External Factors	External Factors	Cancer	Cancer	Cancer	Heart Disease
2			Cancer	Heart Disease	Heart Disease	Heart Disease	Heart Disease	Cancer
3			Heart Disease	Cancer &	External Factors	Respiratory Disease	Respiratory Disease	Dementia
4				Stroke	Stroke	External Factors	Stroke	Respiratory Disease
5					Respiratory Disease	Stroke	Dementia	Stroke
6						Dementia	External Factors	External Factors

Table 7: Select Contributing Factors - Count (%) by Gender, Race, and Age, Peoria County, Illinois 2014

	Tobacco	Obesity	Diabetes	Hypertension	Dementia	Alcohol	COPD	Injury
Overall Population	204 (12.6)	20 (1.2)	126 (7.8)	177 (10.9)	202 (12.5)	46 (2.8)	170 (10.5)	113 (7.0)
Gender								
Male	123 (16.0)	10 (1.3)	73 (9.5)	76 (9.9)	54 (7.0)	35 (4.6)	78 (10.2)	75 (9.8)
Female	81 (9.5)	10 (1.2)	53 (6.2)	101 (11.9)	148 (17.4)	11 (1.3)	92 (10.8)	38 (4.5)
Race								
White	183 (13.1)	18 (1.3)	101 (7.2)	144 (10.3)	188 (13.5)	37 (2.7)	161 (11.5)	95 (6.8)
African American / Black	20 (9.5)	2 (0.9)	23 (10.9)	31 (14.7)	12 (5.7)	9 (4.3)	9 (4.3)	17 (8.1)
Age								
00-14 years	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4 (13.8)
15-24 years	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	11 (78.6)
25-34 years	1 (4.2)	2 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	4 (16.7)	0 (0.0)	16 (66.7)
35-44 years	0 (0.0)	1 (2.8)	2 (5.6)	4 (11.1)	0 (0.0)	5 (13.9)	0 (0.0)	13 (36.1)
45-54 years	14 (15.1)	2 (2.2)	2 (2.2)	8 (8.6)	0 (0.0)	10 (10.8)	2 (2.2)	19 (20.4)
55-64 years	37 (16.5)	6 (2.7)	24 (10.7)	23 (10.3)	4 (1.8)	15 (6.7)	22 (9.8)	20 (8.9)
65-74 years	56 (19.7)	5 (1.8)	30 (10.6)	23 (8.1)	11 (3.9)	8 (2.8)	36 (12.7)	9 (3.2)
≥ 75 years	96 (10.5)	4 (0.4)	68 (7.4)	119 (13.0)	187 (20.4)	4 (0.4)	110 (12.0)	21 (2.3)

Heart Disease

Heart disease accounted for 435 (26.9%) of the total number of deaths among Peoria County residents with a median age of 80 years. The crude death rate was 232.5 deaths per 100,000 population; with an age-adjusted death rate of 204.6 deaths per 100,000 population. Of the 435 deaths, 48.7% were reported among men with an age-adjusted death rate of 233.9 per 100,000. Women accounted for 51.3% of all deaths; an age-adjusted rate of 177.9 per 100,000 (Table 8).

While heart disease represented similar percentages of deaths among Whites and African American/Blacks, the median age for Whites was 82 years compared to 67 years among African American/Blacks.

Table 8 : Heart Disease - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	435	80	232.5	204.6
Gender				
Male	212	75	233.9	233.9
Female	223	84	231.1	177.9
Race				
White	372	82	265.0	197.1
African American / Black	62	67	187.6	283.5
Age				
00-14 years	0	---	0.0	---
15-24 years	0	---	0.0	---
25-34 years	1	---	3.9	---
35-44 years	7	---	30.7	---
45-54 years	22	---	88.4	---
55-64 years	57	---	243.7	---
65-74 years	75	---	534.4	---
≥ 75 years	273	---	2177.6	---

Cancer

Cancer accounted for 365 (22.5%) of the total number of deaths among Peoria County residents with a median age of 72 years. The crude death rate was 195.1 deaths per 100,000 population; with an age-adjusted death rate of 168.0 deaths per 100,000 population. Cancer combined with heart disease accounts for nearly 50% of all deaths.

Cancer deaths were evenly distributed among males (49.9%) and females (50.1%). The age-adjusted death rate for men was 200.8 per 100,000 and 149.1 for women (Table 9). Similarly to heart disease, Whites and African American/Blacks had similar percentages of cancer deaths, with Whites have a greater median age at time of death and lower age-adjusted death rate.

Table 9: Cancer - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	365	72	195.1	168.0
Gender				
Male	182	73	200.8	200.8
Female	183	71	189.7	149.1
Race				
White	311	73	221.6	163.6
African American / Black	52	69	157.3	245.5
Age				
00-14 years	0	---	0.0	---
15-24 years	0	---	0.0	---
25-34 years	2	---	7.8	---
35-44 years	3	---	13.1	---
45-54 years	27	---	108.5	---
55-64 years	79	---	337.8	---
65-74 years	100	---	712.6	---
≥ 75 years	154	---	1228.7	---

Respiratory Disease

Respiratory Disease includes lower respiratory diseases such as chronic obstructive pulmonary disease (COPD) but excludes pneumonia and influenza. Deaths from respiratory disease account for 8.1% with an age-adjusted death rate of 70.0 per 100,000 population (Table 10).

For both males and females, respiratory disease was evenly distributed at 8.0% and 8.2% respectively. In addition, by age-adjusted rates, respiratory disease was the 4th leading cause of death. The age-adjusted death rate for men was 69.5 per 100,000 and 54.1 for women (Table 10). However, examining additional factors, (Table 7), COPD was referenced in 10.5% of all death certificates.

Table 10: Respiratory Disease - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	131	80	70.0	60.7
Gender				
Male	63	80	69.5	69.5
Female	68	80	70.5	54.1
Race				
White	120	80	85.5	61.9
African American / Black	11	78	33.3	59.0
Age				
00-14 years	0	---	0.0	---
15-24 years	0	---	0.0	---
25-34 years	0	---	0.0	---
35-44 years	1	---	4.4	---
45-54 years	1	---	4.0	---
55-64 years	20	---	85.5	---
65-74 years	26	---	185.3	---
≥ 75 years	83	---	662.0	---

Dementia

Dementia accounted for 127 (7.8%) of the total number of deaths among Peoria County residents with a median age of 89 years. The crude death rate was 67.9 deaths per 100,000 population; with an age-adjusted death rate of 60.5 deaths per 100,000 population (Table 11).

Compared to other causes of death, dementia itself is primarily found among older populations. This in turn leads to greater death rates among populations trending towards older ages, primarily females. The age-adjusted death rate for men was 37.5 per 100,000 and 72.3 for women (Table 11). From the death data a total of 202 deaths (12.5%) had dementia as a primary cause or contributing factor of death (Table 7).

Table 11: Dementia - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	127	89	67.9	60.5
Gender				
Male	34	85	37.5	37.5
Female	93	91	96.4	72.3
Race				
White	120	89	85.5	62.8
African American / Black	6	92	18.2	37.8
Age				
00-14 years	0	---	0.0	---
15-24 years	0	---	0.0	---
25-34 years	0	---	0.0	---
35-44 years	0	---	0.0	---
45-54 years	0	---	0.0	---
55-64 years	2	---	8.6	---
65-74 years	6	---	42.8	---
≥ 75 years	119	---	949.2	---

Stroke

In 2014, the leading cause for 99 deaths (6.1%) among Peoria County residents was stroke. The crude death rate was 52.9 deaths per 100,000 population; with an age-adjusted death rate of 46.8 deaths per 100,000 population (Table 12).

Due to the linkage between stroke and heart disease, there is difficulty in the extrapolating which is the leading cause of death. However, within Peoria County 1 in 3 deaths in 2014 is caused by either heart disease or stroke, similar to the national statistic. While the race-specific age-adjusted death rate for Whites is higher than African American/Blacks, it is important to note the difference in median age. In addition women had a higher age-adjusted death rate than their male counterparts (Table 12). Hypertension, a contributing factor for strokes, was specified as either a leading cause or contributing factor of death in 10.9% of all deaths among Peoria County residents (Table 7).

Table 12: Stroke - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	99	83	52.9	46.8
Gender				
Male	39	73	43.0	43.0
Female	60	87	62.2	48.8
Race				
White	88	84	62.7	46.5
African American / Black	8	65	24.2	33.0
Age				
00-14 years	0	---	0.0	---
15-24 years	0	---	0.0	---
25-34 years	0	---	0.0	---
35-44 years	3	---	13.1	---
45-54 years	3	---	12.1	---
55-64 years	13	---	55.6	---
65-74 years	15	---	106.9	---
≥ 75 years	65	---	518.5	---

External Factors

External factors, which include injuries/accidents, homicide and unintentional deaths, was identified as the leading cause in 97 deaths (6.0%). The crude death rate was 51.8 deaths per 100,000 population; with an age-adjusted death rate of 50.5 deaths per 100,000 population (Table 13). For populations under the age of 44, external factors excluding, infant mortality, was the leading cause of death.

External factors were identified as the 3rd leading cause of death among males in Peoria County and for females the 6th leading cause. Males had both a higher crude and age-adjusted rate than females. While the age-adjusted rates by race are similar, the median age of death among African American/Blacks was 30 years compared to 51 years for Whites.

Table 13: External Factors- Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2014

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	97	47	51.8	50.5
Gender				
Male	67	41	73.9	73.9
Female	30	61	31.1	28.5
Race				
White	80	51	57.0	52.9
African American / Black	16	30	48.4	46.2
Age				
00-14 years	4	---	10.7	---
15-24 years	11	---	41.4	---
25-34 years	17	---	66.3	---
35-44 years	12	---	52.6	---
45-54 years	17	---	68.3	---
55-64 years	15	---	64.1	---
65-74 years	4	---	28.5	---
≥ 75 years	17	---	135.6	---

Data Sources

Peoria County Mortality data:

This report presents preliminary information on the causes of death within Peoria County from registered death certificates. Classification and coding of causes utilized the International Classification of Diseases Version 10 (ICD-10). Upon completion of the ICD-10 codes, the selection of underlying causes of death followed guidance by the National Center of Health Statistics (NCHS).

Population data:

Crude death rates were calculated using population estimates from U.S. Census American Community Survey 5-year estimates. Information includes estimates on total population, gender, race, and age groups for Peoria County, Illinois, United States and specific zip codes. Age-adjusted rates were calculated based on the year 2000 standard.

Data limitations:

It is important to note that the original data provided on death certificates comes from funeral directors, physicians, medical examiners, and coroners. As such it is dependent on various factors including known medical condition, history of illness, additional risk factors, and professional decision.

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