

Peoria County
Mortality
Report

2015

The 2015 Peoria County Mortality Report focuses on leading causes and rates of death among Peoria County residents.

October 2016



Public Health
Prevent. Promote. Protect.

**Peoria City/County
Health Department**

Visit www.pcchd.org for more information.

2015 Peoria County Mortality Report

Table of Contents

Executive Summary.....	3
Overall Mortality.....	4-5
Summary.....	4
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, 2015.....	4
Table 2: All Causes - Age Range Specific Count by Gender and Race, Peoria County, Illinois, 2015.....	5
Table 3: All Causes - Age Range Specific Crude Death Rate (per 100,000 population) by Gender and Race, Peoria County, Illinois, 2015.....	5
Mortality by Leading Causes.....	6-13
Summary.....	6
Table 4: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Counts, Peoria County, IL 2015.....	6
Table 5: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Age-Adjusted Death Rates (per 100,000 population) Peoria County, IL 2015.....	6
Table 6: Leading Causes of Death, Excluding Infant Mortality by Age Range, Peoria County, Illinois 2015.....	7
Table 7: Select Contributing Factors - Count (%) by Gender, Race and Age, Peoria County, Illinois 2015.....	7
Heart Disease.....	8
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, 2015.....	8
Cancer.....	9
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, 2015.....	9
Dementia.....	10
Table 10 : Dementia - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2015.....	10
Respiratory Disease.....	11
Table 11 : 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, 2015	11
External Factors.....	12
Table 12 : 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, 2015	12
Stroke.....	13
Table 13 : Stroke- Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2015.....	13
Emerging Issue: Heroin and Drug Overdose.....	14
Table 14 : Drug Overdose and Heroin-related Overdose - County (Percent All Deaths) and Crude Death Rate (per 100,000 population) by Year, Peoria County, Illinois 2013-2015.....	14
Data Sources.....	15

Definitions

Crude death rates: Defined as the total number of deaths divided by the midyear population with a specific geographic area. Crude death rates for individual specific age ranges are called age-specific death rates, because they are the ration of the number of deaths in a given age group to the population of that age group.

Age-adjusted death rates: These rates are based on population estimates and are further standardized to remove the potential bias that when populations with varying age structures are compared. This allows for valid comparisons between geographic areas.

Executive Summary

The 2015 Peoria County Mortality Report is intended to provide information on the leading causes of death among Peoria County residents and the contributing factors. This report provides data on the number of deaths, death rates, and trends by age, gender, race, and cause of death.

Key Findings

- In 2015, a preliminary total of 1,742 deaths were registered deaths in Peoria County.
- The age-adjusted death rate was 828.3 deaths per 100,000.
- The median age at death was 78 years.
- The 6 leading causes of death in 2015 were:
 1. Heart Disease
 2. Cancer
 3. Dementia
 4. Respiratory Diseases
 5. External Factors
 6. Stroke
- Overall, age-adjusted death rates were higher for African American/Blacks with males having the highest rate of 1745.6 deaths per 100,000 and females with a rate of 990.4 deaths per 100,000.

Overall Mortality

Summary

In 2015, primary death data indicated a total number of 1,742 deaths among Peoria County residents. The crude death rate for 2015 was 935.5 deaths per 100,000 population; with an age-adjusted death rate of 828.3 deaths per 100,000 population. Of the 1,742 deaths, 48.5% were reported among men with an age-adjusted death rate of 942.6 per 100,000. Women accounted for 51.5% of all deaths; an age-adjusted rate of 734.3 per 100,000 (Table 1).

Within Peoria County, the 56.9% of deaths is among those ages 75 years and older, with a median age at death of 78 years. Whites accounted for 86.3% of all deaths with an age-adjusted death rate of 797.0 per 100,000. While 13.0% of all deaths were among African American/Blacks, the age-adjusted death rate of 1239.3 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.

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, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	1,742	78	935.5	828.3
Male	844	73	938.4	942.6
Female	898	82	932.7	734.3
White	1,504	80	1113.1	797.0
Male	715	75	1101.6	894.0
Females	789	83	1123.7	718.3
African American/Black	226	65	690.2	1239.3
Male	122	62	826.3	1745.6
Female	104	71	578.4	990.4

Table 2: All Causes - Age Range Specific Count by Gender and Race, Peoria County, Illinois, 2015

Age Range	All Race			White			African American/Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-14	23	17	6	8	6	2	14	10	4
15-24	11	8	3	2	1	1	8	6	2
25-34	23	16	7	14	8	6	8	7	1
35-44	36	21	15	28	16	12	8	5	3
45-54	83	43	40	65	34	31	17	9	8
55-64	256	163	93	203	128	75	52	34	18
65-74	318	170	148	272	148	124	44	21	23
75 +	992	406	586	912	374	538	75	30	45

While the gender and race specific counts by age range in Table 2 demonstrate an overall count highest among Whites, the crude death rates in Table 3 indicate a higher rate among younger age ranges for African Americans/Blacks compared to their White counterparts.

Table 3: All Causes - Age Range Specific Crude Death Rate (per 100,000 population) by Gender and Race, Peoria County, Illinois, 2015

Age Range	All Race			White			African American/Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-14	61.1	87.5	33.2	37.1	55.5	18.6	153.4	221.0	87.0
15-24	45.4	69.0	23.6	12.9	13.0	12.8	124.4	224.1	53.3
25-34	84.6	121.0	49.8	78.0	91.4	65.2	196.6	396.4	43.4
35-44	163.8	193.0	136.7	166.0	189.8	142.2	218.9	329.8	140.3
45-54	362.4	385.6	337.8	359.5	382.2	337.6	470.0	546.5	406.1
55-64	1065.7	1404.9	743.0	1015.7	1337.5	720.1	1589.7	2292.7	1006.7
65-74	1962.8	2277.2	1670.9	1967.0	2315.0	1667.8	2196.7	2114.8	2277.2
75 +	8323.4	9027.9	7904.6	8047.3	8601.7	7702.2	12998.3	19108.3	10714.3

Mortality by Leading Causes

Summary

The leading causes of death by count among Peoria County residents in 2015 were Heart Disease, Cancer, Dementia, Respiratory Disease, External Factors and Stroke (Table 4 & 5).

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 drugs. These factors are registered as part of the death certificate, and may directly increase the risk of death.

Table 4: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Counts, Peoria County, IL 2015

Leading Cause	Overall	Gender		Race	
		Male	Female	White	AA/Black
All Deaths	1742	844	898	1504	226
Heart Disease	463 (26.6)	243 (28.8)	220 (24.5)	397 (26.4)	63 (27.9)
Cancer	380 (21.8)	187 (22.2)	193 (21.5)	323 (21.5)	54 (23.9)
Dementia	140 (8.0)	41 (4.9)	99 (11.0)	126 (8.4)	13 (5.8)
Respiratory Disease	137 (7.9)	59 (7.0)	78 (8.7)	124 (8.2)	13 (5.8)
External Factors	106 (6.1)	68 (8.1)	38 (4.2)	76 (5.1)	29 (12.8)
Stroke	99 (5.7)	33 (3.9)	66 (7.3)	90 (6.0)	8 (3.5)

Table 5: Leading Causes of Death - Count (%), Overall, Gender and Race Specific Age-Adjusted Death Rates (per 100,000 population) Peoria County, IL 2015

Leading Cause	Count (%)	Age-Adjusted Rate				
		Overall	Gender		Race	
			Male	Female	White	AA/Black
Heart Disease	463 (26.6)	216.9	268.6	178.0	207.6	314.5
Cancer	380 (21.8)	174.9	200.5	155.7	168.1	341.0
Dementia	140 (8.0)	70.1	53.8	80.0	66.5	135.2
Respiratory Disease	137 (7.9)	63.9	65.6	62.0	63.3	76.3
External Factors	106 (6.1)	54.8	72.9	36.9	48.9	85.8
Stroke	99 (5.7)	47.2	36.7	53.3	47.2	61.3

Table 6: Leading Causes of Death, Excluding Infant Mortality, by Age Range, Peoria County, Illinois 2015

Rank	Age Range							
	0-14	15-24	25-34	35-44	45-54	55-64	65-74	75 +
1	External Factors	External Factors	External Factors	External Factors	Cancer	Heart Disease	Cancer	Heart Disease
2			Heart Disease	Heart Disease	Heart Disease	Cancer	Heart Disease	Cancer
3			Cancer	Cancer	External Factors	External Factors	Respiratory Disease	Dementia
4				Liver	Liver	Respiratory Disease	Pneumonia & Influenza	Respiratory Disease
5					Respiratory Disease	Infections	Infections	Pneumonia & Influenza
6						Pneumonia & Influenza	Stroke	Stroke

Table 7: Select Contributing Factors - Count (%) by Gender, Race, and Age, Peoria County, Illinois 2015

	Tobacco	Obesity	Diabetes	Hypertension	Dementia	Alcohol	COPD	Drug Use
Overall Population	240 (13.8)	25 (1.4)	137 (7.9)	205 (11.8)	238 (13.7)	27 (1.5)	195 (11.2)	37 (2.1)
Gender								
Male	131 (15.5)	11 (1.3)	68 (8.1)	79 (9.4)	78 (9.2)	21 (2.5)	89 (10.5)	21 (2.5)
Female	109 (12.1)	14 (1.6)	69 (7.7)	126 (14.0)	160 (17.8)	6 (0.7)	106 (11.8)	16 (1.8)
Race								
White	214 (14.2)	21 (1.4)	119 (7.9)	174 (11.6)	212 (14.1)	24 (1.6)	180 (12.0)	30 (2.0)
African American / Black	25 (11.1)	-- (---)	18 (8.0)	31 (13.7)	25 (11.1)	-- (---)	15 (6.6)	7 (3.1)
Age								
0-14 years	0 (0.0)	0 (0.0)	0 (0.0)	-- (---)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
15-24 years	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
25-34 years	0 (0.0)	2 (8.3)	0 (0.0)	0 (0.0)	0 (0.0)	-- (---)	0 (0.0)	-- (---)
35-44 years	-- (---)	-- (---)	-- (---)	-- (---)	0 (0.0)	-- (---)	-- (---)	9 (25.0)
45-54 years	14 (16.9)	8 (9.6)	-- (---)	7 (8.4)	-- (---)	-- (---)	-- (---)	-- (---)
55-64 years	46 (18.0)	8 (3.1)	22 (8.6)	26 (10.2)	0 (0.0)	12 (4.7)	22 (8.6)	14 (5.5)
65-74 years	61 (19.2)	-- (---)	35 (11.0)	37 (11.6)	9 (2.8)	-- (---)	52 (16.4)	-- (---)
≥ 75 years	118 (11.9)	-- (---)	74 (7.5)	133 (13.4)	227 (22.9)	-- (---)	115 (11.6)	0 (0.0)

Heart Disease

Heart disease accounted for 463 (26.6%) of the total number of deaths, with a median age of 78 years, among Peoria County residents. The crude death rate was 234.1 deaths per 100,000 population, with an age-adjusted death rate of 216.9 deaths per 100,000 population. Of the 463 deaths, 52.5% were reported among men with an age-adjusted death rate of 268.6 per 100,000. Women accounted for 47.5% of all deaths due to heart disease; an age-adjusted rate of 178.0 per 100,000 (Table 8).

While heart disease represented similar percentages of deaths among Whites and African American/Blacks, 26.4% and 27.9% respectively, the median age for Whites was 79 years compared to 65 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, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	463	78	234.1	216.9
Gender				
Male	243	74	270.2	268.6
Female	220	82	228.5	178.0
Race				
White	397	79	293.8	207.6
African American / Black	63	65	192.4	314.5
Age				
0-14 years	---	---	---	---
15-24 years	0	---	0.0	---
25-34 years	---	---	---	---
35-44 years	7	---	31.9	---
45-54 years	22	---	96.1	---
55-64 years	77	---	320.5	---
65-74 years	94	---	580.2	---
≥ 75 years	258	---	2164.8	---

Cancer

Cancer accounted for 380 (21.8%) of the total number of deaths among Peoria County residents, with a median age of 73 years. The crude death rate was 204.1 deaths per 100,000 population; with an age-adjusted death rate of 174.9 per 100,000 population.

Cancer deaths were evenly distributed among males (49.2%) and females (50.8%). The age-adjusted death rate for men was 200.5 per 100,000 and 155.7 for women (Table 9). Similarly to heart disease, Whites and African American/Blacks had similar percentages of deaths, although African American/Blacks had a younger median age at time of death and an age-adjusted death rate twice that of Whites.

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, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	380	73	204.1	174.9
Gender				
Male	187	71	207.9	200.5
Female	193	75	200.5	155.7
Race				
White	323	73	239.0	168.1
African American / Black	54	69	164.9	341.0
Age				
0-14 years	--	---	---	---
15-24 years	--	---	---	---
25-34 years	--	---	---	---
35-44 years	--	---	---	---
45-54 years	24	---	104.8	---
55-64 years	73	---	303.9	---
65-74 years	99	---	611.1	---
≥ 75 years	176	---	1476.7	---

Dementia

Dementia accounted for 140 (8.0%) of the total number of deaths among Peoria County residents, with a median age of 90 years. The crude death rate was 75.2 deaths per 100,000 population; with an age-adjusted death rate of 70.1 deaths per 100,000 population (Table 10).

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 53.8 per 100,000 and 80.0 for women (Table 10). From the death data a total of 238 deaths (13.7%) had dementia as a primary cause or contributing factor of death (Table 7).

Table 10: Dementia - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	140	90	75.2	70.1
Gender				
Male	41	87	45.6	53.8
Female	99	91	102.8	80.0
Race				
White	126	90	93.3	66.5
African American / Black	13	93	39.7	135.2
Age				
0-14 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	0	---	0.0	---
65-74 years	--	---	---	---
≥ 75 years	136	---	1141.1	---

Respiratory Disease

Respiratory Disease includes lower respiratory diseases such as chronic obstructive pulmonary disease (COPD) but excludes pneumonia and influenza. It accounts for 7.9% of deaths with an age-adjusted rate of 63.9 per 100,000 population (Table 11).

For both males and females, deaths due to respiratory disease accounted for at 7.0% and 7.8% respectively. The age-adjusted death rate for men was 65.6 per 100,000 and 62.0 for women (Table 11). Data collected on additional factors, (Table 7), showed that COPD was referenced in 11.2% of all death certificates.

Table 11: 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, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	137	79	73.6	63.9
Gender				
Male	59	80	65.6	65.6
Female	78	79	81.0	62.0
Race				
White	124	80	91.8	63.3
African American / Black	13	68	39.7	76.3
Age				
0-14 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	--	---	---	---
55-64 years	21	---	87.4	---
65-74 years	25	---	154.3	---
≥ 75 years	88	---	738.4	---

External Factors

External factors, which includes injuries/accidents, homicide and unintentional deaths, was identified as the leading cause in 106 deaths (6.1%). The crude death rate was 56.9 deaths per 100,000 population, with an age-adjusted death rate of 54.8 deaths per 100,000 population (Table 12). For populations under the age of 44, external factors, excluding infant mortality, was the leading cause of death.

External factors was identified as the 3rd leading cause of death among males in Peoria County and for females the 6th leading cause. Males had nearly twice the crude and age-adjusted rates compared to females. While the age-adjusted rates by race were 1.75 greater for African American/Blacks, the median age of death among African American/Blacks was 30 years compared to 56 years for Whites.

Table 12: 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, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	106	52	56.9	54.8
Gender				
Male	68	45	75.6	72.9
Female	38	56	39.5	36.9
Race				
White	76	56	56.3	48.9
African American / Black	29	30	88.6	85.8
Age				
0-14 years	--	---	---	---
15-24 years	08	---	33.1	---
25-34 years	15	---	55.2	---
35-44 years	16	---	72.8	---
45-54 years	15	---	65.5	---
55-64 years	25	---	104.1	---
65-74 years	10	---	61.7	---
≥ 75 years	13	---	109.1	---

Stroke

In 2015, the leading cause for 99 deaths (5.7%) among Peoria County residents was stroke. The crude death rate was 53.9 deaths per 100,000 population, with an age-adjusted death rate of 47.2 deaths per 100,000 population (Table 13).

Within Peoria County 1 in 3 deaths in were caused by either heart disease or stroke, similar to national statistics. Women had a higher age-adjusted death rate at 53.3 per 100,000 population compared to their male counterparts. (Table 13). Hypertension, a contributing factor for strokes, was specified as either a leading cause or contributing factor of death in 11.8% of all deaths among Peoria County residents (Table 7).

Table 13: Stroke - Count, Median Age, Crude Death Rate and Age-Adjusted Death Rate (per 100,000 population) by Gender, Race and Age, Peoria County, Illinois, 2015

	Count	Median Age	Crude Death Rate	Age-Adjusted Death Rate
Overall Population	99	82	53.2	47.2
Gender				
Male	33	78	36.7	36.7
Female	66	85	68.6	53.3
Race				
White	90	83	66.6	47.2
African American / Black	8	79	24.4	61.3
Age				
0-14 years	--	---	---	---
15-24 years	0	---	0.0	---
25-34 years	--	---	---	---
35-44 years	0	---	---	---
45-54 years	--	---	---	---
55-64 years	11	---	45.8	---
65-74 years	14	---	86.4	---
≥ 75 years	69	---	579.0	---

Emerging Issue: Heroin and Drug Overdose

According to the Centers for Disease Control and Prevention (CDC), from 2002 to 2013 the rate of Heroin-related overdose deaths have quadrupled. The CDC reports that in the past decade Heroin use has more the doubled among 18-25 year olds with 45% of people using addicted to a prescription Opioid medication.

In 2015, Peoria County reported a total of 7 Heroin-related overdose deaths (17.9%) of all drug overdose deaths. Drug use was identified in 37 deaths as either a primary or contributing factor. The difference is due to the use of provisional data. Of the deaths with drug use identified, majority were among White males. In addition 25% of deaths among individual's ages 35-44 years had drug use as a factor. Table 14 gives additional data on overdose and Heroin deaths from 2013-2015.

Table 14: Drug Overdose and Heroin-related Overdose - Count (Percent All Deaths) and Crude Death Rate (per 100,000 population) by Year, Peoria County, Illinois, 2013-2015

	Count (Percent)	Crude Death Rate
Total Overdose Deaths		
2013	34 (1.9)	18.0
2014	29 (1.7)	15.5
2015	39 (2.2)	20.9
Heroin-related		
2013	9 (0.5)	4.8
2014	6 (0.3)	3.2
2015	7 (0.4)	3.8

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.

For additional information, please contact:

Monica Hendrickson, MPH
Epidemiologist, Peoria City/County Health Department
2116 N. Sheridan Road, Peoria, IL 61604
(309) 679-6000