

Vital Statistics - Deaths

DEATHS IN KANE COUNTY 2023



PREPARED BY
THE DIVISION OF PLANNING AND INFORMATION MANAGEMENT

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Overview

This report presents an analysis of deaths among Kane County residents between 2014 and 2023. The primary objective of this report is to provide a detailed overview of mortality trends and rates specific to Kane County populations. Included within this report are mortality counts, mortality rates, decedent demographic characteristics such as age, sex, and race and ethnicity, as well as insights into the manner of death and other relevant death trends.

This report analyzes deaths according to the underlying cause of death, which is classified by International Classification of Diseases, 10th Revision (ICD-10). Mortality data utilized for this analysis were sourced from the Illinois Department of Public Health (IDPH) Vital Statistics Mortality Files¹ for Kane County and the Centers for Disease Control and Prevention (CDC) WONDER database² for Illinois and the United States.

Methods

The data contained within this report are representative of all registered deaths among Kane County residents from 2014 to 2023. Death records were obtained from vital records (death certificate) data provided by the Illinois Department of Public Health (IDPH). All deaths included in this report pertain to individuals who were residents of Kane County, regardless of the location of death.

Race and ethnicity are reported separately on death records. For this report, race and ethnic background will be aggregated into the categories of Hispanic or Latino, Non-Hispanic White, Non-Hispanic Black, and Non-Hispanic Other. Non-Hispanic Other includes race categories such as American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, or multiple races selected and are combined due to small numerator values ([See Technical Notes](#)).

All rates in this report are age-adjusted unless otherwise stated. Death rates, both crude and age-adjusted, were calculated using population denominators derived from CDC WONDER Single Race Estimates^{3,4} for Kane County produced by the U.S. Census Bureau.

Cells with a count fewer than 5 has been suppressed to ensure confidentiality standards are maintained. It is important to note that numbers and rates presented in this report may slightly differ from those in publicly available reports.

Definitions

[*Age-Adjusted Death Rate*](#): Age-adjustment for death rates is a way to compare death rates between different populations or over time, while accounting for differences in age distributions. Age-adjustment is a statistical method that recalculates the death rates as if both populations had the same age distribution, revealing true differences in mortality rates between the populations, without the influence of their different age groups.

[*International Classification of Diseases, Tenth Revision \(ICD-10\)*](#): International Classification of Diseases, 10th Revision (ICD-10) is a global standard diagnostic tool maintained by the World Health Organization (WHO). ICD-10 codes are alphanumeric codes used by healthcare providers to classify diseases, injuries, and other health conditions.

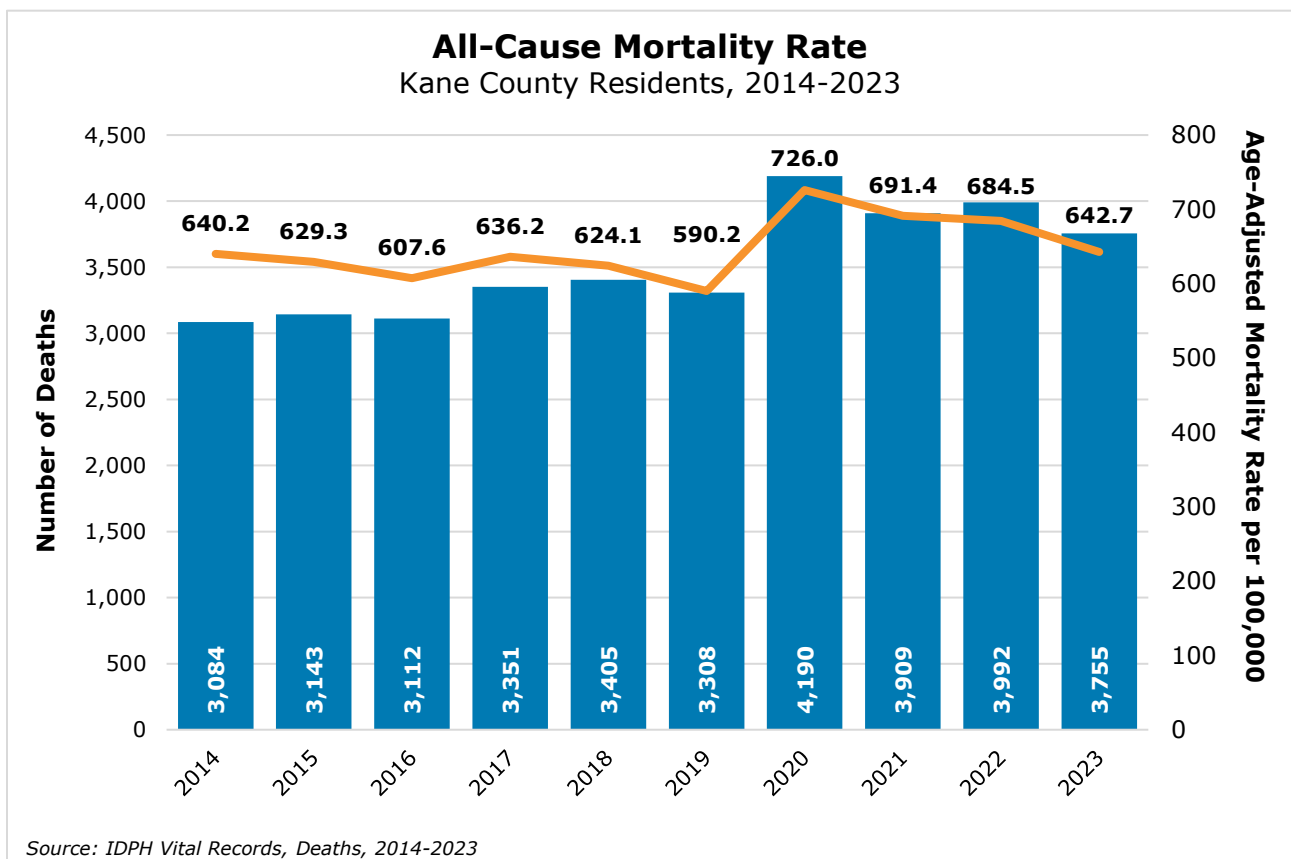
Deaths in Kane County Residents

Key Takeaways

- In 2023, there were 3,755 Kane County resident deaths, with an age-adjusted mortality rate of 642.7 deaths per 100,000 residents.
- The highest all-cause mortality rate occurred in 2020, with 726.0 deaths per 100,000 residents.
- Historically, Non-Hispanic Black Kane County residents have had higher mortality rates in comparison to all other race and ethnic groups.
- For 2023, the top three leading causes of death in Kane County residents were cancer, heart disease, and stroke.

All-Cause Mortality

In 2023, there were 3,755 deaths in Kane County residents. The all-cause mortality rate for 2023 was 642.7 per 100,000 residents. Of the 3,755 Kane County residents who died in 2023, the largest proportion were 85+ years and older (31.0%, n=1,163), male (51.3%, n=1,926), and Non-Hispanic White (79.2%, n=2,975) ([Table A](#)). The majority of Kane County resident deaths in 2023 were due to natural causes (92.0%), followed by accidental (6.1%), intentional self-harm (suicide) (1.1%), homicide (0.5%), and those that could not be determined (0.3%). The detailed number of deaths and mortality rates, both crude and age-adjusted, for all-cause mortalities in Kane County residents by age group, sex, and race and ethnicity in 2023 can be found in the Detailed Data Tables ([Table A](#)).



Leading Causes of Death

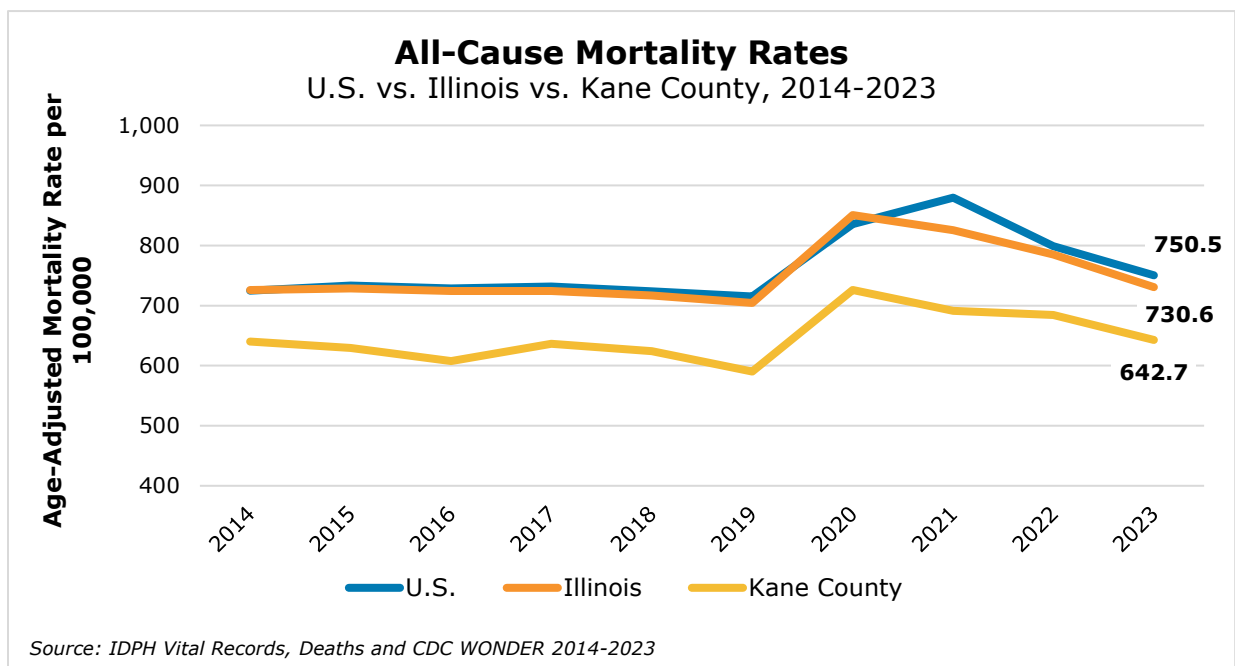
In 2023, the top 10 leading causes of death were cancer, heart disease, stroke, accidents (unintentional injuries), chronic lower respiratory diseases, Alzheimer's disease, chronic kidney disease, diabetes, chronic liver disease and cirrhosis, and Parkinson's disease.

Top 10 Leading Causes of Death Kane County Residents, 2023

Underlying Cause of Death and ICD-10 Code(s)	Count
Malignant neoplasms (C00-C97)	837
Diseases of heart (I00-I09, I11, I13, I20-I51)	751
Cerebrovascular diseases (I60-I69)	287
Accidents (unintentional injuries) (V01-X59, Y85-Y86)	219
Chronic lower respiratory diseases (J40-J47)	132
Alzheimer's disease (G30)	119
Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)	84
Diabetes mellitus (E10-E14)	81
Chronic liver disease and cirrhosis (K70, K73-K74)	79
Parkinson's disease (G20-G21)	64
<i>All Other Causes of Death</i>	<i>1,102</i>
Total	3,755

United States vs. Illinois vs. Kane County Mortality Rate Comparison

The Kane County all-cause mortality rate remained stable over the last decade until a notable 23% increase in the all-cause mortality rate in 2020 (726.0 per 100,00) from 2019 (590.2 per 100,000). Similarly, the U.S. and Illinois all-cause mortality rates were stable over the last decade until a 21% increase from 2019 (704.4 per 100,000) to 2020 (850.7 per 100,000) for Illinois and a 17% increase from 2019 (715.2 per 100,000) to 2020 (835.4 per 100,00) for the United States. Overall, the all-cause mortality rate for Kane County is lower than Illinois and the United States.



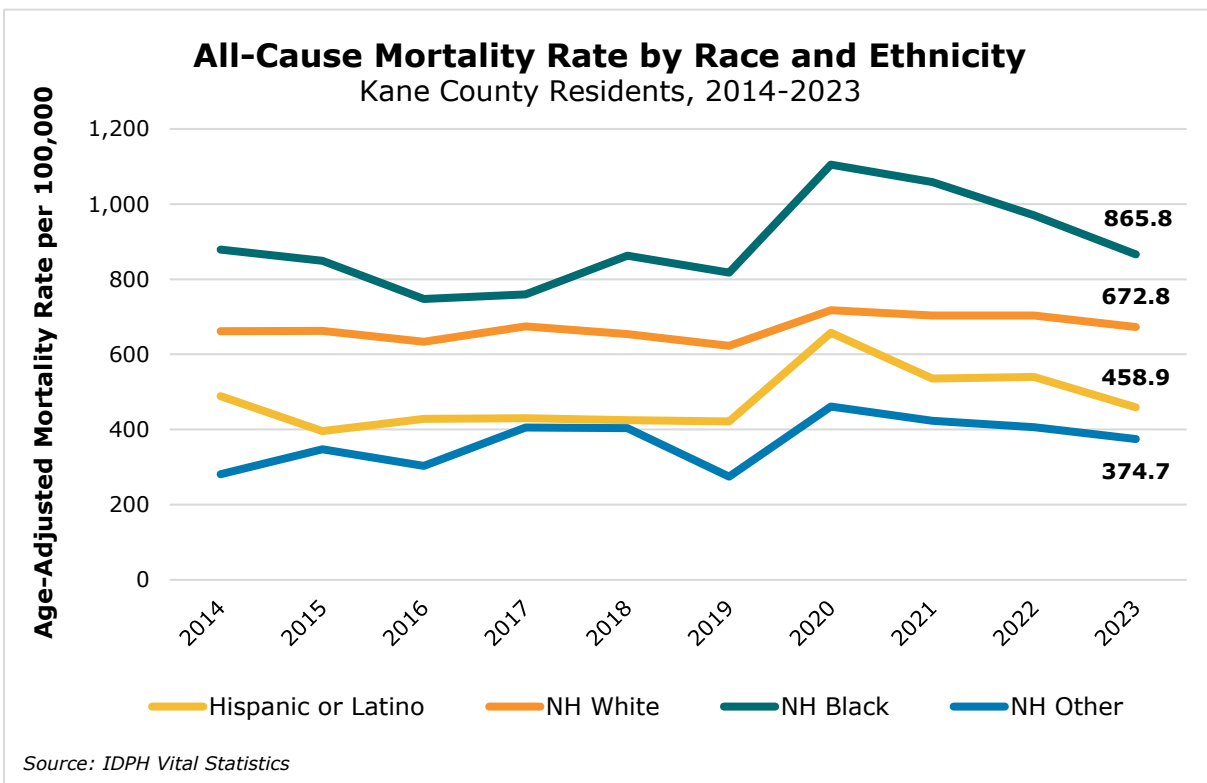
By Age Group

In 2023, cancer was the leading cause of death for five of the ten age groups as seen below. For all Kane County resident deaths in 2023, cancer caused 1 in 5 of resident deaths. Deaths from heart disease primarily affected deaths in those aged 35 and older, while accidents (unintentional injuries) and cancer were the leading causes of death for those below age 35.

Top 3 Underlying Causes of Death by Age Group Kane County Residents, 2023, IDPH Vital Statistics and CDC WONDER										
Rank	Under 5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
1	Certain conditions in the perinatal period	Cancer	Accidents (Unintentional Injuries)	Accidents (Unintentional Injuries)	Accidents (Unintentional Injuries)	Cancer	Cancer	Cancer	Cancer	Heart Disease
2	Congenital malformations, deformations, & chromosomal abnormalities	Congenital malformations, deformations, & chromosomal abnormalities	Homicide	Cancer	Cancer	Accidents (Unintentional Injuries)	Heart Disease	Heart Disease	Heart Disease	Cancer
3	Accidents (Unintentional Injuries)	Suicide	Suicide	Suicide	Heart Disease	Heart Disease	Accidents (Unintentional Injuries)	Stroke	Stroke	Stroke

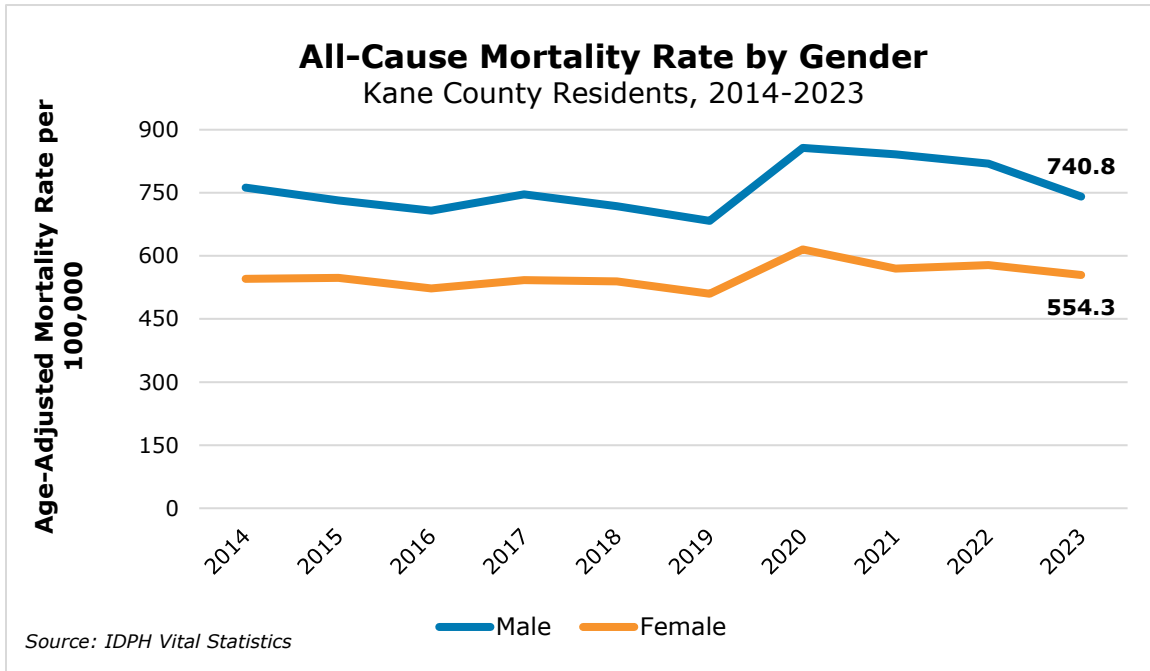
By Race and Ethnicity

The all-cause mortality rate was highest for Non-Hispanic Black (865.8 per 100,000), followed by Non-Hispanic White (672.8 per 100,000), Hispanic or Latino (458.9 per 100,000), and Non-Hispanic Other (374.7 per 100,000). Non-Hispanic Black residents have had the highest all-cause mortality rate among Kane County residents between 2014 and 2023.



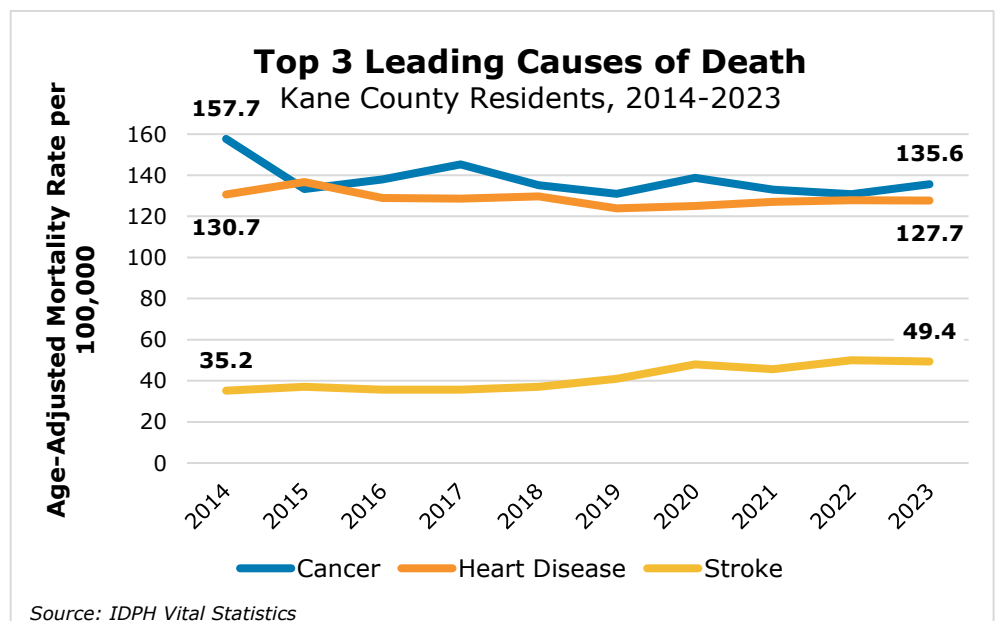
By Gender

The all-cause mortality rate in Kane County was 740.8 deaths per 100,000 for men and 554.3 per 100,000 for women. Among male decedents in 2023, the top 5 leading causes of death were cancer, heart disease, accidents (unintentional injuries), stroke, and chronic lower respiratory diseases. Among female decedents in 2023, the top 5 leading causes of death were cancer, heart disease, stroke, chronic lower respiratory diseases, and Alzheimer's disease.



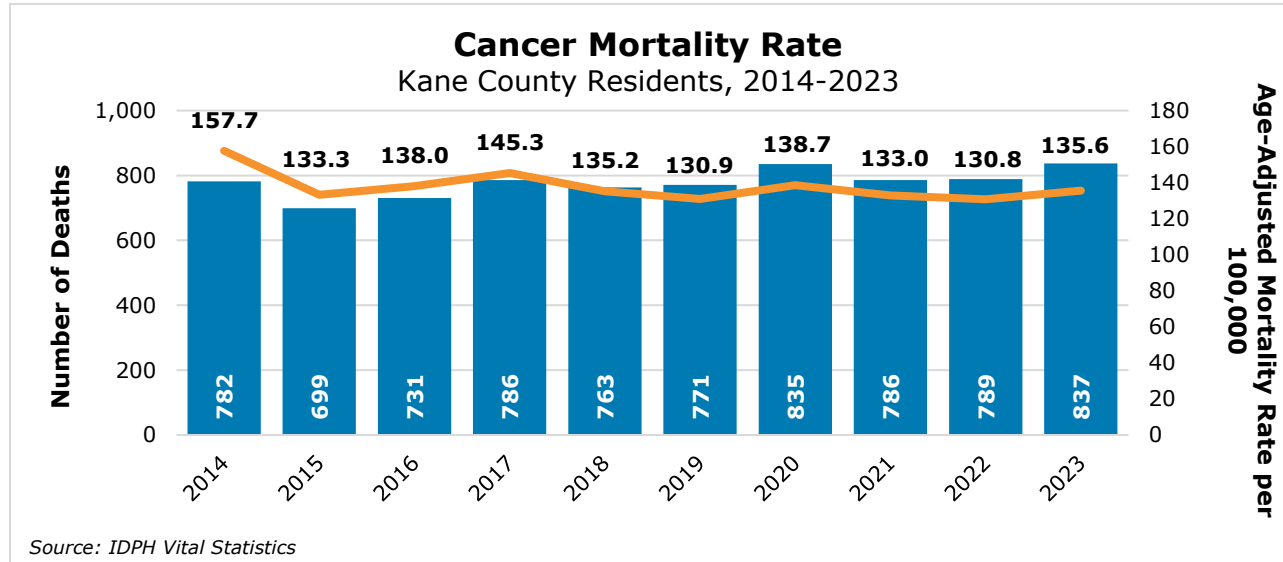
Top 3 Leading Causes of Death in Kane County for 2023

For 2023, the top 3 leading causes of death were cancer (n=837), heart disease (n=751), and stroke (n=287). Since 2014, there has been a gradual decrease in both the number and rate of cancer deaths, while the number and rate of heart disease deaths have remained relatively stable. Conversely, the number and rate of stroke deaths have shown an upward trend during this period. At the national and state level, the top 3 leading causes of death in 2023 were heart disease, cancer, and accidents (unintentional injuries).



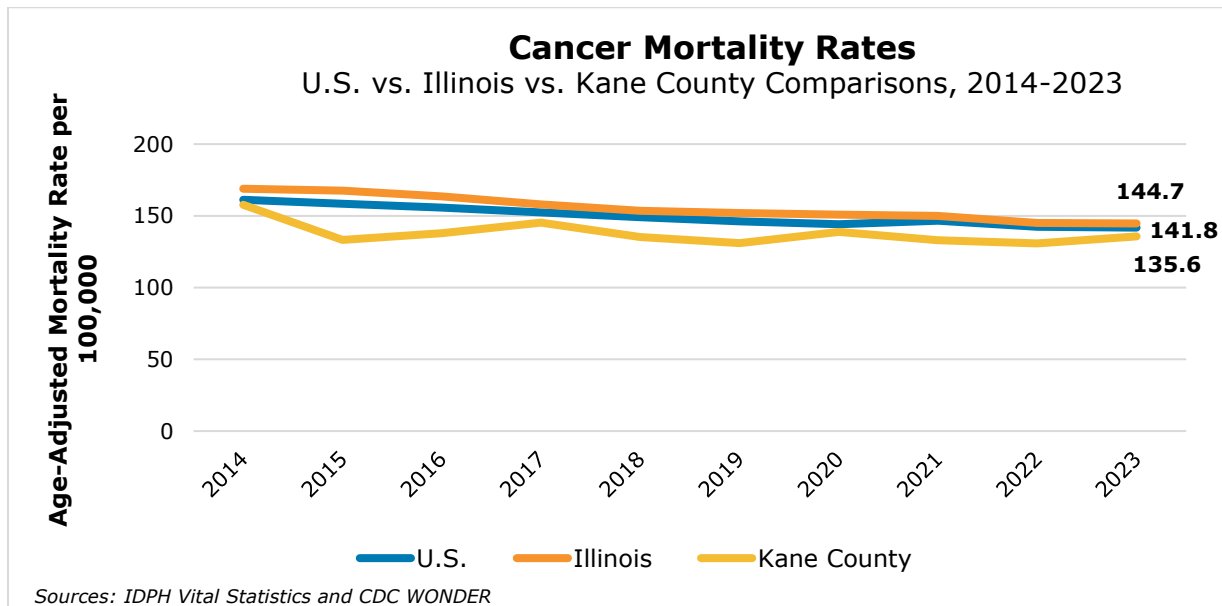
Cancer

For 2023, the cancer mortality rate for Kane County was 135.6 per 100,000. Cancer deaths are classified by underlying ICD-10 codes C00-C97. Historically between 2014 and 2023, there has been a 14% decline from 157.7 per 100,000 in 2014 to 135.6 per 100,000 in 2023. The detailed number of deaths and mortality rates, both crude and age-adjusted, for cancer deaths for Kane County residents in 2023 by age group, sex, and race and ethnicity can be found in the Detailed Data Tables ([Table B](#)).



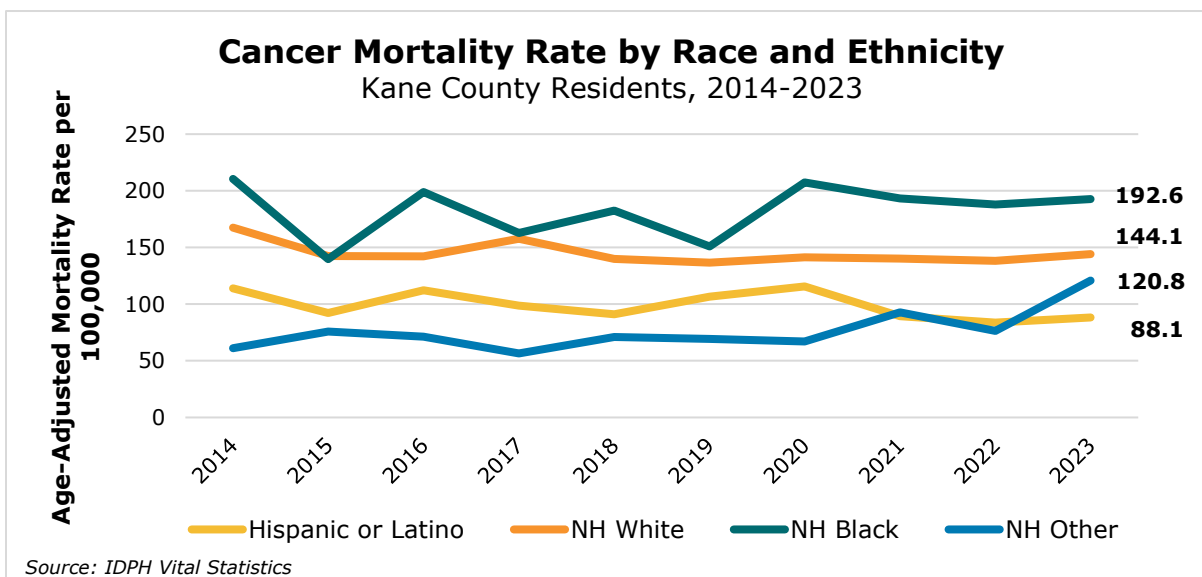
United States vs. Illinois vs. Kane County Mortality Rate Comparison

Since 2014, the Kane County age-adjusted cancer mortality rate has declined by 14%. In a similar trend, the U.S. and Illinois age-adjusted cancer mortality rates have declined 14% from 2014 (168.9 per 100,000) to 2023 (144.7 per 100,000) for Illinois and by 12% from 2014 (161.2 per 100,000) to 2023 (141.8 per 100,000) for the United States.



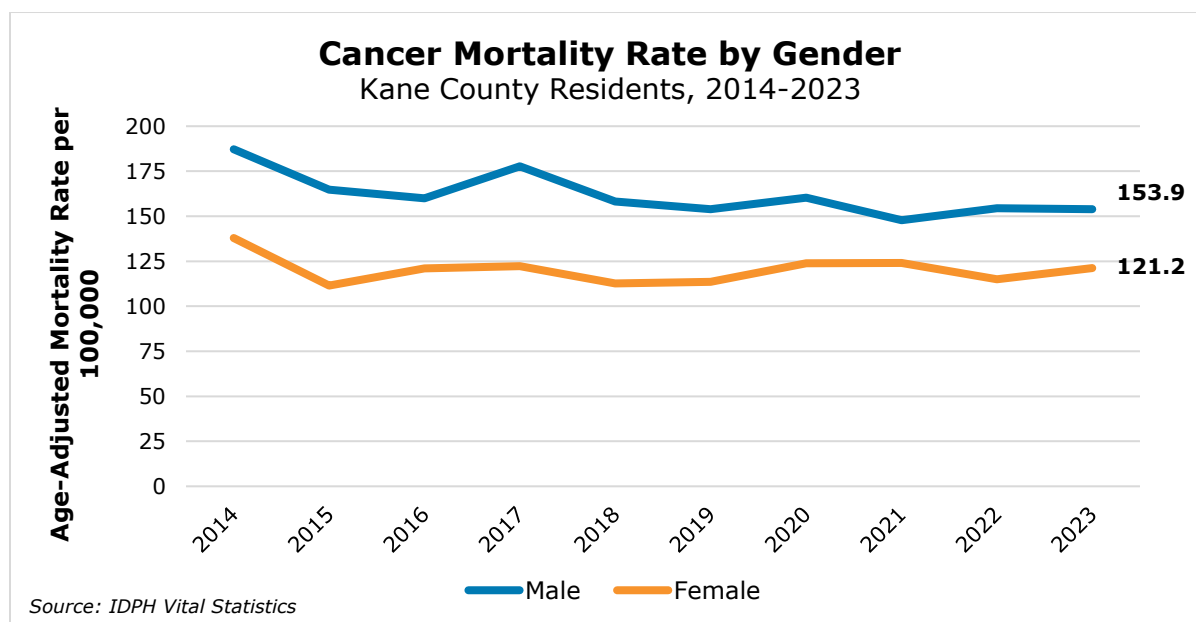
By Race and Ethnicity

In 2023, the age-adjusted cancer mortality rate was highest in Non-Hispanic Black (192.6 per 100,000), followed by Non-Hispanic White (144.1 per 100,000), Non-Hispanic Other (120.8 per 100,000), and Hispanic or Latino (88.1 per 100,000) residents. Between 2014 and 2023, Non-Hispanic Black residents had the highest age-adjusted cancer mortality rate in comparison to all other racial/ethnic groups, with the exception of 2015.



By Gender

Men have had a higher age-adjusted cancer mortality rate between 2014 and 2023, in comparison to women. In 2023, the age-adjusted cancer mortality rate for men (153.9 per 100,000) was 24% greater than the cancer death rate for women (121.2 per 100,000). The cancer mortality rate has declined 18% for men between 2014 (187.2 per 100,000) and 2023 (153.9 per 100,000). For women, the cancer mortality rate has declined by 12% between 2014 (137.9 per 100,000) and 2023 (121.2 per 100,000).

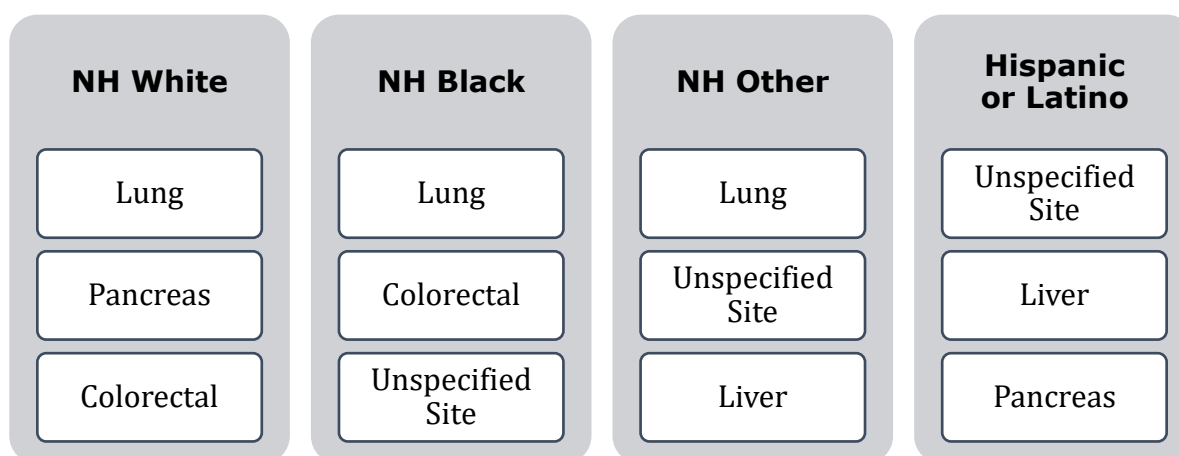


Most Common Types of Cancer Resulting in Death

Among all Kane County resident cancer deaths, the five most common types of fatal malignant neoplasms were lung, pancreas, colorectal, liver, and breast. Among all Kane County cancer deaths, 1 in 5 deaths were due to lung cancer.

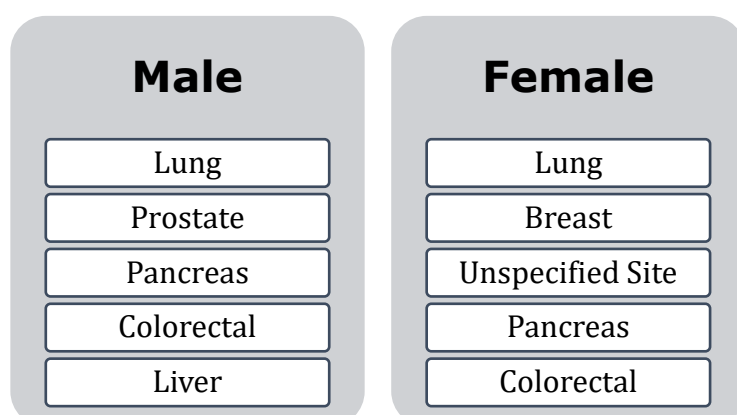
By Race and Ethnicity

The most common types of cancer among Kane County resident decedents by race and ethnicity were lung cancer for Non-Hispanic White, Non-Hispanic Black, and Non-Hispanic Other, while unspecified site of cancer was the most common for Hispanic or Latino.



By Gender

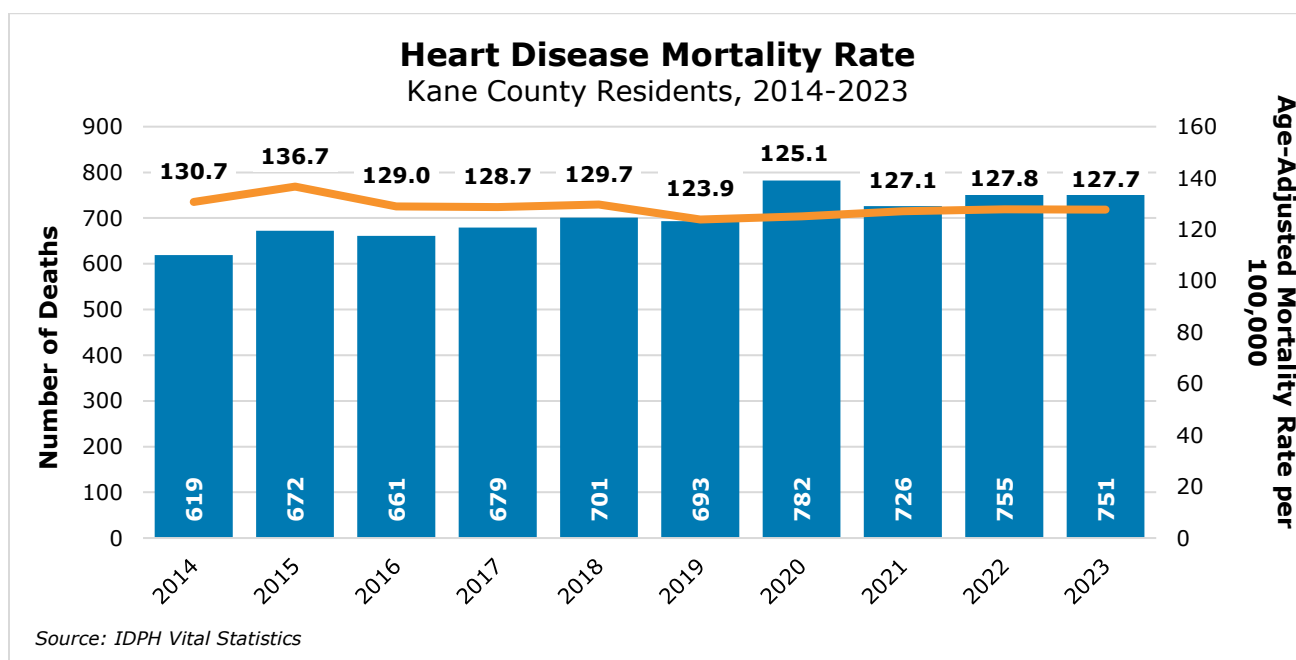
Among male Kane County resident cancer deaths, the five most common types of fatal malignant neoplasms were lung, prostate, pancreas, colorectal, and liver. In 2023, lung cancer was responsible for 1 in 5 male cancer deaths, while prostate cancer was responsible for 1 in 10 male cancer deaths in Kane County residents.



Among female Kane County resident cancer deaths, the five most common types of fatal malignant neoplasms were lung, breast, unspecified site, pancreas, and colorectal. In 2023, lung cancer was responsible for nearly 1 in 4 female cancer deaths in Kane County residents.

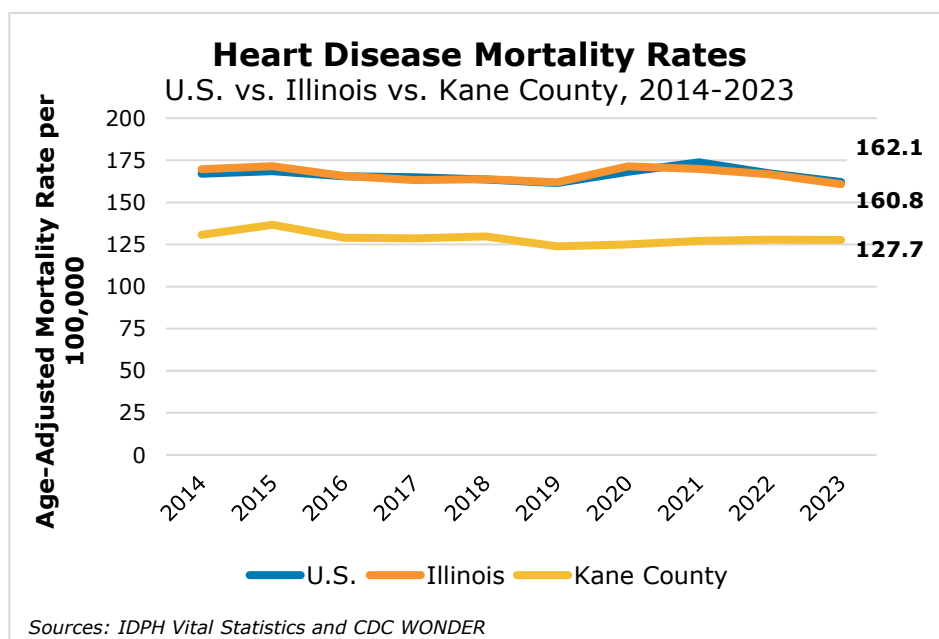
Heart Disease

Heart disease is the second leading causing of death in Kane County and has remained over the last decade. At the national and state level, heart disease was the leading cause of death for 2023. Heart disease deaths are classified by underlying ICD-10 codes I00-I09, I11, I13, and I20-I51. The heart disease mortality rate for Kane County in 2023 was 127.7 per 100,000. The number of deaths and mortality rates, both crude and age-adjusted, for heart disease mortalities in Kane County residents in 2023 by age group, sex, and race and ethnicity can be found in the Detailed Data Tables ([Table C](#)).



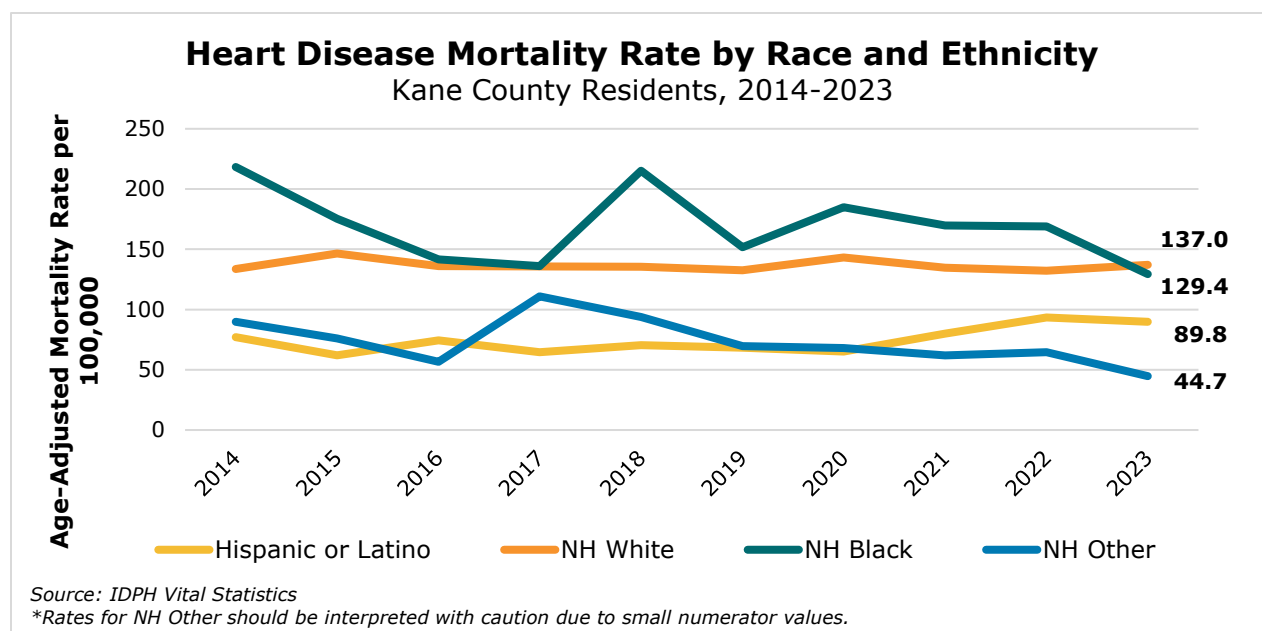
United States vs. Illinois vs. Kane County Mortality Rate Comparison

Between 2014 and 2023, the Kane County heart disease mortality rate has marginally decreased by 2% from 130.7 per 100,000 in 2014 to 127.7 per 100,000 in 2023. The heart disease mortality rate for Kane County is around 23% lower than the national and state measures for 2023. The U.S. and Illinois heart disease mortality rate has decreased over the last decade, with the U.S. rate falling by 3% and the Illinois rate falling by 5% between 2014 and 2023.



By Race and Ethnicity

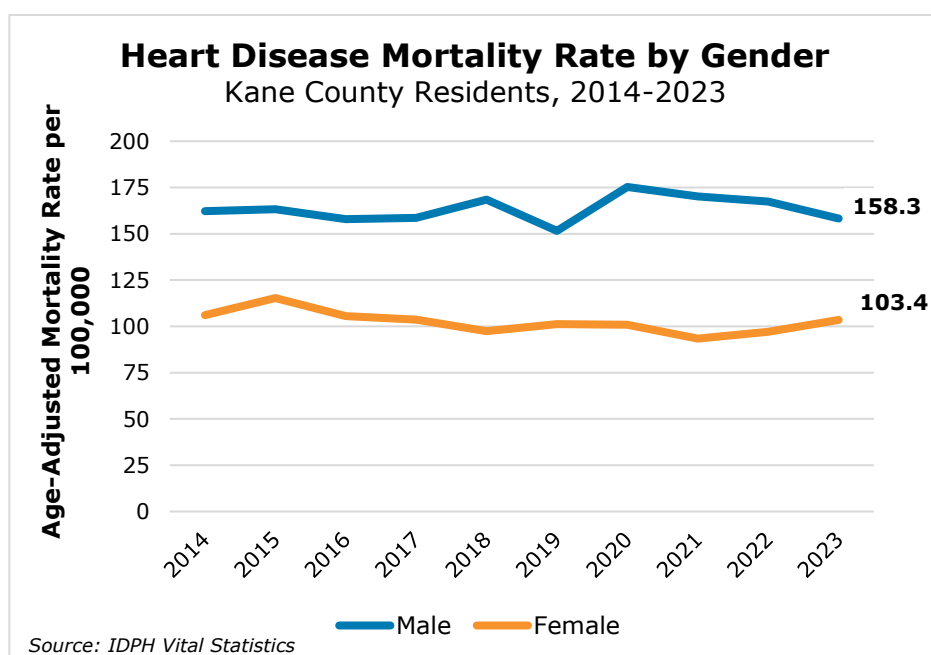
In 2023, the heart disease mortality rate was highest in Non-Hispanic White (137.0 per 100,000), followed by Non-Hispanic Black (129.4 per 100,000), Hispanic or Latino (89.8 per 100,000) and Non-Hispanic Other (44.7 per 100,000) residents. Between 2014 and 2023, Non-Hispanic Black residents have had the highest heart disease mortality rate in comparison to all other race and ethnic groups. The heart disease mortality rate among Non-Hispanic Black residents has decreased by 51% between 2014 (218.3 per 100,000) and 2023 (129.4 per 100,000).



By Gender

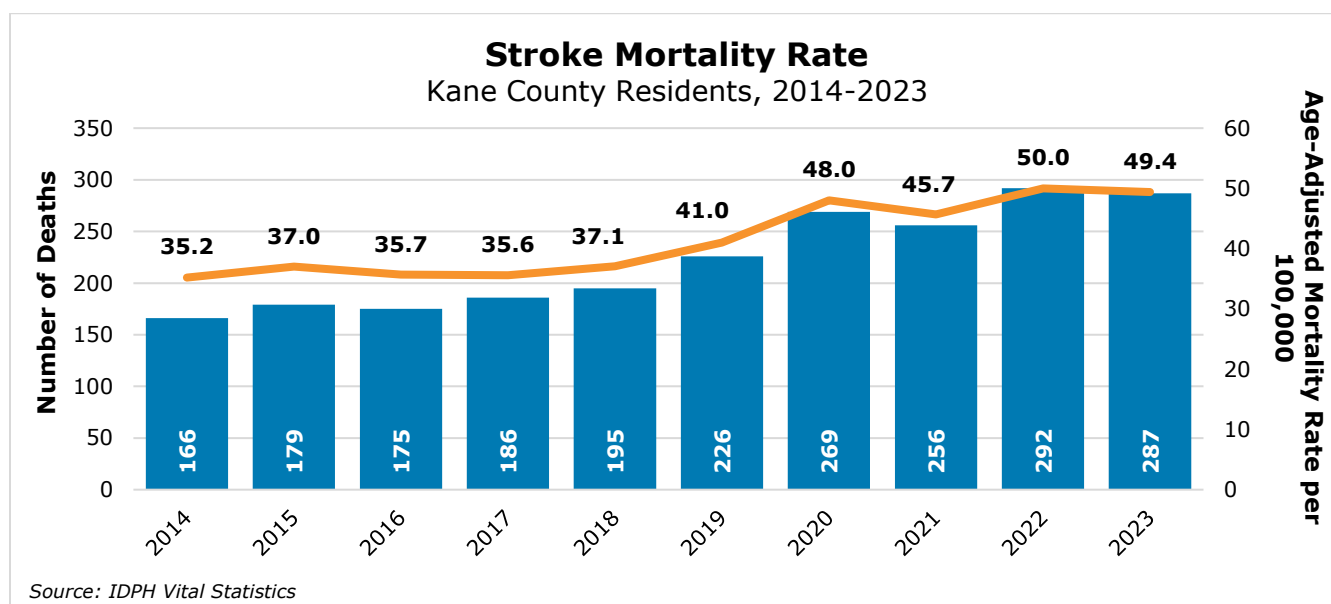
Heart disease mortality was higher among men compared to women every year between 2014 and 2023. In 2023, the age-adjusted heart disease mortality rate for men (158.3 per 100,000) was 42% greater than the heart disease mortality rate for women (103.4 per 100,000).

The heart disease mortality rate has marginally fallen by 3% for men between 2014 (162.3 per 100,000) to 2023 (158.3 per 100,000). Similarly, the heart disease mortality rate has fallen by 3% for women from 106.1 per 100,000 in 2014 to 103.4 in 2023.



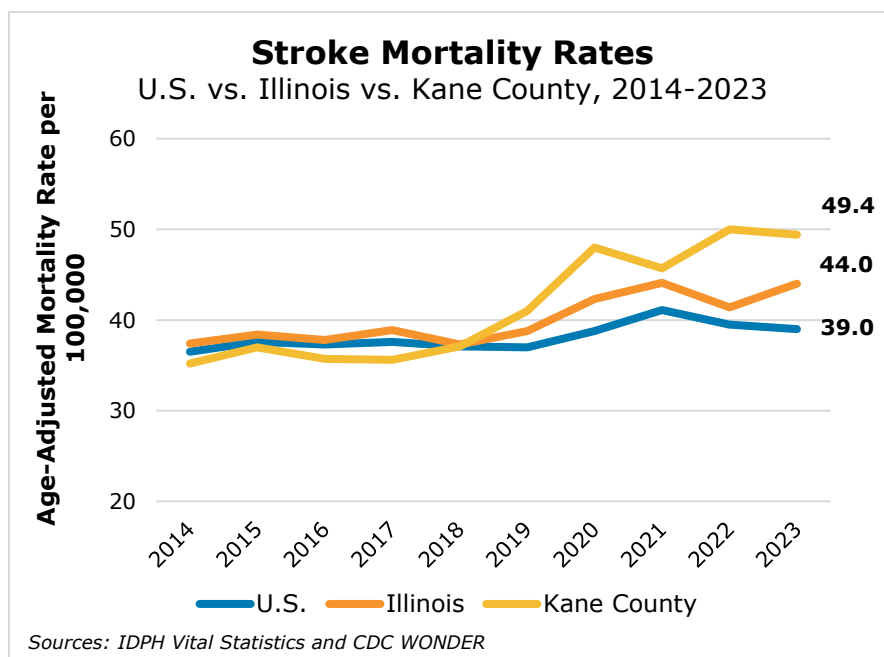
Stroke

Stroke (cerebrovascular disease) is the third leading causing of death in Kane County and has increased by 40% over the last decade from 35.2 per 100,000 in 2014 to 49.4 per 100,000 in 2023. At the national and state level, stroke was the 4th leading cause of death in 2023, moving up one spot from the 5th leading cause of death in 2022. Stroke deaths are classified by underlying ICD-10 codes I60-I69. The number of deaths and mortality rates, both crude and age-adjusted, for stroke deaths in Kane County residents in 2023 by age group, sex, and race and ethnicity can be found in the Detailed Data Tables ([Table D](#)).



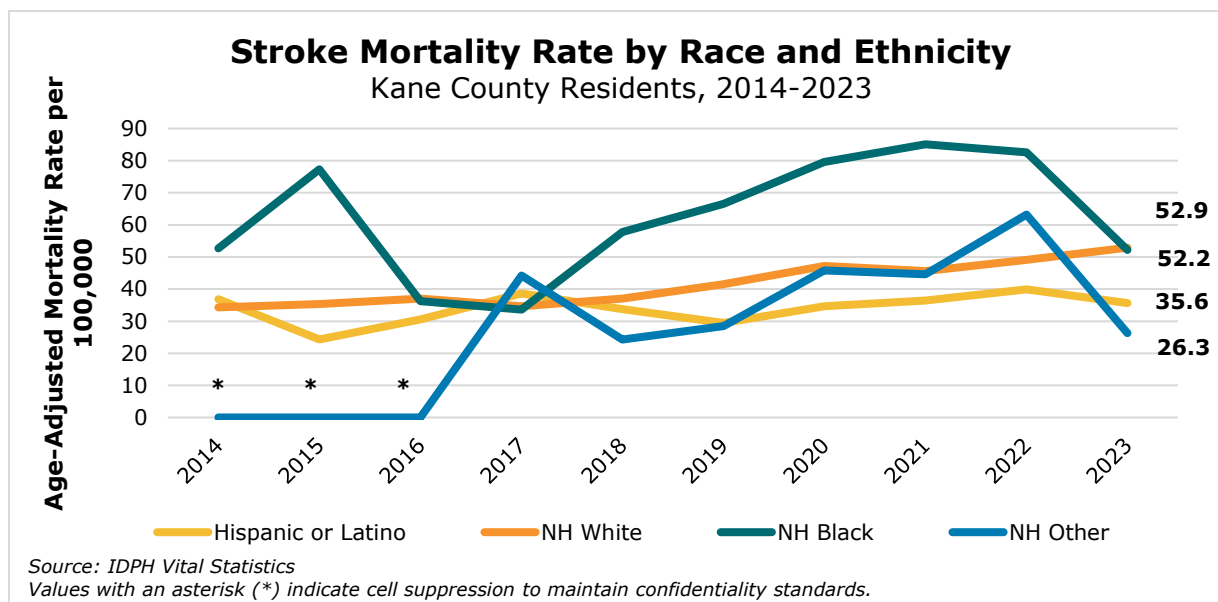
United States vs. Illinois vs. Kane County Mortality Rate Comparison

Since 2019, Kane County maintained the highest age-adjusted stroke mortality rate compared to national and state measures. As of 2023, the Kane County stroke mortality rate is 24% higher than the U.S. rate and 12% higher than the Illinois rate. The U.S. and Illinois stroke mortality rates have increased over the last decade, with the U.S. rate rising by 7% and the Illinois rate rising by 18% between 2014 and 2023.



By Race and Ethnicity

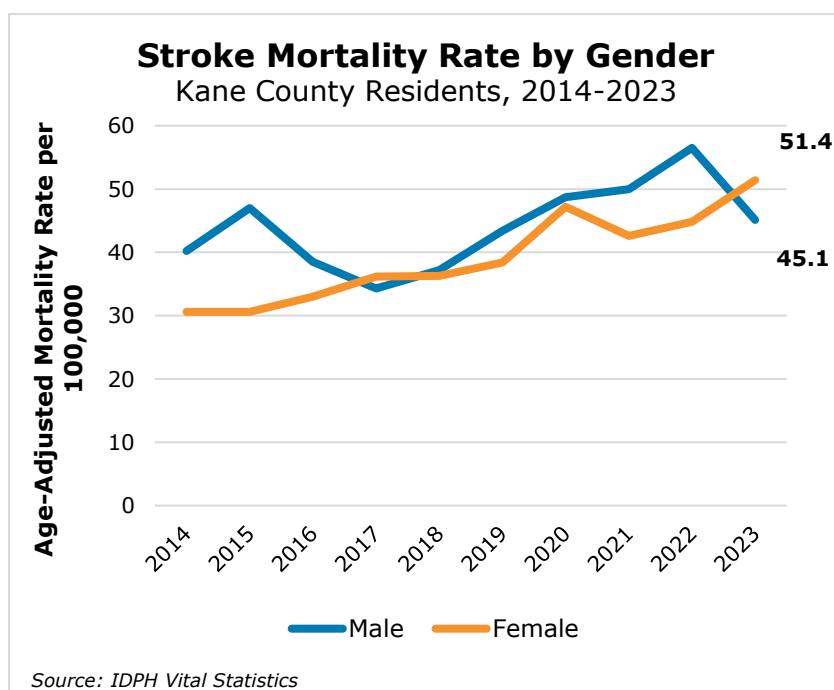
In 2023, the stroke mortality rate was highest in Non-Hispanic White (52.9 per 100,000), followed by Non-Hispanic Black (52.2 per 100,000), Hispanic or Latino (35.6 per 100,000), and Non-Hispanic Other (26.3 per 100,000) residents. Between 2018 and 2022, Non-Hispanic Black individuals have consistently maintained the highest stroke mortality rate among all racial and ethnic groups, experiencing a 40% increase from 57.8 per 100,000 to 82.6 per 100,000 over that period of time.



By Gender

Historically, men have had the higher stroke mortality rate in Kane County between 2018 and 2022, in comparison to women. In 2022, the age-adjusted stroke mortality rate for men (56.5 per 100,000) was 23% higher than the stroke mortality rate for women (44.8 per 100,00). In 2023, the female stroke mortality rate (51.4 per 100,000) was greater than the male stroke mortality rate (45.1 per 100,000) for the first time since 2017.

Over the past decade, the stroke mortality rate has increased across both genders. Between 2014 and 2023 the stroke mortality rate increased by 11% for men and 51% for women.



References

¹Deaths, Kane County, Illinois, 2014-2022. Illinois Department of Public Health Division of Vital Records.

²Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, released in 2021. Data are from the Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <http://wonder.cdc.gov/ucd-icd10.html>

²Single-race Population Estimates, United States, 2010-2020. July 1st resident population by state, county, age, sex, single-race, and Hispanic origin, on CDC WONDER Online Database. Vintage 2020 estimates released by U.S. Census Bureau on July 27, 2021. Accessed at <http://wonder.cdc.gov/single-race-v2020.html>

⁴Single-race Population Estimates, United States, 2020-2023. July 1st resident population by state, county, age, sex, single-race, and Hispanic origin, on CDC WONDER Online Database. The 2020-2023 postcensal series of estimates of the July 1 resident population are based on the modified Blended Base produced by the US Census Bureau in lieu of the April 1, 2020 decennial population count, released by the Census Bureau on June 22, 2023.

Detailed Data Tables

Table A: All-Cause Mortality Counts and Age-Adjusted Rates by Demographics

Kane County Residents, 2023

Age	Total	Percentage	Crude Rate per 100,000 population	Age-Adjusted Rate per 100,000 population
Under 5 years	43	1.1	148.6	—
5 - 9 years	5	0.1	15.2*	—
10 - 14 years	6	0.2	17.2*	—
15 - 19 years	20	0.5	53.1	—
20 - 24 years	29	0.8	88.0	—
25 - 29 years	19	0.5	62.9*	—
30 - 34 years	33	0.9	104.3	—
35 - 39 years	59	1.6	177.7	—
40 - 44 years	46	1.2	131.6	—
45 - 49 years	82	2.2	244.3	—
50 - 54 years	110	2.9	314.2	—
55 - 59 years	163	4.3	486.5	—
60 - 64 years	237	6.3	727.8	—
65 - 69 years	300	8.0	1,100.5	—
70 - 74 years	418	11.1	1,887.0	—
75 - 79 years	503	13.4	3,208.3	—
80 - 84 years	519	13.8	5,388.3	—
85 years and over	1,163	31.0	13,812.4	—
Sex				
Male	1,926	51.3	745.8	740.8
Female	1,829	48.7	712.4	554.3
Race and Ethnicity				
NH White	2,975	79.2	1,051.7	672.8
Hispanic or Latino	463	12.3	268.4	458.9
NH Black	222	5.9	821.5	865.8
NH Other	95	2.5	291.3	374.7
Total	3,755	100.0	729.2	642.7

* Rate may be unreliable due to small numerator.

Source: Illinois Department of Public Health (IDPH) Vital Records, Deaths, 2023

Table B: Cancer Mortality Counts and Age-Adjusted Rates by Demographics

Kane County Residents, 2023

Age	Total	Percentage	Crude Rate per 100,000 population	Age-Adjusted Rate per 100,000 population
Under 5 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
5 - 9 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
10 - 14 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
15 - 19 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
20 - 24 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
25 - 29 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
30 - 34 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
35 - 39 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
40 - 44 years	6	0.7	17.2*	—
45 - 49 years	20	2.4	59.6	—
50 - 54 years	31	3.7	88.6	—
55 - 59 years	57	6.8	170.1	—
60 - 64 years	84	10.0	258.0	—
65 - 69 years	96	11.5	352.2	—
70 - 74 years	125	14.9	564.3	—
75 - 79 years	137	16.4	873.8	—
80 - 84 years	115	13.7	1,193.9	—
85 years and over	147	17.6	1,745.8	—
Sex				
Male	433	51.7	167.7	153.9
Female	404	48.3	157.4	121.2
Race and Ethnicity				
NH White	668	79.8	236.1	144.1
Hispanic or Latino	87	10.4	50.4	88.1
NH Black	50	6.0	185.0	192.6
NH Other	32	3.8	98.1	120.8
Total	837	100.0	162.5	135.6

* Rate may be unreliable due to small numerator.

Any cell size below 5 and the subsequent smallest cell is suppressed to maintain confidentiality.

Source: Illinois Department of Public Health (IDPH) Vital Records, Deaths, 2023

Table C: Heart Disease Mortality Counts and Age-Adjusted Rates by Demographics

Kane County Residents, 2023

Age	Total	Percentage	Crude Rate per 100,000 population	Age-Adjusted Rate per 100,000 population
Under 5 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
5 - 9 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
10 - 14 years	0	0.0	0.0	—
15 - 19 years	0	0.0	0.0	—
20 - 24 years	0	0.0	0.0	—
25 - 29 years	0	0.0	0.0	—
30 - 34 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
35 - 39 years	5	0.7	15.1*	—
40 - 44 years	5	0.7	14.3*	—
45 - 49 years	11	1.5	32.8*	—
50 - 54 years	17	2.3	48.6*	—
55 - 59 years	26	3.5	77.6	—
60 - 64 years	39	5.2	119.8	—
65 - 69 years	68	9.1	249.4	—
70 - 74 years	72	9.6	325.0	—
75 - 79 years	102	13.6	650.6	—
80 - 84 years	98	13.0	1,017.4	—
85 years and over	304	40.5	3,610.5	—
Sex				
Male	401	53.4	155.3	158.3
Female	350	46.6	136.3	103.4
Race and Ethnicity				
NH White	629	83.8	222.4	137.0
Hispanic or Latino	78	10.4	45.2	89.8
NH Black	32	4.3	118.4	129.4
NH Other	12	1.6	36.8*	44.7*
Total	751	100.0	145.8	127.7

* Rate may be unreliable due to small numerator.

Any cell size below 5 and the subsequent smallest cell is suppressed to maintain confidentiality.

Source: Illinois Department of Public Health (IDPH) Vital Records, Deaths, 2023

Table D: Stroke Mortality Counts and Age-Adjusted Rates by Demographics

Kane County Residents, 2023

Age	Total	Percentage	Crude Rate per 100,000 population	Age-Adjusted Rate per 100,000 population
Under 5 years	0	0.0	0.0	—
5 - 9 years	0	0.0	0.0	—
10 - 14 years	0	0.0	0.0	—
15 - 19 years	0	0.0	0.0	—
20 - 24 years	0	0.0	0.0	—
25 - 29 years	0	0.0	0.0	—
30 - 34 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
35 - 39 years	0	0.0	0.0	—
40 - 44 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
45 - 49 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
50 - 54 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
55 - 59 years	<i>Suppressed</i>	<i>Suppressed</i>	<i>Suppressed</i>	—
60 - 64 years	11	3.8	33.8*	—
65 - 69 years	21	7.3	77.0	—
70 - 74 years	26	9.1	117.4	—
75 - 79 years	40	13.9	255.1	—
80 - 84 years	51	17.8	529.5	—
85 years and over	129	44.9	1,532.1	—
Sex				
Male	113	39.4	43.8	45.1
Female	174	60.6	67.8	51.4
Race and Ethnicity				
NH White	241	84.0	85.2	52.9
Hispanic or Latino	27	9.4	15.7	35.6
NH Black	13	4.5	48.1*	52.2*
NH Other	6	2.1	18.4*	26.3*
Total	287	100.0	55.7	49.4

* Rate may be unreliable due to small numerator.

Any cell size below 5 and the subsequent smallest cell is suppressed to maintain confidentiality.

Source: Illinois Department of Public Health (IDPH) Vital Records, Deaths, 2023

Technical Notes

Table E: Aggregate Race and Ethnicity Categories for Mortality Report

Race/Ethnicity	Race Values	Ethnicity Value(s)
Non-Hispanic White n=2,975	"Race1E" = 100=White 101-199=Other White Races 600-997=Other 998 or NA=Unknown	"Ethnic_YesNo" = N (No) U (Unknown)
Hispanic/Latino n=463	"Race1E" = All Races included	"Ethnic_YesNo" = Y (Yes)
Non-Hispanic Black n=222	"Race1E" = 200=Black or African American 201-299=Other Black Races	"Ethnic_YesNo" = N (No) U (Unknown)
Non-Hispanic Other n=95	"Race1E" = 300=American Indian 400=Asian Indian 410=Chinese 420=Filipino 430=Japanese 440=Korean 450=Vietnamese 401-409, 411-419, 421-429, 431-439, 441-449 & 451-499=Other Asian 500=Native Hawaiian 501-510, 512-520, & 523-599= Other Pacific Islander 511=Samoa 521=Guamanian 522=Chamorro A01-M43=American Indian Tribes M44-N66=Alaskan Indian Tribes N67-R10=Eskimo Tribes R11-R99=Aleut Tribes	"Ethnic_YesNo" = N (No) U (Unknown)

Data Sources

For Kane County resident mortality data, data was sourced from death certificates from the Illinois Department of Public Health Vital Statistics. Data from 2014 to 2023 was analyzed in order to observe temporal trends in disease-specific deaths and overall all-cause mortality. Any cell count less than 5 is suppressed in order to maintain confidentiality standards upheld from the Illinois Department of Public Health.

For Illinois and United States mortality data, data from 2014 to 2023 was sourced from Centers for Disease Control and Prevention WONDER Underlying Cause of Death database. Data from 2014 to 2023 was analyzed in order to observe temporal trends in disease-specific deaths and have state and national measures as a comparison to Kane County.

Underlying Cause of Death Classification

The underlying cause of death is defined by the World Health Organization (WHO) as "the disease or injury which initiated the train of events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury." Underlying cause of death is selected from the conditions entered by the physician on the cause of death section of the death certificate. When more than one cause or condition is entered by the physician, the underlying cause is determined by the sequence of conditions on the certificate, provisions of the ICD, and associated selection rules and modifications.

The underlying cause of death per Kane County resident death was located in the "ACME_Underlying_COD_Code" variable in the IDPH Vital Statistics Mortality Data.

Population Denominators

All of the single-race population estimates in CDC WONDER online databases are produced by the U.S. Census Bureau. Population denominators are mid-year July 1st estimates from the U.S. Census sourced from CDC WONDER for the respective year. Population denominators for 2021 and beyond are postcensal estimates and are subject to change as future population data are collected.

Mortality Rates and Age-Adjustment

Crude mortality rates are a measure of mortality within a population, typically expressed as the number of deaths per 1,000 or 100,000 people in a given year. It is calculated using the formula:

$$\text{Crude Mortality Rate} = \frac{\text{Total Number Deaths in a Year}}{\text{Total Population in Same Year}} \times 100,000$$

Age-adjusted mortality rates allows for the comparison of mortality rates between populations with different age structures. This adjustment is important because age is a significant factor in mortality—older populations generally experience higher mortality rates due to natural aging processes and increased susceptibility to certain diseases.

Race and Ethnicity

Race and ethnicity were aggregated into the categories of Hispanic or Latino, Non-Hispanic White, Non-Hispanic Black, and Non-Hispanic Other. Non-Hispanic Other includes race categories such as American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, or multiple races selected and are combined due to small numerator values. Race was located in the "Race1E" variable and ethnicity was located in the "Ethnic_YesNo" variable in the IDPH Vital Statistics Mortality Data. Missing values for ethnicity were included in Non-Hispanic race groups.