

**1,720**  
**Deaths (2009-2013)**  
**13,587**  
**Hospital Discharges**  
**(2008-2012)**  
**24,248**  
**Emergency Department**  
**Visits (2008-2012)**

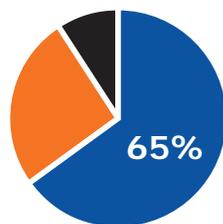
## Poisoning Intent

The distribution of poisoning by intent varies across the three databases. Poisoning related emergency department visits and deaths are predominately unintentional while poisoning HDs are predominately due to suicide and suicide attempts.

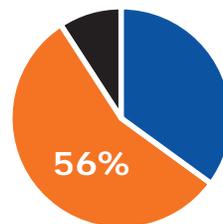
## Poisoning Injury Severity

The more than 1,700 deaths that resulted from poisonings between 2009 and 2013 represent only a fraction of poisoning injuries in Kansas. For every poisoning death in Kansas, during 2008 to 2012, there were approximately 8 times as many poisoning hospital discharges (HD) and 14 times as many poisoning emergency department visits (EDV).

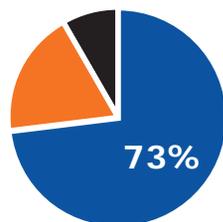
EDVs (2008-2012)



HDs (2008-2012)



Deaths (2009-2013)



**Key:**  
 Unintentional  
 Suicide  
 Undetermined/  
 Other/Homicide

## How To Use this Document:

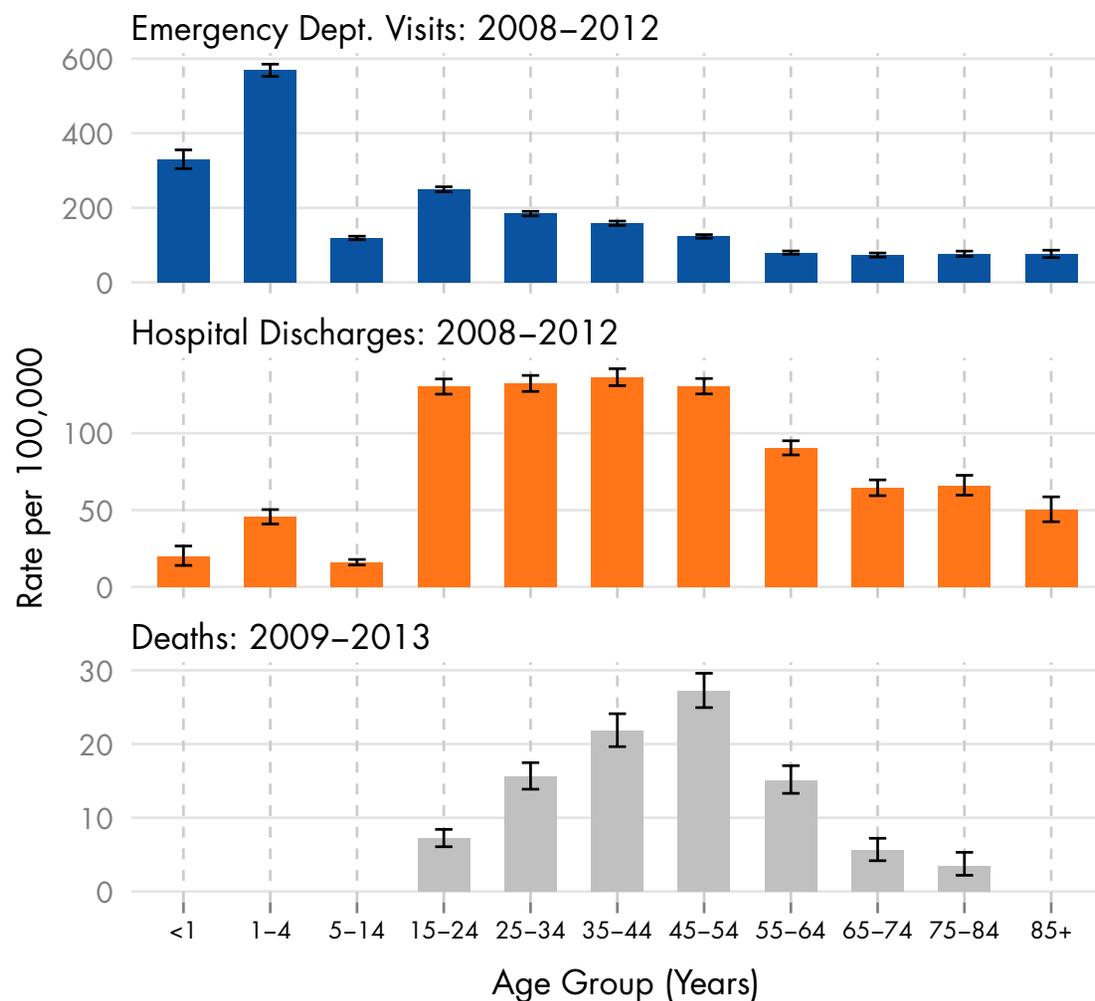
This document is intended to give readers an overview of poisoning injuries in Kansas. Most of the numbers used to create the charts and graphs can be found in data tables at the end of this document.

### Data Sources:

This document uses three databases to describe different severities of poisoning injuries. The most serious is deaths. The two other databases reflect injuries that result in hospital care. The emergency department visit (EDV) database includes injuries that have a hospital stay of less than 24 hours, the least serious injuries. Hospital stays longer than 24 hours are hospital discharges (HD). All data for deaths refer to the 2009 to 2013 time period. All data for EDV and HD refer to the 2008 to 2012 time period.

For more information, call: (785) 291-3742  
 email: [injury@kdheks.gov](mailto:injury@kdheks.gov), visit: [www.kdhe.ks.gov/idp](http://www.kdhe.ks.gov/idp)

## Kansas Age-specific Poisoning Rates

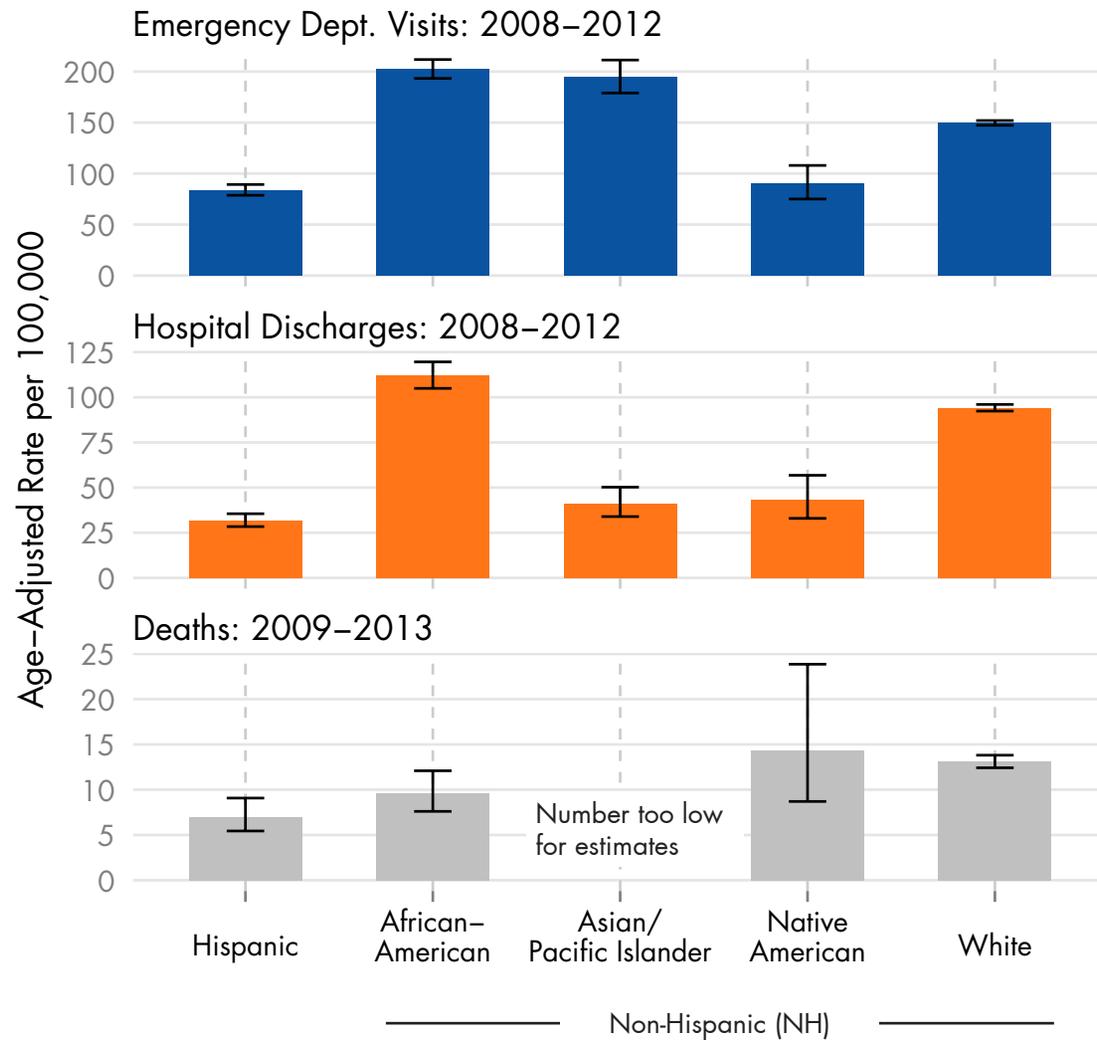


Poisoning injuries change over the lifespan. All three databases show a different trend. The highest rate of poisoning EDVs are among young children 1 to 4 years old.

Poisoning hospital discharges rates are higher in adults, starting in early adulthood, 15 to 24 years old, through 45 to 54 years old.

Poisoning deaths have a trend similar to hospital discharges. There is a steady increase in poisoning death rates starting at 15 to 24 years old to 45 to 54 years old.

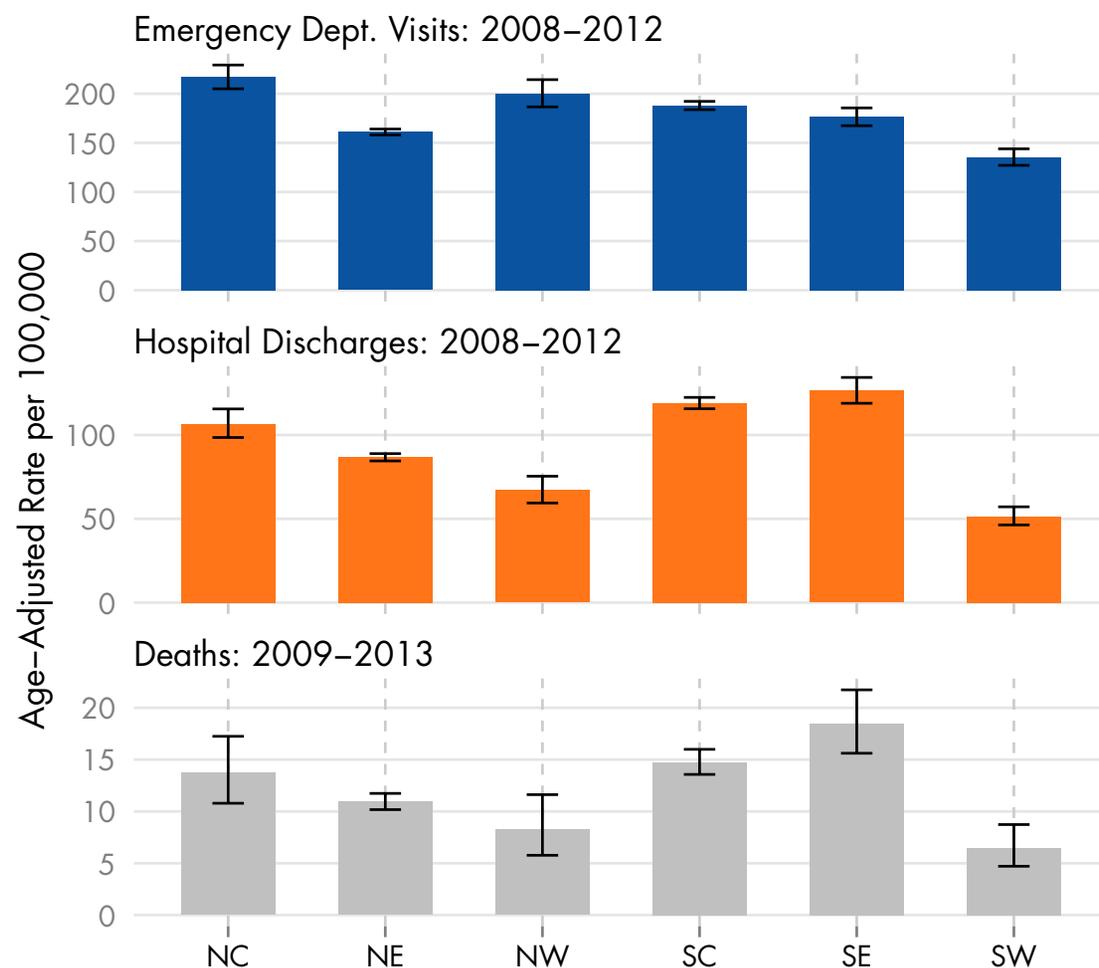
## Kansas Poisoning Rates by Race/Ethnicity



Racial/ethnic differences exist when looking at poisoning injuries. Non-Hispanic (NH) Asian/Pacific Islanders and NH African-Americans had the highest rates of poisoning EDVs. Non-Hispanic African-Americans had the highest rates of poisoning HD. There were no significant differences in poisoning death rates across race/ethnic groups.

Note: Poisoning rates by race/ethnicity are per 100,000 population and are age-adjusted to the 2000 U.S. Standard population using the direct method.

## Kansas Poisoning Rates by Trauma Region



Poisoning injury rates differ by trauma region in Kansas. Among emergency department visits and hospital discharges, the lowest poisoning injury rates were seen in the south west region as compared to all other regions. Similarly, the southwest region had the lowest poisoning death rates as compared to most other regions.

Abbreviations: NC= North central, NE=Northeast, NW=Northwest, SC=South central, SE=Southeast and SW=Southwest.

Note: Poisoning rates by trauma region are per 100,000 population and are age-adjusted to the 2000 U.S. Standard population using the direct method.

Category	#Deaths	Death Rate per 100k*	95% CI	#HD	HD Rate per 100k*	95% CI	#EDV	EDV Rate per 100k*	95% CI
<b>Age Group (in years, age specific rates)</b>									
<1	...	...	...	40	19.6	14.0- 26.6	674	329.5	305.1-355.4
1-4	...	...	...	371	45.5	41.0- 50.3	4,639	568.7	552.4-585.3
5-14	5	...	...	315	16.0	14.3- 17.9	2,342	118.9	114.2-123.8
15-24	149	7.2	6.1- 8.4	2,697	130.3	125.4-135.3	5,162	249.4	242.7-256.3
25-34	297	15.6	13.9-17.5	2,495	132.3	127.2-137.6	3,474	184.3	178.2-190.5
35-44	376	21.8	19.6-24.1	2,376	136.4	131.0-142.0	2,758	158.3	152.5-164.4
45-54	537	27.2	24.9-29.6	2,619	130.5	125.6-135.6	2,471	123.2	118.4-128.1
55-64	257	15.1	13.3-17.1	1,493	90.4	85.9- 95.1	1,317	79.8	75.5- 84.2
65-74	55	5.5	4.2- 7.2	615	64.4	59.4- 69.7	699	73.2	67.8- 78.8
75-84	22	3.5	2.2- 5.3	413	66.0	59.8- 72.6	480	76.7	70.0- 83.8
85+	17	...	...	153	50.0	42.4- 58.6	232	75.9	66.4- 86.3

Category	#Deaths	Death Rate per 100k*	95% CI	#HD	HD Rate per 100k*	95% CI	#EDV	EDV Rate per 100k*	95% CI
<b>Racial/Ethnic Group</b>									
Hispanic	83	7.0	5.4- 9.1	437	31.7	28.4- 35.5	1,385	83.8	78.7- 89.3
NH African-American	82	9.6	7.6-12.1	981	112.0	104.9-119.6	2,038	202.3	193.3-211.8
NH Asian/Pacific Islander	...	...	...	143	41.2	33.9- 50.2	699	194.3	179.0-211.3
NH Native American	20	14.3	8.7-23.9	62	43.2	33.0- 56.8	134	89.9	75.0-108.0
NH White	1,467	13.1	12.4-13.8	10,542	94.2	92.4- 96.0	16,138	149.6	147.3-152.0

NH: Non-Hispanic

...: Suppressed due to low counts

Category	#Deaths	Death Rate per 100k*	95% CI	#HD	HD Rate per 100k*	95% CI	#EDV	EDV Rate per 100k*	95% CI
<b>Gender</b>									
Female	725	10.3	9.6-11.1	7,772	111.1	108.6-113.6	13,132	188.7	185.5-192.0
Male	995	14.3	13.4-15.2	5,815	82.6	80.5- 84.8	11,116	155.2	152.3-158.1
<b>Trauma Region</b>									
NC	80	13.7	10.8-17.2	654	106.7	98.5-115.5	1,299	216.9	205.0-229.3
NE	787	10.9	10.2-11.7	6,244	86.7	84.5- 88.9	11,650	161.1	158.1-164.0
NW	40	8.3	5.8-11.6	308	67.0	59.4- 75.4	886	200.1	186.7-214.3
SC	610	14.7	13.6-16.0	4,895	119.0	115.6-122.4	7,824	188.0	183.8-192.3
SE	158	18.5	15.6-21.7	1,117	126.4	118.9-134.3	1,544	176.3	167.5-185.6
SW	45	6.5	4.7- 8.7	369	51.5	46.4- 57.2	1,045	135.3	127.1-143.9
Total	1,720	12.3	11.7-12.9	13,587	96.8	95.1- 98.4	24,248	171.6	169.5-173.8

### Technical Notes:

Poisoning EDVs and HDs were defined as cases with the following ICD-9CM E-codes: E850.0-E869.9, E950-E952.9, E962.09-E962.9, E979.6, E980.0,E982.9, E972. Poisoning deaths were defined as deaths with following ICD-10 codes: X40-X49, X60-X69, X85-X90, Y10-Y19, Y35.2, U01.6-U01.7

95% CI: 95% Confidence Interval

\*Poisoning rates are per 100,000 population and are age-adjusted to the 2000 U.S. Standard population using the direct method (unless noted as age specific).

Source: 2008-2012 Kansas Emergency Department and Hospital Discharge Database, Kansas Hospital Association, 2009-2013 Kansas Vital Statistics, Bureau of Epidemiology and Public Health Informatics.

Trauma Region: Abbreviations: NC= North Central, NE=Northeast, NW=Northwest, SC=South Central, SE=Southeast and SW=Southwest. Trauma regions are defined by the Kansas Trauma Program. For more information on the current boundaries please visit [www.kstrauma.org](http://www.kstrauma.org).