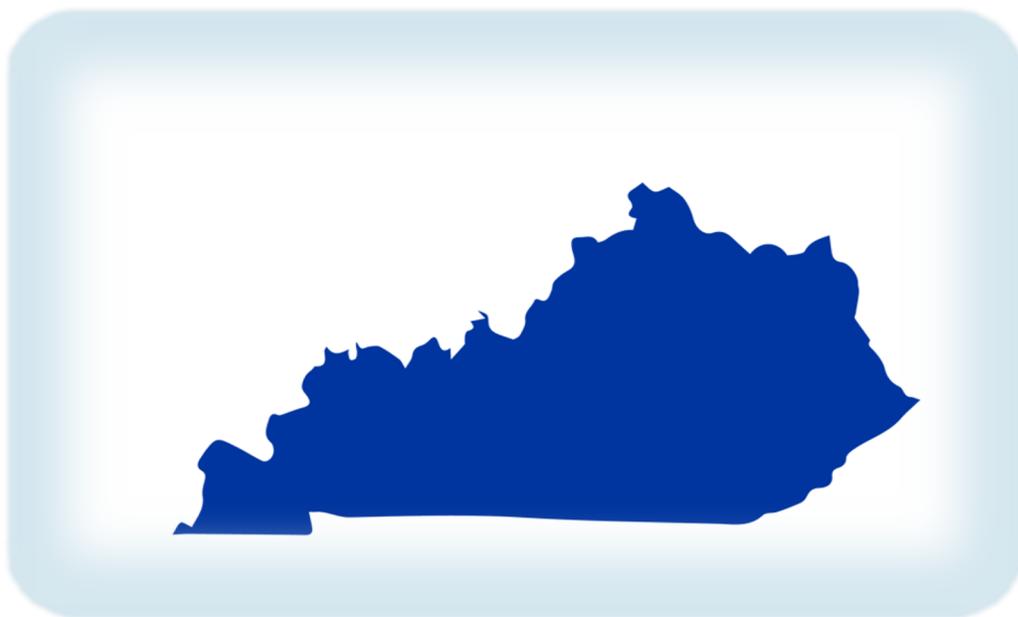


# KENTUCKY INJURY INDICATORS



**2022**

**KENTUCKY VIOLENCE AND INJURY PREVENTION PROGRAM (KVIPP)**

**COOPERATIVE AGREEMENT No. NU17CE010064**

**KENTUCKY INJURY PREVENTION AND RESEARCH CENTER**

**DECEMBER 2023**



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## **ACKNOWLEDGMENTS**

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# TABLE OF CONTENTS

Executive Summary .....	1
Data Sources and Methods.....	2
<b>10 Leading Causes of Injury by Age Group and Intent</b>	
Definitions for Injury Data Matrices.....	4
Mortalities .....	5
Inpatient Hospitalizations .....	6
Emergency Department Visits .....	7
<b>Injury Indicators</b>	
All Injuries .....	8
Unintentional Falls.....	10
Unintentional Fire-Related Injuries .....	12
Firearm-Related Injuries .....	14
Homicide and Assault .....	16
Unintentional Motor Vehicle Traffic Crashes .....	18
Nondrug Poisoning .....	20
Drug Poisoning .....	22
Suicide and Self-Harm Injury .....	24
Traumatic Brain Injury.....	26

## Abbreviations

CDC	Centers for Disease Control and Prevention
CSTE	Council of State and Territorial Epidemiologists
ED	emergency department
ICD	International Classification of Diseases
ICD-10-CM	International Classification of Diseases, Clinical Modifications – Tenth Revision
KIPRC	Kentucky Injury Prevention and Research Center
MV	motor vehicle
ATV	all-terrain vehicle
PCR	police collision report
TBI	traumatic brain injury

# Executive Summary

## ***Mortalities***

There were 5,288 Kentucky residents who died from injuries in 2022. Kentucky's overall age-adjusted injury mortality rate was 116.6 per 100,000 Kentucky resident population. The male and female age-adjusted rates were 163.6 and 71.2, respectively.

The leading mechanisms of injury mortality for Kentucky residents were *poisonings* (2,258), *firearms* (820), and *motor vehicle (MV) traffic crashes* (727). Males had higher age-adjusted mortality rates across these three injury mechanisms than did females. Ninety-seven percent of the poisonings were drug poisonings. The majority of the drug poisonings were unintentional (96%), involving prescription medications and/or illicit drugs. The majority of firearm injury-related deaths were intentional (98%).

Traumatic brain injury (TBI), either alone or in combination with other injuries or conditions, was listed on the death certificate as a cause of death of 1,086 Kentucky residents. This translates to an age-adjusted rate of 22.5 per 100,000. Males (34.2 per 100,000) had a higher age-adjusted rate than females (11.8 per 100,000) for TBI mortalities.

## ***Inpatient Hospitalizations***

There were 21,737 injury-related inpatient hospitalization encounters among Kentucky residents in 2022. The age-adjusted rate for injury-related hospitalizations per 100,000 Kentucky resident population was 429.5. The male and female age-adjusted rates were 434.9 and 412.6, respectively.

The leading mechanisms of injury-related hospitalizations were *falls* (11,334), *drug poisonings* (2,963), and *MV traffic crashes* (2,349). Across the leading injury mechanisms, unintentional injuries were the most common (e.g., 99% of falls, 55% of drug poisonings, and 99% of MV traffic crashes). The male and female age-adjusted rates for unintentional falls were 171.5 and 228.5, respectively. The majority (94%) of the unintentional fall hospitalizations occurred among residents aged 45 and older. Females (69.2 per 100,000) had a higher age-adjusted hospitalization rate for drug poisoning than males (64.0). Males (63.4 per 100,000) had a higher rate for unintentional MV traffic crash hospitalizations than females (37.1).

TBI (either TBI alone or in combination with other injuries) accounted for 2,960 hospitalizations. The majority of the TBI-related inpatient hospitalizations were unintentional (87%). *Falls* (55%) and *MV traffic crashes* (24%) were the leading mechanisms of TBI-related hospitalizations. Males (75.9 per 100,000) had a higher age-adjusted rate than females (42.7) for TBI hospitalizations.

## ***Emergency Department Visits***

Kentucky residents made 407,369 injury-related emergency department (ED) visits in 2022. The age-adjusted rate for injury-related ED visit discharges per 100,000 Kentucky resident population was 9,168.3. The male and female age-adjusted rates were 9,365.2 and 8,919.2, respectively.

The majority of the injury-related ED visits were unintentional (88%). The leading mechanisms of injury-related ED visits were *falls* (132,622), *unspecified* (63,227), being *struck by/against an object or person* (48,384), and *MV traffic crashes* (43,093). The majority of the falls were unintentional (>99%). The male and female age-adjusted rates for unintentional fall-related ED visits were 2,462.6 and 3,072.6, respectively, per 100,000.

TBI (either TBI alone or in combination with other injuries) accounted for 11,218 ED visits. The majority of the TBI-related ED visits were unintentional (88%). The leading mechanisms of TBI-related ED visits were *falls* (43%), *struck by/against* (23%), and *MV traffic crashes* (17%). Males (261.7 per 100,000) had a higher age-adjusted rate than females (240.6) for TBI hospitalizations.

# Data Sources and Methods

## *Data Sources*

All data are provisional and subject to change.

### *Population Data*

Single-race Population Estimates, United States, 2020-2022. July 1st resident population by state, age, sex, single-race, and Hispanic origin, on the Centers for Disease Control and Prevention's (CDC's) Wide-ranging Online Data for Epidemiologic Research (WONDER) Online Database. The 2020-2022 postcensal series of estimates of the July 1 resident population are based on the 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. Accessed at <http://wonder.cdc.gov/single-race-single-year-v2022.html> on November 2023.

### *Mortality Data*

Kentucky Death Certificate Database, Kentucky Office of Vital Statistics, Cabinet for Health and Family Services

### *Inpatient Hospitalization Discharge Data*

Kentucky Inpatient Hospitalization Claims Files, Office of Health Data and Analytics, Cabinet for Health and Family Services. Note: Counts represent encounters of care and could be greater than the number of individual patients treated at an acute care facility.

### *Emergency Department Visit Discharge Data*

Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services. Note: Counts represent encounters of care and could be greater than the number of individual patients treated.

## *Methods*

### *Injury-Related Mortality*

The definitions for fatal injuries (deaths) used in this report correspond to the CDC's "State Injury Indicators Report: Instructions for Preparing 2021 Data" that was released January 2022. An International Classification of Diseases, Tenth Revision [ICD-10] code in an underlying cause of death field was used to identify the mechanism and manner of fatal injuries.

A mortality count of at least one but fewer than six is suppressed per state data policy.

***PLEASE NOTE:*** *Death counts in this report are based on state death certificate files and thus cannot be expected to match counts based on other sources. In particular, numbers of motor vehicle traffic deaths will not match those based on police collision reports (PCRs) because the two systems do not report on identical underlying populations. Death certificates capture deaths of Kentucky residents regardless of where they occur; PCRs capture deaths that occur on Kentucky roads only, regardless of state of residence. Similarly, counts of homicides and assaults in this report will not match counts based on police crime reports. These data sources should be viewed as complementary. There also exist specialized death certificate-based surveillance systems for injury mortalities at both the state (e.g., the Kentucky Violent Death Reporting System and Child Fatality Reviews) and national levels (e.g., CDC's Web-Based Injury Statistics Query and Reporting System [WISQARS] and WONDER). Counts from those systems may not exactly match counts in this report due to differences in inclusion criteria, case definitions, the use of ancillary data sources for case identification, or other factors. Data are assessed at a point in time, which too may affect number agreement with other data sources.*

### *Injury-Related Inpatient Hospitalizations*

Hospitalizations were limited to discharges from nonfederal, acute care, or inpatient facilities. The CDC's surveillance definition for injury hospitalizations was used; only initial encounters were included (indicated by a seventh character of "A" or missing in the International Classification of Diseases, Tenth Revision, Clinical Modification [ICD-10-CM] code). The injury subset for hospitalizations was created by selecting discharges having a principal diagnosis code.

The CDC external causes of injury matrix (updated May 2023) was used to categorize the injury visit by mechanism of injury and intent. Injury details were provided using external cause of morbidity codes, which are not required for discharge billing purposes; therefore, every injury hospitalization may not have this level of detail. Traumatic brain injury hospitalizations were defined using CDC's "State Injury Indicators Report: Instructions for Preparing 2020 Data".

Note that inpatient hospitalizations resulting in death are included in the total inpatient injury hospitalization count. An inpatient hospitalization count of at least one but fewer than five is suppressed per state data policy.

***PLEASE NOTE:*** *Data are assessed at a point in time, which too may affect number agreement with other data sources. Counts reflect encounters of care, not individuals.*

### *Injury-Related Emergency Department Visits*

The CDC's surveillance definition for injury emergency department (ED) visits was used; only initial encounters were included (seventh character of "A" or missing) in the ED data set using ICD-10-CM diagnosis codes or external cause codes. The injury subset for ED visits was used, applying an any mention approach.

The CDC's external causes of injury matrix (updated May 2023) was used to categorize the injury visit by mechanism of injury and intent. The external causes of morbidity, which were used to provide injury details, are not required for discharge billing purposes; therefore, every injury ED visit may not have this level of detail. Traumatic brain injury hospitalizations were defined using CDC's "State Injury Indicators Report: Instructions for Preparing 2021 Data".

Note that ED visits, including those resulting in inpatient hospitalization or death, are included in the total injury ED visit count. An ED visit count of at least one but fewer than five is suppressed per state data policy.

***PLEASE NOTE:*** *Data are assessed at a point in time, which too may affect number agreement with other data sources. Counts reflect encounters of care, not individuals.*

### *Calculation of Rates and Data Presentation*

All data were limited to Kentucky residents.

Two types of rates are reported. Age-specific ("crude") rates were calculated by dividing the number of injury events occurring in a particular age group by the estimated number of Kentucky residents in that age group in 2022 and multiplying by 100,000. Age-adjusted rates were adjusted to the year 2000 standard population. Rates based on counts of 20 or fewer may be unstable.

Note that data are presented as aggregated counts. Certain counts have been suppressed because either the observed number of injury events is very small and not appropriate for publication or the count can be used to calculate the number in a count that has been suppressed per state data policies.

## *Definitions for Injury Data Matrices*

**Motor vehicle non-traffic (MV non-traffic)**—Includes motor vehicle crashes that occurred somewhere other than on a public roadway.

**Motor vehicle traffic (MV traffic)**—Includes crashes that occurred on a public roadway and involved at least one motor vehicle. All persons injured in MV traffic incidents are counted here. Pedal cyclists and pedestrians who were struck by a motor vehicle would be counted here, but those who crashed on a public roadway without involvement of a motor vehicle would be counted elsewhere (see “Pedal cyclist, other” definition).

**Natural/Environmental**—Includes causes related to nature and the environment (insect bites and stings, animal bites, extreme weather, excessive heat or cold, etc.).

**Other land transport**—Includes motor vehicle crashes that occurred somewhere other than on a public roadway, rail injuries, etc. Does not include air or water injuries.

**Other specified**—Includes a variety of relatively low-incidence causes of injury grouped together. Includes causes not elsewhere classified; an external cause of injury code that is intended for use when no other code exists to adequately describe the mechanism and manner of injury.

**Pedal cyclist, other**—Includes pedal cyclists who crashed on a public roadway without involvement of a motor vehicle.

**Poisoning**—Includes drug and non-drug poisonings, unless otherwise noted.

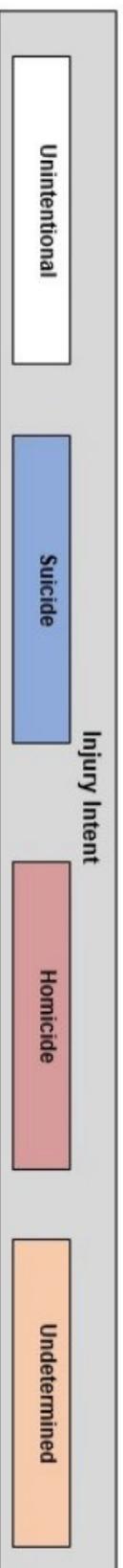
**Self-harm/Suicide**—Includes injuries resulting from behaviors deliberately trying to harm or injure oneself. Data for persons aged <10 years are not shown, as it is difficult to determine suicide intent among younger children.

**Tie**—Indicates a tied count for a leading cause of injury-related mortality or morbidity.

**Unspecified**—Includes injuries for which an external code of injury either (a) was not specified or (b) was specified but did not indicate the mechanism or manner of injury.

## 10 Leading Causes of Injury-Related Mortality by Age Group and Intent, 2022 Kentucky Residents

Rank	Age Groups												
	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-44	85+
1	Suffocation 18	Drowning 10		Motor Vehicle Traffic 7	Motor Vehicle Traffic 47	Poisoning 96	Poisoning 444	Poisoning 649	Poisoning 497	Poisoning 340	Poisoning 87	Fall 156	Fall 159
2		Motor Vehicle Traffic 9			Firearm 31	Firearm 46	Motor Vehicle Traffic 113	Motor Vehicle Traffic 115	Motor Vehicle Traffic 94	Motor Vehicle Traffic 107	Motor Vehicle Traffic 86	Motor Vehicle Traffic 69	Unspecified 86
3					Poisoning 22	Motor Vehicle Traffic 45	Firearm 80	Firearm 89	Firearm 77	Firearm 67	Fall 84	Unspecified 68	Motor Vehicle Traffic 32
4					Firearm 20	Firearm 34	Firearm 78	Firearm 67	Firearm 35	Fall 38	Firearm 64	Firearm 43	Firearm 25
5					Suffocation 13	Suffocation 15	Suffocation 44	Suffocation 40	Suffocation 29	Unspecified 19	Unspecified 29	Suffocation 24	Suffocation 24
6					Fire/Flame 7		Poisoning 7	Poisoning 15	Poisoning 22	Suffocation 18	Fire/Flame 21	Natural/ Environment 16	Fire/Flame 8
7								Fire/Flame 12	Fall 8	Natural/ Environment 17	Suffocation 20	Poisoning 14	
8								Suffocation 9	Natural/ Environment 7	Poisoning 17	Natural/ Environment 15	Fire/Flame 11	
9								Fall 8	Suffocation 6	Suffocation 16	Other Land Transport 10	Machinery 7	
10								Natural/ Environment 7		Firearm 15	Poisoning 9	Other Land Transport 7	



\*Counts less than six were not included in the matrix. Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health, December 2023. This product was supported by grant numbers NU17CE010064 (Centers for Disease Control and Prevention) and 3048114413. Data source: Kentucky Death Certificate Database, Kentucky Office of Vital Statistics, Cabinet for Health and Family Services. Data are provisional and subject to change.

## 10 Leading Causes of Injury-Related Inpatient Hospitalizations by Age Group and Intent, 2022 Kentucky Residents

Rank	Age Groups												
	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
1	Abuse 49	Drug Poisoning 49	Fall 26	Drug Poisoning 84	Drug Poisoning 173	Motor Vehicle Traffic 175	Motor Vehicle Traffic 378	Motor Vehicle Traffic 348	Fall 527	Fall 1,351	Fall 2,567	Fall 3,385	Fall 2,872
2	Fall 21	Fall 28	Motor Vehicle Traffic 20	Fall 35	Motor Vehicle Traffic 150	Drug Poisoning 110	Drug Poisoning 253	Drug Poisoning 315	Motor Vehicle Traffic 284	Motor Vehicle Traffic 373	Motor Vehicle Traffic 281	Motor Vehicle Traffic 174	Motor Vehicle Traffic 54
3	Unspecified 12	Abuse 21	Other Land Transport 8	Motor Vehicle Traffic 34	Fall 40	Drug Poisoning 74	Drug Poisoning 201	Fall 267	Drug Poisoning 280	Drug Poisoning 291	Drug Poisoning 173	Drug Poisoning 91	Unspecified 40
4	Drug Poisoning 10	Hot Object 12	Bite/Sting 7	Motor Vehicle Nontraffic 17	Firearm 39	Firearm 43	Fall 167	Drug Poisoning 216	Drug Poisoning 197	Drug Poisoning 134	Drug Poisoning 63	Struck by/Against 80	Struck by/Against 38
5	Natural/ Environmental 5	Motor Vehicle Traffic 9	Motor Vehicle Nontraffic 7	Firearm 13	Drug Poisoning 36	Fall 42	Firearm 51	Firearm 44	Unspecified 52	Unspecified 74	Unspecified 61	Unspecified 55	Drug Poisoning 34
6		Bite/Sting 9	Abuse 7	Other Land Transport 8	Firearm 26	Motor Vehicle Nontraffic 19	Firearm 40	Struck by/Against 39	Struck by/Against 35	Struck by/Against 54	Struck by/Against 49	Drug Poisoning 20	Natural/ Environmental 10
7		Foreign Body 8	Pedal Cyclist, Other 6	Drug Poisoning 8	Motor Vehicle Nontraffic 26	Unspecified 15	Motor Vehicle Nontraffic 37	Motor Vehicle Nontraffic 36	Motor Vehicle Nontraffic 35	Motor Vehicle Nontraffic 35	Overexertion 26	Overexertion 18	Overexertion 9
8		Unspecified 7		Struck by/Against 7	Unspecified 12	Struck by/Against 15	Struck by/Against 31	Unspecified 34	Struck by/Against 35	Non-Drug Poisoning 29	Natural/ Environmental 25	Motor Vehicle Nontraffic 18	Foreign Body 9
9		Fire/Flame 5		Unspecified 7	Struck by/Against 11	Firearm 14	Unspecified 27	Other Land Transport 27	Drug Poisoning 27	Natural/ Environmental 26	Foreign Body 24	Foreign Body 17	Bite/Sting 5
10		Struck by/Against 5		Bite/Sting 5	Other Land Transport 10	Other Land Transport 11	Drug Poisoning 24	Foreign Body 26	Bite/Sting 26	Other Specified 24	Motor Vehicle Nontraffic 23	Natural/ Environmental 12	



Counts less than five are not included in this matrix. Counts represent encounters of care and could be greater than the number of individual patients treated. Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health, December 2023. This product was supported by grants numbers NU17CE010064 (Centers for Disease Control and Prevention) and 3048114413. Data source: Kentucky Inpatient Hospitalization Claims Files, Office of Health Data and Analytics, Cabinet for Health and Family Services. Data are provisional and subject to change.

## 10 Leading Causes of Injury-Related Emergency Department Visits by Age Group and Intent, 2022 Kentucky Residents

Rank	Age Groups												
	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
1	Fail 2,059	Fail 9,770	Fail 7,920	Fail 6,954	Fail 4,718	Motor Vehicle Trauma 5,064	Fail 8,784	Fail 9,967	Fail 12,206	Fail 17,059	Fail 19,079	Fail 17,983	Fail 11,646
2	Unspecified 347	Struck by/against 2,974	Struck by/against 3,678	Struck by/against 4,710	Struck by/against 4,653	Fail 4,326	Motor Vehicle Trauma 8,186	Motor Vehicle Trauma 6,571	Motor Vehicle Trauma 5,575	Motor Vehicle Trauma 4,501	Motor Vehicle Trauma 2,648	Unspecified 1,603	Unspecified 755
3	Struck by/against 310	Unspecified 2,110	Unspecified 1,702	Overexertion 2,356	Motor Vehicle Trauma 4,631	Struck by/against 3,145	Struck by/against 5,055	Unspecified 4,767	Unspecified 4,188	Unspecified 3,545	Unspecified 2,483	Struck by/against 1,310	Struck by/against 613
4	Motor Vehicle Trauma 219	Blow/Struck 1,659	Blow/Struck 1,462	Unspecified 2,182	Overexertion 2,620	Car/Truck 2,467	Unspecified 4,121	Struck by/against 4,321	Struck by/against 3,564	Struck by/against 3,026	Struck by/against 2,210	Motor Vehicle Trauma 1,164	Motor Vehicle Trauma 260
5	Foreign Body 193	Foreign Body 1,146	Car/Truck 1,360	Motor Vehicle Trauma 1,842	Unspecified 2,246	Unspecified 2,237	Car/Truck 4,524	Overexertion 4,026	Overexertion 3,398	Car/Truck 2,511	Car/Truck 1,632	Overexertion 659	Overexertion 205
6	Blow/Struck 122	Car/Truck 987	Motor Vehicle Trauma 1,292	Car/Truck 1,615	Car/Truck 2,143	Overexertion 2,199	Overexertion 4,047	Car/Truck 3,948	Car/Truck 3,153	Overexertion 2,499	Overexertion 1,291	Car/Truck 675	Car/Truck 170
7	Advice 91	Motor Vehicle Trauma 900	Overexertion 713	Blow/Struck 987	Struck by/against 993	Blow/Struck 1,125	Blow/Struck 2,149	Blow/Struck 2,025	Blow/Struck 1,837	Blow/Struck 1,580	Blow/Struck 1,049	Blow/Struck 439	Foreign Body 115
8	Other Specified 85	Other Specified 630	Other Specified 682	Other Specified 674	Blow/Struck 933	Struck by/against 1,111	Struck by/against 2,072	Drug Poisoning 1,916	Struck by/against 1,167	Drug Poisoning 761	Foreign Body 436	Foreign Body 264	Blow/Struck 102
9	Car/Truck 71	Overexertion 594	Foreign Body 621	Struck by/against 519	Motor Vehicle Trauma 710	Other Specified 674	Drug Poisoning 1,539	Struck by/against 1,618	Drug Poisoning 1,093	Struck by/against 666	Drug Poisoning 362	Drug Poisoning 206	Drug Poisoning 67
10	Hot Object Substance	Drug Poisoning 584	Pedal/Cyclist Other 314	Motor Vehicle Trauma 459	Other Specified 106	Drug Poisoning 603	Other Specified 1,163	Other Specified 1,013	Other Specified 610	Other Specified 643	Other Specified 340	Natural/ Environmental	Other Specified 63



Courts represent encounters of care and could be greater than the number of individual patients treated. Produced by the Kentucky Injury Prevention and Research Center, as bona fide agent for the Kentucky Department for Public Health, December 2023. This product was supported by grants numbers NU17CE010064 (Centers for Disease Control and Prevention) and 3048114413. Data source: Kentucky Outpatient Services Database Files, Office of Health Data and Analytics, Cabinet for Health and Family Services. Data are provisional and subject to change.

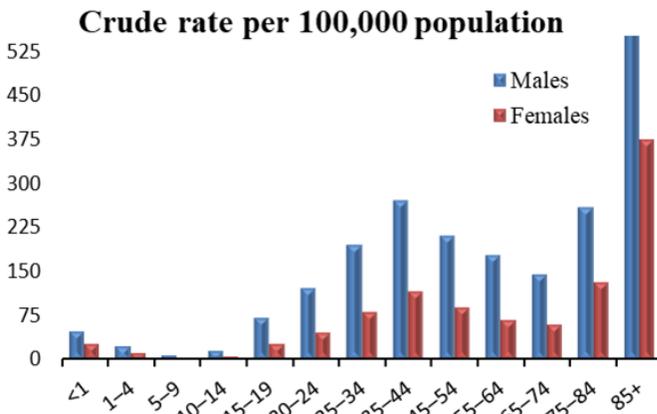
# All Injuries by Age and Sex

## Mortality

Total: 5,288 (116.6)<sup>^</sup>

Males: 3,600 (163.6)

Females: 1,688 (71.2)



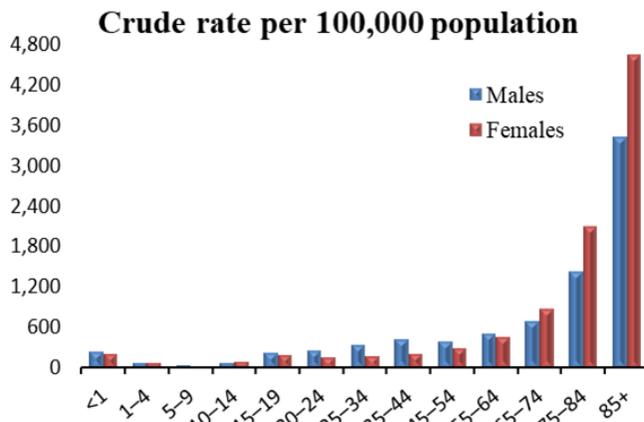
Age	Males	Females
<1	13	7
1-4	26	12
5-9	13	4
10-14	23	9
15-19	107	40
20-24	190	71
25-34	589	238
35-44	766	327
45-54	593	248
55-64	517	205
65-74	330	154
75-84	270	178
85+	163	195

## Inpatient Hospitalizations

Total: 21,737 (429.5)

Males: 9,981 (434.9)

Females: 11,756 (412.6)



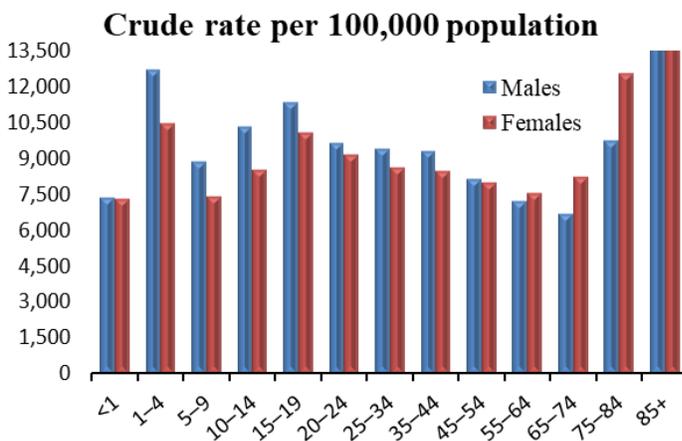
Age	Males	Females
<1	66	55
1-4	98	86
5-9	72	47
10-14	129	147
15-19	358	285
20-24	411	248
25-34	1,037	542
35-44	1,209	625
45-54	1,125	824
55-64	1,497	1,392
65-74	1,568	2,260
75-84	1,494	2,822
85+	917	2,423

## Emergency Department Visits

Total: 407,369 (9,168.3)

Males: 203,301 (9,365.2)

Females: 204,068 (8,919.2)



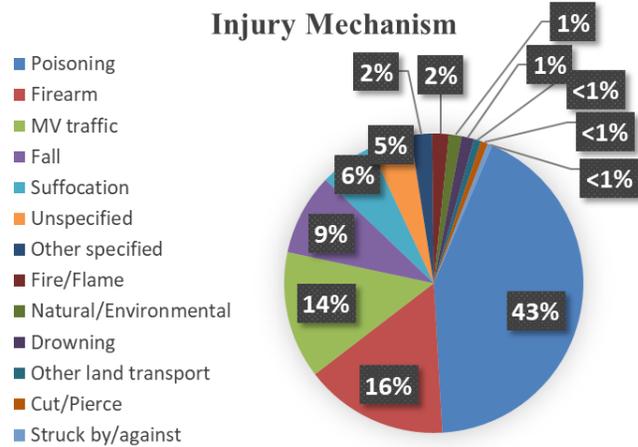
Age	Males	Females
<1	1,966	1,883
1-4	13,741	10,757
5-9	12,695	10,052
10-14	15,239	11,902
15-19	16,751	14,110
20-24	14,945	13,667
25-34	28,146	24,950
35-44	26,265	23,677
45-54	22,837	22,132
55-64	20,899	22,719
65-74	15,070	20,913
75-84	10,148	16,876
85+	4,599	10,430

<sup>^</sup>Age-adjusted rate per 100,000 population  
Rates based on counts of 20 or less may be unstable.

# All Injuries by Injury Mechanism

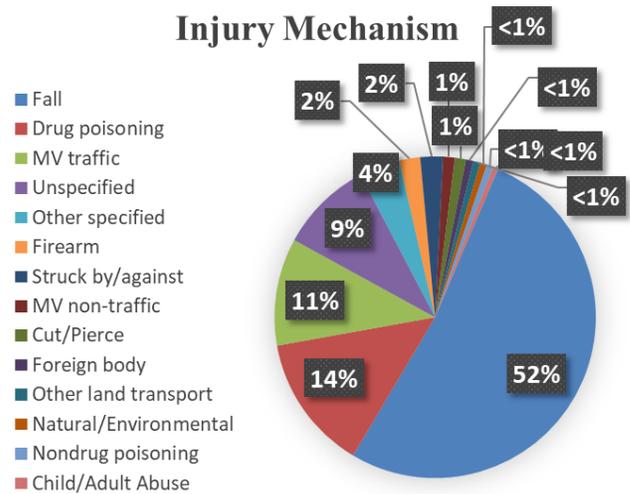
## Mortality

Injury Mechanism	Count
Poisoning	2,258
Firearm	820
MV traffic	727
Fall	465
Suffocation	311
Unspecified	238
Other specified	122
Fire/Flame	95
Natural/Environmental	73
Drowning	71
Other land transport	41
Cut/Pierce	40
Struck by/against	27



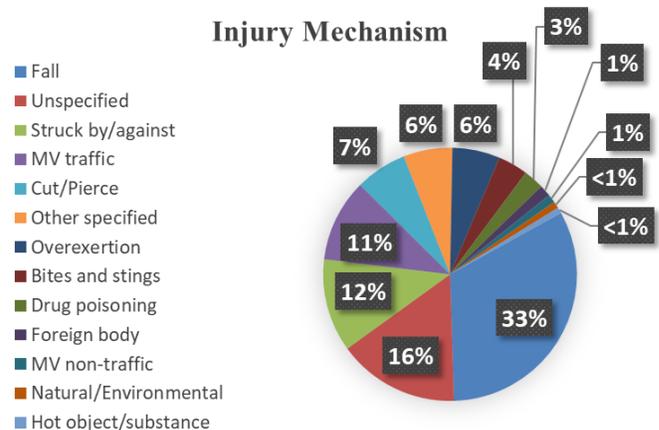
## Inpatient Hospitalizations

Injury Mechanism	Count
Fall	11,334
Drug poisoning	2,963
MV traffic	2,349
Unspecified	2,032
Other specified	891
Firearm	456
Struck by/against	493
MV non-traffic	258
Cut/Pierce	243
Foreign body	159
Other land transport	157
Natural/Environmental	146
Nondrug poisoning	145
Child/Adult Abuse	111



## Emergency Department Visits

Injury Mechanism	Count
Fall	132,622
Unspecified	63,227
Struck by/against	48,384
MV traffic	43,093
Cut/Pierce	26,817
Other specified	25,429
Overexertion	24,679
Bites and stings	15,590
Drug poisoning	10,630
Foreign body	5,941
MV non-traffic	4,345
Natural/Environmental	3,512
Hot object/substance	3,100



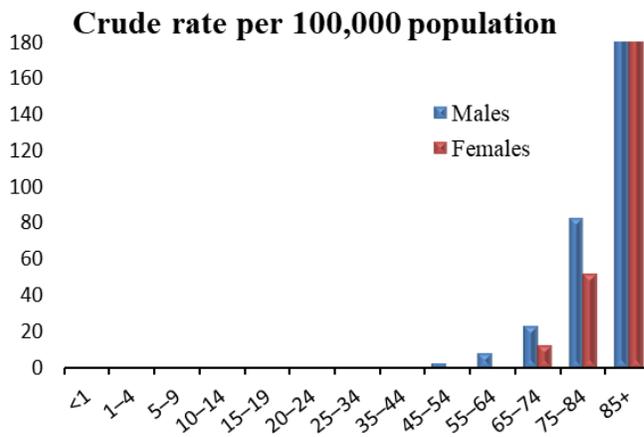
# Unintentional Falls by Age and Sex

## Mortality

Total: 456 (8.3)<sup>^</sup>

Males: 241 (10.5)

Females: 215 (6.6)



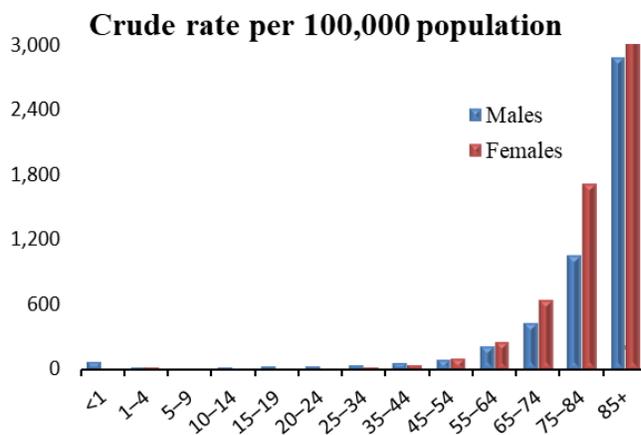
Age	Males	Females
<1	0	0
1-4	0	0
5-9	0	0
10-14	0	0
15-19	0	0
20-24	0	0
25-34	*	0
35-44	*	*
45-54	7	*
55-64	23	*
65-74	52	32
75-84	86	70
85+	63	96

## Inpatient Hospitalization

Total: 11,327 (205.4)

Males: 4,080 (171.5)

Females 7,247 (228.5)



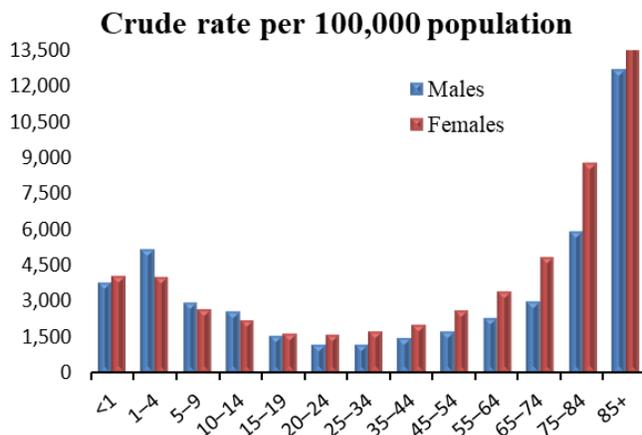
Age	Males	Females
<1	17	*
1-4	13	15
5-9	12	14
10-14	27	*
15-19	32	8
20-24	33	9
25-34	110	57
35-44	167	100
45-54	252	275
55-64	605	746
65-74	953	1,613
75-84	1,093	2,292
85+	766	2,106

## Emergency Department Visits

Total: 132,558 (2,788.2)

Males: 54,862 (2,462.6)

Females: 77,696 (3,072.6)



Age	Males	Females
<1	1,013	1,047
1-4	5,638	4,134
5-9	4,240	3,680
10-14	3,858	3,101
15-19	2,365	2,353
20-24	1,888	2,440
25-34	3,669	5,119
35-44	4,207	5,764
45-54	4,943	7,270
55-64	6,681	10,396
65-74	6,804	12,296
75-84	6,166	11,834
85+	3,390	8,262

<sup>^</sup>Age-adjusted rate per 100,000 population

\*Suppressed per state data policies

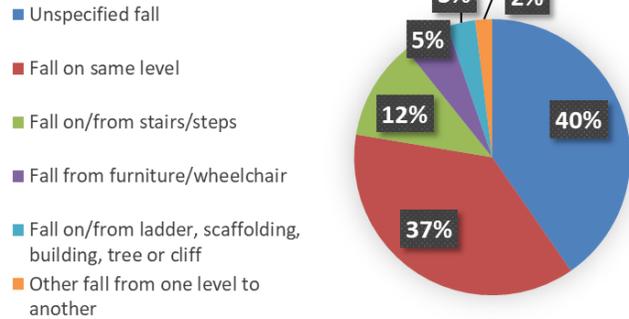
Rates based on counts of 20 or less may be unstable.

# Unintentional Falls by Type of Fall

## Mortality

Type of Fall	Count
Unspecified fall	184
Fall on same level	170
Fall on/from stairs/steps	53
Fall from furniture/wheelchair	25
Fall on/from ladder, scaffolding, building, tree or cliff	15
Other fall from one level to another	9

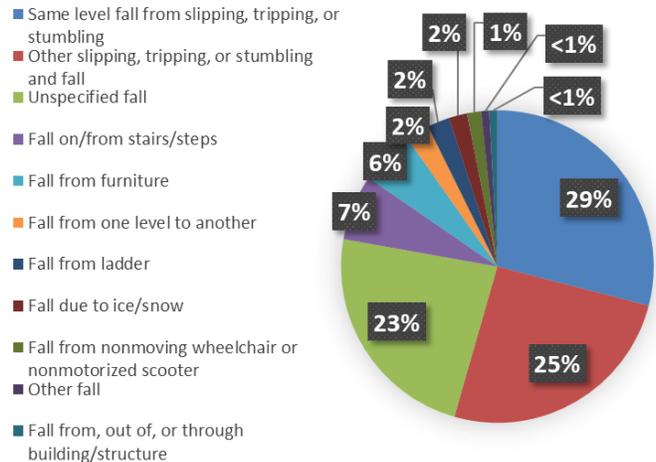
Type of Fall



## Inpatient Hospitalizations

Type of Fall	Count
Same level fall from slipping, tripping, or stumbling	3,289
Other slipping, tripping, or stumbling and fall	2,878
Unspecified fall	2,647
Fall on/from stairs/steps	769
Fall from furniture	639
Fall from one level to another	277
Fall from ladder	260
Fall due to ice/snow	214
Fall from nonmoving wheelchair or nonmotorized scooter	165
Other fall	95
Fall from, out of, or through building/structure	94

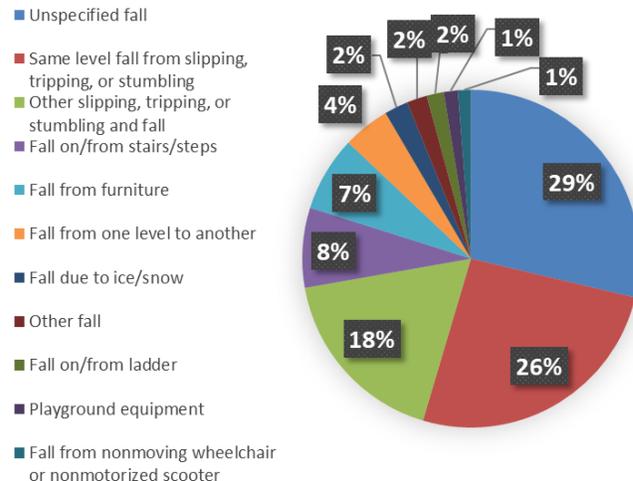
Type of Fall



## Emergency Department Visits

Type of Fall	Count
Unspecified fall	38,049
Same level fall from slipping, tripping, or stumbling	34,316
Other slipping, tripping, or stumbling and fall	23,383
Fall on/from stairs/steps	10,141
Fall from furniture	9,519
Fall from one level to another	5,950
Fall due to ice/snow	3,016
Other fall	2,580
Fall on/from ladder	2,180
Playground equipment	1,774
Fall from nonmoving wheelchair or nonmotorized scooter	1,650

Type of Fall



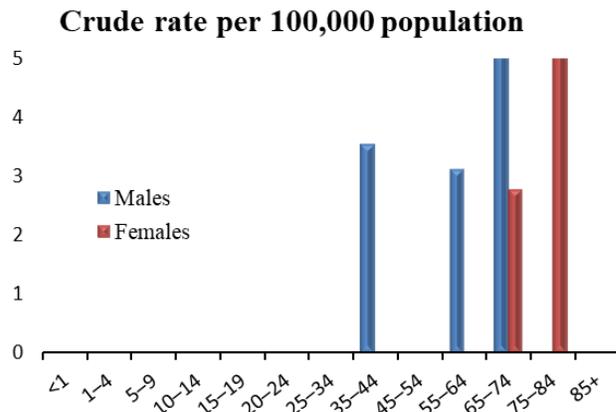
# Unintentional Fire-Related Injuries by Age and Sex

## Mortality

Total: 84 (1.7)<sup>^</sup>

Males: 50 (2.1)

Females: 34 (1.2)



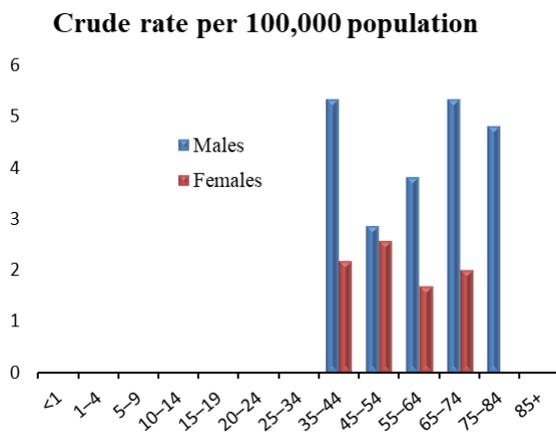
Age	Males	Females
<1	0	0
1-4	*	0
5-9	*	0
10-14	*	0
15-19	*	*
20-24	0	0
25-34	0	*
35-44	10	*
45-54	*	*
55-64	9	*
65-74	14	7
75-84	*	8
85+	*	*

## Inpatient Hospitalizations

Total: 103 (2.2)

Males: 69 (3.0)

Females: 34 (1.5)



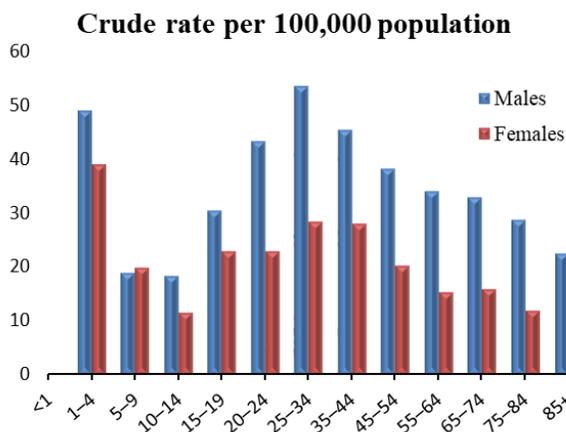
Age	Males	Females
<1	*	*
1-4	*	*
5-9	*	0
10-14	*	0
15-19	*	*
20-24	*	*
25-34	*	*
35-44	15	6
45-54	8	7
55-64	11	5
65-74	12	5
75-84	5	*
85+	*	*

## Emergency Department Visits

Total: 1,301 (29.7)

Males: 827 (37.5)

Females: 474 (22.0)



Age	Males	Females
<1	5	*
1-4	53	40
5-9	27	27
10-14	27	16
15-19	45	32
20-24	67	34
25-34	160	82
35-44	128	78
45-54	107	56
55-64	98	46
65-74	74	40
75-84	30	16
85+	6	*

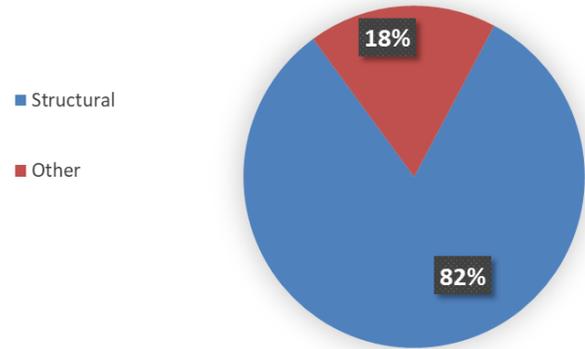
<sup>^</sup>Age-adjusted rate per 100,000 population  
 \*Suppressed per state data policies  
 Rates based on counts of 20 or less may be unstable.

# Unintentional Fire-Related Injuries by Type of Fire

## Mortality

Type of Fire	Count
Structural	69
Other	15

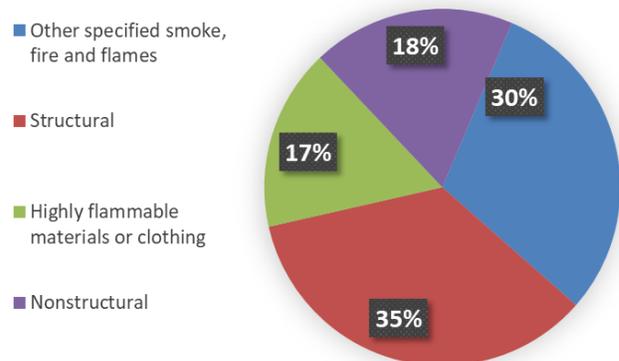
Type of Fire



## Inpatient Hospitalizations

Type of Fire	Count
Other specified smoke, fire and flames	31
Structural	36
Highly flammable materials or clothing	17
Nonstructural	19

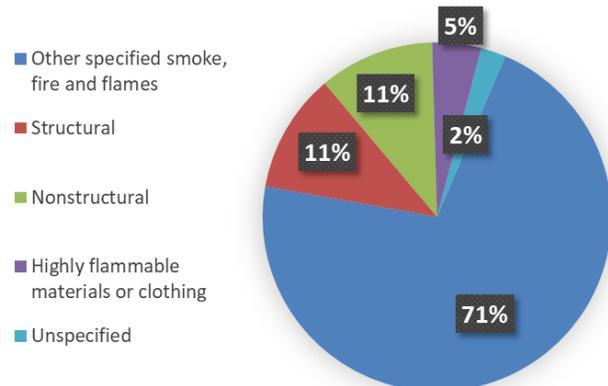
Type of Fire



## Emergency Department Visits

Type of Fire	Count
Other specified smoke, fire and flames	929
Structural	144
Nonstructural	139
Highly flammable materials or clothing	59
Unspecified	30

Type of Fire



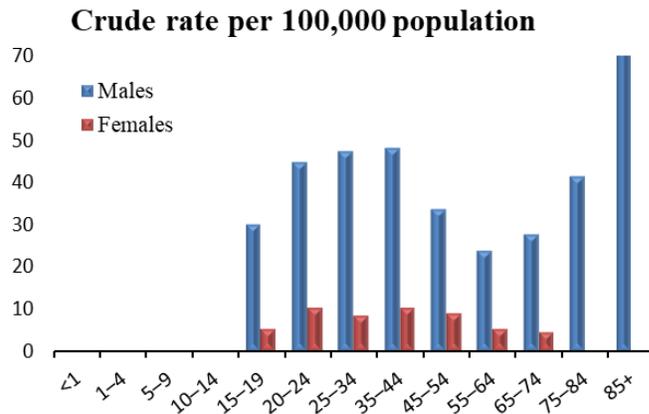
# Firearm-Related Injuries by Age and Sex

## Mortality

Total: 820 (18.5)<sup>^</sup>

Males: 690 (31.6)

Females: 130 (6.0)



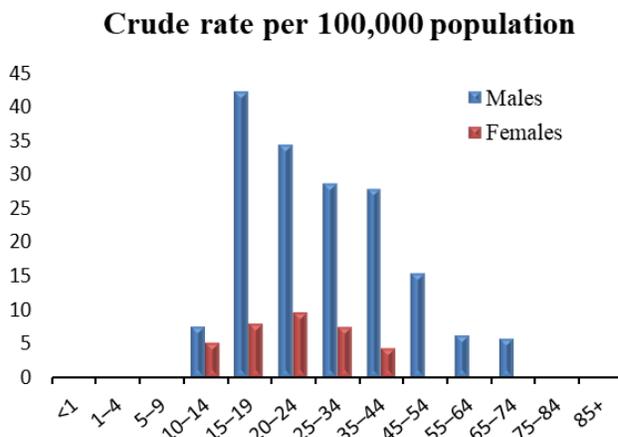
Age	Males	Females
<1	0	0
1-4	*	*
5-9	0	0
10-14	*	*
15-19	44	7
20-24	69	15
25-34	141	24
35-44	135	28
45-54	94	24
55-64	68	15
65-74	62	11
75-84	43	*
85+	25	0

## Inpatient Hospitalizations

Total: 456 (10.9)

Males: 374 (17.8)

Females: 82 (3.9)



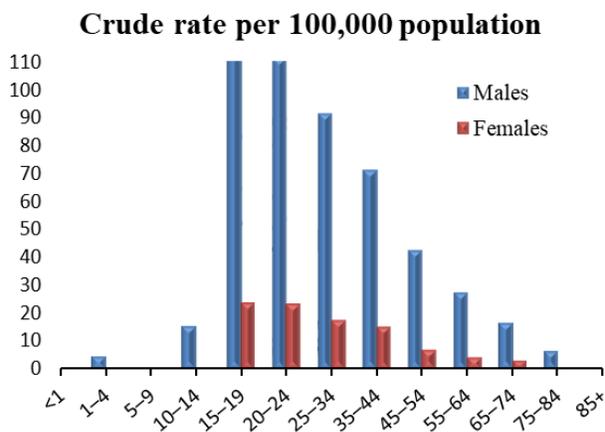
Age	Males	Females
<1	0	0
1-4	*	*
5-9	*	*
10-14	11	7
15-19	62	11
20-24	53	14
25-34	85	21
35-44	78	12
45-54	43	*
55-64	18	*
65-74	13	*
75-84	*	*
85+	*	*

## Emergency Department Visits

Total: 1,299 (30.7)

Males: 1,089 (50.9)

Females: 210 (10.1)



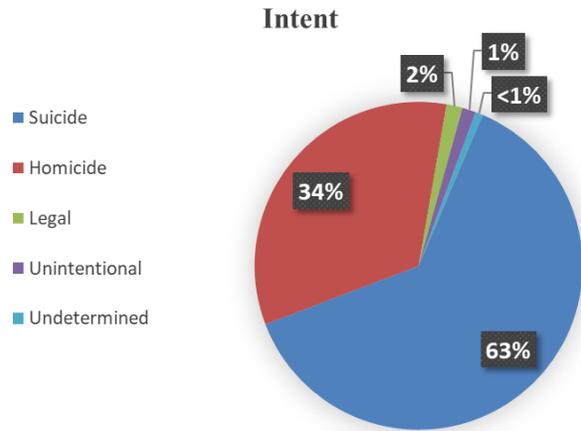
Age	Males	Females
<1	*	0
1-4	5	*
5-9	*	*
10-14	23	*
15-19	166	33
20-24	172	35
25-34	273	50
35-44	201	42
45-54	119	19
55-64	79	13
65-74	38	8
75-84	7	*
85+	*	*

<sup>^</sup>Age-adjusted rate per 100,000 population  
 \*Suppressed per state data policies  
 Rates based on counts of 20 or less may be unstable.

# Firearm-Related Injuries by Intent

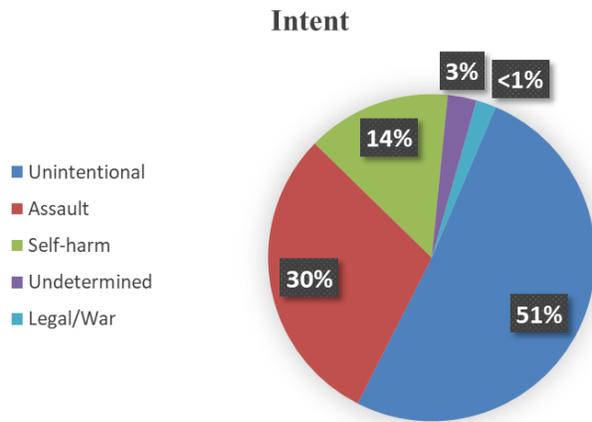
## Mortality

Intent	Count
Suicide	515
Homicide	275
Legal	13
Unintentional	11
Undetermined	6



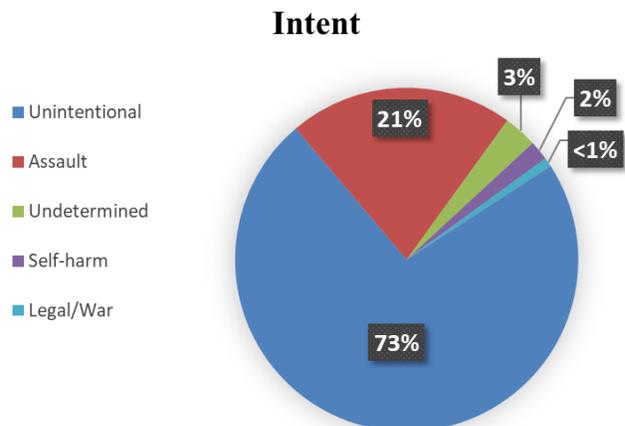
## Inpatient Hospitalizations

Intent	Count
Unintentional	233
Assault	136
Self-harm	65
Undetermined	13
Legal/War	9



## Emergency Department Visits

Intent	Count
Unintentional	948
Assault	275
Undetermined	41
Self-harm	24
Legal/War	11



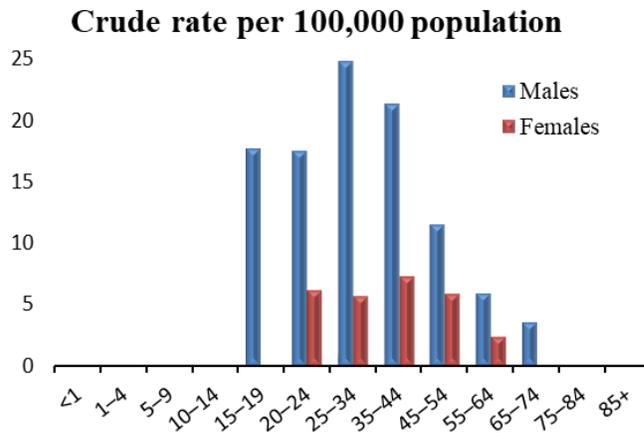
# Homicide and Assault by Age and Sex

## Mortality

Total: 337 (8.1)<sup>^</sup>

Males: 252 (12.0)

Females: 85 (4.1)



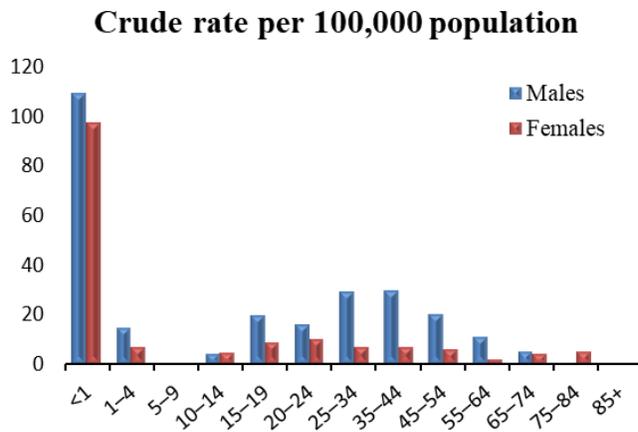
Age	Males	Females
<1	0	0
1-4	0	*
5-9	*	*
10-14	*	*
15-19	26	*
20-24	27	9
25-34	74	16
35-44	60	20
45-54	32	16
55-64	17	7
65-74	8	*
75-84	*	*
85+	*	*

## Inpatient Hospitalizations

Total: 528 (12.7)

Males: 379 (18.1)

Females: 149 (7.1)



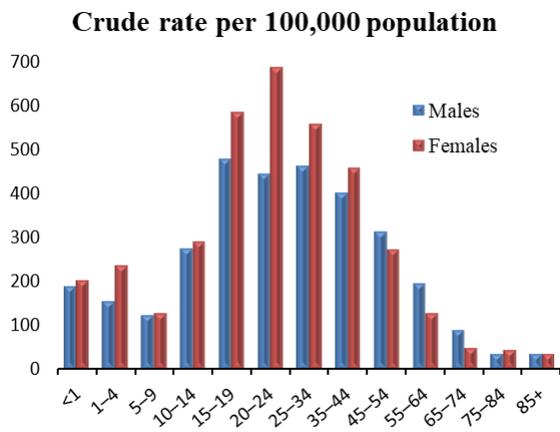
Age	Males	Females
<1	29	25
1-4	16	7
5-9	*	*
10-14	6	6
15-19	29	12
20-24	25	15
25-34	87	19
35-44	83	19
45-54	56	16
55-64	32	6
65-74	11	10
75-84	*	7
85+	0	*

## Emergency Department Visits

Total: 13,311 (318.8)

Males: 6,379 (300.0)

Females: 6,932 (338.7)



Age	Males	Females
<1	50	52
1-4	166	242
5-9	176	172
10-14	406	404
15-19	704	817
20-24	686	1,022
25-34	1,382	1,611
35-44	1,133	1,278
45-54	873	751
55-64	559	384
65-74	200	123
75-84	35	58
85+	9	18

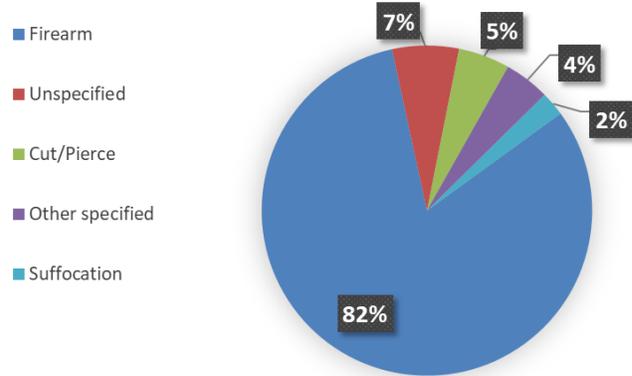
<sup>^</sup>Age-adjusted rate per 100,000 population  
 \*Suppressed per state data policies  
 Rates based on counts of 20 or less may be unstable.

# Homicide and Assault by Mechanism of Injury

## Mortality

Mechanism of Injury	Count
Firearm	275
Unspecified	22
Cut/Pierce	17
Other specified	15
Suffocation	8

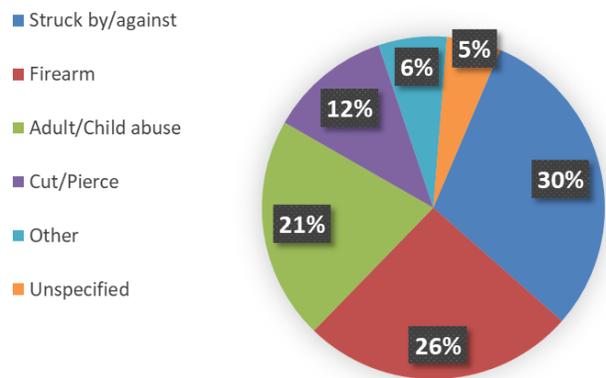
Mechanism of Injury



## Inpatient Hospitalizations

Mechanism of Injury	Count
Struck by/against	159
Firearm	136
Adult/Child abuse	111
Cut/Pierce	61
Other	34
Unspecified	27

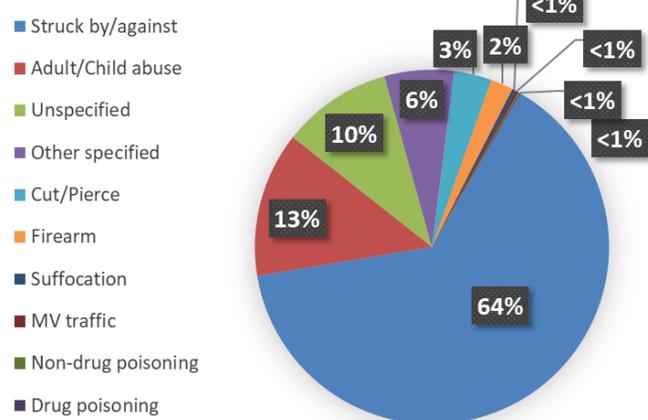
Mechanism of Injury



## Emergency Department Visits

Mechanism of Injury	Count
Struck by/against	8,526
Adult/Child abuse	1,762
Unspecified	1,338
Other specified	844
Cut/Pierce	457
Firearm	275
Suffocation	44
MV traffic	34
Non-drug poisoning	18
Drug poisoning	13

Mechanism of Injury



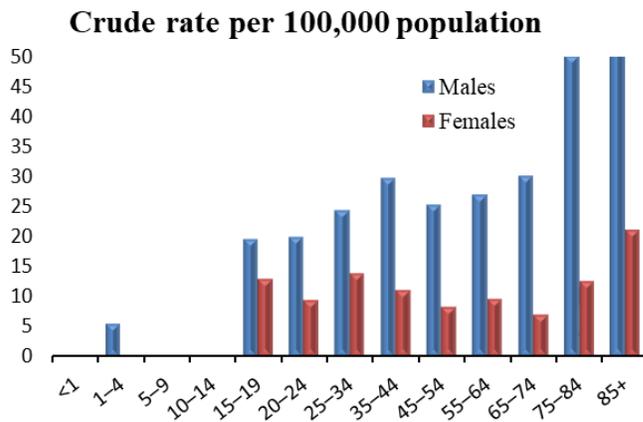
# Unintentional MV Traffic Crashes by Age and Sex

## Mortality

Total: 727 (15.6)<sup>^</sup>

Males: 518 (22.8)

Females: 209 (9.0)



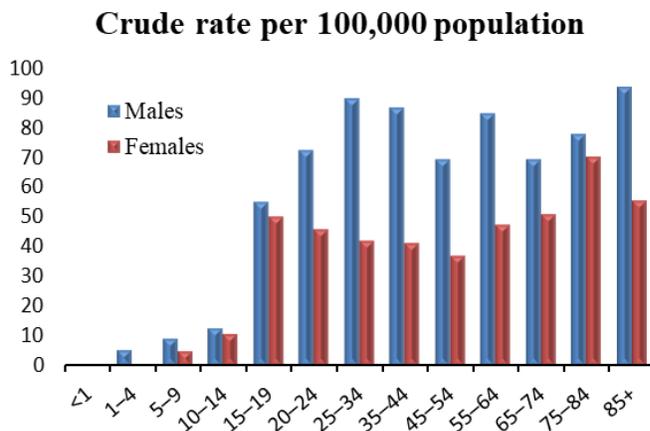
Age	Males	Females
<1	0	0
1-4	6	*
5-9	*	*
10-14	*	*
15-19	29	18
20-24	31	14
25-34	73	40
35-44	84	31
45-54	71	23
55-64	78	29
65-74	68	18
75-84	52	17
85+	21	11

## Inpatient Hospitalizations

Total: 2,340 (50.1)

Males: 1,443 (63.4)

Females: 897 (37.1)



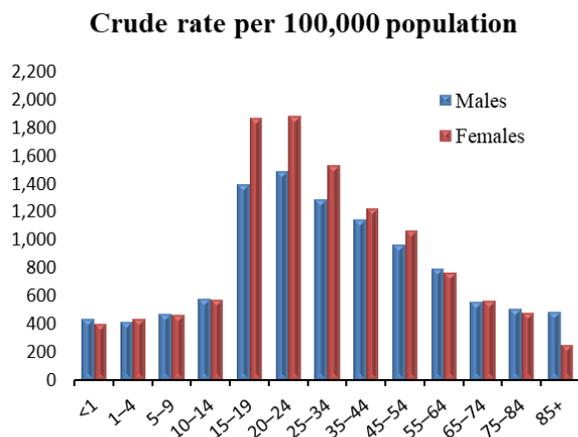
Age	Males	Females
<1	0	*
1-4	6	*
5-9	13	7
10-14	19	15
15-19	81	70
20-24	112	68
25-34	268	121
35-44	244	115
45-54	194	102
55-64	244	142
65-74	156	129
75-84	81	94
85+	25	29

## Emergency Department Visits

Total: 43,026 (988.4)

Males: 20,405 (934.4)

Females: 22,621 (1,046.0)



Age	Males	Females
<1	116	103
1-4	452	449
5-9	672	626
10-14	854	795
15-19	2,053	2,612
20-24	2,304	2,801
25-34	3,853	4,409
35-44	3,221	3,411
45-54	2,698	2,931
55-64	2,276	2,293
65-74	1,250	1,419
75-84	526	641
85+	130	131

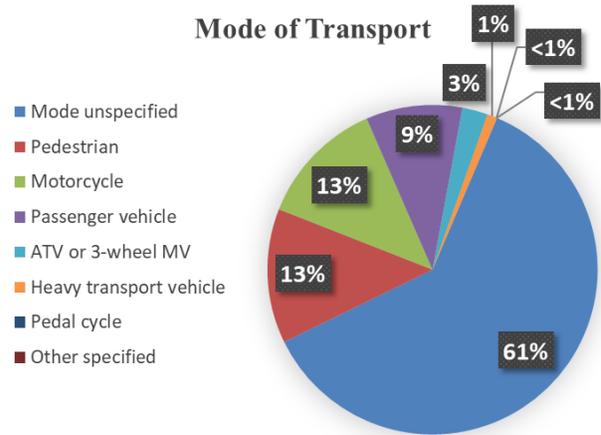
<sup>^</sup>Age-adjusted rate per 100,000 population  
 \*Suppressed per state data policies  
 Rates based on counts of 20 or less may be unstable.

# Unintentional MV Traffic Crashes by Mode of Transport

## Mortality

Mode of Transport	Count
Mode unspecified	442
Pedestrian	95
Motorcycle	90
Passenger vehicle	68
ATV or 3-wheel MV	18
Heavy transport vehicle	7
Pedal cycle	*
Other specified	*

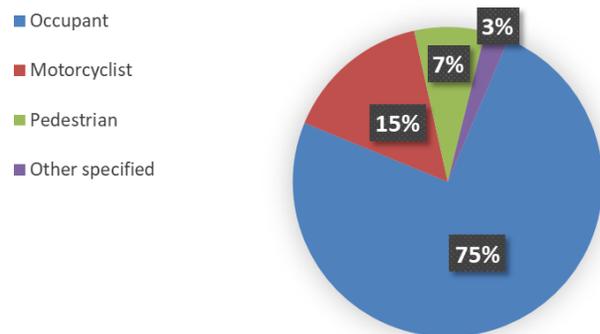
Mode of Transport



## Inpatient Hospitalizations

Person Type Injured	Count
Occupant	1,751
Motorcyclist	358
Pedestrian	173
Other specified	58

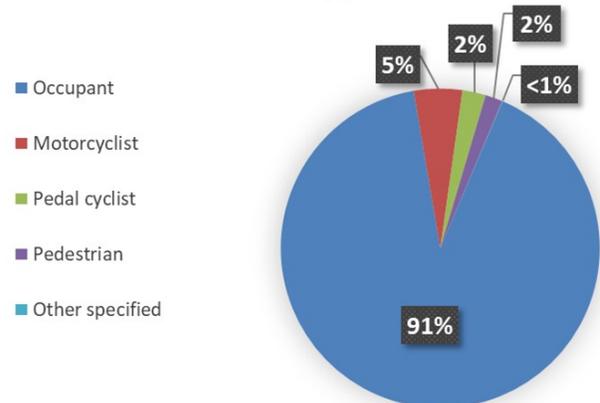
Person Type Injured



## Emergency Department Visits

Person Type Injured	Count
Occupant	39,127
Motorcyclist	2,112
Pedal cyclist	1,016
Pedestrian	757
Other specified	14

Person Type Injured



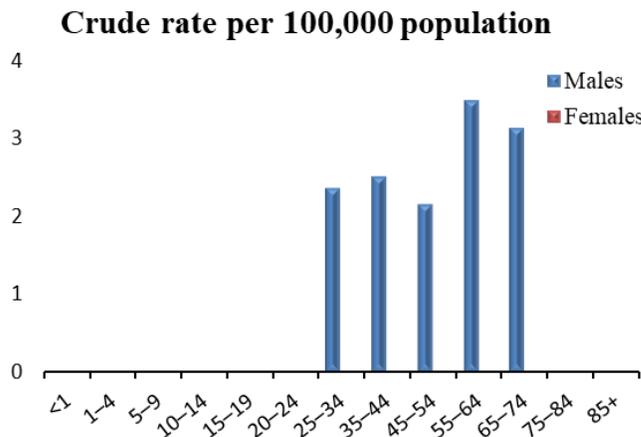
# Nondrug Poisoning by Age and Sex

## Mortality

Total: 58 (1.2)<sup>^</sup>

Males: 42 (1.8)

Females: 16 (0.7)

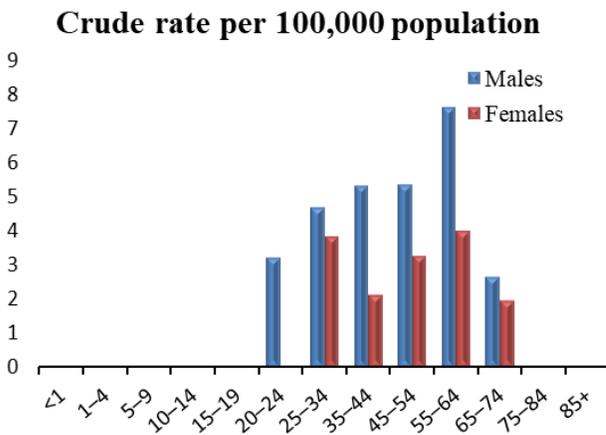


Age	Males	Females
<1	0	0
1-4	0	0
5-9	0	0
10-14	0	0
15-19	*	0
20-24	*	0
25-34	7	*
35-44	7	*
45-54	6	*
55-64	10	*
65-74	7	*
75-84	0	*
85+	*	0

## Inpatient Hospitalizations

Total: 145 (3.1)

Males:



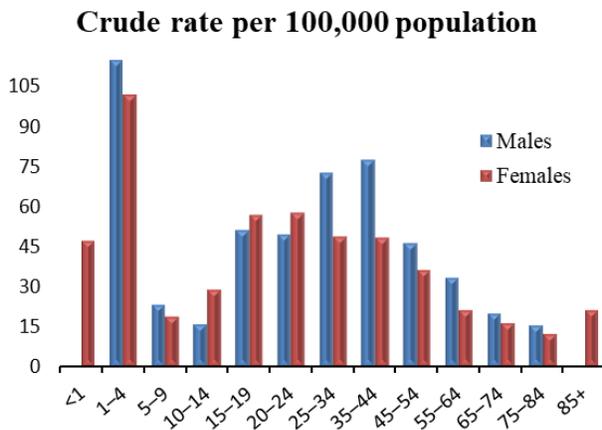
Age	Males	Females
<1	*	0
1-4	*	*
5-9	*	*
10-14	0	*
15-19	*	*
20-24	5	*
25-34	14	11
35-44	15	6
45-54	15	9
55-64	22	12
65-74	6	5
75-84	0	*
85+	*	*

## Emergency Department Visits

Total: 1,911 (45.6)

Males: 1,063 (50.4)

Females: 848 (40.6)



Age	Males	Females
<1	*	12
1-4	124	104
5-9	33	25
10-14	23	40
15-19	75	79
20-24	76	85
25-34	216	139
35-44	217	134
45-54	129	99
55-64	95	63
65-74	44	41
75-84	16	16
85+	*	11

<sup>^</sup>Age-adjusted rate per 100,000 population

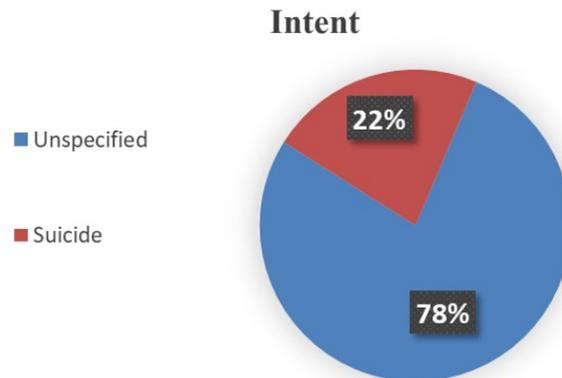
\*Suppressed per state data policies

Rates based on counts of 20 or less may be unstable.

# Nondrug Poisoning by Intent

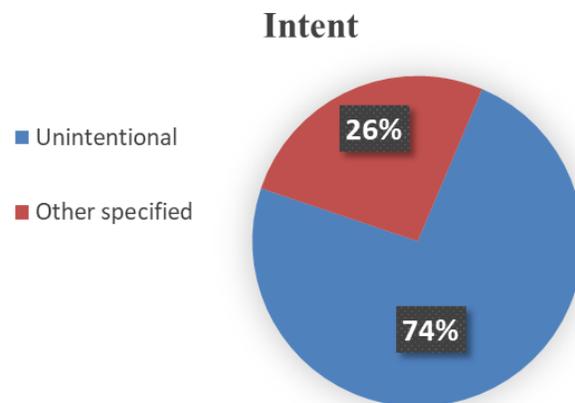
## Mortality

Intent	Count
Unknown	45
Suicide	13



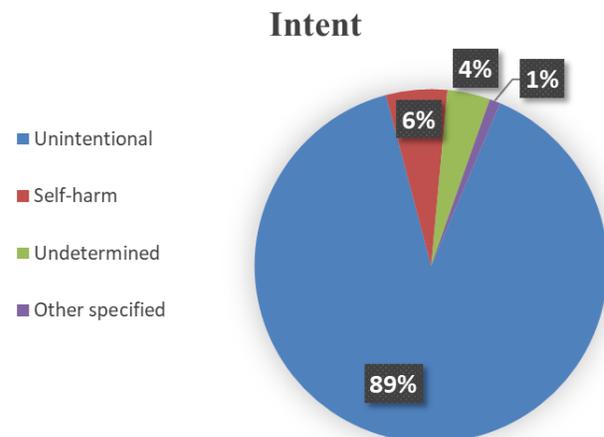
## Inpatient Hospitalizations

Intent	Count
Unintentional	107
Other specified	38



## Emergency Department Visits

Intent	Count
Unintentional	1,710
Self-harm	107
Undetermined	75
Other specified	19



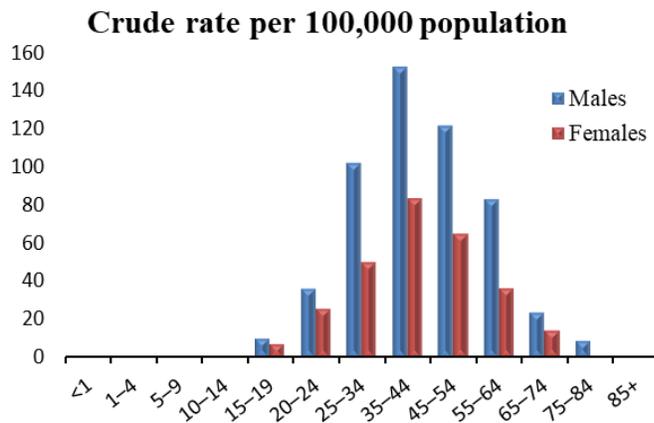
# Drug Poisoning by Age and Sex

## Mortality

Total: 2,200 (51.7)<sup>^</sup>

Males: 1,447 (67.6)

Females: 753 (35.6)



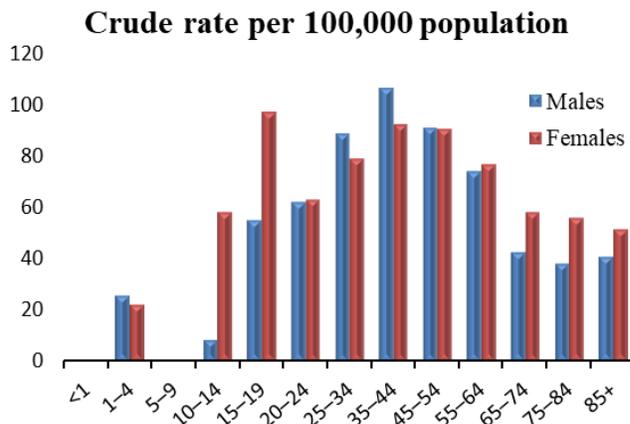
Age	Males	Females
<1	0	0
1-4	*	*
5-9	0	*
10-14	0	0
15-19	15	10
20-24	56	38
25-34	303	143
35-44	428	231
45-54	338	178
55-64	239	108
65-74	53	36
75-84	9	*
85+	*	*

## Inpatient Hospitalizations

Total: 2,963 (66.6)

Males: 1,405 (64.0)

Females: 1,558 (69.2)



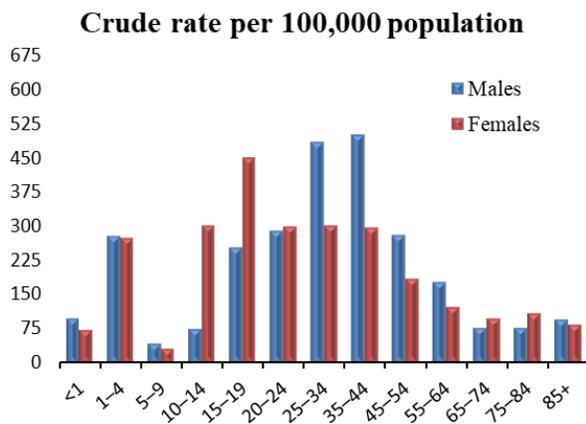
Age	Males	Females
<1	*	*
1-4	28	23
5-9	*	*
10-14	13	81
15-19	81	136
20-24	96	94
25-34	265	228
35-44	300	258
45-54	255	250
55-64	214	231
65-74	96	147
75-84	40	75
85+	11	27

## Emergency Department Visits

Total: 10,630 (253.0)

Males: 5,767 (274.6)

Females: 4,863 (231.3)



Age	Males	Females
<1	26	19
1-4	302	283
5-9	63	45
10-14	110	422
15-19	374	628
20-24	448	445
25-34	1,446	867
35-44	1,410	827
45-54	789	513
55-64	514	374
65-74	177	248
75-84	82	148
85+	26	44

<sup>^</sup>Age-adjusted rate per 100,000 population

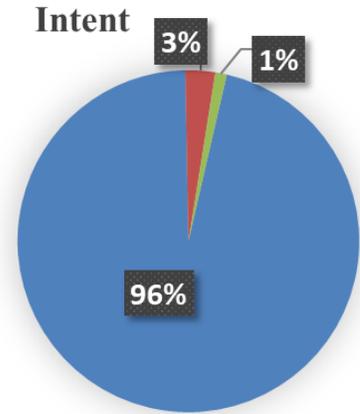
\*Suppressed per state data policies

Rates based on counts of 20 or less may be unstable.

# Drug Poisoning by Intent

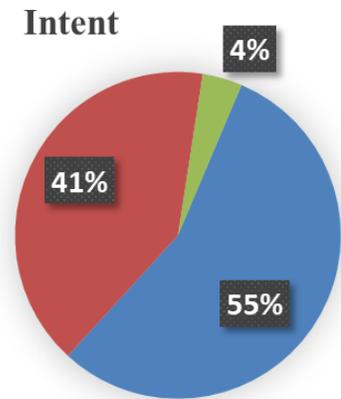
## Mortality

Intent	Count
Unintentional	2,114
Intentional	62
Undetermined	24



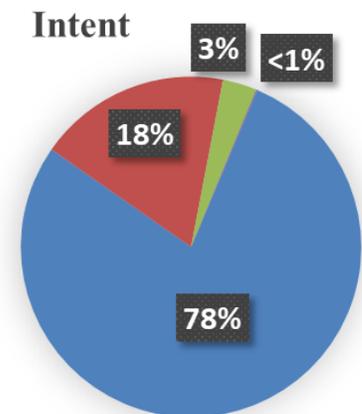
## Inpatient Hospitalizations

Intent	Count
Unintentional	1,642
Self-harm	1,204
Other specified	117



## Emergency Department Visits

Intent	Count
Unintentional	8,324
Self-harm	1,947
Undetermined	346
Assault	13



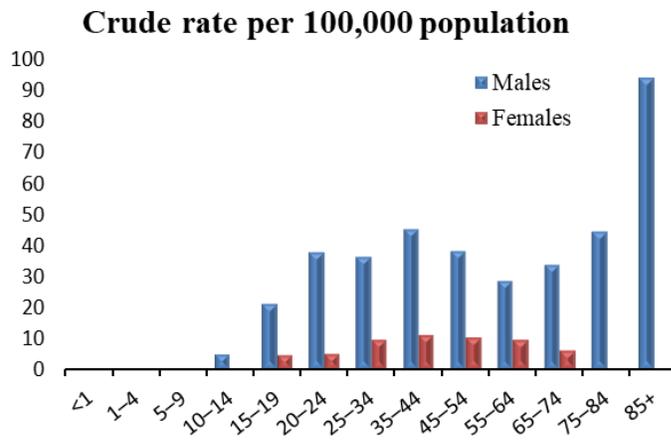
# Suicide and Self-Harm Injury by Age and Sex

## Mortality<sup>1</sup>

Total: 808 (17.8)<sup>^</sup>

Males: 664 (29.8)

Females: 144 (6.3)



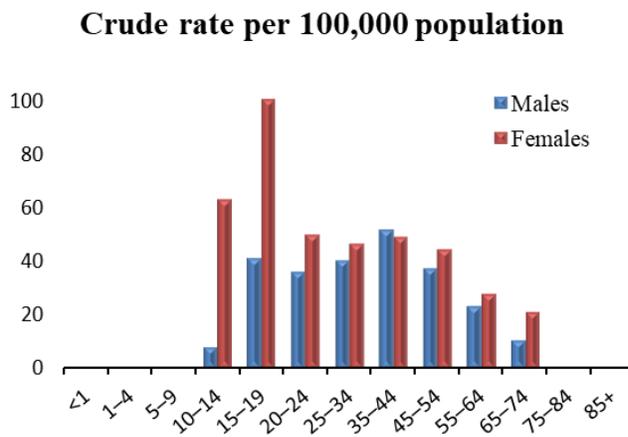
Age	Males	Females
<1		
1-4		
5-9		
10-14	7	*
15-19	31	6
20-24	58	7
25-34	108	26
35-44	126	30
45-54	106	27
55-64	82	27
65-74	75	15
75-84	46	*
85+	25	0

## Inpatient Hospitalizations<sup>1</sup>

Total: 1,466 (34.3)

Males: 607 (28.5)

Females: 859 (40.3)



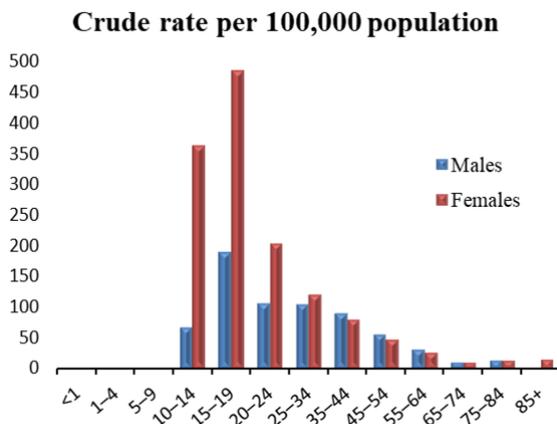
Age	Males	Females
<1		
1-4		
5-9		
10-14	12	88
15-19	61	141
20-24	56	75
25-34	121	135
35-44	146	137
45-54	105	123
55-64	67	84
65-74	24	54
75-84	*	*
85+	*	*

## Emergency Department Visits<sup>1</sup>

Total: 3,673 (89.0)

Males: 1,370 (65.2)

Females: 2,303 (114.2)



Age	Males	Females
<1		
1-4		
5-9		
10-14	97	503
15-19	278	676
20-24	162	302
25-34	311	347
35-44	249	219
45-54	152	130
55-64	88	78
65-74	20	25
75-84	13	16
85+	0	7

<sup>^</sup>Age-adjusted rate per 100,000 population

\*Suppressed per state data policies

Rates based on counts of 20 or less may be unstable.

<sup>1</sup>Data for persons aged <10 years are not shown.

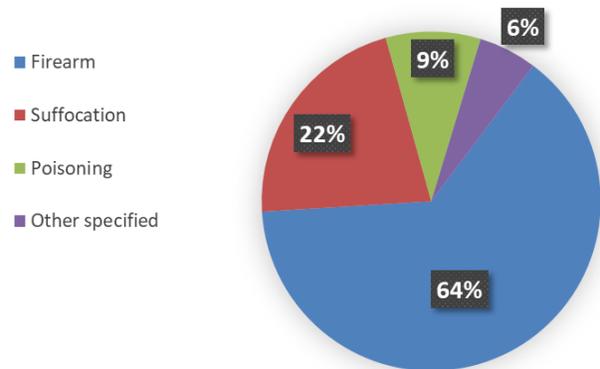


# Suicide and Self-Harm Injury by Mechanism of Injury

## Mortality

Mechanism of Injury	Count
Firearm	515
Suffocation	175
Poisoning	73
Other specified	45

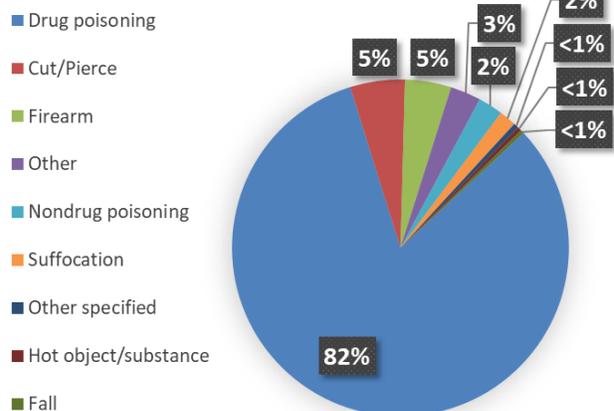
Mechanism of Injury



## Inpatient Hospitalizations

Mechanism of Injury	Count
Drug poisoning	1,204
Cut/Pierce	77
Firearm	65
Other	43
Nondrug poisoning	35
Suffocation	24
Other specified	7
Hot object/substance	6
Fall	5

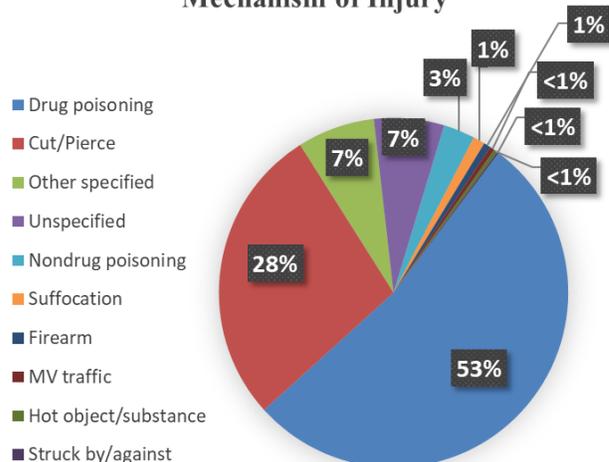
Mechanism of Injury



## Emergency Department Visits

Mechanism of Injury	Count
Drug poisoning	1,947
Cut/Pierce	1,019
Other specified	263
Unspecified	239
Nondrug poisoning	107
Suffocation	40
Firearm	24
MV traffic	16
Hot object/substance	12
Struck by/against	6

Mechanism of Injury



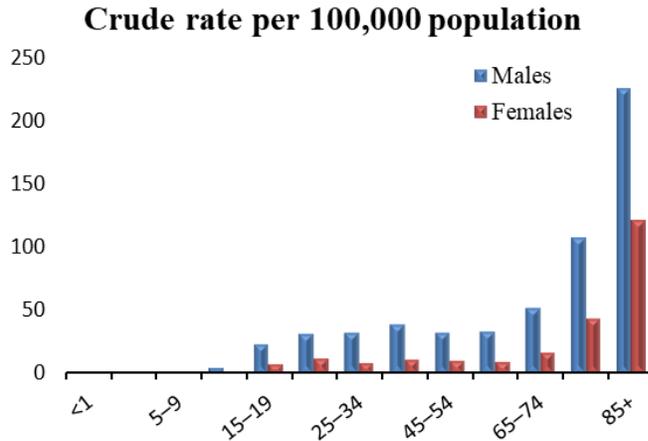
# Traumatic Brain Injury by Age and Sex

## Mortality

Total: 1,086 (22.5)<sup>^</sup>

Males: 776 (34.2)

Females: 310 (11.8)



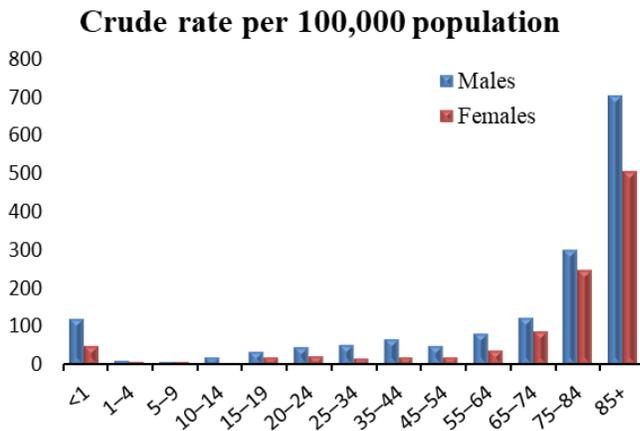
Age	Males	Females
<1	0	0
1-4	*	*
5-9	*	*
10-14	7	*
15-19	34	11
20-24	48	18
25-34	98	25
35-44	109	30
45-54	91	28
55-64	97	27
65-74	116	43
75-84	111	58
85+	60	63

## Inpatient Hospitalizations

Total: 2,960 (58.7)

Males: 1,738 (75.9)

Females: 1,222 (42.7)



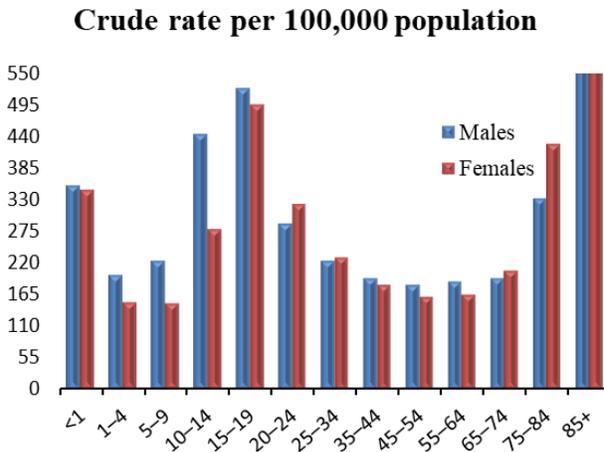
Age	Males	Females
<1	32	13
1-4	14	11
5-9	15	11
10-14	32	11
15-19	54	30
20-24	73	34
25-34	163	57
35-44	190	56
45-54	146	60
55-64	240	114
65-74	278	229
75-84	313	332
85+	188	264

## Emergency Department Visits

Total: 11,218 (251.7)

Males: 5,700 (261.7)

Females: 5,518 (240.6)



Age	Males	Females
<1	94	89
1-4	215	156
5-9	320	202
10-14	654	388
15-19	771	690
20-24	445	478
25-34	668	660
35-44	542	505
45-54	511	442
55-64	540	496
65-74	433	521
75-84	344	573
85+	163	318

<sup>^</sup>Age-adjusted rate per 100,000 population

\*Suppressed per state data policies

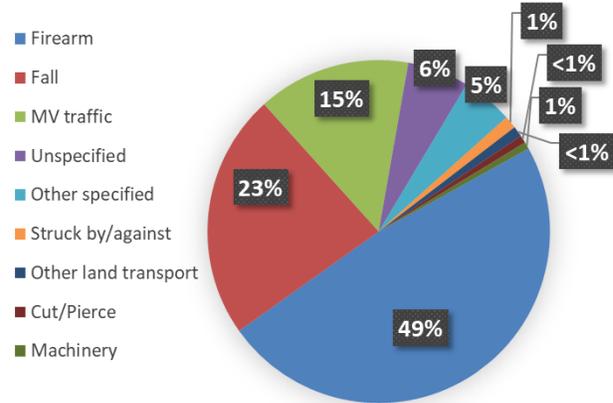
Rates based on counts of 20 or less may be unstable.

# Traumatic Brain Injury by Mechanism of Injury

## Mortality

Mechanism of Injury	Count
Firearm	531
Fall	255
MV traffic	159
Unspecified	64
Other specified	53
Struck by/against	13
Other land transport	11
Cut/Pierce	8
Machinery	7

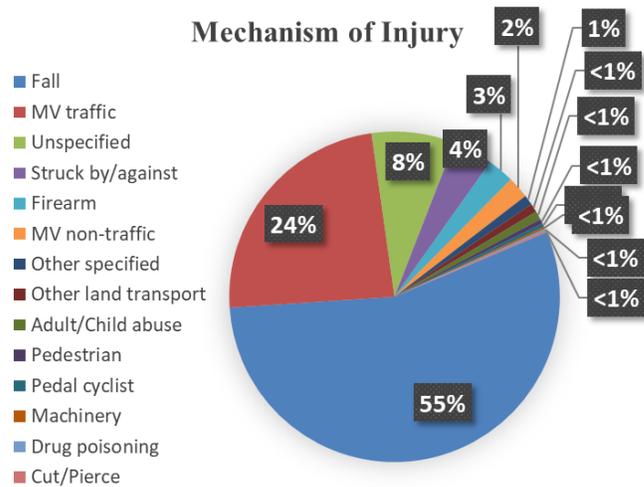
Mechanism of Injury



## Inpatient Hospitalizations

Mechanism of Injury	Count
Fall	1,638
MV traffic	705
Unspecified	241
Struck by/against	116
Firearm	77
MV non-traffic	63
Other specified	29
Other land transport	25
Adult/Child abuse	25
Pedestrian	13
Pedal cyclist	11
Machinery	6
Drug poisoning	6
Cut/Pierce	5

Mechanism of Injury



## Emergency Department Visits

Mechanism of Injury	Count
Fall	4,854
Struck by/against	2,587
MV traffic	1,949
Unspecified	953
MV non-traffic	283
Other land transport	249
Other specified	225
Natural/Environmental	62
Pedal cyclist	56

Mechanism of Injury

