

KENTUCKY INJURY INDICATORS



2012

KENTUCKY VIOLENCE AND INJURY PREVENTION PROJECT (KVIPP)

COOPERATIVE AGREEMENT No: 1U17CE002017-03

KENTUCKY INJURY PREVENTION AND RESEARCH CENTER

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Abbreviations

| | |
|---------|--|
| CDC | Centers for Disease Control and Prevention |
| ED | Emergency Department |
| ICD | International Classification of Diseases |
| KIPRC | Kentucky Injury Prevention and Research Center |
| KY-IPOP | Kentucky Inpatient and Outpatient Claims Database |
| MVTC | Motor Vehicle Traffic Crash |
| PAR | Police Accident Report |
| SII | State Injury Indicator Reports |
| WISQARS | Web-Based Injury Statistics Query and Reporting System |
| WONDER | Wide-ranging Online Data for Epidemiologic Research |

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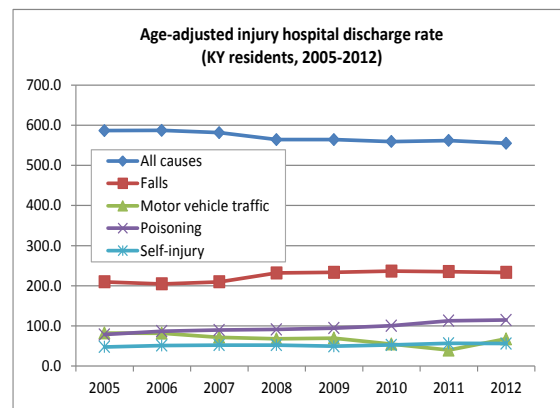
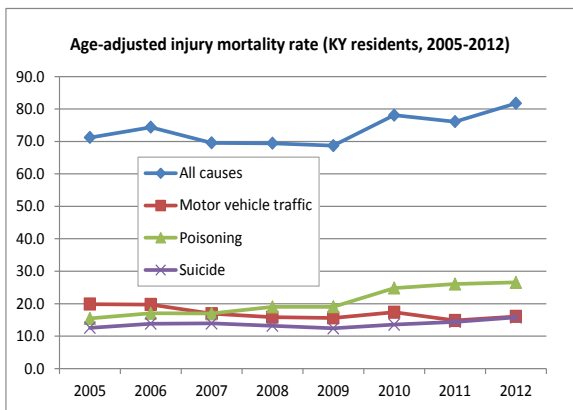
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Executive Summary

Kentucky's age-adjusted injury mortality rate increased 7.5% in 2012 compared to 2011 (from 76.1 to 81.8 per 100,000 population). This continues a trend of increasing injury mortality that began in 2010 and has been driven largely by increases in accidental drug overdose and suicide. This increase follows a period of decreasing injury mortality (from 71.2 per 100,000 in 2005 to 68.7 per 100,000 in 2009) driven primarily by reduction in motor vehicle traffic fatalities.

The injury morbidity rate in Kentucky, as measured by hospital discharges, has been gradually but steadily declining in recent years. That trend continued in 2012 with the age-adjusted hospital discharge rate decreasing from 561.8 to 554.9 per 100,000 population. Discharge rates involving accidental drug overdose have been rising at the same time as those involving motor vehicle traffic injuries have been decreasing.

These trends reinforce the need for a broad-based, multi-sector approach to promoting safe and healthy communities that includes the substance abuse and mental health sectors in addition to traditional partnerships.



Fatalities

The leading causes of injury mortality in Kentucky in 2012 were *unintentional poisonings* (980), *suicide* (691) and *motor vehicle traffic crashes* (688). These three causes accounted for two-thirds of the 3,546 injury deaths of Kentucky residents in 2012. In 912 of the 980 unintentional poisonings deaths (93%), medications or drugs were involved.

Hospitalizations

The leading causes of injury-related hospital discharges in Kentucky in 2012 were *unintentional falls* (10,923), *motor vehicle traffic crashes* (2,920), *intentional self-harm* (2,334), and *unintentional poisoning* (1,898). These four causes accounted for 72% of the 24,952 injury-related hospital discharges involving Kentucky residents in 2012.

Emergency Department Visits

The leading causes of injury-related emergency department (ED) visits in Kentucky in 2012 were *unintentional falls* (131,003), accidentally being *struck by or against an object or person* (52,232), and *motor vehicle traffic accidents* (51,151), and overexertion (43,212). These four causes accounted for 59% of the 473,856 injury-related hospital discharges involving Kentucky residents in 2012.

Data Sources and Methods

Data sources

Three data sources were used:

1. For population: U.S. Census, “Annual estimates of the resident population by single year of age and sex for the United States, States and Puerto Rico: 2012 population estimates” file. Accessed at <http://www.census.gov/popest/data/state/asrh/2012/index.html>.
2. Kentucky Death Certificates Files, Frankfort, KY [2012]. Kentucky Department for Public Health, Cabinet for Health and Family Services (PROVISIONAL AT TIME OF REPORT).
3. Kentucky Inpatient Hospitalization and Outpatient Services Claims Files, Frankfort, KY, [2012]; Cabinet for Health and Family Services, Office of Health Policy. 2012 (PROVISIONAL AT TIME OF REPORT).

Methods

Injury Hospitalizations and Emergency Department Visits

The definitions for hospitalized injury used in this report correspond to the CDC’s “State Injury Indicators Report: Instructions for Preparing 2012 Data.” Specifically, case selection is limited to discharges of Kentucky residents from nonfederal, acute care, or inpatient facilities. Readmissions, transfers, and deaths occurring in the hospital are included.

An injury subset for hospitalizations was created by selecting discharges having a principal diagnosis code in the following ranges: 800–909.2, 909.4, 909.9, 910–994.9, 995.5–995.59, 995.80–995.85. An injury subset for emergency department visits was created similarly, but also included visits having a valid external cause of injury code regardless of the principal diagnosis. Emergency department visits involving discharge to an inpatient facility were excluded. This represents a change from previous reports. The effect is most noticeable for ED visits for self-injury, and less so for falls and overall all-cause ED visits.

Injury Fatalities

The definitions for fatal injuries used in this report correspond to the CDC’s “State Injury Indicators Report: Instructions for Preparing 2012 Data.” The underlying cause of death field in the Kentucky death certificate file was used to identify the mechanism and manner of fatal injuries. All death counts in this report include Kentucky residents only.

Calculation of Rates

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 2012, and multiplying by 100,000. Age-adjusted rates were adjusted to the year 2000 standard population.

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 accident reports (PAR) because the two systems do not report on identical underlying populations. Death certificates capture deaths of Kentucky residents regardless of where they occur; PAR’s capture deaths that occur on Kentucky roads only, and regardless of state of residence. Similarly, counts of homicides and assaults in this report will not match counts based on police crime reports, for similar reasons. These data sources should be viewed as complementary. There also exist specialized, death certificate-based surveillance systems for injury fatalities 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 Wide-ranging Online Data for Epidemiologic Research / 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.*

Case definitions

Fatal injury indicators

| Indicator | Underlying cause of death - ICD-10 codes |
|--|--|
| All causes of injury | V01–Y36, Y85–Y87, Y89, *U01–*U03 |
| Unintentional falls | W00–W19 |
| Fall on same level | W00–W04, W18 |
| Furniture or wheelchair | W05–W08 |
| Playground equipment | W09 |
| Stairs or steps | W10 |
| Ladder, scaffolding, building, tree or cliff | W11–W15 |
| Diving or jumping into water | W16 |
| Other fall from level to another | W17 |
| Unspecified fall | W19 |
| Unintentional fire | X00–X09 |
| Structural fire | X00, X02 |
| Outdoor fire | X01, X03 |
| Unspecified | X04–X09 |
| Firearms | |
| Unintentional | W32–W34 |
| Suicide | X72–X74 |
| Homicide | X93–X95 |
| Legal intervention | Y35.0 |
| Undetermined intent | Y22–Y24 |
| Terrorism | U01.4 |
| Homicide | X85–Y09, Y87.1, U01–U02 |
| Poisoning | X85–X90 |
| Suffocation | X91 |
| Firearms | X93–X95 |
| Cut/pierce | X99 |
| Unspecified means | Y09, Y87.1 |
| Terrorism | U01–U02 |
| Other, specified | X92, X96–X98, Y00–Y08 |
| Motor vehicle traffic crash | |
| Pedestrian | V02–V04(.1,.9), V09.2 |
| Pedal cyclist | V12–V14 (.3–.9), V19 (.4–.6) |
| Motorcyclist | V20–V28 (.3–.9), V29 (.4–.9) |
| ATV or 3-wheel motor vehicle rider | V30–V39 (.4–.9), V86 (.0–.3) |
| Passenger motor vehicle occupant | V40–V49 (.4–.9), V50–V59 (.4–.9) |
| Heavy transport vehicle occupant | V60–V69 (.4–.9) |
| Bus occupant | V70–V79 (.4–.9) |
| Other, specified | V81–V82 (.1), V83–V85 (.0–.3), V80 (.3–.5) |
| Mode unspecified | V87 (.0–.8), V89.2 |
| Poisoning | |
| Accidental - drugs/medications | X40–X44 |
| Accidental - other | X45–X49 |
| Suicide | X60–X69 |
| Homicide | X85–X90 |
| Undetermined intent | Y10–Y19 |
| Other | Y35.2, U01.6–U1.7 |
| Suicide | X60–X84, Y87.0, U03 |
| Poisoning | X60–X69 |
| Suffocation/hanging | X70 |
| Firearms | X72–X74 |
| Other mechanism | X71, X75–X84, Y87.0, U03 |

Injury hospitalization and ED visit indicators

| Indicator | External cause of injury (unless otherwise noted) - ICD-9 codes |
|--|--|
| All causes of injury | |
| Hospitalizations | 800–909.2*, 909.4*, 909.9–994.9*, 995.5–995.59*, 995.80–995.85* |
| ED visits | 800–909.2*, 909.4*, 909.9–994.9*, 995.5–995.59*, 995.80–995.85* OR E-code E800-E869, E880-E929, E950-E999 |
| Unintentional falls | E880-E886, E888 |
| Furniture or wheelchair | E884 (.2-.6) |
| Playground equipment | E884.0 |
| Stairs or steps | E880 |
| Ladder, scaffolding, building or cliff | E881-E882, E884.1 |
| Hole or opening in surface | E883 |
| Same level - sports | E886.0 |
| Same level - other recreation | E885 (.0-.4) |
| Other fall on same level | E885.9, E886.9 |
| Other fall from one level to another | E884.9 |
| Unspecified fall | E888 |
| Unintentional fire | E890-E899 |
| Structural fire | E890-E891, E893 (.2,.8,.9), E895-E896, E898 (except .1) |
| Outdoor fire | E892, E897, E893.2 |
| Unspecified | E894, E899, E893.8, E893.9, E898.1 |
| Firearms | |
| Unintentional | E922 (.0-.3,.8,.9) |
| Suicide | E955 (.0-.4) |
| Homicide | E965 (.0-.4) |
| Legal intervention | E985 (.0-.4) |
| Undetermined intent | E970 |
| Terrorism | E979.4 |
| Assault | E960-E969, E999.1, E979 |
| Poisoning | E962 |
| Suffocation | E963 |
| Firearms | E965 |
| Cut/pierce | E966 |
| Unspecified means | E968 (.8,.9) |
| Terrorism | E979 |
| Other, specified | E961, E964, E968, E969 |
| Fight, brawl, or rape | E960 |
| Abuse | E967 |
| Blunt or thrown object | E968.2 |
| Motor vehicle traffic crash | E810-E819 |
| Pedestrian | E810-E819 (.7) |
| Pedal cyclist | E810-E819 (.6) |
| Motorcyclist | E810-E819 (.2,.3) |
| Other motor vehicle | E810-E819 (.0,.1) |
| Other mode | E810-E819 (.4,.5,.8) |
| Unspecified mode | E810-E819 (.9) |
| Poisoning | |
| Accidental - drugs/medications | E850-E858 |
| Accidental - other | E860-E869 |
| Self-injury - drugs/medications | E950.0-E950.5 |
| Self-injury - other | E951-E952, E950.6-E950.9 |
| Assault | E962 |
| Undetermined - drugs/medications | E980 |
| Undetermined - other | E981-E982 |
| Other | E972, E979 (.6,.7) |
| Self-injury | |
| Poisoning - drugs/medications | E950 (.0-.5) |
| Poisoning - other | E951-E952, E950.6-E950.9 |
| Suffocation/hanging | E953 |
| Firearms | E955 |
| Cut/pierce | E956 |
| Other mechanism | E954, E957-E959 |

* Principal/first-listed diagnosis code

Abbreviations for “Leading Cause” by Age Group tables

MVTC – Motor vehicle traffic crash. This includes crashes that occurred on a public roadway and involved at least one motor vehicle. All persons injured in MVTCs are counted here. Bicyclists 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 cycle” definition).

Other Trans - Transportation injuries other than MVTC. Includes motor vehicle crashes that occurred somewhere other than on a public roadway; water and air transport injuries, etc. This category only appears in the leading causes of hospitalizations and emergency department visit tables.

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. This category only appears in the leading causes of death table.

Natural/Envir - Natural or environmental causes (insect bites and stings, animal bites, extreme weather, excessive heat or cold, etc.)

Other Spec - Other specified cause of injury. Includes a variety of relatively low-incidence causes of injury grouped together.

Not specified - 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.

NEC- Not elsewhere classified. An external cause of injury code that is intended for use when no other code exists which adequately describes the mechanism and manner of injury.

| Leading Causes of Injury-Related Death Within State Border of KY Residents by Age Group, 2012 | | | | | | | | | | | | |
|---|-------------------|------------------|-------------------|-------------------|-------------------|------------------------|--------------------|--------------------|------------------------------|---------------------|---------------------|----------------------|
| Age Group | | | | | | | | | | | | |
| Rank | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ | Total |
| 1 | Suffocation 17 | Drowning 8 | MVTC 15 | MVTC 123 | Poisoning 209 | Poisoning 250 | Poisoning 309 | Poisoning 115 | MVTC 59 | Fall 85 | Not Specified 94 | Poisoning 980 |
| 2 | Not spec # | MVTC 8 | Fire/flame # | Poisoning 62 | MVTC 130 | MVTC 121 | MVTC 95 | MVTC 82 | Firearm 53 | Not Specified 43 | Fall 86 | MVTC 688 |
| 3 | 3 tied # | Fire/flame # | Drowning # | Firearm 55 | Firearm 64 | Firearm 65 | Firearm 83 | Firearm 75 | Fall 41 | Firearm 36 | Suffocation 23 | Firearm 448 |
| 4 | | Suffocation # | 8 tied # | Firearm 37 | Firearm 35 | Firearm 35 | Suffocation 35 | Fall 24 | Poisoning 21 | MVTC 34 | MVTC 20 | Fall 273 |
| 5 | | | | Suffocation 21 | Suffocation 26 | Suffoca- tion 29 | Firearm 23 | Poisoning 22 | Suffocation 21 | Suffocation 23 | Firearm 13 | Not Specified 176 |
| 6 | | | | Drowning 8 | Poisoning 16 | Poisoning 18 | Poisoning 21 | Fire/Flame 17 | Not Specified 17 | Fire/Flame 11 | Poisoning 5 | Firearm 148 |
| 7 | | | | Fire/Flame 5 | Poisoning 11 | Poisoning 13 | Firearm 20 | Suffocation 11 | Fire/Flame 8 | Nature/Envir 7 | | Suffocation 118 |
| 8 | | | | | Fall 8 | Suffocation 9 | Fall 17 | Not Specified 9 | Nature/Envir 7 | Poisoning 7 | | Suffocation 118 |
| 9 | | | | | Suffocation 6 | Fall 7 | Fire/Flame 17 | Drowning 8 | Other land Transport 5 | | | Poisoning 80 |
| 10 | | | | | Suffocation 6 | Fire/Flame 7 | Nature/Envir 12 | Poisoning 8 | | | | Fire/Flame 77 |
| # At least one but fewer than five. | | | | | | | | | | | | |
| | Legend: | Unintentional | Undeter- mined | Assault | Self Harm | | | | | | | |

| Leading Causes of Injury-Related Hospital Discharges of KY Residents from Acute-Care Hospitals by Age Group, 2012* | | | | | | | | | | | | |
|--|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| Rank | Age Group | | | | | | | | | | | |
| | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ | Total |
| 1 | Falls 35 | Falls 71 | Falls 148 | MVTC 558 | MVTC 491 | Poisoning 516 | Falls 800 | Falls 1,372 | Falls 1,904 | Falls 3,016 | Falls 2,086 | Falls 10,923 |
| 2 | Not Specified 10 | Poisoning 63 | MVTC 106 | Poisoning 360 | Poisoning 455 | MVTC 462 | Poisoning 489 | MVTC 350 | MVTC 254 | MVTC 143 | MVTC 55 | MVTC 2,920 |
| 3 | Other Spec 9 | MVTC 35 | Other Trans 48 | Falls 174 | Poisoning 263 | Falls 357 | MVTC 459 | Poisoning 320 | Poisoning 208 | Poisoning 103 | Poisoning 44 | Poisoning 2,154 |
| 4 | Poisoning 8 | Fire/Burns 35 | Struck by/ Against 32 | Poisoning 163 | Falls 240 | Poisoning 277 | Poisoning 430 | Poisoning 230 | Poisoning 53 | Not Specified 55 | Not Specified 41 | Poisoning 1,898 |
| 5 | Struck by/ Against 8 | Natural/Envir 13 | Poisoning 29 | Other Trans 113 | Poisoning 191 | Poisoning 188 | Poisoning 222 | Poisoning 84 | Poisoning 45 | Other Spec 34 | Struck by/ Against 23 | Poisoning 863 |
| 6 | MVTC 7 | Other Spec 10 | Other Pedal CYC 27 | Poisoning 101 | Other Trans 78 | Other Trans 82 | Other Trans 87 | Other Trans 67 | Natural/Envir 43 | Struck by/ Against 33 | Other Spec 23 | Other Trans 553 |
| 7 | Fire/Burns 7 | Struck by/ Against 9 | Natural/Envir 27 | Firearm 52 | Struck by/ Against 52 | Natural/Envir 52 | Natural/Envir 58 | Natural/Envir 52 | Other Trans 41 | Poisoning 26 | Overexertion 16 | Struck by/ Against 364 |
| 8 | Not Specified 7 | Drowning 7 | Poisoning 19 | Struck by/ Against 46 | Firearm 52 | Struck by/ Against 43 | Other Spec 55 | Struck by/ Against 51 | Struck by/ Against 36 | Other Trans 21 | Natural/Envir 13 | Natural/Envir 346 |
| 9 | | Other Trans 7 | Fire/Burns 17 | Natural/Envir 30 | Natural/Envir 36 | Struck by/ Against 41 | Struck by/ Against 51 | Struck by/ Against 30 | Not Specified 30 | Overexertion 21 | Nec 10 | Other Spec 275 |
| 10 | | Other Spec 7 | Other Spec 9 | Struck by/ Against 29 | Other Spec 35 | Cut/Pierce 36 | Struck by/ Against 39 | Other Spec 28 | Other Spec 28 | Natural/Envir 20 | Other Trans 9 | Fire/Burn 235 |
| * Counts less than five are not included in this matrix | | | | | | | | | | | | |
| | Legend: | Unintentional | Undeter- mined | Assault | Self Harm | | | | | | | |

| Leading Causes of Injury-Related Emergency Department Visits of KY Residents By Age Group 2012 | | | | | | | | | | | | |
|--|------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|---------------------------------|
| Rank | Age Group | | | | | | | | | | | |
| | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ | Total |
| 1 | Falls 1,915 | Falls 12,057 | Falls 18,832 | Falls 13,705 | Falls 15,587 | Falls 14,382 | Falls 15,259 | Falls 12,264 | Falls 9,831 | Falls 9,862 | Falls 7,309 | Falls 131,003 |
| 2 | Struck by/ Against 392 | Struck by/ Against 4,215 | Struck by/ Against 13,022 | MVTC 13,695 | MVTC 10,976 | Overexertion 8,222 | MVTC 6,568 | MVTC 4,004 | MVTC 1,783 | MVTC 825 | Struck by/ Against 356 | Struck by/ Against 52,232 |
| 3 | MVTC 321 | Natural/Envir 3,288 | Overexertion 4,653 | Struck by/ Against 11,767 | Overexertion 10,161 | MVTC 8,041 | Overexertion 5,907 | Overexertion 2,808 | Overexertion 1,175 | Struck by/ Against 726 | Not Specified 265 | MVTC 51,151 |
| 4 | Poisoning 291 | Other Spec 2,243 | Natural/Envir 4,506 | Overexertion 8,940 | Struck by/ Against 8,342 | Struck by/ Against 5,783 | Struck by/ Against 4,135 | Struck by/ Against 2,321 | Struck by/ Against 1,173 | Overexertion 598 | MVTC 230 | Overexertion 43,212 |
| 5 | Natural/Envir 291 | Poisoning 1,477 | Cut/Pierce 3,603 | Cut/Pierce 4,989 | Cut/Pierce 4,609 | Cut/Pierce 3,561 | Cut/Pierce 2,860 | Cut/Pierce 1,883 | Cut/Pierce 1,050 | Not Specified 501 | Overexertion 218 | Cut/Pierce 24,537 |
| 6 | Other Spec 206 | MVTC 1,331 | MVTC 3,377 | Natural/Envir 3,794 | Not Specified 3,555 | Not Specified 3,027 | Not Specified 2,503 | Natural/Envir 1,580 | Natural/Envir 919 | Natural/Envir 450 | Cut/Pierce 180 | Natural/Envir 23,607 |
| 7 | Not specified 116 | Cut/Pierce 1,304 | Other Spec 2,588 | Not Specified 3,135 | Natural/Envir 3,430 | Natural/Envir 2,715 | Natural/Envir 2,498 | Not Specified 1,473 | Not Specified 752 | Cut/Pierce 426 | Natural/Envir 136 | Not Specified 18,291 |
| 8 | Fire/Burns 84 | Not Specified 912 | Other Pedal Cyc 2,248 | Other Spec 2,555 | Other Spec 2,586 | Other Spec 1,909 | Other Spec 1,520 | Other Spec 845 | Other Spec 451 | Other Spec 266 | Other Spec 124 | Other Spec 15,293 |
| 9 | Cut/Pierce 72 | Fire/Burn 593 | Not Specified 2,052 | Struck by/ Against 2,355 | Struck by/ Against 1,986 | Struck by/ Against 1,217 | Struck by/ Against 918 | Nec 462 | Nec 237 | Nec 147 | Nec 76 | Struck by/ Against 7,345 |
| 10 | Nec 46 | Overexertion 502 | Poisoning 1,256 | Other Trans 1,930 | Other Trans 1,390 | Nec 1,111 | Nec 851 | Poisoning 367 | Poisoning 212 | Poisoning 112 | Poisoning 55 | Nec 7,284 |
| * Counts less than five are not included in this matrix | | | | | | | | | | | | |
| | Legend: | Unintentional | Undeter- mined | Assault | Self Harm | | | | | | | |

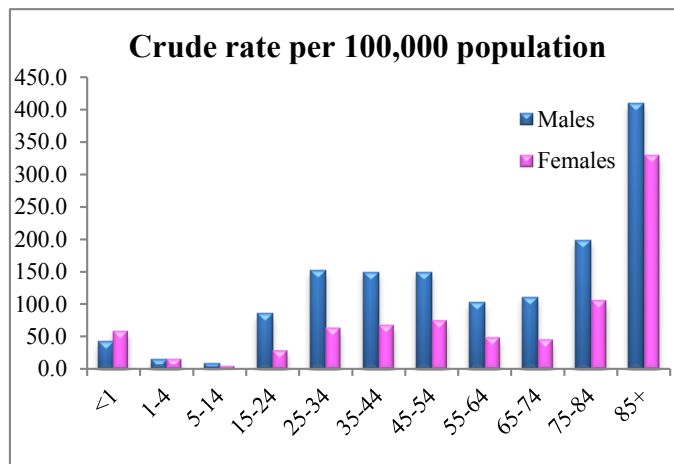
All injuries - by Age and Sex

Fatalities:

Total: 3,546 (81.8*)

Males: 2,300 (110.8*)

Females: 1,246 (54.1*)



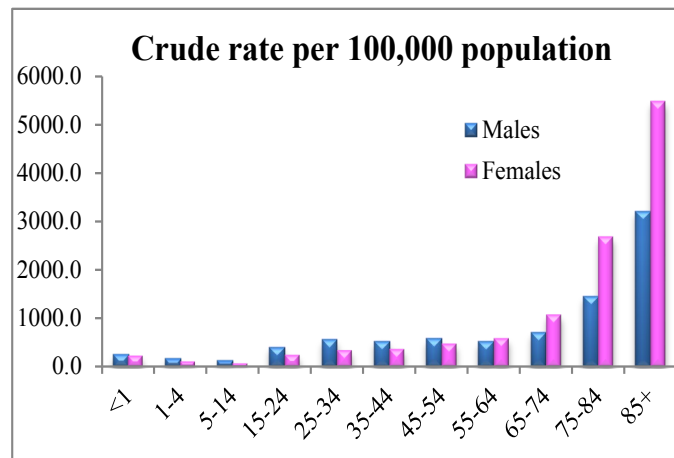
| Age | Males | Females |
|-------|-------|---------|
| <1 | 12 | 16 |
| 1-4 | 17 | 18 |
| 5-14 | 24 | 15 |
| 15-24 | 259 | 86 |
| 25-34 | 392 | 163 |
| 35-44 | 422 | 194 |
| 45-54 | 462 | 241 |
| 55-64 | 280 | 144 |
| 65-74 | 184 | 88 |
| 75-84 | 154 | 116 |
| 85+ | 94 | 165 |

Hospitalizations

Total: 24,952 (555*)

Males: 10,870 (526*)

Females: 14,079 (559*)



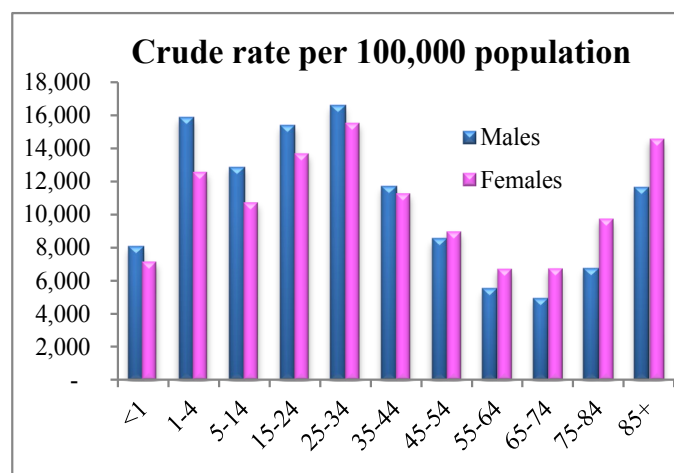
| Age | Males | Females |
|-------|-------|---------|
| <1 | 69 | 64 |
| 1-4 | 181 | 131 |
| 5-14 | 349 | 202 |
| 15-24 | 1,222 | 738 |
| 25-34 | 1,419 | 888 |
| 35-44 | 1,481 | 1,041 |
| 45-54 | 1,746 | 1,553 |
| 55-64 | 1,394 | 1,735 |
| 65-74 | 1,155 | 2,057 |
| 75-84 | 1,119 | 2,923 |
| 85+ | 735 | 2,747 |

Emergency Dept Visits

Total: 473,856 (11,390*)

Males: 238,306 (11,585*)

Females: 235,505 (11,121*)

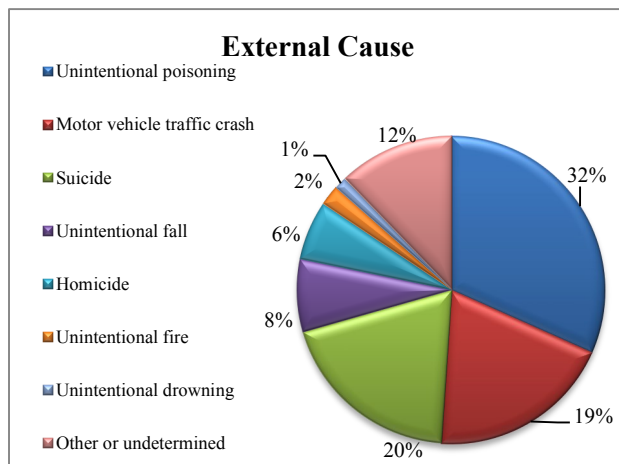


| Age | Males | Females |
|-------|--------|---------|
| <1 | 2,294 | 1,926 |
| 1-4 | 18,186 | 13,804 |
| 5-14 | 37,557 | 29,892 |
| 15-24 | 46,730 | 39,628 |
| 25-34 | 42,915 | 39,471 |
| 35-44 | 33,207 | 31,899 |
| 45-54 | 26,356 | 28,629 |
| 55-64 | 14,971 | 19,556 |
| 65-74 | 8,187 | 12,786 |
| 75-84 | 5,226 | 10,609 |
| 85+ | 2,677 | 7,305 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

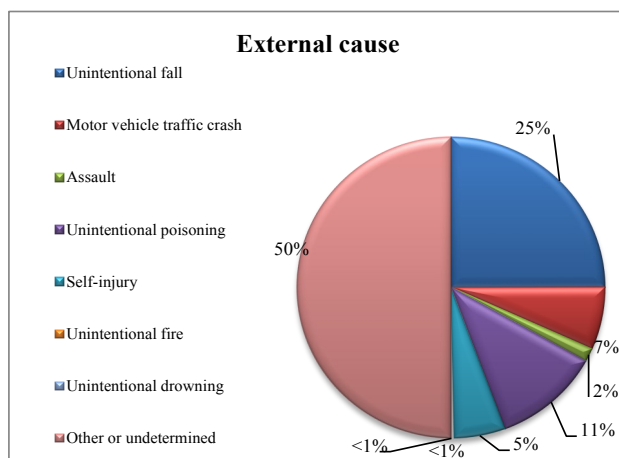
All injuries - by External Cause

Fatalities



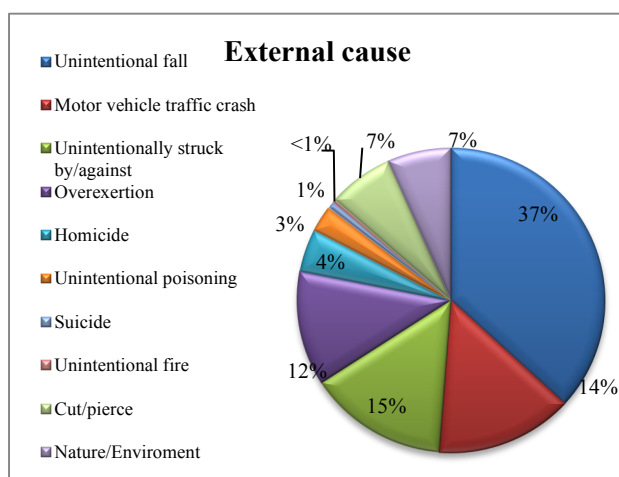
| External cause | Number |
|-----------------------------|--------|
| Unintentional poisoning | 980 |
| Suicide | 691 |
| Motor vehicle traffic crash | 688 |
| Unintentional fall | 272 |
| Homicide | 220 |
| Unintentional fire | 77 |
| Unintentional drowning | 45 |
| Other or undetermined | 430 |

Hospitalizations



| External cause | Number |
|-----------------------------|--------|
| Unintentional fall | 10,923 |
| Motor vehicle traffic crash | 2,920 |
| Self-injury | 2,334 |
| Unintentional poisoning | 1,898 |
| Assault | 653 |
| Unintentional fire | 119 |
| Unintentional drowning | 21 |
| Other or undetermined | 6,084 |

Emergency Dept Visits



| External cause | Number |
|-----------------------------------|---------|
| Unintentional fall | 131,003 |
| Motor vehicle traffic crash | 51,151 |
| Unintentionally struck by/against | 52,232 |
| Overexertion | 43,212 |
| Cut/pierce | 24,537 |
| Nature/Environment | 23,607 |
| Homicide | 16,177 |
| Unintentional poisoning | 7,190 |
| Self-injury | 2,749 |
| Unintentional fire | 1,075 |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

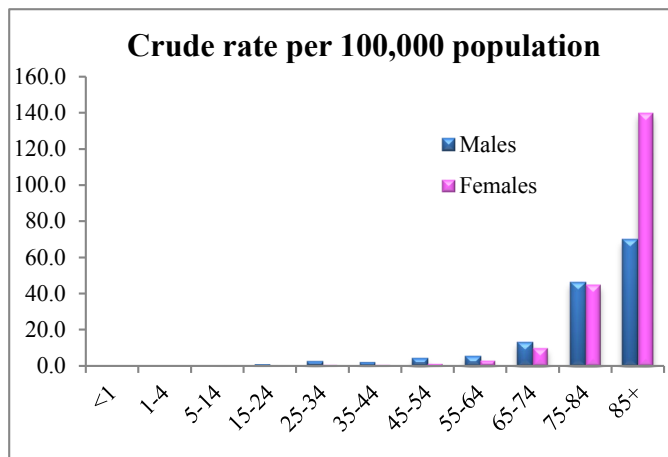
Unintentional Falls - by Age and Sex

Fatalities

Total: 272 (5.9*)

Males: 115(5.8*)

Females: 157 (5.6*)



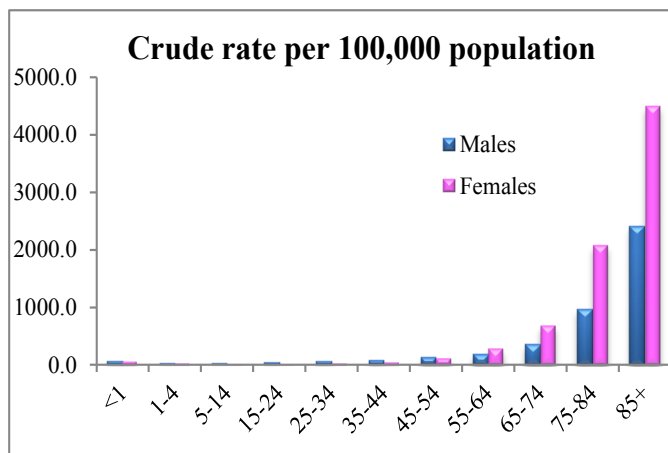
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | 0 |
| 5-14 | 0 | # |
| 15-24 | # | # |
| 25-34 | 6 | # |
| 35-44 | 5 | # |
| 45-54 | 13 | # |
| 55-64 | 15 | 9 |
| 65-74 | 22 | 19 |
| 75-84 | 36 | 49 |
| 85+ | 16 | 70 |

Hospitalizations

Total: 10,923 (233.1*)

Males: 3,453: (171.5*)

Females 7,468 (272.5*)



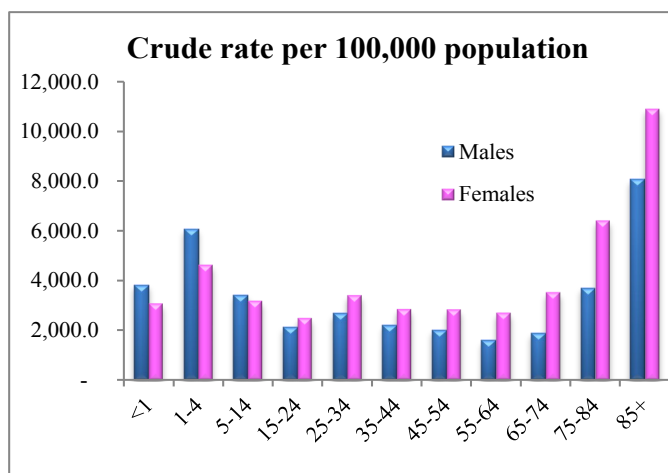
| Age | Males | Females |
|-------|-------|---------|
| <1 | 18 | 17 |
| 1-4 | 37 | 34 |
| 5-14 | 87 | 61 |
| 15-24 | 113 | 61 |
| 25-34 | 155 | 85 |
| 35-44 | 214 | 143 |
| 45-54 | 412 | 386 |
| 55-64 | 518 | 854 |
| 65-74 | 594 | 1,310 |
| 75-84 | 751 | 2,265 |
| 85+ | 554 | 2,252 |

Emergency Department Visits

Total: 131,003 (3066*)

Males: 56,001 (2,725*)

Females: 74,993 (3,358*)

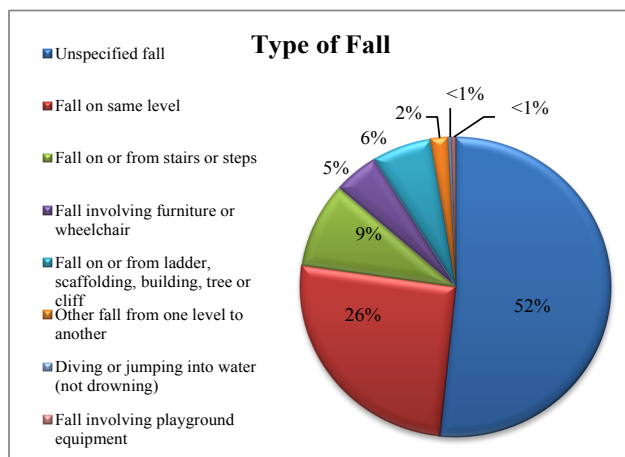


| Age | Males | Females |
|-------|-------|---------|
| <1 | 1,084 | 830 |
| 1-4 | 6,960 | 5,094 |
| 5-14 | 9,940 | 8,891 |
| 15-24 | 6,438 | 7,265 |
| 25-34 | 6,887 | 8,700 |
| 35-44 | 6,285 | 8,096 |
| 45-54 | 6,203 | 9,056 |
| 55-64 | 4,342 | 7,921 |
| 65-74 | 3,137 | 6,694 |
| 75-84 | 2,875 | 6,987 |
| 85+ | 1,850 | 5,459 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

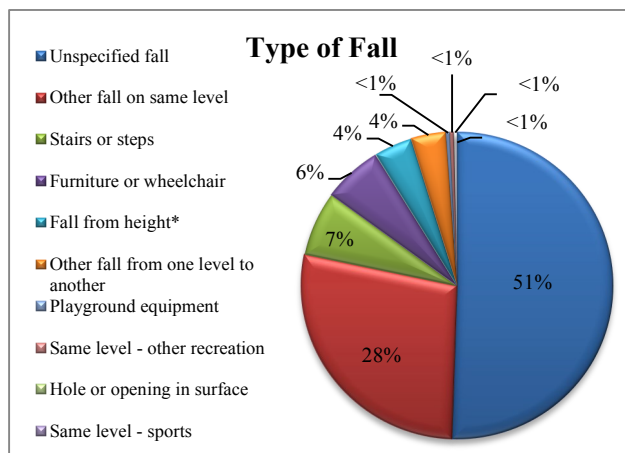
Unintentional Falls - by Type of Fall

Fatalities:



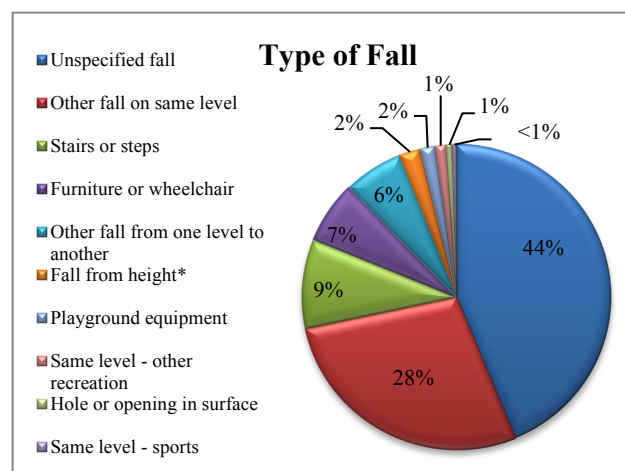
| Type of fall | Number |
|-----------------------------------|--------|
| Unspecified fall | 141 |
| Fall on same level | 70 |
| Fall on or from stairs or steps | 25 |
| Fall involving furniture or | 13 |
| Fall on or from ladder, | 17 |
| Other fall from one level to | 5 |
| Diving or jumping into water (not | # |
| Fall involving playground | # |

Hospitalizations



| Type of fall | Number |
|--------------------------------------|--------|
| Unspecified fall | 5,519 |
| Other fall on same level | 3,032 |
| Stairs or steps | 743 |
| Furniture or wheelchair | 674 |
| Fall from height | 433 |
| Other fall from one level to another | 400 |
| Playground equipment | 46 |
| Same level - other recreation | 42 |
| Hole or opening in surface | 25 |
| Same level - sports | 9 |

Emergency Dept Visits



| Type of fall | Number |
|--------------------------------------|--------|
| Unspecified fall | 57,335 |
| Other fall on same level | 36,553 |
| Stairs or steps | 12,406 |
| Furniture or wheelchair | 8,638 |
| Other fall from one level to another | 8,221 |
| Fall from height | 2,890 |
| Playground equipment | 2,024 |
| Same level - other recreation | 1,539 |
| Hole or opening in surface | 821 |
| Same level - sports | 576 |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

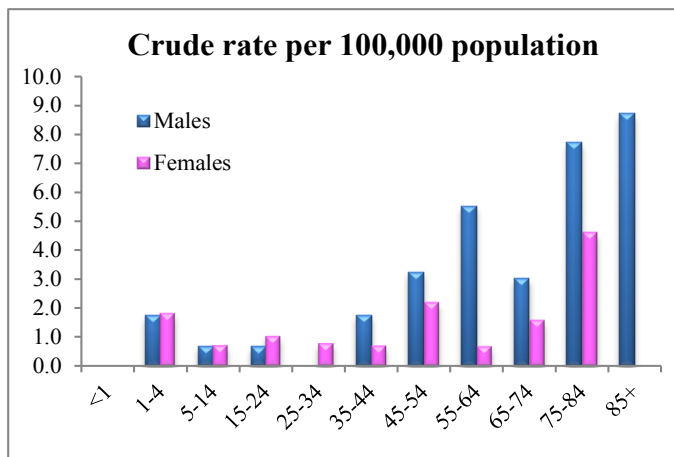
Unintentional Fire-Related Injuries - by Age and Sex

Fatalities

Total: 77 (1.7*)

Males: 49 (2.2*)

Females: 28 (1.2*)



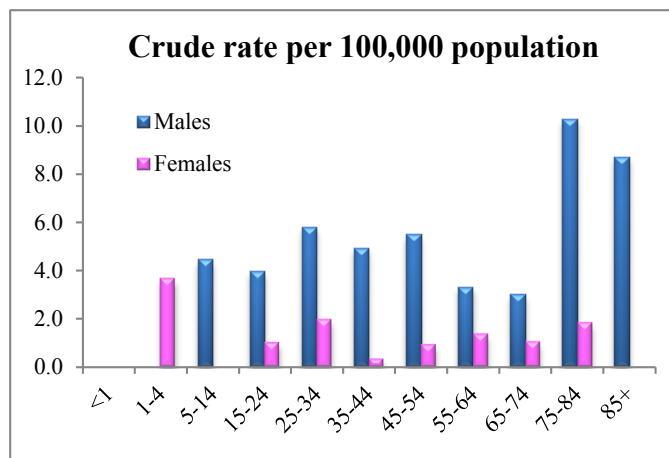
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | # | # |
| 5-14 | # | # |
| 15-24 | # | # |
| 25-34 | 0 | # |
| 35-44 | # | # |
| 45-54 | 10 | 7 |
| 55-64 | 15 | # |
| 65-74 | 5 | # |
| 75-84 | 6 | 5 |
| 85+ | # | 0 |

Hospitalizations

Total: 119 (2.8*)

Males: 95 (4.6*)

Females: 24 (1.1*)



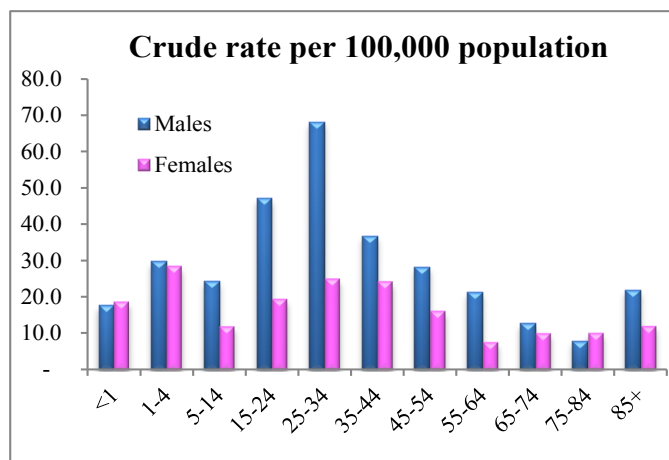
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | # |
| 5-14 | 13 | 0 |
| 15-24 | 12 | # |
| 25-34 | 15 | 5 |
| 35-44 | 14 | # |
| 45-54 | 17 | # |
| 55-64 | 9 | # |
| 65-74 | 5 | # |
| 75-84 | 8 | # |
| 85+ | # | 0 |

Emergency Department Visits

Total: 1,075 (26.0*)

Males: 710 (34.3*)

Females: 365 (17.6*)

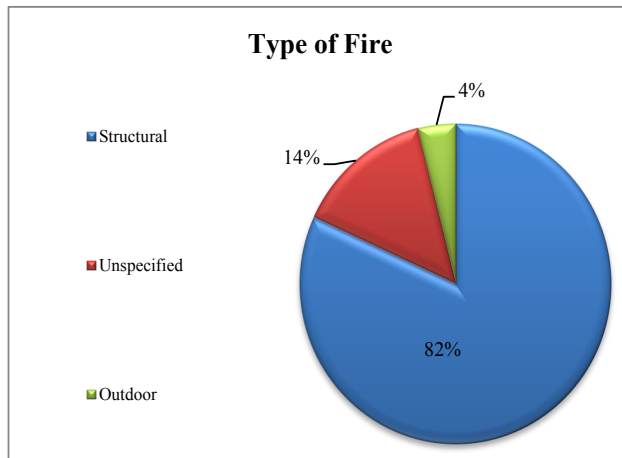


| Age | Males | Females |
|-------|-------|---------|
| <1 | 5 | 5 |
| 1-4 | 34 | 31 |
| 5-14 | 71 | 33 |
| 15-24 | 143 | 56 |
| 25-34 | 176 | 63 |
| 35-44 | 104 | 68 |
| 45-54 | 87 | 51 |
| 55-64 | 58 | 22 |
| 65-74 | 21 | 19 |
| 75-84 | 6 | 11 |
| 85+ | 5 | 6 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

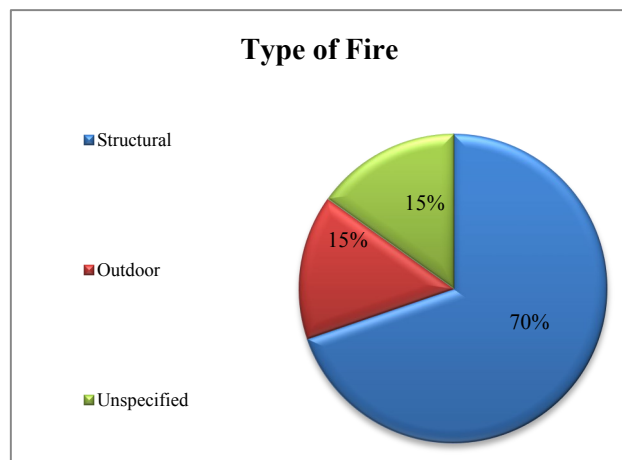
Unintentional Fire-Related Injuries- by Type of Fire

Fatalities:



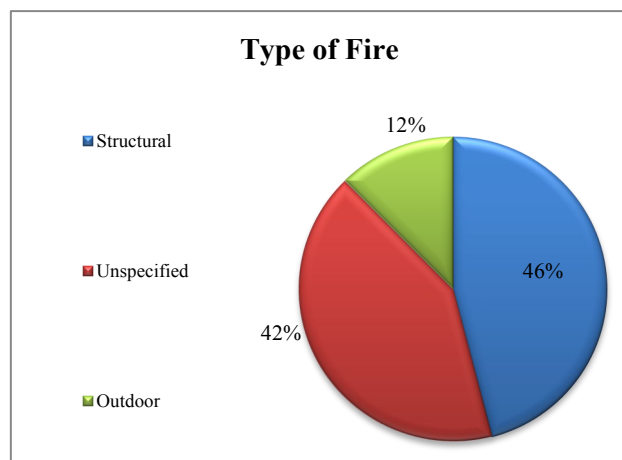
| Type of fire | Number |
|--------------|--------|
| Structural | 63 |
| Unspecified | 11 |
| Outdoor | # |

Hospitalizations



| Type of fire | Number |
|--------------|--------|
| Structural | 83 |
| Outdoor | 18 |
| Unspecified | 18 |

Emergency Dept Visits



| Type of fire | Number |
|--------------|--------|
| Structural | 494 |
| Unspecified | 448 |
| Outdoor | 133 |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

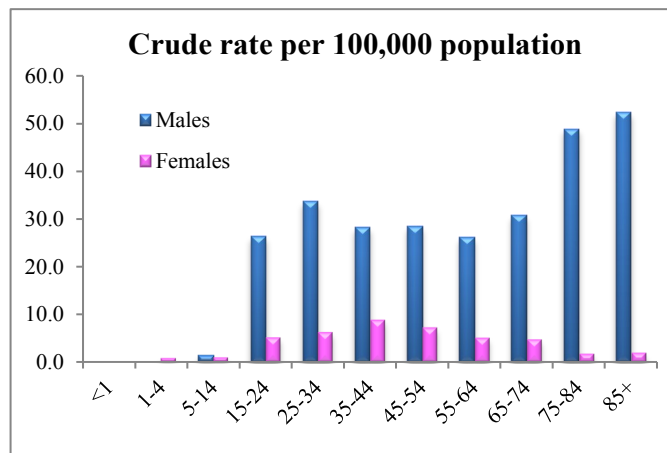
Firearm-Related Injuries - by Age and Sex

Fatalities

Total: 621 (14.2*)

Males: 511 (24.1*)

Females: 110 (5.1*)



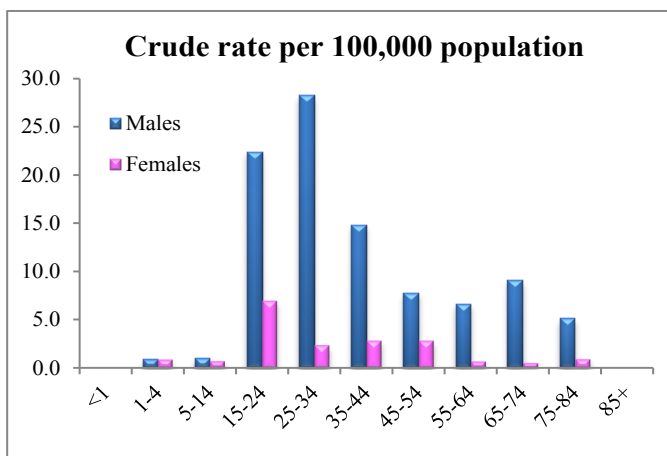
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | # |
| 5-14 | # | # |
| 15-24 | 80 | 15 |
| 25-34 | 87 | 16 |
| 35-44 | 80 | 25 |
| 45-54 | 88 | 23 |
| 55-64 | 71 | 15 |
| 65-74 | 51 | 9 |
| 75-84 | 38 | # |
| 85+ | 12 | # |

Hospitalizations

Total: 298 (7.2*)

Males: 248 (12.0*)

Females: 50 (2.4*)



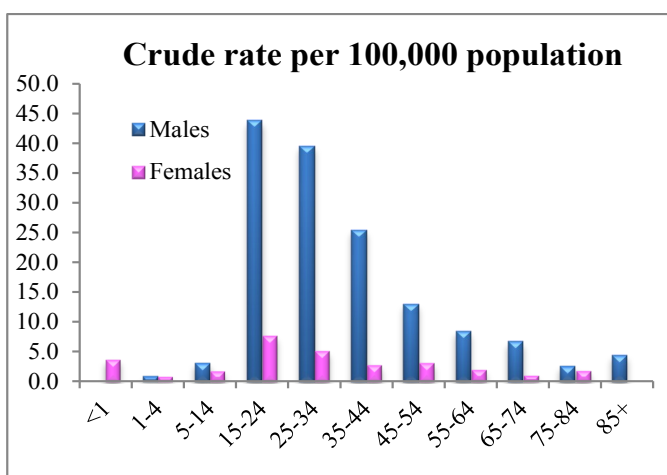
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | # | # |
| 5-14 | # | # |
| 15-24 | 68 | 20 |
| 25-34 | 73 | 6 |
| 35-44 | 42 | 8 |
| 45-54 | 24 | 9 |
| 55-64 | 18 | # |
| 65-74 | 15 | # |
| 75-84 | # | # |
| 85+ | 0 | 0 |

Emergency Department Visits

Total: 464 (11.3*)

Males: 394 (19.1*)

Females: 70 (3.3*)

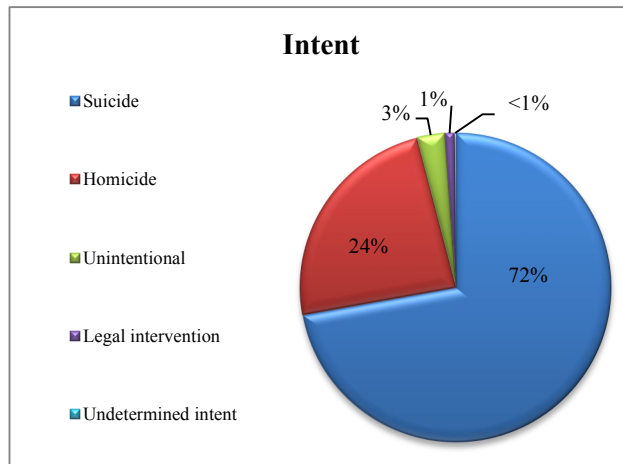


| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | # |
| 1-4 | # | # |
| 5-14 | 9 | 5 |
| 15-24 | 133 | 22 |
| 25-34 | 102 | 13 |
| 35-44 | 72 | 8 |
| 45-54 | 40 | 10 |
| 55-64 | 23 | 6 |
| 65-74 | 11 | 2 |
| 75-84 | # | # |
| 85+ | # | 0 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

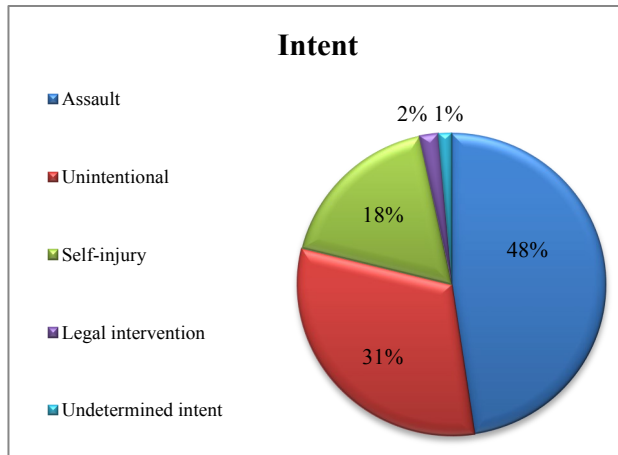
Firearm-Related Injuries - by Intent

Fatalities:



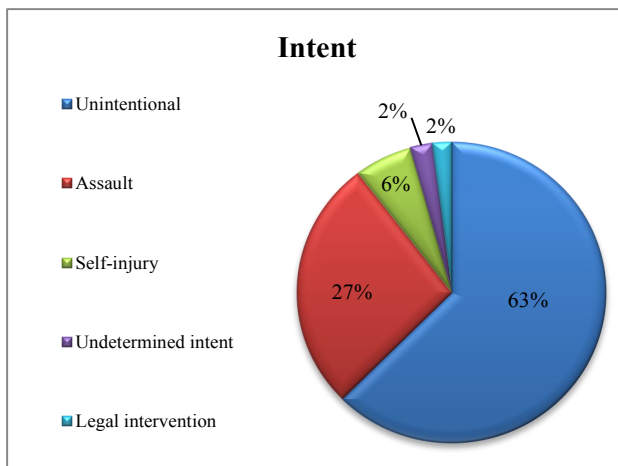
| Intent | Number |
|---------------------|--------|
| Suicide | 448 |
| Homicide | 148 |
| Unintentional | 18 |
| Legal intervention | 6 |
| Undetermined intent | # |

Hospitalizations



| Intent | Number |
|---------------------|--------|
| Assault | 142 |
| Unintentional | 93 |
| Self-injury | 53 |
| Legal intervention | 6 |
| Undetermined intent | # |

Emergency Dept Visits



| Intent | Number |
|---------------------|--------|
| Unintentional | 290 |
| Assault | 126 |
| Self-injury | 28 |
| Undetermined intent | 11 |
| Legal intervention | 9 |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

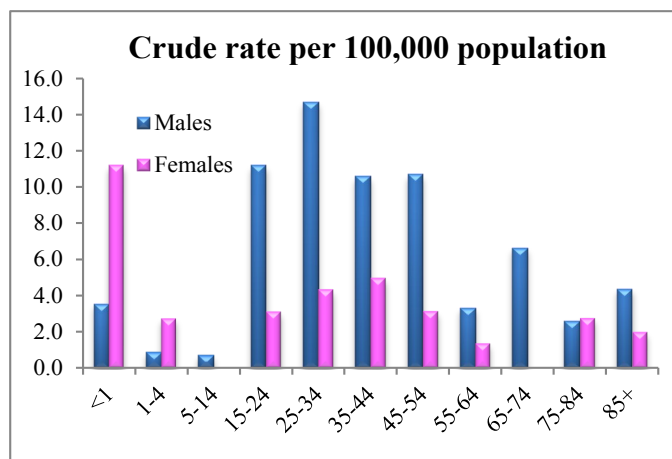
Homicide and Assault - by Age and Sex

Fatalities

Total: 220 (5.3*)

Males: 162 (7.8*)

Females: 58 (2.8*)



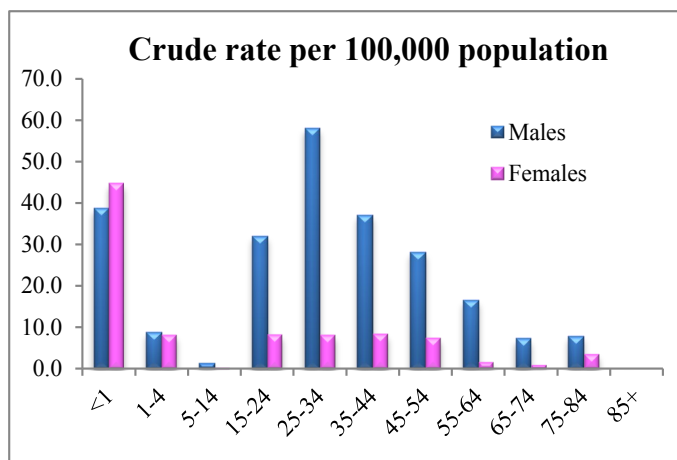
| Age | Males | Females |
|-------|-------|---------|
| <1 | # | # |
| 1-4 | # | # |
| 5-14 | # | 0 |
| 15-24 | 34 | 9 |
| 25-34 | 38 | 11 |
| 35-44 | 30 | 14 |
| 45-54 | 33 | 10 |
| 55-64 | 9 | # |
| 65-74 | 11 | 0 |
| 75-84 | # | # |
| 85+ | # | # |

Hospitalizations

Total: 653 (15.9*)

Males: 527 (25.6*)

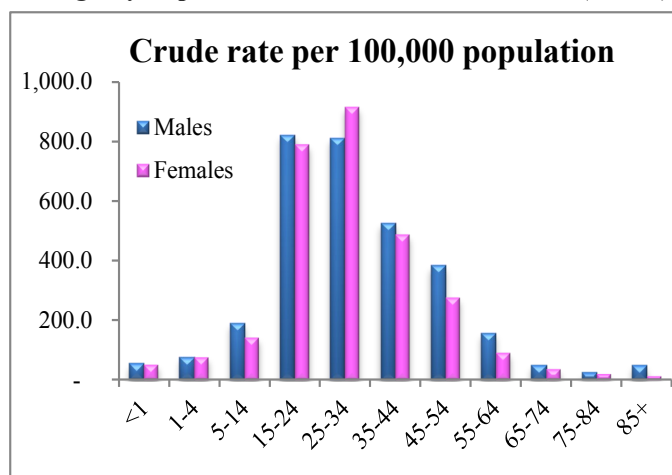
Females: 126 (6.2*)



| Age | Males | Females |
|-------|-------|---------|
| <1 | 11 | 12 |
| 1-4 | 10 | 9 |
| 5-14 | # | # |
| 15-24 | 97 | 24 |
| 25-34 | 150 | 21 |
| 35-44 | 105 | 24 |
| 45-54 | 87 | 24 |
| 55-64 | 45 | 5 |
| 65-74 | 12 | # |
| 75-84 | 6 | # |
| 85+ | 0 | 0 |

Emergency Department Visits

Total: 16,177 (399.5*) Males: 8,449 (411.6*) Females: 7,728 (387.8*)

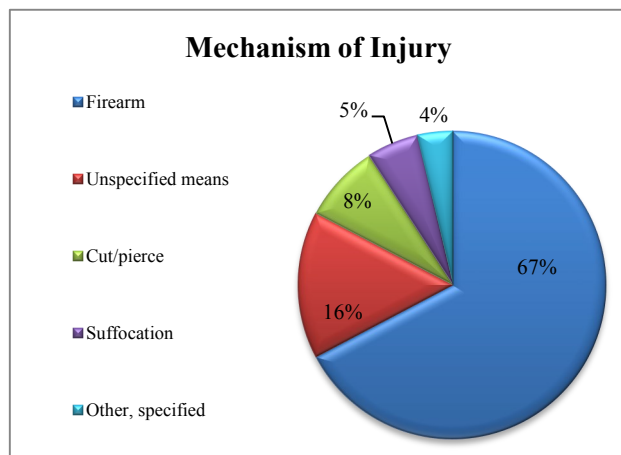


| Age | Males | Females |
|-------|-------|---------|
| <1 | 15 | 14 |
| 1-4 | 85 | 85 |
| 5-14 | 551 | 400 |
| 15-24 | 2,496 | 2,281 |
| 25-34 | 2,099 | 2,322 |
| 35-44 | 1,488 | 1,377 |
| 45-54 | 1,181 | 880 |
| 55-64 | 424 | 268 |
| 65-74 | 81 | 71 |
| 75-84 | 18 | 23 |
| 85+ | 11 | 7 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

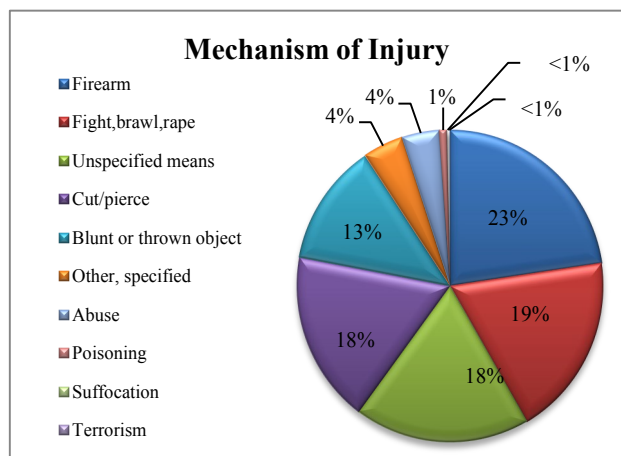
Homicide and Assault - by Mechanism of Injury

Fatalities:



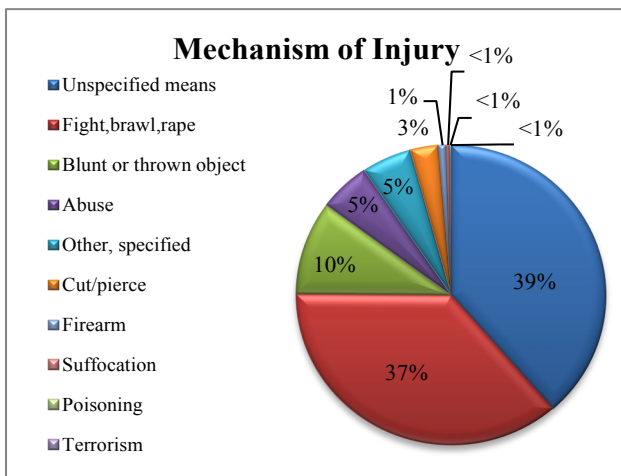
| Mechanism of injury | Number |
|---------------------|--------|
| Firearm | 148 |
| Unspecified means | 34 |
| Cut/pierce | 18 |
| Suffocation | 12 |
| Other, specified | 8 |

Hospitalizations



| Mechanism of injury | Number |
|------------------------|--------|
| Firearm | 148 |
| Fight, brawl, rape | 124 |
| Unspecified means | 121 |
| Cut/pierce | 116 |
| Blunt or thrown object | 83 |
| Other, specified | 28 |
| Abuse | 26 |
| Poisoning | 5 |
| Suffocation | # |
| Terrorism | # |

Emergency Dept Visits



| Mechanism of injury | Number |
|------------------------|--------|
| Unspecified means | 6,246 |
| Fight, brawl, rape | 5,905 |
| Blunt or thrown object | 1,628 |
| Abuse | 866 |
| Other, specified | 843 |
| Cut/pierce | 478 |
| Firearm | 134 |
| Suffocation | 58 |
| Poisoning | 17 |
| Terrorism | # |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

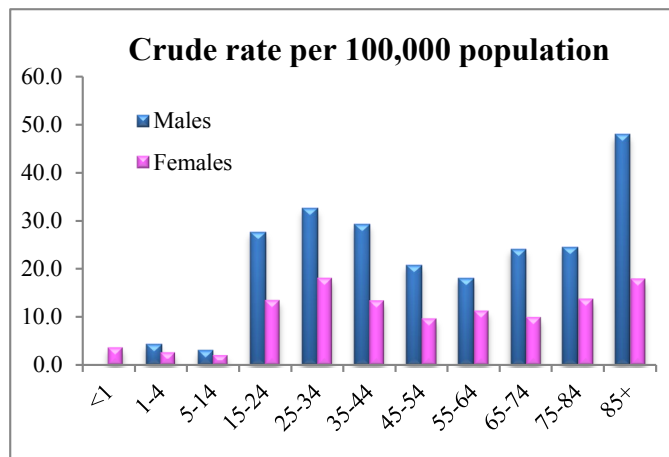
Motor Vehicle Traffic Crashes - by Age and Sex

Fatalities

Total: 688 (16.1*)

Males: 448 (21.5*)

Females: 240 (10.9*)



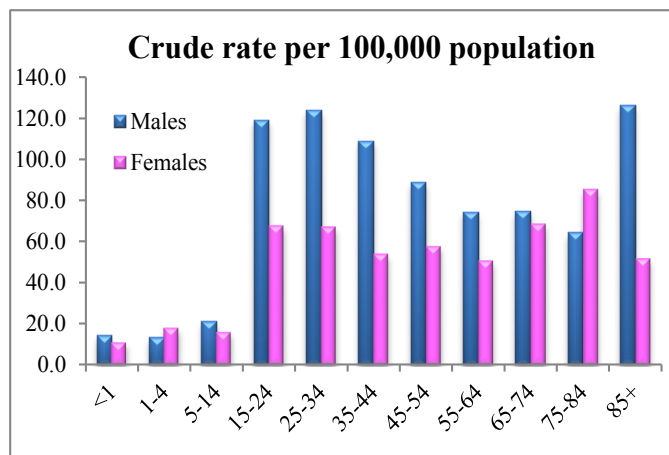
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | # |
| 1-4 | 5 | # |
| 5-14 | 9 | 6 |
| 15-24 | 84 | 39 |
| 25-34 | 84 | 46 |
| 35-44 | 83 | 38 |
| 45-54 | 64 | 31 |
| 55-64 | 49 | 33 |
| 65-74 | 40 | 19 |
| 75-84 | 19 | 15 |
| 85+ | 11 | 9 |

Hospitalizations

Total: 2,920 (67.7*)

Males: 1,750 (83.2*)

Females: 1,169 (52.3*)



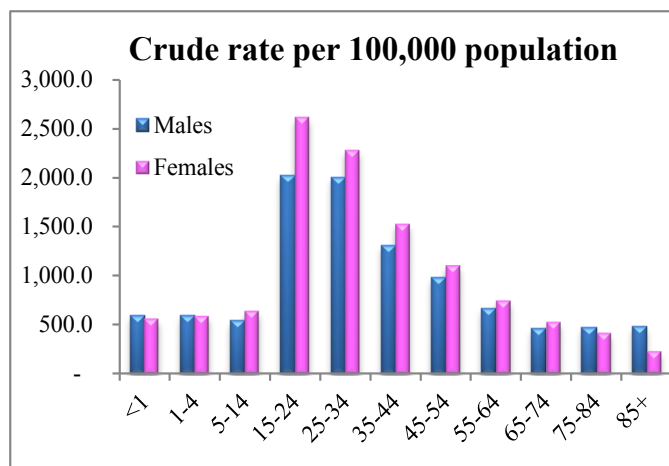
| Age | Males | Females |
|-------|-------|---------|
| <1 | # | # |
| 1-4 | 15 | 20 |
| 5-14 | 61 | 45 |
| 15-24 | 361 | 196 |
| 25-34 | 320 | 171 |
| 35-44 | 309 | 153 |
| 45-54 | 275 | 184 |
| 55-64 | 202 | 148 |
| 65-74 | 124 | 130 |
| 75-84 | 50 | 93 |
| 85+ | 29 | 26 |

Emergency Department Visits

Total: 51,151 (1,230.1*)

Males: 23,566 (1,134.4*)

Females: 27,580 (1,329.4*)

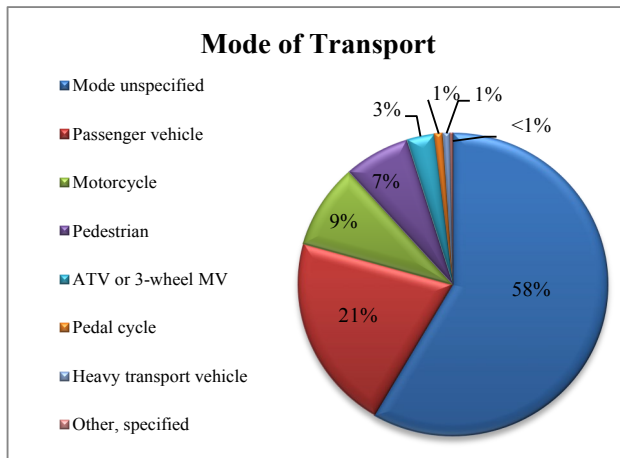


| Age | Males | Females |
|-------|-------|---------|
| <1 | 168 | 153 |
| 1-4 | 680 | 651 |
| 5-14 | 1,575 | 1,800 |
| 15-24 | 6,132 | 7,562 |
| 25-34 | 5,184 | 5,791 |
| 35-44 | 3,715 | 4,326 |
| 45-54 | 3,042 | 3,526 |
| 55-64 | 1,819 | 2,184 |
| 65-74 | 774 | 1,009 |
| 75-84 | 366 | 459 |
| 85+ | 111 | 119 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

Motor Vehicle Traffic Crashes- by Mode of Transport

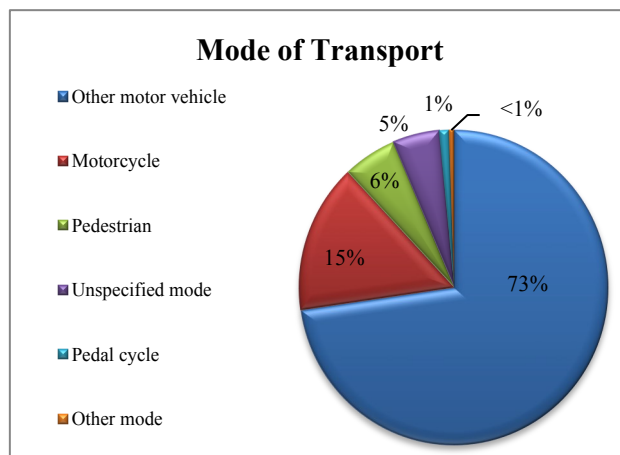
Fatalities:



| Mode of transport | Number |
|-------------------------|--------|
| Mode unspecified | 402 |
| Passenger vehicle | 144 |
| Motorcycle | 62 |
| Pedestrian | 47 |
| ATV or 3-wheel MV | 20 |
| Pedal cycle | 6 |
| Heavy transport vehicle | 5 |
| Other, specified | # |

Notes: "Other, specified" includes persons whose mode of transport was an animal, animal-drawn vehicle, railway train, railway vehicle, streetcar, special vehicle mainly used on industrial premises, or special construction vehicle.

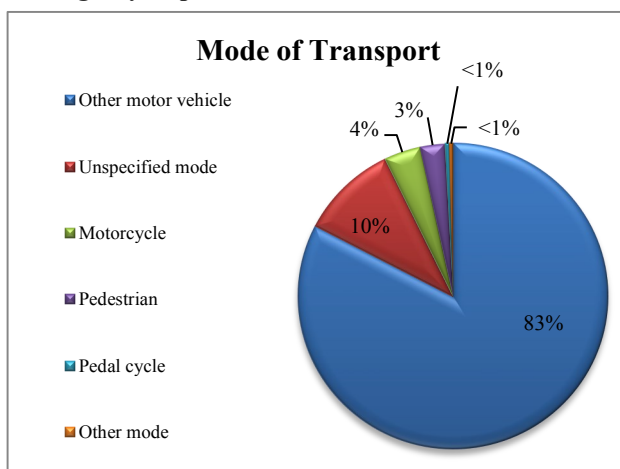
Hospitalizations



| Mode of transport | Number |
|---------------------|--------|
| Other motor vehicle | 2,123 |
| Motorcycle | 447 |
| Pedestrian | 164 |
| Unspecified mode | 143 |
| Pedal cycle | 29 |
| Other mode | 14 |

Notes: "Other mode" includes persons whose mode of transport was an animal, animal-drawn vehicle, streetcar or railway train, and possibly certain other types of vehicles. "Other motor vehicle" includes primarily passenger motor vehicles and heavy trucks, but may include certain other types of motor vehicles as well.

Emergency Dept Visits



| Mode of transport | Number |
|---------------------|--------|
| Other motor vehicle | 42,258 |
| Unspecified mode | 5,199 |
| Motorcycle | 1,970 |
| Pedestrian | 1,291 |
| Pedal cycle | 260 |
| Other mode | 173 |

Notes: "Other mode" includes persons whose mode of transport was an animal, animal-drawn vehicle, streetcar or railway train, and possibly certain other types of vehicles. "Other motor vehicle" includes primarily passenger motor vehicles and heavy trucks, but may include certain other types of motor vehicles as well.

At least 1 but less than 5

Suppressed to prevent indirect disclosure

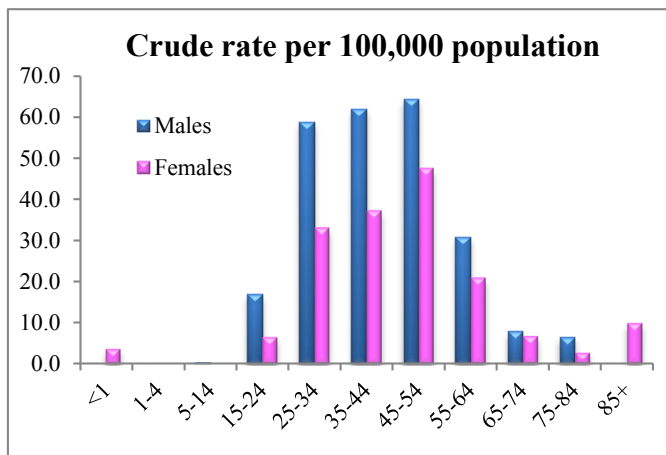
Poisoning - by Age and Sex

Fatalities

Total: 1,123 (26.6*)

Males: 681 (32.6*)

Females: 442 (20.5*)



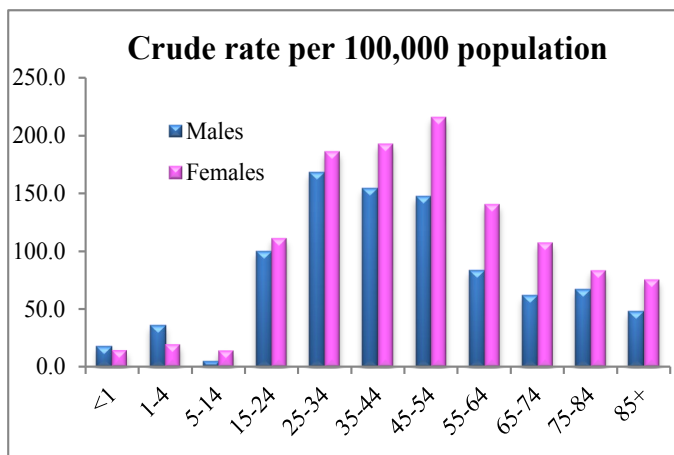
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | # |
| 1-4 | 0 | 0 |
| 5-14 | # | 0 |
| 15-24 | 51 | 19 |
| 25-34 | 152 | 84 |
| 35-44 | 176 | 105 |
| 45-54 | 199 | 151 |
| 55-64 | 84 | 61 |
| 65-74 | 13 | 13 |
| 75-84 | 5 | # |
| 85+ | 0 | 5 |

Hospitalizations

Total: 4,921 (114.7*)

Males: 2,085 (99.7*)

Females: 2,836 (129.1*)



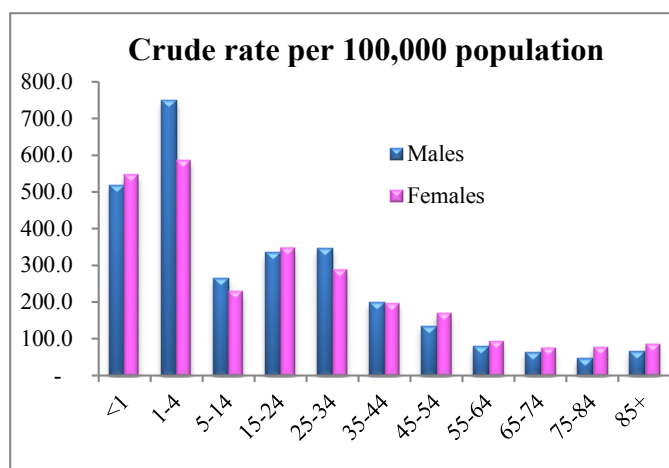
| Age | Males | Females |
|-------|-------|---------|
| <1 | 5 | # |
| 1-4 | 41 | 22 |
| 5-14 | 15 | 41 |
| 15-24 | 303 | 322 |
| 25-34 | 436 | 473 |
| 35-44 | 438 | 545 |
| 45-54 | 456 | 687 |
| 55-64 | 226 | 409 |
| 65-74 | 102 | 204 |
| 75-84 | 52 | 91 |
| 85+ | 11 | 38 |

Emergency Department Visits

Total: 9,875 (240.5*)

Males: 5,040 (245.0*)

Females: 4,833 (234.9*)

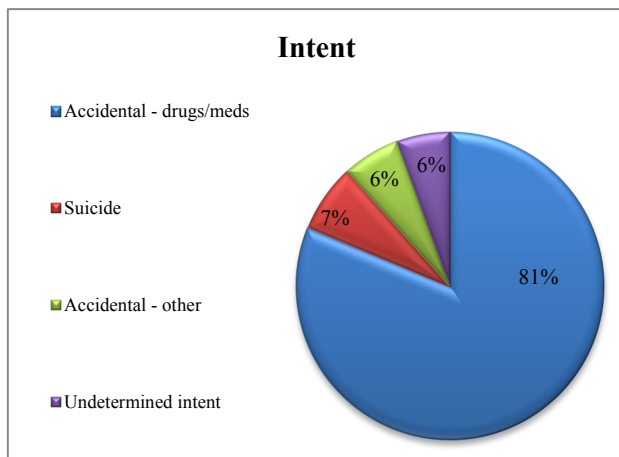


| Age | Males | Females |
|-------|-------|---------|
| <1 | 147 | 147 |
| 1-4 | 861 | 642 |
| 5-14 | 774 | 643 |
| 15-24 | 1,014 | 1,006 |
| 25-34 | 894 | 735 |
| 35-44 | 563 | 560 |
| 45-54 | 414 | 546 |
| 55-64 | 218 | 277 |
| 65-74 | 104 | 147 |
| 75-84 | 36 | 86 |
| 85+ | 15 | 44 |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

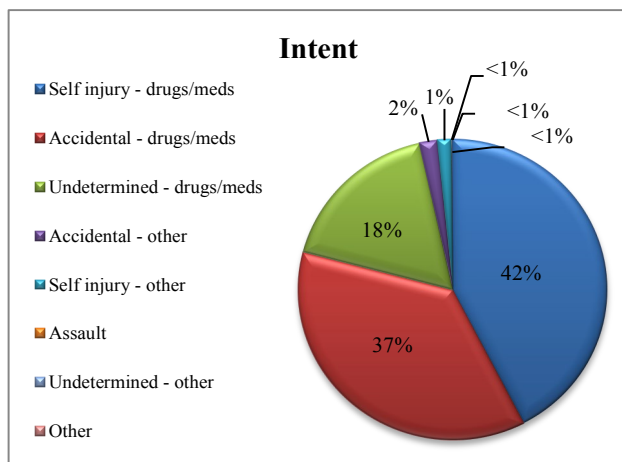
Poisoning- by Intent

Fatalities:



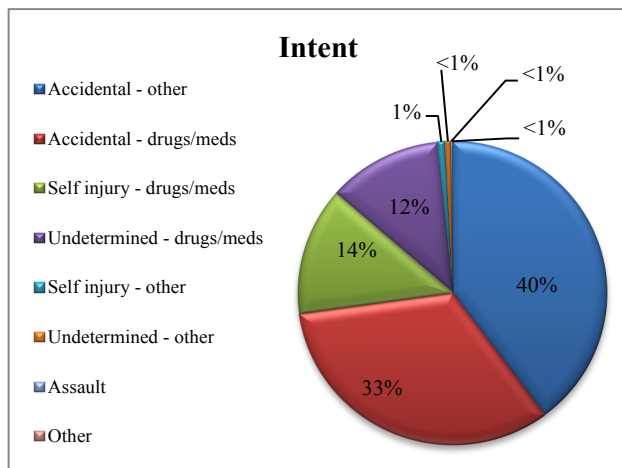
| Intent | Number |
|-------------------------|--------|
| Accidental - drugs/meds | 912 |
| Suicide | 80 |
| Accidental - other | 68 |
| Undetermined intent | 63 |

Hospitalizations



| Intent | Number |
|---------------------------|--------|
| Self injury - drugs/meds | 2,086 |
| Accidental - drugs/meds | 1,805 |
| Undetermined - drugs/meds | 861 |
| Accidental - other | 93 |
| Self injury - other | 68 |
| Assault | 5 |
| Undetermined - other | # |
| Other | # |

Emergency Dept Visits



| Intent | Number |
|---------------------------|--------|
| Accidental - other | 3,933 |
| Accidental - drugs/meds | 3,257 |
| Self injury - drugs/meds | 1,346 |
| Undetermined - drugs/meds | 1,187 |
| Self injury - other | 77 |
| Undetermined - other | 55 |
| Assault | 17 |
| Other | # |

At least 1 but less than 5

Suppressed to prevent indirect disclosure

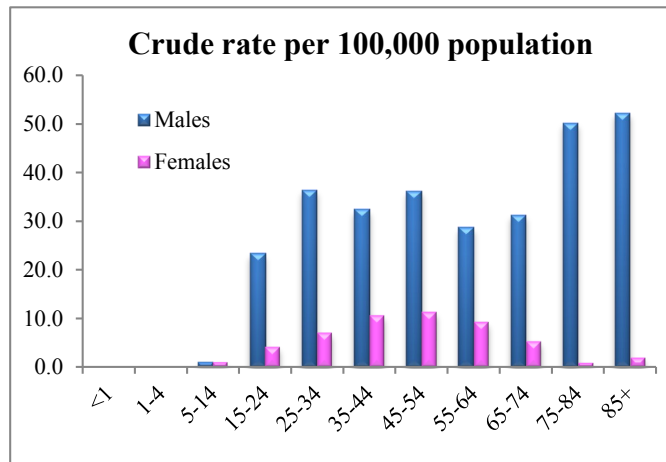
Suicide and Self-Injury - by Age and Sex

Fatalities

Total: 691 (15.8*)

Males: 553 (26.1*)

Females: 138 (6.2*)



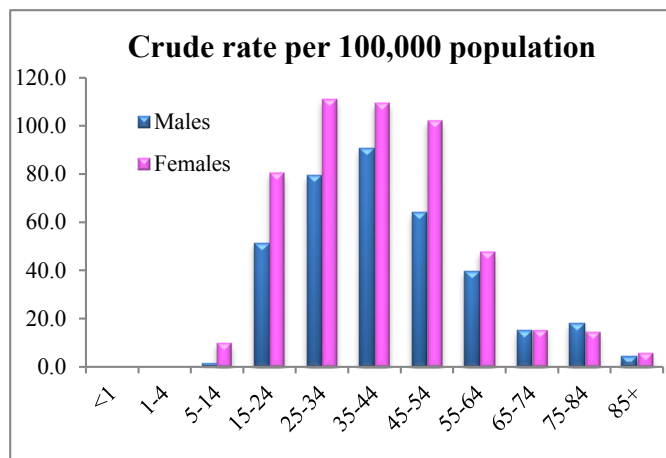
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | 0 |
| 5-14 | # | # |
| 15-24 | 71 | 12 |
| 25-34 | 94 | 18 |
| 35-44 | 92 | 30 |
| 45-54 | 112 | 36 |
| 55-64 | 78 | 27 |
| 65-74 | 52 | 10 |
| 75-84 | 39 | # |
| 85+ | 12 | # |

Hospitalizations

Total: 2,334 (56.0*)

Males: 970 (46.9*)

Females: 1,364 (65.2*)



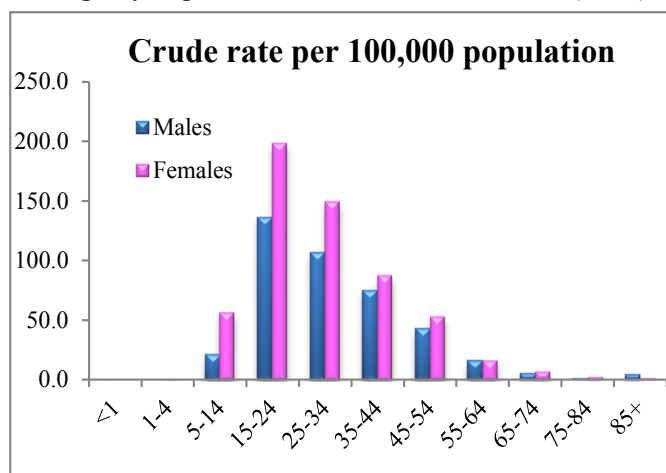
| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | 0 |
| 5-14 | # | 28 |
| 15-24 | 156 | 233 |
| 25-34 | 206 | 282 |
| 35-44 | 258 | 309 |
| 45-54 | 198 | 325 |
| 55-64 | 108 | 139 |
| 65-74 | 25 | 29 |
| 75-84 | 14 | 16 |
| 85+ | # | # |

Emergency Department Visits

Total: 2,749 (67.8*)

Males: 1,153 (56.3*)

Females: 1,595 (79.6*)

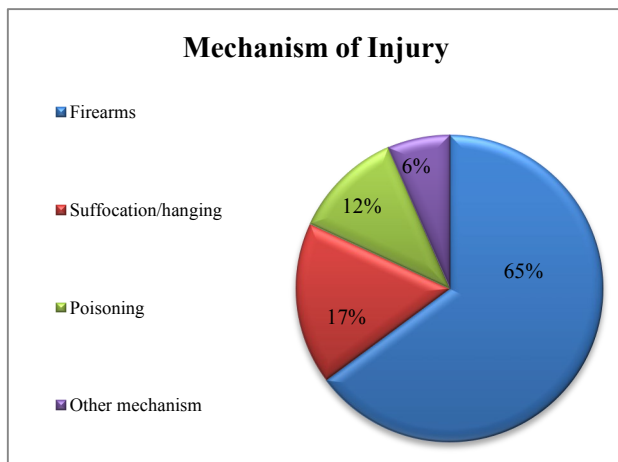


| Age | Males | Females |
|-------|-------|---------|
| <1 | 0 | 0 |
| 1-4 | 0 | # |
| 5-14 | 61 | 158 |
| 15-24 | 415 | 572 |
| 25-34 | 276 | 379 |
| 35-44 | 213 | 248 |
| 45-54 | 132 | 170 |
| 55-64 | 45 | 49 |
| 65-74 | 9 | 14 |
| 75-84 | # | # |
| 85+ | # | # |

* Age-adjusted rate per 100,000 population # At least 1 but less than 5 ## Suppressed to prevent indirect disclosure

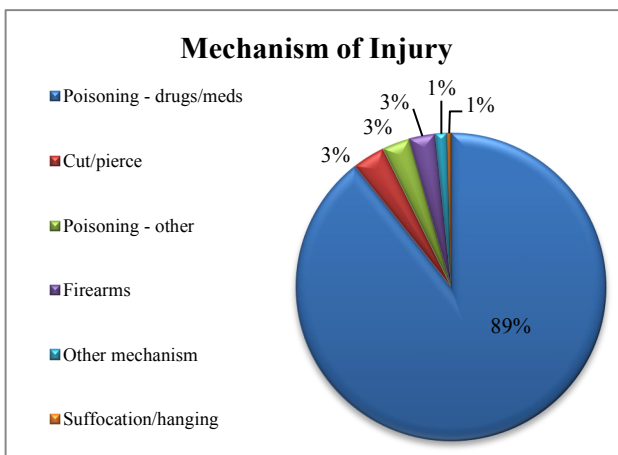
Suicide and Self-Injury- by Mechanism of Injury

Fatalities:



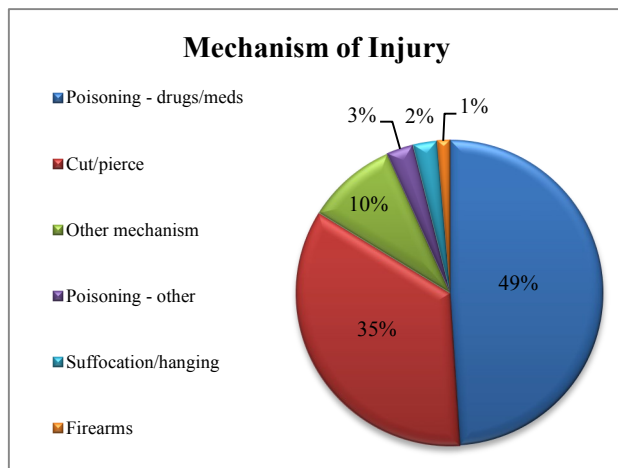
| Mechanism of injury | Number |
|---------------------|--------|
| Firearms | 448 |
| Suffocation/hanging | 118 |
| Poisoning | 80 |
| Other mechanism | 45 |

Hospitalizations



| Mechanism of injury | Number |
|------------------------|--------|
| Poisoning - drugs/meds | 2,086 |
| Cut/pierce | 79 |
| Poisoning - other | 68 |
| Firearms | 63 |
| Other mechanism | 29 |
| Suffocation/hanging | 9 |

Emergency Dept Visits



| Mechanism of injury | Number |
|------------------------|--------|
| Poisoning - drugs/meds | 1,346 |
| Cut/pierce | 958 |
| Other mechanism | 262 |
| Poisoning - other | 77 |
| Suffocation/hanging | 69 |
| Firearms | 37 |

At least 1 but less than 5

Suppressed to prevent indirect disclosure