

# National Violent Death Reporting System (NVDRS) 2016 Surveillance Summary Supplemental Tables

The National Violent Death Reporting System (NVDRS) is a state-based active surveillance system that collects data on the characteristics and circumstances associated with violence-related deaths in participating states. NVDRS data are used to monitor the occurrence of violence-related fatal injuries and assist public health authorities in the development, implementation, and evaluation of programs and policies to reduce and prevent violent deaths.

NVDRS collects data on the following types of violent deaths: homicides, suicides, legal intervention deaths\* (i.e., deaths caused by law enforcement acting in the line of duty and other persons with legal authority to use deadly force but excluding legal executions). NVDRS also collects data on unintentional firearm deaths and deaths of undetermined intent in which there was a possibility that force was used to inflict the fatal injury. NVDRS defines a violent death as a death resulting from the intentional use of physical force or power, threatened or actual, against oneself, another person, or a group or community. The system compiles information from three primary data sources: 1) death certificates, 2) coroner/medical examiner reports, and 3) law enforcement reports, and links deaths that are related (e.g., multiple homicides, a homicide followed by a suicide, or multiple suicides) into a single incident. NVDRS has the capacity to collect over 600 unique variables for each death. (*\*The term legal intervention is a classification from ICD-10 (Y-35.0) and does not denote the lawfulness or legality of the circumstances surrounding the death.*)

The following tables provide information to supplement the data presented in the 2016 NVDRS Surveillance Summary, available at [https://www.cdc.gov/mmwr/volumes/68/ss/ss6809a1.htm?s\\_cid=ss6809a1\\_w](https://www.cdc.gov/mmwr/volumes/68/ss/ss6809a1.htm?s_cid=ss6809a1_w). These tables provide information that was not presented or was not discussed in detail within the 2016 NVDRS Surveillance Summary, but which has been presented in previous NVDRS Surveillance Summaries and may therefore provide useful information for readers who would like further information related to specific manners of violent death or details regarding the circumstances or characteristics surrounding these deaths. The following tables include data on types of violent incidents and additional information on methods used and location in which injury occurred, data on deaths of undetermined intent, additional crime information associated with homicides and legal intervention deaths, types of recent crises experienced by suicide and homicide decedents, and toxicology results for homicide, deaths of undetermined intent, and legal intervention decedents.

For more detailed information about NVDRS and more 2016 NVDRS data, please see the 2016 NVDRS Surveillance Summary, at: [https://www.cdc.gov/mmwr/volumes/68/ss/ss6809a1.htm?s\\_cid=ss6809a1\\_w](https://www.cdc.gov/mmwr/volumes/68/ss/ss6809a1.htm?s_cid=ss6809a1_w).

**Table S1. Number\*, percentage†, and rate§ of deaths by incident type and manner of death -- National Violent Death Reporting System, 32 states,¶ 2016**

Characteristic	No. (%)	Rate
<b>Incident Type</b>		
Suicide, single	25,399 (62.9)	15.4
Homicide, single	8,887 (22.0)	4.7
Undetermined intent, single	4,424 (11.0)	2.4
Unintentional firearm, single	293 (<1.0)	0.2
Suicide, multiple	29 (<1.0)	**
Homicide, multiple	424 (1.1)	**
Undetermined intent, multiple	12 (<1.0)	**
Legal intervention††, single/multiple	510 (1.3)	**
Homicide followed by suicide	381 (<1.0)	**
Other combinations of deaths	15 (<1.0)	**
<b>Total</b>	<b>40,374 (100)</b>	<b>**</b>
<b>Manner of death</b>		
Suicide, or intentional self-harm	25,850 (62.3)	15.7
Homicide	10,336 (24.9)	5.5
Undetermined intent	4,470 (10.8)	2.4
Legal Intervention	515 (1.2)	0.3
Unintentional firearm	295 (<1.0)	0.2
<b>Total</b>	<b>41,466 (100)</b>	<b>§§</b>

\*No. incidents=40,374; no. decedents=41,017 (98.9%); no. suspect/decedents=449 (1.1%). The Incident Type section reports number of incidents; the manner of death section reports number of deaths.

†Percentages might not total 100% due to rounding.

§Per 100,000 population.

¶Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded. Denominators for the rates for these three states represent only the populations of the counties from which the data is collected.

\*\*Because the number of decedents varies in incidents involving multiple deaths, numerators cannot be determined to compute rates.

††The term legal intervention does not denote the lawfulness or legality of the circumstances surrounding the death.

§§Total rates could not be computed because denominators vary by manner of death. Suicide uses population >=10 years of age and all other manners use the total population.

**Table S2. Number\* and percentage<sup>†</sup> of deaths by method used and location in which injury occurred -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

<b>Characteristic</b>	<b>No. (%)</b>
<b>Method</b>	
Firearm	21,311 (51.4)
Hanging/Strangulation/Suffocation	7,547 (18.2)
Poisoning	7,003 (16.9)
Sharp instrument	1,648 (4.0)
Fall	836 (2.0)
Motor vehicle (e.g., car, bus, motorcycle, other transport vehicle)	674 (1.6)
Blunt instrument	516 (1.2)
Drowning	457 (1.1)
Personal weapons (e.g., hands, feet, fists)	445 (1.1)
Fire/Burns	276 (<1.0)
Intentional neglect	52 (<1.0)
Other (single method)	155 (<1.0)
Unknown	546 (1.3)
<b>Total</b>	<b>41,466 (100)</b>
<b>Injury Location</b>	
House/Apartment	27,557 (66.5)
Street/Highway	3,403 (8.2)
Motor vehicle	2,419 (5.8)
Natural area	1,777 (4.3)
Parking lot/Public garage/Public transport	929 (2.2)
Hotel/Motel	867 (2.1)
Park/Playground/Sports or athletic area	549 (1.3)
Commercial/Retail Area	546 (1.3)
Jail/prison	464 (1.1)
Railroad tracks	237 (<1.0)
Bridge	218 (<1.0)
Supervised residential facility	182 (<1.0)
Hospital or medical facility	181 (<1.0)
Bar/Nightclub	163 (<1.0)
Farm	137 (<1.0)
Abandoned house/Building/Warehouse	129 (<1.0)
Preschool/School/College/School bus	97 (<1.0)
Cemetery/Graveyard/Other burial ground	94 (<1.0)
Office building	91 (<1.0)
Industrial or construction area	90 (<1.0)

**Table S2. Number\* and percentage<sup>†</sup> of deaths by method used and location in which injury occurred -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

<b>Characteristic</b>	<b>No. (%)</b>
Synagogue/Church/Temple	35 (<1.0)
Other, unspecified location	360 (<1.0)
Unknown	941 (2.3)
<b>Total</b>	<b>41,466 (100)</b>

\*No. decedents=41,017 (98.9%); no. suspect/decedents=449 (1.1%).

<sup>†</sup>Percentages might not total 100% due to rounding.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

**Table S3. Number, percentage\* and rate<sup>†</sup> of deaths of undetermined intent<sup>§</sup> by decedent's sex, age group, race/ethnicity, method used, and location in which injury occurred -- National Violent Death Reporting System, 32 states,<sup>¶</sup> 2016**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Total</b>	<b>2,928 (100)</b>	<b>3.2</b>	<b>1,541 (100)</b>	<b>1.6</b>	<b>4,470 (100)</b>	<b>2.4</b>
<b>Age Group (years)</b>						
<10	79 (2.7)	0.7	52 (3.4)	0.5	131 (2.9)	0.6
10-14	15 (<1.0)	**	4 (<1.0)	**	19 (<1.0)	**
15-19	54 (1.8)	0.9	31 (2.0)	0.5	85 (1.9)	0.7
20-24	223 (7.6)	3.4	81 (5.3)	1.3	304 (6.8)	2.3
25-29	332 (11.3)	5.0	147 (9.5)	2.3	479 (10.7)	3.7
30-34	333 (11.4)	5.3	148 (9.6)	2.4	481 (10.8)	3.8
35-44	559 (19.1)	4.8	292 (18.9)	2.5	851 (19.0)	3.7
45-54	630 (21.5)	5.1	365 (23.7)	2.9	995 (22.3)	4.0
55-64	503 (17.2)	4.2	281 (18.2)	2.2	784 (17.5)	3.2
65-74	137 (4.7)	1.8	74 (4.8)	0.8	211 (4.7)	1.3
75-84	40 (1.4)	1.1	32 (2.1)	0.7	72 (1.6)	0.9
>=85	18 (<1.0)	**	31 (2.0)	1.2	49 (1.1)	1.3
Unknown	5 (<1.0)	**	3 (<1.0)	**	9 (<1.0)	**
<b>Race/ethnicity</b>						
White, non-Hispanic	2,049 (70.0)	3.3	1,167 (75.7)	1.8	3,216 (71.9)	2.5
Black, non-Hispanic	602 (20.6)	5.0	238 (15.4)	1.8	840 (18.8)	3.3
American Indian/Alaska Native, non-Hispanic	45 (1.5)	4.9	30 (1.9)	3.1	75 (1.7)	4.0
Asian/Pacific Islander	54 (1.8)	1.1	32 (2.1)	0.6	86 (1.9)	0.8
Hispanic <sup>††</sup>	161 (5.5)	1.4	69 (4.5)	0.6	230 (5.1)	1.0
Other	17 (<1.0)	**	5 (<1.0)	**	23 (<1.0)	**
Unknown	0 (0.0)	**	0 (0.0)	**	0 (0.0)	**
<b>Method</b>						
Poisoning	2,053 (70.1)	2.2	1,173 (76.1)	1.2	3,227 (72.2)	1.7
Drowning	143 (4.9)	0.2	37 (2.4)	<0.1	180 (4.0)	0.1
Firearm	106 (3.6)	0.1	32 (2.1)	<0.1	138 (3.1)	0.1
Fall	90 (3.1)	0.1	41 (2.7)	<0.1	131 (2.9)	0.1
Motor vehicle (e.g., car, bus, motorcycle, other transport vehicle)	74 (2.5)	0.1	28 (1.8)	<0.1	102 (2.3)	0.1
Blunt instrument	64 (2.2)	0.1	33 (2.1)	<0.1	97 (2.2)	0.1
Fire/Burns	57 (1.9)	0.1	31 (2.0)	<0.1	88 (2.0)	<0.1
Hanging/Strangulation/Suffocation	58 (2.0)	0.1	22 (1.4)	<0.1	80 (1.8)	<0.1

**Table S3. Number, percentage\* and rate<sup>†</sup> of deaths of undetermined intent<sup>§</sup> by decedent's sex, age group, race/ethnicity, method used, and location in which injury occurred -- National Violent Death Reporting System, 32 states,<sup>¶</sup> 2016**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
Sharp instrument	14 (<1.0)	**	7 (<1.0)	**	21 (<1.0)	<0.1
Personal weapons (e.g., hands, feet, fists)	17 (<1.0)	**	3 (<1.0)	**	20 (<1.0)	<0.1
Intentional neglect	6 (<1.0)	**	5 (<1.0)	**	11 (<1.0)	**
Other (single method)	35 (1.2)	**	13 (<1.0)	**	48 (1.1)	**
Unknown	211 (7.2)	**	116 (7.5)	**	327 (7.3)	**
<b>Location of Injury</b>						
House/Apartment	1,928 (65.8)	2.1	1,196 (77.6)	1.3	3,124 (69.9)	1.7
Natural area	169 (5.8)	0.2	36 (2.3)	<0.1	206 (4.6)	0.1
Hotel/Motel	116 (4.0)	0.1	44 (2.9)	<0.1	160 (3.6)	0.1
Street/Highway	112 (3.8)	0.1	39 (2.5)	<0.1	151 (3.4)	0.1
Motor vehicle	107 (3.7)	0.1	35 (2.3)	<0.1	142 (3.2)	0.1
Supervised residential facility	50 (1.7)	0.1	16 (1.0)	**	66 (1.5)	<0.1
Commercial/Retail Area	41 (1.4)	<0.1	7 (<1.0)	**	48 (1.1)	<0.1
Parking lot/Public garage/Public transport	39 (1.3)	<0.1	6 (<1.0)	**	45 (1.0)	<0.1
Hospital or medical facility	26 (<1.0)	<0.1	16 (1.0)	**	42 (<1.0)	<0.1
Abandoned house/Building/Warehouse	27 (<1.0)	<0.1	8 (<1.0)	**	35 (<1.0)	<0.1
Other location <sup>§§</sup>	124 (4.2)	**	19 (1.2)	**	143 (3.2)	**
Unknown	189 (6.5)	**	119 (7.7)	**	308 (6.9)	**

\*Percentages might not total 100% due to rounding. Sex was unknown for n=1 decedents.

<sup>†</sup>Per 100,000 population.

<sup>§</sup>Deaths that result from the use of force or power against oneself or another person for which evidence indicating one manner of death is no more compelling than evidence indicating another.

<sup>¶</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded. Denominators for the rates for these three states represent only the populations of the counties from which the data is collected.

\*\*Rates not reported when number of decedents is <20 or when characteristic response is 'Other' or 'Unknown'.

<sup>††</sup>Includes persons of any race.

<sup>§§</sup>Other location includes (in descending order): Park/Playground/Sports or athletic area, Jail/prison, Railroad tracks, Bridge, Industrial or construction area, Preschool/School/College/School bus, Bar/Nightclub, Synagogue/Church/Temple, Farm, Office building, Cemetery/Graveyard/Other burial ground, Other, unspecified location.

**Table S4. Number\* and percentage<sup>†</sup> of deaths of undetermined intent, by precipitating circumstances and decedent's sex -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

Precipitating circumstances	Male No. (%)	Female No. (%)	Total No. (%)
<b>Deaths of Undetermined Intent with Known Precipitating Circumstances<sup>¶</sup></b>	<b>2,491 (85.1)</b>	<b>1,335 (86.6)</b>	<b>3,826 (85.6)</b>
<b>Mental Health/Substance Abuse</b>			
Current diagnosed mental health problem**	756 (30.3)	648 (48.5)	1,404 (36.7)
Depression/dysthymia	378 (50.0)	375 (57.9)	753 (53.6)
Anxiety disorder	159 (21.0)	176 (27.2)	335 (23.9)
Bipolar disorder	145 (19.2)	175 (27.0)	320 (22.8)
Schizophrenia	79 (10.4)	40 (6.2)	119 (8.5)
PTSD	45 (6.0)	28 (4.3)	73 (5.2)
ADD/ADHD	34 (4.5)	14 (2.2)	48 (3.4)
Eating disorder	0 (0.0)	4 (<1.0)	4 (<1.0)
OCD	3 (<1.0)	1 (<1.0)	4 (<1.0)
Other	71 (9.4)	40 (6.2)	111 (7.9)
Unknown	121 (16.0)	85 (13.1)	206 (14.7)
Substance abuse problem (excludes alcohol)	1,699 (68.2)	833 (62.4)	2,532 (66.2)
History of ever being treated for a mental health problem	740 (29.7)	554 (41.5)	1,294 (33.8)
Alcohol problem	778 (31.2)	299 (22.4)	1,077 (28.1)
Current mental health treatment	415 (16.7)	391 (29.3)	806 (21.1)
Current depressed mood	219 (8.8)	158 (11.8)	377 (9.9)
Other addiction (e.g., gambling, sexual)	14 (<1.0)	5 (<1.0)	19 (<1.0)
<b>Interpersonal</b>			
Intimate partner problem	132 (5.3)	80 (6.0)	212 (5.5)
Family relationship problem	70 (2.8)	59 (4.4)	129 (3.4)
Other death of family member or friend	46 (1.8)	43 (3.2)	89 (2.3)
Other relationship problem (non-intimate)	31 (1.2)	23 (1.7)	54 (1.4)
Victim of interpersonal violence during past month	13 (<1.0)	20 (1.5)	33 (<1.0)
Suicide of family member or friend	14 (<1.0)	13 (<1.0)	27 (<1.0)
Perpetrator of interpersonal violence during past month	10 (<1.0)	4 (<1.0)	14 (<1.0)
<b>Life Stressor</b>			
Physical health problem	251 (10.1)	246 (18.4)	497 (13.0)
Crisis during previous or upcoming 2 weeks	283 (11.4)	175 (13.1)	458 (12.0)
Argument or conflict	111 (4.5)	90 (6.7)	201 (5.3)
Job problem	73 (2.9)	23 (1.7)	96 (2.5)
Recent criminal legal problem	68 (2.7)	19 (1.4)	87 (2.3)

**Table S4. Number\* and percentage<sup>†</sup> of deaths of undetermined intent, by precipitating circumstances and decedent's sex -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

	<b>Male</b>	<b>Female</b>	<b>Total</b>
<b>Precipitating circumstances</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>
Financial problem	41 (1.6)	21 (1.6)	62 (1.6)
Caretaker abuse/neglect led to death	27 (1.1)	30 (2.2)	57 (1.5)
Eviction or loss of home	34 (1.4)	17 (1.3)	51 (1.3)
Physical fight (2 people, not a brawl)	29 (1.2)	17 (1.3)	46 (1.2)
Non-criminal legal problem	20 (<1.0)	19 (1.4)	39 (1.0)
History of child abuse/neglect	14 (<1.0)	16 (1.2)	30 (<1.0)
School problem	6 (<1.0)	4 (<1.0)	10 (<1.0)
Traumatic anniversary	5 (<1.0)	4 (<1.0)	9 (<1.0)
Exposure to disaster	0 (0.0)	0 (0.0)	0 (0.0)
<b>Crime and Criminal Activity</b>			
Precipitated by another crime	36 (1.4)	14 (1.0)	50 (1.3)
Crime in Progress <sup>††</sup>	12 (33.3)	4 (28.6)	16 (32.0)
Terrorist attack	0 (0.0)	0 (0.0)	0 (0.0)
<b>Suicide Event</b>			
History of suicidal thoughts or plans	222 (8.9)	163 (12.2)	385 (10.1)
History of suicide attempt(s)	145 (5.8)	174 (13.0)	319 (8.3)
Left a suicide note	42 (1.7)	23 (1.7)	65 (1.7)
<b>Suicide Disclosure</b>			
Disclosed suicide intent	116 (4.7)	64 (4.8)	180 (4.7)
Disclosed intent to whom <sup>§§</sup>			
Other family member	41 (35.3)	20 (31.3)	61 (33.9)
Previous or current intimate partner	24 (20.7)	18 (28.1)	42 (23.3)
Friend/colleague	19 (16.4)	7 (10.9)	26 (14.4)
Health care worker	12 (10.3)	10 (15.6)	22 (12.2)
Neighbor	1 (<1.0)	2 (3.1)	3 (1.7)
Other person	16 (13.8)	5 (7.8)	21 (11.7)
Unknown	3 (2.6)	2 (3.1)	5 (2.8)



**Table S4. Number\* and percentage<sup>†</sup> of deaths of undetermined intent, by precipitating circumstances and decedent's sex -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

Precipitating circumstances	Male No. (%)	Female No. (%)	Total No. (%)
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\*Includes deaths of undetermined intent with one or more precipitating circumstances. More than one circumstance could have been present per decedent.

<sup>†</sup>Denominator includes those deaths of undetermined intent with one or more precipitating circumstances. The sum of percentages in columns exceeds 100% because more than one circumstance could have been present per decedent.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

<sup>¶</sup>Circumstances were unknown for 644 decedents (437 males, 206 females, 1 unknown). Total No. of deaths of undetermined intent= 4,470 (2,928 males, 1,541 females and 1 unknown).

\*\*Includes decedents with one or more diagnosed current mental health problems, therefore sums of percentages for the diagnosed conditions exceed 100%. Denominator in percentages is the number of decedents with one or more current diagnosed mental health problems.

<sup>††</sup>Denominator includes those decedents involved in an incident that was precipitated by another crime.

<sup>§§</sup>Denominator is decedents who disclosed intent.

**Table S5. Number\* and percentage of deaths of undetermined intent that were tested for alcohol and drugs whose results were positive,<sup>†</sup> by toxicology variable -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

<b>Toxicology variable</b>	<b>Tested No. (%)</b>	<b>Positive No. (%)</b>
BAC <sup>¶</sup>	3,355 (75.1)	1,313 (39.1)
Alcohol < 0.08 g/dL		451 (34.3)
Alcohol >= 0.08 g/dL		706 (53.8)
Alcohol positive - level unknown		156 (11.9)
Amphetamines	1,655 (37.0)	348 (21.0)
Anticonvulsants	1,274 (28.5)	341 (26.8)
Antidepressants	1,792 (40.1)	972 (54.2)
Antipsychotics	1,323 (29.6)	226 (17.1)
Barbiturates	1,451 (32.5)	40 (2.8)
Benzodiazepines	1,995 (44.6)	995 (49.9)
Carbon monoxide	622 (13.9)	87 (14.0)
Cocaine	2,151 (48.1)	781 (36.3)
Marijuana	1,430 (32.0)	386 (27.0)
Muscle relaxants	1,227 (27.4)	182 (14.8)
Opioids	3,458 (77.4)	2,738 (79.2)
Other drugs/substances**	2,287 (51.2)	2,117 (92.6)

**Abbreviation:** BAC = blood alcohol concentration.

\*No. of decedents of undetermined intent=4,470.

<sup>†</sup>Percentage is of decedents tested for toxicology variable.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

<sup>¶</sup>BAC of >=0.08 g/dL is over the legal limit for impaired driving.

\*\*Other drugs/substances indicated if any results were positive; levels for these drugs/substances are not measured.

**Table S6. Number\* and percentage of homicide decedents that were tested for alcohol and drugs whose results were positive,<sup>†</sup> by toxicology variable -- National Violent Death Reporting System, 32 states,<sup>§</sup> 2016**

<b>Toxicology variable</b>	<b>Tested No. (%)</b>	<b>Positive No. (%)</b>
BAC <sup>¶</sup>	6,512 (63.0)	2,395 (36.8)
Alcohol < 0.08 g/dL		902 (37.7)
Alcohol >= 0.08 g/dL		1,367 (57.1)
Alcohol positive - level unknown		126 (5.3)
Amphetamines	4,037 (39.1)	709 (17.6)
Anticonvulsants	1,878 (18.2)	133 (7.1)
Antidepressants	2,173 (21.0)	197 (9.1)
Antipsychotics	2,099 (20.3)	31 (1.5)
Barbiturates	3,312 (32.0)	49 (1.5)
Benzodiazepines	3,876 (37.5)	599 (15.5)
Carbon monoxide	855 (8.3)	129 (15.1)
Cocaine	4,991 (48.3)	778 (15.6)
Marijuana	3,914 (37.9)	2,034 (52.0)
Muscle relaxants	2,205 (21.3)	35 (1.6)
Opioids	5,127 (49.6)	1,037 (20.2)
Other drugs/substances**	1,956 (18.9)	1,530 (78.2)

**Abbreviation:** BAC = blood alcohol concentration.

\*No. of homicide decedents=10,336.

<sup>†</sup>Percentage is of decedents tested for toxicology variable.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

<sup>¶</sup>BAC of >=0.08 g/dL is over the legal limit for impaired driving.

\*\*Other drugs/substances indicated if any results were positive; levels for these drugs/substances are not measured.

**Table S7. Number\* and percentage<sup>†</sup> of homicides precipitated by another crime, by type of crime - National Violent Death Reporting System, 32 states<sup>§</sup>, 2016**

<b>Crime Type</b>	<b>No. (%)</b>
<b>Precipitated by another crime</b>	<b>2,538 (100.0)</b>
Assault, homicide	1,111 (43.8)
Robbery	879 (34.6)
Drug trade	317 (12.5)
Burglary	303 (11.9)
Motor vehicle theft	87 (3.4)
Rape, sexual assault	62 (2.4)
Arson	56 (2.2)
Gambling	20 (<1.0)
Witness intimidation/elimination	17 (<1.0)
Other crime	199 (7.8)
Unknown	44 (1.7)

\*Includes deaths precipitated by another crime. Number will not equal the sum of the column because a death could have been precipitated by more than one other crime.

<sup>†</sup>Denominator includes those decedents involved in an incident that was precipitated by another crime. Percentages do not sum to 100% because a decedent could have experienced more than one crime.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

**Table S8. Number\* and percentage of legal intervention<sup>†</sup> deaths that were tested for alcohol and drugs whose results were positive,<sup>§</sup> by toxicology variable -- National Violent Death Reporting System, 32 states,<sup>¶</sup> 2016**

<b>Toxicology variable</b>	<b>Tested No. (%)</b>	<b>Positive No. (%)</b>
BAC**	372 (72.2)	163 (43.8)
Alcohol < 0.08 g/dL		41 (25.2)
Alcohol >= 0.08 g/dL		113 (69.3)
Alcohol positive - level unknown		9 (5.5)
Amphetamines	297 (57.7)	126 (42.4)
Anticonvulsants	132 (25.6)	8 (6.1)
Antidepressants	164 (31.8)	26 (15.9)
Antipsychotics	151 (29.3)	3 (2.0)
Barbiturates	227 (44.1)	3 (1.3)
Benzodiazepines	295 (57.3)	36 (12.2)
Carbon monoxide	25 (4.9)	2 (8.0)
Cocaine	336 (65.2)	47 (14.0)
Marijuana	245 (47.6)	120 (49.0)
Muscle relaxants	135 (26.2)	5 (3.7)
Opioids	347 (67.4)	73 (21.0)
Other drugs/substances <sup>††</sup>	165 (32.0)	123 (74.5)

**Abbreviation:** BAC = blood alcohol concentration.

\*No. of legal intervention decedents=515.

<sup>†</sup>The term legal intervention does not denote the lawfulness or legality of the circumstances surrounding the death.

<sup>§</sup>Percentage is of decedents tested for toxicology variable.

<sup>¶</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

\*\*BAC of >=0.08 g/dL is over the legal limit for impaired driving.

<sup>††</sup>Other drugs/substances indicated if any results were positive; levels for these drugs/substances are not measured.

**Table S9. Number\* and percentage<sup>†</sup> of legal intervention<sup>§</sup> deaths precipitated by another crime, by type of crime - National Violent Death Reporting System, 32 states\*\*, 2016**

<b>Crime Type</b>	<b>No. (%)</b>
<b>Precipitated by another crime</b>	<b>453 (100.0)</b>
Assault, homicide	258 (57.0)
Robbery	50 (11.0)
Motor vehicle theft	34 (7.5)
Burglary	19 (4.2)
Drug trade	8 (1.8)
Witness intimidation/elimination	3 (<1.0)
Arson	2 (<1.0)
Rape, sexual assault	2 (<1.0)
Gambling	1 (<1.0)
Other crime	116 (25.6)
Unknown	62 (13.7)

\*Includes deaths precipitated by another crime. Number will not equal the sum of the column because a death could have been precipitated by more than one other crime.

<sup>†</sup>Denominator includes those decedents involved in an incident that was precipitated by another crime. Percentages do not sum to 100% because a decedent could have experienced more than one other crime.

<sup>§</sup>The term legal intervention does not denote the lawfulness or legality of the circumstances surrounding the death.

\*\*Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

**Table S10. Number\* and percentage<sup>†</sup> of suicide decedents<sup>§</sup> who experienced a recent crisis, by type of crisis circumstance and decedent's sex - National Violent Death Reporting System, 32 states,<sup>¶</sup> 2016**

Type of crisis	Male No. (%)	Female No. (%)	Total No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>5,853 (100.0)</b>	<b>1,527 (100)</b>	<b>7,380 (100.0)</b>
Intimate partner problem	2,069 (35.3)	508 (33.3)	2,577 (34.9)
Physical health problem	894 (15.3)	212 (13.9)	1,106 (15.0)
Recent criminal legal problem	749 (12.8)	88 (5.8)	837 (11.3)
Family relationship problem	371 (6.3)	152 (10.0)	523 (7.1)
Job problem	409 (7.0)	76 (5.0)	485 (6.6)
Eviction or loss of home	274 (4.7)	84 (5.5)	358 (4.9)
Alcohol problem	243 (4.2)	56 (3.7)	299 (4.1)
Financial problem	232 (4.0)	58 (3.8)	290 (3.9)
Current diagnosed mental health problem	176 (3.0)	74 (4.8)	250 (3.4)
Other death of family member or friend	159 (2.7)	78 (5.1)	237 (3.2)
Non-criminal legal problem	184 (3.1)	35 (2.3)	219 (3.0)
Substance abuse problem (excludes alcohol)	131 (2.2)	53 (3.5)	184 (2.5)
School problem	79 (1.3)	25 (1.6)	104 (1.4)
Other relationship problem (non-intimate)	81 (1.4)	21 (1.4)	102 (1.4)
Suicide of family member or friend	37 (<1.0)	25 (1.6)	62 (<1.0)
Other addiction (e.g., gambling, sexual)	14 (<1.0)	1 (<1.0)	15 (<1.0)
Disaster exposure	0 (0.0)	0 (0.0)	0 (0.0)
Other crisis	1,215 (20.8)	347 (22.7)	1,562 (21.2)

\*Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sum of the column because more than one crisis could have been present per decedent.

<sup>†</sup>Denominator includes only those decedents who experienced one or more crises during the previous or upcoming two weeks. Percentages do not sum to 100% because a decedent could have experienced more than one crisis.

<sup>§</sup>Suicide is not reported for decedents under 10 years of age, as per standard in the suicide prevention literature.

<sup>¶</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

**Table S11. Number\* and percentage<sup>†</sup> of homicide decedents who experienced a recent crisis, by type of crisis circumstance and decedent's sex - National Violent Death Reporting System, 32 states\*\*, 2016**

<b>Type of crisis</b>	<b>Male No. (%)</b>	<b>Female No. (%)</b>	<b>Total No. (%)</b>
<b>Crisis during previous or upcoming 2 weeks</b>	<b>493 (100)</b>	<b>215 (100)</b>	<b>708 (100)</b>
Family relationship problem	65 (13.2)	31 (14.4)	96 (13.6)
Other relationship problem (non-intimate)	70 (14.2)	16 (7.4)	86 (12.1)
Jealousy (lovers' triangle)	47 (9.5)	29 (13.5)	76 (10.7)
Stalking	4 (<1.0)	6 (2.8)	10 (1.4)
Prostitution	4 (<1.0)	6 (2.8)	10 (1.4)
Substance abuse problem (excludes alcohol)	6 (1.2)	2 (<1.0)	8 (1.1)
Current diagnosed mental health problem	3 (<1.0)	3 (1.4)	6 (<1.0)
Alcohol problem	4 (<1.0)	1 (<1.0)	5 (<1.0)
Other addiction (e.g., gambling, sexual)	1 (<1.0)	1 (<1.0)	2 (<1.0)
Other crisis	308 (62.5)	112 (52.1)	420 (59.3)

\*Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sum of the column because more than one crisis could have been present per decedent.

<sup>†</sup>Denominator includes only those decedents who experienced one or more crises during the previous or upcoming two weeks. Percentages do not sum to 100% because a decedent could have experienced more than one crisis.

<sup>§</sup>Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.



**Table S12. Number\* and percentage<sup>†</sup> of male<sup>§</sup> legal intervention<sup>¶</sup> decedents who experienced a recent crisis, by type of crisis circumstance and decedent's sex - National Violent Death Reporting System, 32 states\*\*, 2016**

Type of crisis	Male No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>73 (100)</b>
Substance abuse problem (excludes alcohol)	9 (12.3)
Other relationship problem (non-intimate)	7 (9.6)
Family relationship problem	6 (8.2)
Alcohol problem	5 (6.8)
Current diagnosed mental health problem	2 (2.7)
Jealousy (lovers' triangle)	1 (1.4)
Other addiction (e.g., gambling, sexual)	0 (0.0)
Stalking	0 (0.0)
Prostitution	0 (0.0)
Other crisis	51 (69.9)

\*Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sum of the column because more than one crisis could have been present per decedent.

<sup>†</sup>Denominator includes only those decedents who experienced one or more crises during the previous or upcoming two weeks. Percentages do not sum to 100% because a decedent could have experienced more than one crisis.

<sup>§</sup>Number and percentage of female legal intervention decedents excluded due to low counts.

<sup>¶</sup>The term legal intervention does not denote the lawfulness or legality of the circumstances surrounding the death.

\*\*Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.

**Table S13. Number\* and percentage<sup>†</sup> of decedents of undetermined intent<sup>§</sup> who experienced a recent crisis, by type of crisis circumstance and decedent's sex - National Violent Death Reporting System, 32 states\*\*, 2016**

Type of crisis	Male No. (%)	Female No. (%)	Total No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>283 (100)</b>	<b>175 (100)</b>	<b>458 (100)</b>
Intimate partner problem	41 (14.5)	28 (16.0)	69 (15.1)
Physical health problem	33 (11.7)	34 (19.4)	67 (14.6)
Substance abuse problem (excludes alcohol)	47 (16.6)	19 (10.9)	66 (14.4)
Alcohol problem	25 (8.8)	6 (3.4)	31 (6.8)
Family relationship problem	11 (3.9)	8 (4.6)	19 (4.1)
Other death of family member or friend	10 (3.5)	7 (4.0)	17 (3.7)
Recent criminal legal problem	12 (4.2)	3 (1.7)	15 (3.3)
Job problem	14 (4.9)	1 (<1.0)	15 (3.3)
Other relationship problem (non-intimate)	11 (3.9)	3 (1.7)	14 (3.1)
Eviction or loss of home	9 (3.2)	3 (1.7)	12 (2.6)
Financial problem	7 (2.5)	1 (<1.0)	8 (1.7)
Non-criminal legal problem	5 (1.8)	2 (1.1)	7 (1.5)
Current diagnosed mental health problem	4 (1.4)	0 (0.0)	4 (<1.0)
Suicide of family member or friend	2 (<1.0)	1 (<1.0)	3 (<1.0)
School problem	1 (<1.0)	0 (0.0)	1 (<1.0)
Other addiction (e.g., gambling, sexual)	0 (0.0)	0 (0.0)	0 (0.0)
Disaster exposure	0 (0.0)	0 (0.0)	0 (0.0)
Other crisis	116 (41.0)	79 (45.1)	195 (42.6)

\*Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sum of the column because more than one crisis could have been present per decedent.

<sup>†</sup>Denominator includes only those decedents who experienced one or more crises during the previous or upcoming two weeks. Percentages do not sum to 100% because a decedent could have experienced more than one crisis.

<sup>§</sup>Deaths that result from the use of force or power against oneself or another person for which evidence indicating one manner of death is no more compelling than evidence indicating another.

\*\*Alaska, Arizona, Colorado, Connecticut, Georgia, Hawaii, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, Wisconsin. Illinois, Pennsylvania, and Washington collect data on 80% or more of violent deaths in state, in accordance with requirements under which the state was funded.