

## **Surveillance for Violent Deaths — National Violent Death Reporting System, 42 States, the District of Columbia, and Puerto Rico, 2019**

### **Supplementary 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, districts, and territories. NVDRS data are used to monitor the occurrence of violence-related fatal injuries and assist public health authorities in developing, implementing, and evaluating programs and policies that aim to reduce and prevent violent deaths.

NVDRS collects data on suicides, homicides, 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, excluding legal executions), unintentional firearm deaths, and deaths of undetermined intent in which there was a possibility that force was used to inflict the fatal injury. (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.) 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 or 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 following tables provide information to supplement the data presented in the 2019 NVDRS Surveillance Summary, Surveillance for Violent Deaths — National Violent Death Reporting System, 42 States, District of Columbia, and Puerto Rico, 2019. These tables provide information that was not presented or was not discussed in detail within the 2019 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 and characteristics surrounding these deaths. The following tables include data on types of violent death incidents; methods used; location in which injury occurred; deaths of undetermined intent; toxicology results for deaths of undetermined intent, homicides, and legal intervention deaths; additional crime information associated with homicides and legal intervention deaths; types of recent crises associated with suicides, homicides, and legal intervention deaths; and homicides and suicides in Puerto Rico. California collected data from death certificates for all NVDRS cases in the state in 2019; data for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo) also include information from coroner or medical examiner reports and law enforcement reports. Tables S1 and S3–S14 include data (death certificate, coroner or medical examiner, and law enforcement) from the 30 California counties listed above. Table S2 includes statewide data (death certificate only) from California. Tables S15–S20 include data from Puerto Rico.

**Table S1. Number,\* percentage, † and rate<sup>§</sup> of deaths, by incident type and manner of death - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	No. (%)	Rate
<b>Incident Type</b>		
Suicide, single	32,560 (64.6)	16.6
Homicide, single	11,331 (22.5)	5.1
Legal intervention,** single	690 (1.4)	0.3
Undetermined intent, single	4,452 (8.8)	2.0
Unintentional firearm, single	333 (<1.0)	0.1
Suicide, multiple	36 (<1.0)	††
Homicide, multiple	468 (<1.0)	††
Undetermined intent, multiple	20 (<1.0)	††
Legal intervention,** multiple	4 (<1.0)	††
Homicide followed by suicide	466 (<1.0)	††
Other combinations of deaths <sup>§§</sup>	14 (<1.0)	††
<b>Total</b>	<b>50,374 (100)</b>	<b>††</b>
<b>Manner of Death</b>		
Suicide, or intentional self-harm	33,109 (64.1)	16.9
Homicide	12,980 (25.1)	5.8
Undetermined intent	4,504 (8.7)	2.0
Legal intervention**	699 (1.4)	0.3
Unintentional firearm	335 (<1.0)	0.2
<b>Total</b>	<b>51,627 (100)</b>	<b>†††</b>

**Table S1. Number,\* percentage, † and rate<sup>§</sup> of deaths, by incident type and manner of death - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	No. (%)	Rate
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\* The Incident Type section reports the number of incidents, including multiple deaths resulting from injuries that are clearly linked by source documents and occur within 24 hours of each other (e.g., multiple homicides perpetrated by the same suspect within a 24-hour period). The Manner of Death section reports the number of deaths. Number of incidents = 50,374. Number of decedents = 51,627 (51,105 were victims of violence and 522 were both a victim and suspect [e.g., the person killed someone else and then died by suicide]).

† Percentages might not total 100% due to rounding.

§ Per 100,000 population.

¶ Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo). Denominators for the rates for these three states (Illinois, Pennsylvania, and California) represent only the populations of the counties from which the data were collected.

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

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

§§ Other combinations of deaths include any incident that does not fit into one of the other incident type categories (e.g., an incident with one suicide and one death of undetermined intent).

¶¶ 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,\* percentage, † and rate<sup>§</sup> of deaths, by incident type and manner of death - National Violent Death Reporting System, 42 states (California statewide) and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	No. (%)	Rate
<b>Incident Type</b>		
Suicide, single	34,581 (64.8)	16.4
Homicide, single	12,144 (22.8)	5.1
Legal intervention,** single	728 (1.4)	0.3
Undetermined intent, single	4,569 (8.6)	1.9
Unintentional firearm, single	335 (<1.0)	0.1
Suicide, multiple	36 (<1.0)	††
Homicide, multiple	468 (<1.0)	††

**Table S2. Number,\* percentage,<sup>†</sup> and rate<sup>§</sup> of deaths, by incident type and manner of death - National Violent Death Reporting System, 42 states (California statewide) and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	No. (%)	Rate
Undetermined intent, multiple	20 (<1.0)	††
Legal intervention,** multiple	4 (<1.0)	††
Homicide followed by suicide	468 (<1.0)	††
Other combinations of deaths <sup>§§</sup>	14 (<1.0)	††
<b>Total</b>	<b>53,367 (100)</b>	<b>††</b>
<b>Manner of Death</b>		
Suicide, or intentional self-harm	35,132 (64.3)	16.7
Homicide	13,793 (25.3)	5.8
Undetermined intent	4,621 (8.5)	1.9
Legal intervention**	737 (1.3)	0.3
Unintentional firearm	337 (<1.0)	0.1
<b>Total</b>	<b>54,620 (100)</b>	<b>¶¶</b>

\* The Incident Type section reports the number of incidents, including multiple deaths resulting from injuries that are clearly linked by source documents and occur within 24 hours of each other (e.g., multiple homicides perpetrated by the same suspect within a 24-hour period). The Manner of death section reports the number of deaths. Number of incidents = 53,367. Number of decedents = 54,620 (54,096 were victims of violence and 524 were both a victim and suspect [e.g., the person killed someone else and then died by suicide]).

† Percentages might not total 100% due to rounding.

§ Per 100,000 population.

¶ Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Denominators for the rates for Illinois and Pennsylvania represent only the populations of the counties from which the data were collected. Data for California represent counts of violent deaths that occurred statewide based on death certificate information only.

\*\* The term legal intervention does not denote the lawfulness or legality of the circumstances surrounding the death. †† Because the number of decedents varies in incidents involving multiple deaths, numerators cannot be determined to compute rates.

§§ Other combinations of deaths include any incident that does not fit into one of the other incident type categories (e.g., an incident with one suicide and one death of undetermined intent).

¶¶ 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 S3. Number and percentage\* of deaths, by method used and location in which injury occurred - National Violent Death Reporting System, 42 states and the District of Columbia, † 2019**

Characteristic	No. (%)
<b>Method</b>	
Firearm	27,318 (52.9)
Hanging/Strangulation/Suffocation	10,119 (19.6)
Poisoning	7,445 (14.4)
Sharp instrument	2,001 (3.9)
Fall	957 (1.9)
Motor vehicles (e.g., buses, motorcycles, other transport vehicles)	764 (1.5)
Blunt instrument	706 (1.4)
Drowning	528 (1.0)
Personal weapons (e.g., hands, feet, fists)	513 (<1.0)
Fire/Burns	284 (<1.0)
Intentional neglect	54 (<1.0)
Shaking (e.g., shaken baby syndrome)	44 (<1.0)
Other (e.g., taser, electrocution, nail gun)	131 (<1.0)
Unknown	763 (1.5)
<b>Total</b>	<b>51,627 (100)</b>
<b>Injury Location</b>	
House/Apartment	33,416 (64.7)
Street/Highway	4,037 (7.8)
Motor vehicle	3,273 (6.3)
Natural area	1,958 (3.8)
Parking lot/Public garage/Public transport	1,194 (2.3)
Hotel/Motel	1,071 (2.1)
Commercial/Retail area	739 (1.4)
Park/Playground/Sports or athletic area	686 (1.3)
Jail/Prison	559 (1.1)
Railroad tracks	324 (<1.0)
Supervised residential facility	306 (<1.0)
Bridge	278 (<1.0)

**Table S3. Number and percentage\* of deaths, by method used and location in which injury occurred - National Violent Death Reporting System, 42 states and the District of Columbia, † 2019**

<b>Characteristic</b>	<b>No. (%)</b>
Bar/Nightclub	223 (<1.0)
Hospital or medical facility	194 (<1.0)
Abandoned house/Building/Warehouse	189 (<1.0)
Industrial or construction area	159 (<1.0)
Farm	127 (<1.0)
Preschool/School/College/School bus	122 (<1.0)
Office building	113 (<1.0)
Cemetery/Graveyard/Other burial ground	97 (<1.0)
Synagogue/Church/Temple	54 (<1.0)
Other unspecified location	645 (1.2)
Unknown	1,863 (3.6)
<b>Total</b>	<b>51,627 (100)</b>

\* Percentages might not total 100% due to rounding.

† Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S4. Number, percentage,\* and rate<sup>†</sup> of deaths of undetermined intent,<sup>§</sup> by decedent sex, age group, race/ethnicity, method used, and location in which injury occurred - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Age Group (years)</b>						
<1	41 (1.4)	3.2	31 (2.0)	2.5	72 (1.6)	2.8
1-4	20 (<1.0)	0.4	15 (<1.0)	**	35 (<1.0)	0.3
5-9	13 (<1.0)	**	3 (<1.0)	**	16 (<1.0)	**
10-14	12 (<1.0)	**	5 (<1.0)	**	17 (<1.0)	**
15-19	63 (2.1)	0.9	24 (1.6)	0.3	87 (1.9)	0.6
20-24	179 (6.0)	2.4	74 (4.9)	1.0	253 (5.6)	1.7
25-29	289 (9.7)	3.6	114 (7.5)	1.5	403 (8.9)	2.5
30-34	332 (11.2)	4.4	169 (11.1)	2.3	501 (11.1)	3.3
35-44	637 (21.4)	4.5	283 (18.6)	2.0	920 (20.4)	3.3
45-54	561 (18.8)	4.1	330 (21.7)	2.4	891 (19.8)	3.2
55-64	574 (19.3)	4.1	310 (20.4)	2.1	884 (19.6)	3.0
65-74	185 (6.2)	1.8	96 (6.3)	0.8	281 (6.2)	1.3
75-84	42 (1.4)	0.9	43 (2.8)	0.7	85 (1.9)	0.8
≥85	26 (<1.0)	1.6	26 (1.7)	0.9	52 (1.2)	1.2
Unknown	3 (<1.0)	**	0 (0.0)	**	7 (<1.0)	**
<b>Race/Ethnicity</b>						
White, non-Hispanic	1,857 (62.4)	2.6	1,082 (71.0)	1.5	2,939 (65.3)	2.0
Black, non-Hispanic	813 (27.3)	5.8	331 (21.7)	2.2	1,144 (25.4)	3.9
American Indian/Alaska Native, non-Hispanic	49 (1.6)	4.4	25 (1.6)	2.2	74 (1.6)	3.3
Asian/Pacific Islander	47 (1.6)	0.7	25 (1.6)	0.4	72 (1.6)	0.5
Hispanic <sup>††</sup>	198 (6.7)	1.2	59 (3.9)	0.4	257 (5.7)	0.8
Other	11 (<1.0)	**	1 (<1.0)	**	16 (<1.0)	**
Unknown	2 (<1.0)	**	0 (0.0)	**	2 (<1.0)	**

**Table S4. Number, percentage,\* and rate<sup>†</sup> of deaths of undetermined intent,<sup>§</sup> by decedent sex, age group, race/ethnicity, method used, and location in which injury occurred - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Method</b>						
Poisoning	2,084 (70.0)	1.9	1,142 (75.0)	1.0	3,228 (71.7)	1.5
Drowning	147 (4.9)	0.1	40 (2.6)	<0.1	187 (4.2)	<0.1
Firearm	141 (4.7)	0.1	44 (2.9)	<0.1	185 (4.1)	<0.1
Fall	79 (2.7)	<0.1	39 (2.6)	<0.1	118 (2.6)	<0.1
Blunt instrument	85 (2.9)	<0.1	30 (2.0)	<0.1	115 (2.6)	<0.1
Motor vehicles (e.g., buses, motorcycles, other transport vehicles)	73 (2.5)	<0.1	25 (1.6)	<0.1	98 (2.2)	<0.1
Fire/Burns	62 (2.1)	<0.1	24 (1.6)	<0.1	86 (1.9)	<0.1
Hanging/Strangulation/Suffocation	52 (1.7)	<0.1	26 (1.7)	<0.1	78 (1.7)	<0.1
Sharp instrument	22 (<1.0)	<0.1	3 (<1.0)	**	25 (<1.0)	<0.1
Personal weapons (e.g., hands, feet, fists)	13 (<1.0)	**	7 (<1.0)	**	20 (<1.0)	<0.1
Intentional neglect	5 (<1.0)	**	4 (<1.0)	**	9 (<1.0)	**
Shaking (e.g., shaken baby syndrome)	0 (0.0)	**	2 (<1.0)	**	2 (<1.0)	**
Other (e.g., taser, electrocution, nail gun)	38 (1.3)	**	17 (1.1)	**	55 (1.2)	**
Unknown	176 (5.9)	**	120 (7.9)	**	298 (6.6)	**
<b>Location of Injury</b>						
House/Apartment	1,891 (63.5)	1.7	1,126 (73.9)	1.0	3,019 (67.0)	1.4
Natural area	199 (6.7)	0.2	37 (2.4)	<0.1	236 (5.2)	0.1
Street/Highway	143 (4.8)	0.1	45 (3.0)	<0.1	188 (4.2)	<0.1
Motor vehicle	117 (3.9)	0.1	46 (3.0)	<0.1	163 (3.6)	<0.1
Hotel/Motel	104 (3.5)	<0.1	51 (3.3)	<0.1	155 (3.4)	<0.1
Supervised residential facility	61 (2.0)	<0.1	32 (2.1)	<0.1	93 (2.1)	<0.1
Abandoned house/Building/Warehouse	55 (1.8)	<0.1	9 (<1.0)	**	64 (1.4)	<0.1



**Table S4. Number, percentage,\* and rate<sup>†</sup> of deaths of undetermined intent,<sup>§</sup> by decedent sex, age group, race/ethnicity, method used, and location in which injury occurred - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
Parking lot/Public garage/Public transport	44 (1.5)	<0.1	3 (<1.0)	**	47 (1.0)	<0.1
Hospital or medical facility	21 (<1.0)	<0.1	23 (1.5)	<0.1	44 (<1.0)	<0.1
Other location <sup>§§</sup>	160 (5.4)	**	44 (2.9)	**	204 (4.5)	**
Unknown	182 (6.1)	**	107 (7.0)	**	291 (6.5)	**
<b>Total</b>	<b>2,977 (100)</b>	<b>2.7</b>	<b>1,523 (100)</b>	<b>1.4</b>	<b>4,504 (100)</b>	<b>2.0</b>

\* Percentages might not total 100% due to rounding. Sex was unknown for n = 4 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> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo). Denominators for the rates for these three states (Illinois, Pennsylvania, and California) represent only the populations of the counties from which the data were collected.

\*\* Rates are 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): commercial/retail area, railroad tracks, park/playground/sports or athletic area, jail/prison, industrial or construction area, bridge, bar/nightclub, farm, office building, preschool/school/college/school bus, synagogue/church/temple, cemetery/graveyard/other burial ground, and other unspecified location.

**Table S5. Number\* and percentage of decedents of deaths of undetermined intent<sup>†</sup> tested for alcohol and drugs and whose results were positive,<sup>§</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

<b>Toxicology</b>	<b>Tested</b>	<b>Positive</b>
	<b>No. (%)</b>	<b>No. (%)</b>
Blood alcohol concentration**	3,449 (76.6)	1,139 (33.0)
Alcohol < 0.08 g/dL		368 (32.3)
Alcohol ≥ 0.08 g/dL		562 (49.3)
Alcohol positive - level unknown		209 (18.3)
Amphetamines	1,700 (37.7)	487 (28.6)

**Table S5. Number\* and percentage of decedents of deaths of undetermined intent<sup>†</sup> tested for alcohol and drugs and whose results were positive,<sup>§</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

<b>Toxicology</b>	<b>Tested</b>	<b>Positive</b>
	<b>No. (%)</b>	<b>No. (%)</b>
Anticonvulsants	1,280 (28.4)	345 (27.0)
Antidepressants	1,723 (38.3)	902 (52.4)
Antipsychotics	1,249 (27.7)	273 (21.9)
Barbiturates	1,397 (31.0)	42 (3.0)
Benzodiazepines	1,856 (41.2)	770 (41.5)
Carbon monoxide	315 (7.0)	119 (37.8)
Cocaine	2,256 (50.1)	974 (43.2)
Cannabis <sup>††</sup>	1,482 (32.9)	407 (27.5)
Muscle relaxants	1,189 (26.4)	147 (12.4)
Opioids	3,331 (74.0)	2,567 (77.1)
Other drugs/substances <sup>§§</sup>	623 (13.8)	596 (95.7)

\*Number of decedents of undetermined intent = 4,504.

<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> Percentage is of decedents tested for toxicology.

<sup>¶</sup> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

\*\* Blood alcohol concentration of ≥ 0.08 g/dL is over the legal limit in all states and the District of Columbia, and is used as the standard for intoxication.

<sup>††</sup> More commonly referred to as marijuana.

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

**Table S6. Number\* and percentage† of deaths of undetermined intent,§ by decedent sex and precipitating circumstances - National Violent Death Reporting System, 42 states and the District of Columbia,¶ 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Mental Health/Substance Use</b>			
Current diagnosed mental health problem**	727 (29.7)	594 (46.6)	1,321 (35.5)
Depression/Dysthymia	403 (55.4)	375 (63.1)	778 (58.9)
Anxiety disorder	174 (23.9)	200 (33.7)	374 (28.3)
Bipolar disorder	138 (19.0)	128 (21.5)	266 (20.1)
Schizophrenia	86 (11.8)	48 (8.1)	134 (10.1)
Posttraumatic stress disorder	51 (7.0)	24 (4.0)	75 (5.7)
Attention deficit disorder/attention deficit hyperactivity disorder	25 (3.4)	14 (2.4)	39 (3.0)
Dementia	8 (1.1)	7 (1.2)	15 (1.1)
Autism spectrum	3 (<1.0)	2 (<1.0)	5 (<1.0)
Obsessive compulsive disorder	2 (<1.0)	1 (<1.0)	3 (<1.0)
Eating disorder	1 (<1.0)	1 (<1.0)	2 (<1.0)
Other	49 (6.7)	31 (5.2)	80 (6.1)
Unknown	86 (11.8)	65 (10.9)	151 (11.4)
Substance use problem (excludes alcohol)	1,790 (73.2)	856 (67.1)	2,646 (71.1)
History of ever being treated for a mental health problem	714 (29.2)	485 (38.0)	1,199 (32.2)
Alcohol problem	686 (28.0)	274 (21.5)	960 (25.8)
Current mental health treatment	506 (20.7)	396 (31.1)	902 (24.2)
Current depressed mood	173 (7.1)	123 (9.6)	296 (8.0)
Other addiction (e.g., gambling, sexual)	22 (<1.0)	22 (1.7)	44 (1.2)
<b>Interpersonal</b>			
Intimate partner problem	112 (4.6)	71 (5.6)	183 (4.9)
Family relationship problem	82 (3.4)	59 (4.6)	141 (3.8)
Other death of family member or friend	61 (2.5)	43 (3.4)	104 (2.8)
Other relationship problem (non-intimate)	41 (1.7)	23 (1.8)	64 (1.7)
Victim of interpersonal violence during past month	11 (<1.0)	35 (2.7)	46 (1.2)
Perpetrator of interpersonal violence during past month	25 (1.0)	6 (<1.0)	31 (<1.0)

**Table S6. Number\* and percentage<sup>†</sup> of deaths of undetermined intent,<sup>§</sup> by decedent sex and precipitating circumstances - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
Suicide of family member or friend	9 (<1.0)	5 (<1.0)	14 (<1.0)
<b>Life Stressor</b>			
Physical health problem	228 (9.3)	175 (13.7)	403 (10.8)
Crisis during previous or upcoming 2 weeks	204 (8.3)	103 (8.1)	307 (8.2)
Argument or conflict	129 (5.3)	86 (6.7)	215 (5.8)
Recent criminal legal problem	72 (2.9)	13 (1.0)	85 (2.3)
Job problem	52 (2.1)	14 (1.1)	66 (1.8)
Financial problem	41 (1.7)	22 (1.7)	63 (1.7)
Physical fight (2 people, not a brawl)	47 (1.9)	13 (1.0)	60 (1.6)
Caretaker abuse/neglect led to suicide	23 (<1.0)	27 (2.1)	50 (1.3)
Eviction or loss of home	30 (1.2)	13 (1.0)	43 (1.2)
History of child abuse/neglect	10 (<1.0)	19 (1.5)	29 (<1.0)
Non-criminal legal problem	15 (<1.0)	13 (1.0)	28 (<1.0)
School problem	6 (<1.0)	1 (<1.0)	7 (<1.0)
Traumatic anniversary	3 (<1.0)	4 (<1.0)	7 (<1.0)
Exposure to disaster	2 (<1.0)	0 (0.0)	2 (<1.0)
<b>Crime and Criminal Activity</b>			
Precipitated by another crime	52 (2.1)	11 (<1.0)	63 (1.7)
Crime in progress <sup>††</sup>	24 (46.2)	6 (54.5)	30 (47.6)
<b>Suicide Event</b>			
History of suicidal thoughts or plans	254 (10.4)	147 (11.5)	401 (10.8)
History of suicide attempt(s)	151 (6.2)	130 (10.2)	281 (7.5)
Left a suicide note	28 (1.1)	23 (1.8)	51 (1.4)
<b>Suicide Disclosure</b>			
Disclosed suicidal intent	125 (5.1)	57 (4.5)	182 (4.9)
Disclosed intent to whom <sup>§§</sup>			
Other family member	42 (33.6)	19 (33.3)	61 (33.5)
Previous or current intimate partner	38 (30.4)	14 (24.6)	52 (28.6)

**Table S6. Number\* and percentage<sup>†</sup> of deaths of undetermined intent,<sup>§</sup> by decedent sex and precipitating circumstances - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
Friend/colleague	16 (12.8)	8 (14.0)	24 (13.2)
Health care worker	15 (12.0)	3 (5.3)	18 (9.9)
Neighbor	5 (4.0)	3 (5.3)	8 (4.4)
Through social media or other electronic means	1 (<1.0)	1 (1.8)	2 (1.1)
Other	12 (9.6)	6 (10.5)	18 (9.9)
Unknown	8 (6.4)	6 (10.5)	14 (7.7)
<b>Total<sup>¶¶</sup></b>	<b>2,447 (82.2)</b>	<b>1,275 (83.7)</b>	<b>3,722 (82.6)</b>

\* 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 sums of percentages in columns exceed 100% because more than one circumstance could have been present per decedent.

<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> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

\*\* 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. The sum of percentages exceed 100% because more than one response could have been present per decedent.

<sup>¶¶</sup> Circumstances were unknown for 782 decedents (530 males, 248 females, and 4 unknown). Total number of deaths of undetermined intent = 4,504 (2,977 males, 1,523 females, and 4 unknown).

**Table S7. Number\* and percentage† of decedents of deaths of undetermined intent§ who experienced a recent crisis, by decedent sex and type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,¶ 2019**

Type of Crisis	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>204 (100)</b>	<b>103 (100)</b>	<b>307 (100)</b>
Other substance use problem (excludes alcohol)	46 (22.5)	20 (19.4)	66 (21.5)
Intimate partner problem	40 (19.6)	20 (19.4)	60 (19.5)
Contributing physical health problem	31 (15.2)	28 (27.2)	59 (19.2)
Alcohol problem	26 (12.7)	17 (16.5)	43 (14.0)
Family relationship problem	18 (8.8)	8 (7.8)	26 (8.5)
Contributing criminal legal problem	21 (10.3)	3 (2.9)	24 (7.8)
Eviction or loss of home	13 (6.4)	7 (6.8)	20 (6.5)
Current diagnosed mental health problem	11 (5.4)	5 (4.9)	16 (5.2)
Other death of friend or family	9 (4.4)	6 (5.8)	15 (4.9)
Other relationship problem (non-intimate)	8 (3.9)	3 (2.9)	11 (3.6)
Job problem	9 (4.4)	1 (<1.0)	10 (3.3)

**Table S7. Number\* and percentage<sup>†</sup> of decedents of deaths of undetermined intent<sup>§</sup> who experienced a recent crisis, by decedent sex and type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Type of Crisis	Male	Female	Total
	No. (%)	No. (%)	No. (%)
Civil/Legal problems	5 (2.5)	3 (2.9)	8 (2.6)
Financial problem	4 (2.0)	3 (2.9)	7 (2.3)
Other addiction (e.g., gambling, sexual)	0 (0.0)	2 (1.9)	2 (<1.0)
School problem	1 (<1.0)	0 (0.0)	1 (<1.0)
Suicide of friend or family	1 (<1.0)	0 (0.0)	1 (<1.0)
Disaster exposure	1 (<1.0)	0 (0.0)	1 (<1.0)
Other crisis	6 (2.9)	2 (1.9)	8 (2.6)

\* Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sums of the columns 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.

<sup>¶</sup> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S8. Number\* and percentage<sup>†</sup> of suicide decedents who experienced a recent crisis, by decedent sex and type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Type of Crisis	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>6,459 (100)</b>	<b>1,571 (100)</b>	<b>8,030 (100)</b>
Intimate partner problem	2,745 (42.5)	625 (39.8)	3,370 (42.0)
Contributing physical health problem	1,010 (15.6)	211 (13.4)	1,221 (15.2)
Contributing criminal legal problem	928 (14.4)	87 (5.5)	1,015 (12.6)



**Table S8. Number\* and percentage<sup>†</sup> of suicide decedents who experienced a recent crisis, by decedent sex and type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Type of Crisis	Male	Female	Total
	No. (%)	No. (%)	No. (%)
Job problem	521 (8.1)	118 (7.5)	639 (8.0)
Family relationship problem	442 (6.8)	152 (9.7)	594 (7.4)
Alcohol problem	453 (7.0)	113 (7.2)	566 (7.0)
Current diagnosed mental health problem	398 (6.2)	161 (10.2)	559 (7.0)
Eviction or loss of home	314 (4.9)	105 (6.7)	419 (5.2)
Financial problem	322 (5.0)	69 (4.4)	391 (4.9)
Civil/Legal problems	250 (3.9)	71 (4.5)	321 (4.0)
Other substance use problem (excludes alcohol)	223 (3.5)	67 (4.3)	290 (3.6)
Other death of friend or family	215 (3.3)	73 (4.6)	288 (3.6)
Other relationship problem (non-intimate)	111 (1.7)	33 (2.1)	144 (1.8)
School problem	81 (1.3)	30 (1.9)	111 (1.4)
Suicide of friend or family	59 (<1.0)	28 (1.8)	87 (1.1)
Other addiction (e.g., gambling, sexual)	15 (<1.0)	7 (<1.0)	22 (<1.0)
Disaster exposure	3 (<1.0)	1 (<1.0)	4 (<1.0)
Other crisis	76 (1.2)	17 (1.1)	93 (1.2)

\* Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sums of the columns 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> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S9. Number\* and percentage of homicide decedents tested for alcohol and drugs and whose results were positive,<sup>†</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

<b>Toxicology</b>	<b>Tested</b>	<b>Positive</b>
	<b>No. (%)</b>	<b>No. (%)</b>
Blood alcohol concentration <sup>¶</sup>	8,370 (64.5)	2,987 (35.7)
Alcohol < 0.08 g/dL		1,084 (36.3)
Alcohol ≥ 0.08 g/dL		1,642 (55.0)
Alcohol positive - level unknown		261 (8.7)
Amphetamines	6,741 (51.9)	1,689 (25.1)
Anticonvulsants	2,752 (21.2)	245 (8.9)
Antidepressants	3,392 (26.1)	265 (7.8)
Antipsychotics	2,772 (21.4)	71 (2.6)
Barbiturates	5,527 (42.6)	53 (1.0)
Benzodiazepines	6,000 (46.2)	675 (11.3)
Carbon monoxide	416 (3.2)	88 (21.2)
Cocaine	6,692 (51.6)	1,075 (16.1)
Cannabis**	6,570 (50.6)	3,460 (52.7)
Muscle relaxants	3,110 (24.0)	57 (1.8)
Opioids	6,946 (53.5)	1,521 (21.9)
Other drugs/substances <sup>**</sup>	1,120 (8.6)	1,057 (94.4)

**Table S9. Number\* and percentage of homicide decedents tested for alcohol and drugs and whose results were positive,<sup>†</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Toxicology	Tested	Positive
	No. (%)	No. (%)

\* Number of homicide decedents = 12,980.

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

<sup>§</sup> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

<sup>†</sup> Blood alcohol concentration of ≥ 0.08 g/dL is over the legal limit in all states and the District of Columbia, and is used as the standard for intoxication.

\*\* More commonly referred to as marijuana.

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

**Table S10. Number\* and percentage<sup>†</sup> of homicides precipitated by another crime, by type of crime - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Type of Crime	No. (%)
<b>Precipitated by another crime</b>	<b>2,384 (100.0)</b>
Assault/Homicide	955 (40.1)
Robbery	861 (36.1)
Drug trade	318 (13.3)
Burglary	312 (13.1)
Motor vehicle theft	111 (4.7)
Rape/Sexual assault	77 (3.2)
Arson	41 (1.7)
Witness intimidation/elimination	15 (<1.0)
Gambling	8 (<1.0)
Other crime	242 (10.2)
Unknown	34 (1.4)

**Table S10. Number\* and percentage<sup>†</sup> of homicides precipitated by another crime, by type of crime - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Type of Crime	No. (%)
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\* 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 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> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S11. Number\* and percentage<sup>†</sup> of homicide decedents who experienced a recent crisis, by decedent sex and type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>§</sup> 2019**

Type of Crisis	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>339 (100)</b>	<b>175 (100)</b>	<b>514 (100)</b>
Family relationship problem	138 (40.7)	63 (36.0)	201 (39.1)
Other relationship problem (non-intimate)	116 (34.2)	21 (12.0)	137 (26.7)
Jealousy (lovers' triangle)	60 (17.7)	33 (18.9)	93 (18.1)
Intimate partner problem	7 (2.1)	25 (14.3)	32 (6.2)
Other substance use problem (excludes alcohol)	17 (5.0)	9 (5.1)	26 (5.1)
Stalking	8 (2.4)	16 (9.1)	24 (4.7)
Alcohol problem	9 (2.7)	4 (2.3)	13 (2.5)
Prostitution	5 (1.5)	6 (3.4)	11 (2.1)
Current diagnosed mental health problem	1 (<1.0)	2 (1.1)	3 (<1.0)
Other addiction (e.g., gambling, sexual)	0 (0.0)	0 (0.0)	0 (0.0)
Contributing criminal legal problem	0 (0.0)	0 (0.0)	0 (0.0)
Other crisis	4 (1.2)	4 (2.3)	8 (1.6)

\* Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Numbers will not equal the sums of the columns 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> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S12. Number\* and percentage of legal intervention<sup>†</sup> decedents tested for alcohol and drugs and whose results were positive,<sup>§</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

<b>Toxicology</b>	<b>Tested</b>	<b>Positive</b>
	<b>No. (%)</b>	<b>No. (%)</b>
Blood alcohol concentration**	494 (70.7)	198 (40.1)
Alcohol < 0.08 g/dL		50 (25.3)
Alcohol ≥ 0.08 g/dL		129 (65.2)
Alcohol positive - level unknown		19 (9.6)
Amphetamines	453 (64.8)	233 (51.4)
Anticonvulsants	205 (29.3)	17 (8.3)
Antidepressants	284 (40.6)	46 (16.2)
Antipsychotics	223 (31.9)	11 (4.9)
Barbiturates	345 (49.4)	4 (1.2)
Benzodiazepines	421 (60.2)	59 (14.0)
Carbon monoxide	18 (2.6)	0 (0.0)
Cocaine	426 (60.9)	53 (12.4)
Cannabis <sup>††</sup>	385 (55.1)	198 (51.4)
Muscle relaxants	218 (31.2)	9 (4.1)
Opioids	439 (62.8)	82 (18.7)
Other drugs/substances <sup>§§</sup>	96 (13.7)	90 (93.8)

**Table S12. Number\* and percentage of legal intervention<sup>†</sup> decedents tested for alcohol and drugs and whose results were positive,<sup>§</sup> by toxicology - National Violent Death Reporting System, 42 states and the District of Columbia,<sup>¶</sup> 2019**

Toxicology	Tested	Positive
	No. (%)	No. (%)

\* Number of legal intervention decedents = 699.

<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.

<sup>¶</sup> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

\*\* Blood alcohol concentration of ≥ 0.08 g/dL is over the legal limit in all states and the District of Columbia, and is used as the standard for intoxication.

<sup>††</sup> More commonly referred to as marijuana.

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

**Table S13. Number and percentage\* of legal intervention<sup>†</sup> deaths precipitated by another crime, by type of crime - National Violent Death Reporting System, 42 states and the District of Columbia<sup>§</sup>, 2019**

Type of Crime	No. (%)
<b>Precipitated by another crime</b>	<b>514 (100.0)</b>
Assault/Homicide	325 (63.2)
Robbery	56 (10.9)
Motor vehicle theft	39 (7.6)
Burglary	23 (4.5)
Rape/Sexual assault	13 (2.5)
Drug trade	9 (1.8)
Arson	4 (<1.0)
Witness intimidation/elimination	1 (<1.0)
Other crime	177 (34.4)
Unknown	29 (5.6)

**Table S13. Number and percentage\* of legal intervention<sup>†</sup> deaths precipitated by another crime, by type of crime - National Violent Death Reporting System, 42 states and the District of Columbia<sup>§</sup>, 2019**

Type of Crime	No. (%)
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\* 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.

<sup>§</sup> Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).



**Table S14. Number\* and percentage<sup>†</sup> of males<sup>§</sup> who died by legal intervention<sup>¶</sup> and experienced a recent crisis, by type of crisis circumstance - National Violent Death Reporting System, 42 states and the District of Columbia,\*\* 2019**

Type of Crisis	No. (%)
<b>Crisis during previous or upcoming 2 weeks</b>	<b>48 (100)</b>
Family relationship problem	10 (20.8)
Intimate partner problem	10 (20.8)
Alcohol problem	8 (16.7)
Current diagnosed mental health problem	6 (12.5)
Other relationship problem (non-intimate)	5 (10.4)
Contributing criminal legal problem	4 (8.3)
Stalking	3 (6.3)
Other substance use problem (excludes alcohol)	2 (4.2)
Jealousy (lovers' triangle)	1 (2.1)

\* Includes decedents who experienced one or more crises during the previous or upcoming two weeks. Number 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.

\*\* Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Illinois and Pennsylvania collected data on ≥80% of violent deaths in their state, in accordance with requirements under which these states were funded. Data for Illinois are for violent deaths that occurred in 47 counties (Adams, Alexander, Bond, Boone, Brown, Bureau, Champaign, Clay, Cook, DeKalb, Douglas, DuPage, Effingham, Fayette, Fulton, Grundy, Henry, Iroquois, Jackson, Jefferson, Kane, Kankakee, Kendall, Lake, LaSalle, Livingston, Logan, McDonough, McHenry, McLean, Macoupin, Madison, Menard, Peoria, Perry, Piatt, Putnam, Rock Island, St. Clair, Sangamon, Schuyler, Stark, Tazewell, Vermilion, Wayne, Will, and Winn). Data for Pennsylvania are for violent deaths that occurred in 40 counties (Adams, Allegheny, Armstrong, Berks, Blair, Bradford, Bucks, Cameron, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Dauphin, Delaware, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lackawanna, Lancaster, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Schuylkill, Somerset, Sullivan, Susquehanna, Union, Westmoreland, Wyoming, and York). Data for California are for violent deaths that occurred in 30 counties (Amador, Butte, Colusa, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lassen, Lake, Los Angeles, Marin, Modoc, Mono, Orange, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Tehama, Trinity, Ventura, and Yolo).

**Table S15. Number, percentage,\* and rate<sup>†</sup> of homicides, by decedent sex, age group, race/ethnicity, method used, location in which injury occurred, and victim-to-suspect relationship - National Violent Death Reporting System, Puerto Rico, 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Age Group (years)</b>						
<1-17	17 (2.9)	§	¶	§	¶	§
18-29	265 (44.8)	100.3	12 (29.3)	§	277 (43.8)	53.0
30-44	202 (34.2)	73.9	20 (48.8)	6.7	222 (35.1)	38.7
45-64	89 (15.1)	22.7	¶	§	¶	§
≥65	15 (2.5)	§	¶	§	¶	§
Unknown	¶	§	0 (0.0)	§	¶	§
<b>Race/Ethnicity</b>						
White, non-Hispanic	17 (2.9)	**	¶	**	¶	**
Black, non-Hispanic	¶	**	0 (0.0)	**	¶	**
American Indian/Alaska Native, non-Hispanic	0 (0.0)	**	0 (0.0)	**	0 (0.0)	**
Asian/Pacific Islander	0 (0.0)	**	0 (0.0)	**	¶	**
Hispanic <sup>††</sup>	569 (96.3)	**	38 (92.7)	**	607 (96.0)	**
Other	¶	**	¶	**	¶	**
Unknown	0 (0.0)	**	0 (0.0)	**	0 (0.0)	**
<b>Method</b>						
Firearm	547 (92.6)	36.1	28 (68.3)	1.7	575 (91.0)	18.0
Sharp instrument	18 (3.0)	§	¶	§	¶	§
Personal weapons (e.g., hands, feet, fists)	¶	§	¶	§	11 (1.7)	§
Other method <sup>§§</sup>	14 (2.4)	§	¶	§	¶	§
Unknown	¶	§	¶	§	¶	§
<b>Location of Injury</b>						
Street/Highway	285 (48.2)	18.8	10 (24.4)	§	295 (46.7)	9.2
Motor vehicle	141 (23.9)	9.3	¶	§	¶	§
House/Apartment	58 (9.8)	3.8	18 (43.9)	§	76 (12.0)	2.4

**Table S15. Number, percentage,\* and rate<sup>†</sup> of homicides, by decedent sex, age group, race/ethnicity, method used, location in which injury occurred, and victim-to-suspect relationship - National Violent Death Reporting System, Puerto Rico, 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
Commercial/Retail area	23 (3.9)	1.5	¶	§	¶	§
Bar/Nightclub	15 (2.5)	§	¶	§	¶	§
Other location¶¶	64 (10.8)	4.2	¶	§	¶	§
Unknown	¶	§	0 (0.0)	§	¶	§
<b>Relationship of Victim to Suspect***</b>						
Other person, known to victim	116 (53.0)	§	¶	§	¶	§
Stranger	35 (16.0)	2.3	¶	§	¶	§
Acquaintance/Friend	29 (13.2)	1.9	0 (0.0)	§	29 (11.9)	0.9
Rival gang member	26 (11.9)	1.7	¶	§	¶	§
Spouse/Intimate partner (current or former)	¶	§	14 (58.3)	§	¶	§
Other relationship†††	11 (5.0)	§	¶	§	¶	§
<b>Total</b>	<b>591 (100)</b>	<b>39.0</b>	<b>41 (100)</b>	<b>2.4</b>	<b>632 (100)</b>	<b>19.8</b>

\* Percentages might not total 100% due to rounding.

† Per 100,000 population.

§ Rates are not reported when number of decedents is <20 or when characteristic response is "Other" or "Unknown."

¶ Number of deaths <10; number is not reported to retain confidentiality.

\*\* Rates by race/ethnicity are not provided because U.S. Census information for Puerto Rico is limited.

†† Includes persons of any race.

§§ Other method includes (in descending order): fire/burns, blunt instrument, hanging/strangulation/ suffocation, fall, other (single method).

¶¶ Other location includes (in descending order): natural area, parking lot/public garage/public transport, park/playground/sports or athletic area, jail/prison, abandoned house/building/warehouse, bridge, farm, and other unspecified location.

\*\*\* Percentage is based on the number of homicide decedents with a known victim-to-suspect relationship (n = 243 [38.4%]; 219 [37.1%] males and 24 [58.5%] females); victim-to-suspect relationship was unknown for 389 decedents.

††† Other relationship includes (in descending order): parent, other relative, child, victim was law enforcement officer injured in the line of duty, victim injured by a law enforcement officer.

**Table S16. Number\* and percentage<sup>†</sup> of homicide decedents tested for alcohol and drugs and whose results were positive, by toxicology - National Violent Death Reporting System, Puerto Rico, 2019**

Toxicology variable	Tested	Positive
	No. (%)	No. (%)
Blood alcohol concentration <sup>§</sup>	628 (99.4)	205 (32.6)
Alcohol < 0.08 g/dL		111 (54.1)
Alcohol ≥ 0.08 g/dL		94 (45.9)
Alcohol positive - level unknown		0 (0.0)
Barbiturates	¶	¶
Benzodiazepines	¶	¶
Carbon monoxide	17 (2.7)	¶
Cocaine	629 (99.5)	79 (12.6)
Cannabis**	389 (61.6)	86 (22.1)
Opioids	628 (99.4)	21 (3.3)
Other drugs/substances <sup>††</sup>	¶	¶

\* Number of homicide decedents = 632.

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

<sup>§</sup> Blood alcohol concentration of ≥ 0.08 g/dL is over the legal limit in Puerto Rico, and is used as the standard for intoxication.

¶ Number of deaths <10; number is not reported to retain confidentiality.

\*\* More commonly referred to as marijuana.

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

**Table S17. Number\* and percentage<sup>†</sup> of homicides, by decedent sex and precipitating circumstances - National Violent Death Reporting System, Puerto Rico, 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Mental Health/Substance Use</b>			
Substance use problem (excludes alcohol)	92 (16.8)	§	§
Current diagnosed mental health problem	36 (6.6)	§	§
Current depressed mood	27 (4.9)	§	§
Alcohol problem	14 (2.6)	§	§
History of ever being treated for a mental health problem	16 (2.9)	§	§

**Table S17. Number\* and percentage<sup>†</sup> of homicides, by decedent sex and precipitating circumstances - National Violent Death Reporting System, Puerto Rico, 2019**

	<b>Male</b>	<b>Female</b>	<b>Total</b>
<b>Precipitating Circumstances</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>
Current mental health treatment	14 (2.6)	§	§
<b>Interpersonal</b>			
Intimate partner violence-related	25 (4.6)	17 (42.5)	42 (7.2)
Other relationship problem (non-intimate)	26 (4.8)	§	§
Jealousy (lovers' triangle)	19 (3.5)	§	§
Family relationship problem	§	§	§
<b>Life Stressor</b>			
Argument or conflict	92 (16.8)	§	101 (17.2)
Physical fight (2 people, not a brawl)	24 (4.4)	§	§
<b>Crime and Criminal Activity</b>			
Drug involvement	295 (53.9)	§	§
Gang-related	221 (40.4)	§	§
Precipitated by another crime	58 (10.6)	§	§
Crime in progress <sup>¶</sup>	33 (56.9)	§	§
<b>Homicide Event</b>			
Drive-by shooting	123 (22.5)	§	§
Victim was a bystander	17 (3.1)	§	§
Walk by assault	§	0 (0.0)	§
Justifiable self defense	§	0 (0.0)	§
<b>Total**</b>			
	<b>547 (92.6)</b>	<b>40 (97.6)</b>	<b>587 (92.9)</b>

\* Includes homicides with one or more precipitating circumstances. Total numbers do not equal the sums of the columns because more than one circumstance could have been present per decedent.

<sup>†</sup> Denominator includes those homicides with one or more precipitating circumstances. The sums of percentages in columns exceed 100% because more than one circumstance could have been present per decedent.

<sup>§</sup> Number of deaths <10; number is not reported to retain confidentiality.

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

\*\* Circumstances were unknown for 45 decedents (44 males); total number of homicide decedents = 632 (591 males and 41 females).

**Table S18. Number, percentage,\* and rate<sup>†</sup> of suicides among persons aged ≥10 years,<sup>§</sup> by decedent sex, age group, race/ethnicity, method used, and location in which injury occurred - National Violent Death Reporting System, Puerto Rico, 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Age Group (years)</b>						
10-17	¶	**	¶	**	¶	**
18-29	19 (10.3)	**	¶	**	¶	**
30-44	38 (20.5)	13.9	13 (29.5)	**	51 (22.3)	8.9
45-64	75 (40.5)	19.2	17 (38.6)	**	92 (40.2)	10.9
≥65	51 (27.6)	17.3	¶	**	¶	**
Unknown	0 (0.0)	**	0 (0.0)	**	0 (0.0)	**
<b>Race/Ethnicity</b>						
White, non-Hispanic	¶	††	¶	††	¶	††
Black, non-Hispanic	¶	††	0 (0.0)	††	¶	††
American Indian/Alaska Native, non-Hispanic	0 (0.0)	††	0 (0.0)	††	0 (0.0)	††
Asian/Pacific Islander	0 (0.0)	††	0 (0.0)	††	0 (0.0)	††
Hispanic <sup>§§</sup>	177 (95.7)	††	39 (88.6)	††	216 (94.3)	††
Other	¶	††	0 (0.0)	††	¶	††
Unknown	0 (0.0)	††	0 (0.0)	††	0 (0.0)	††
<b>Method</b>						
Hanging/Strangulation/Suffocation	129 (69.7)	9.4	27 (61.4)	1.8	156 (68.1)	5.4
Firearm	32 (17.3)	2.3	¶	**	¶	**
Poisoning	10 (5.4)	**	11 (25.0)	**	¶	**
Fall	¶	**	¶	**	¶	**
Other method <sup>¶¶</sup>	¶	**	¶	**	¶	**
Unknown	¶	**	0 (0.0)	**	¶	**
<b>Location of Injury</b>						
House/Apartment	153 (82.7)	11.1	39 (88.6)	2.5	192 (83.8)	6.6
Natural area	¶	**	¶	**	10 (4.4)	**
Other location <sup>***</sup>	24 (13.0)	1.7	¶	**	¶	**
Unknown	0 (0.0)	**	¶	**	¶	**

**Table S18. Number, percentage,\* and rate<sup>†</sup> of suicides among persons aged ≥10 years,<sup>§</sup> by decedent sex, age group, race/ethnicity, method used, and location in which injury occurred - National Violent Death Reporting System, Puerto Rico, 2019**

Characteristic	Male		Female		Total	
	No. (%)	Rate	No. (%)	Rate	No. (%)	Rate
<b>Total</b>	<b>185 (100)</b>	<b>13.5</b>	<b>44 (100)</b>	<b>2.9</b>	<b>229 (100)</b>	<b>7.9</b>

\* Percentages might not total 100% due to rounding.

<sup>†</sup> Per 100,000 population.

<sup>§</sup> Suicide is not reported for decedents aged <10 years, as per standard in the suicide prevention literature. Denominators for the suicide rates represent the total population aged ≥10 years.

<sup>¶</sup> Number of deaths <10; number is not reported to retain confidentiality.

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

<sup>††</sup> Rates by race/ethnicity are not provided because U.S. Census information for Puerto Rico is limited.

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

<sup>¶¶</sup> Other method includes (in descending order): sharp instrument, drowning, fire/burns, other (single method).

<sup>\*\*\*</sup> Other location includes (in descending order): motor vehicle, street/highway, jail/prison, supervised residential facility, bridge, park/playground/sports or athletic area, commercial/retail area, farm, hospital or medical facility, hotel/motel, parking lot/public garage/public transport, and other unspecified location.

**Table S19. Number\* and percentage<sup>†</sup> of suicide decedents tested for alcohol and drugs and whose results were positive, by toxicology - National Violent Death Reporting System, Puerto Rico, 2019**

Toxicology variable	Tested	Positive
	No. (%)	No. (%)
Blood alcohol concentration <sup>§</sup>	226 (98.7)	70 (31.0)
Alcohol < 0.08 g/dL		37 (52.9)
Alcohol ≥ 0.08 g/dL		31 (44.3)
Alcohol positive - level unknown		¶
Barbiturates	¶	¶
Benzodiazepines	15 (6.6)	¶
Carbon monoxide	¶	¶
Cocaine	227 (99.1)	23 (10.1)
Cannabis**	116 (50.7)	¶
Muscle relaxants	¶	¶
Opioids	227 (99.1)	¶
Other drugs/substances <sup>††</sup>	¶	¶

\* Number of suicide decedents = 229.

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

<sup>§</sup> Blood alcohol concentration of ≥ 0.08 g/dL is over the legal limit in Puerto Rico, and is used as the standard for intoxication.

¶ Number of deaths <10; number is not reported to retain confidentiality.

\*\* More commonly referred to as marijuana.

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



**Table S20. Number\* and percentage<sup>†</sup> of suicides among persons aged ≥10 years,<sup>§</sup> by decedent sex and precipitating circumstances - National Violent Death Reporting System, Puerto Rico, 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
<b>Mental Health/Substance Use</b>			
Current depressed mood	67 (40.4)	15 (35.7)	82 (39.4)
Current diagnosed mental health problem <sup>¶</sup>	84 (50.6)	33 (78.6)	117 (56.3)
Depression/Dysthymia	58 (69.0)	26 (78.8)	84 (71.8)
Schizophrenia	20 (23.8)	**	**
Bipolar disorder	11 (13.1)	**	**
Anxiety disorder	**	**	**
Posttraumatic stress disorder	**	**	**
Other	**	**	**
Unknown	**	**	**
History of ever being treated for a mental health problem	58 (34.9)	24 (57.1)	82 (39.4)
Current mental health treatment	47 (28.3)	20 (47.6)	67 (32.2)
Alcohol problem	24 (14.5)	**	**
Substance use problem (excludes alcohol)	21 (12.7)	**	**
<b>Interpersonal</b>			
Intimate partner problem	24 (14.5)	**	**
Family relationship problem	**	**	**
Other death of family member or friend	**	**	**
Suicide of family member or friend	**	**	**
<b>Life Stressor</b>			
Physical health problem	23 (13.9)	**	**
Financial problem	11 (6.6)	**	**

**Table S20. Number\* and percentage<sup>†</sup> of suicides among persons aged ≥10 years,<sup>§</sup> by decedent sex and precipitating circumstances - National Violent Death Reporting System, Puerto Rico, 2019**

Precipitating Circumstances	Male	Female	Total
	No. (%)	No. (%)	No. (%)
Crisis during previous or upcoming 2 weeks	**	**	11 (5.3)
Argument or conflict	**	**	11 (5.3)
Job problem	**	**	**
Exposure to disaster	**	**	**
<b>Crime and Criminal Activity</b>			
Precipitated by another crime	**	0 (0.0)	**
<b>Suicide Event</b>			
History of suicide attempt(s)	62 (37.3)	13 (31.0)	75 (36.1)
History of suicidal thoughts or plans	48 (28.9)	11 (26.2)	59 (28.4)
Left a suicide note	25 (15.1)	**	**
<b>Suicide Disclosure</b>			
Disclosed suicidal intent	17 (10.2)	**	**
Disclosed intent to whom <sup>††</sup>			
Other family member	10 (58.8)	**	**
Previous or current intimate partner	**	**	**
<b>Total<sup>§§</sup></b>			
	<b>166 (89.7)</b>	<b>42 (95.5)</b>	<b>208 (90.8)</b>

\* Includes suicides with one or more precipitating circumstances. More than one circumstance could have been present per decedent.

<sup>†</sup> Denominator includes those suicides with one or more precipitating circumstances. The sums of percentages in columns exceed 100% because more than one circumstance could have been present per decedent.

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

<sup>¶</sup> Includes decedents with one or more diagnosed current mental health problems; therefore, sums of percentages for the diagnosed conditions exceed 100%. Denominator includes the number of decedents with one or more current diagnosed mental health problems.

\*\* Number of deaths <10; number is not reported to retain confidentiality.

<sup>††</sup> Denominator includes decedents who disclosed intent.

<sup>§§</sup> Circumstances were unknown for 21 decedents (19 male, 2 female); total number of suicide decedents = 229 (185 males and 44 females).