

Gun Violence in the United States 2022

Examining the Burden Among Children & Teens



About This Report

About the Johns Hopkins Center for Gun Violence Solutions

The Johns Hopkins Center for Gun Violence Solutions combines the expertise of highly respected gun violence researchers with the skills of deeply experienced gun violence prevention advocates. We use a public health approach to conduct rigorous scientific research to identify a range of innovative solutions to gun violence. Because gun violence disproportionately impacts communities of color, we ground our work in equity and seek insights from those most impacted on appropriate solutions. Using the best available science, our Center works toward expanding evidence-based advocacy and policy-making efforts. This combination of expertise creates a unique opportunity to turn public health research into action that reduces deaths and injuries from gun violence.

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Data Source

This report outlines gun death data from 2022, the most recent year of finalized data available. All data were accessed using the Centers for Disease Control's Underlying Cause of Death database, part of the Wide-ranging Online Data for Epidemiologic Research (WONDER) database. The Underlying Cause of Death database contains data based on death certificates for U.S. residents and is the most reliable national source of gun death data available in the U.S. The gun death data used from this database depicts injury mortality by intent using the following categories: homicide, suicide, unintentional, legal intervention, and undetermined. Rates are calculated by the residence listed of decedent, not where the shooting actually took place.

For simplification purposes, we created the following age categories to examine gun violence centered on youth: children (ages 1–9) and teens (10–17). For smaller, specific age ranges, we created the following categories: older teens (15–17) and emerging adults (17–19).

Table of Contents

Introduction.....	1
2022 Five Fast Facts.....	2
An Overview of U.S. Gun Deaths in 2022.....	3
The Burden of Gun Violence on Children and Teens	6
The Leading Cause of Death Among Young People.....	6
Youth Gun Deaths by Age and Intent	8
Trends Over Time.....	9
Racial Disparities in Gun Deaths Over Time	10
Gun Violence Among Emerging Adults (Ages 18–19)	12
Youth Gun Violence by State	13
Youth Gun Violence by Urbanization.....	14
Public Health Spotlight	15
Policy Recommendations.....	16
Glossary.....	18
References.....	20

Introduction

Over 48,000 people died from gun violence in the U.S. in 2022. **Each day, an average of 132 people died from gun violence—one death every 11 minutes.**

In this year’s report we examined gun violence among children and teens (1–17) and emerging adults (18–19). We made this distinction considering some states allow 18-year-olds to legally purchase and possess certain types of firearms. Since 2013, the gun death rate among children and teens (1–17) has increased 106%. **Guns were the leading cause of death among children and teens accounting for more deaths than car crashes, overdoses, or cancers.**¹

We recognize that each data point discussed in this report is a person who died by gun violence. This loss has an immeasurable impact on families, friends, and communities; data can only partly illuminate the true burden of gun violence. In addition to analyzing the data, we must listen to and uplift the voices of those directly impacted by gun violence, their loved ones, and their communities.

Each year, it is our mission to provide policymakers and the public accurate and up-to-date data on gun fatalities and illustrate the enormous toll gun violence has on our country. This report is an update of “[U.S. Gun Violence in 2021: An Accounting of a Public Health Crisis](#).” It uses firearm mortality data listed on death certificates that are provided to the Centers for Disease Control and Prevention (CDC) and made available through the CDC WONDER Underlying Cause of Death database. The finalized data for 2022 was made available in April 2024.² The substantial lag in data availability makes it challenging to understand the burden of gun violence in real time; however, understanding the magnitude of this issue, even with the time lag, is essential to inform public health interventions to reduce violence.

While the burden of gun violence in the U.S. remains high, there are evidence based, equitable solutions to prevent gun violence. These solutions are supported by most people, including gun owners.³ In spite of this wide support, many policymakers have been unwilling to heed the evidence and enact policies that will save lives.

In 2022, someone was killed by a gun every 11 minutes



Firearms were the leading cause of death for children and teens (ages 1 - 17)



an average of 7 young people dying every day

Firearms accounted for 30% of all the deaths that occurred among individuals ages 15-17



2022 Five Fast Facts

FOR GUN FATALITIES IN THE U.S.

1

48,204

PEOPLE DIED FROM FIREARMS IN THE U.S.
The second-highest total ever recorded



Someone was killed by a gun every 11 minutes

2

27,032

PEOPLE DIED BY FIREARM SUICIDE
The highest number ever recorded



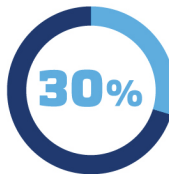
There were 704 more gun suicides in 2022 compared to 2021

3

Firearms were the leading cause of death for children and teens (ages 1-17)

2,526 CHILDREN & TEENS DIED BY A FIREARM

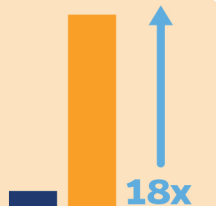
1 an average of **7 young people** dying every day



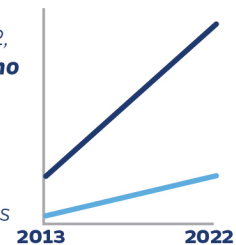
Firearms accounted for **30%** of all the deaths that occurred among individuals ages 15-17

4

Black children and teens had a homicide death rate over 18 times higher than their white peers



From 2013 to 2022, the **Hispanic/Latino** firearm death rate increased over twice as much as the rate for their **white** counterparts



5

Since 2013...

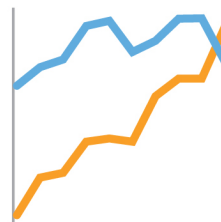
The rate of **Black youth** gun suicide has tripled

x3

The **Hispanic/Latino youth** gun death rate has doubled

x2

The firearm suicide rate for **Black older teens and emerging adults (15-19)** exceeded that of their **white peers** for the first time, increasing by over 85% from 2018 to 2022



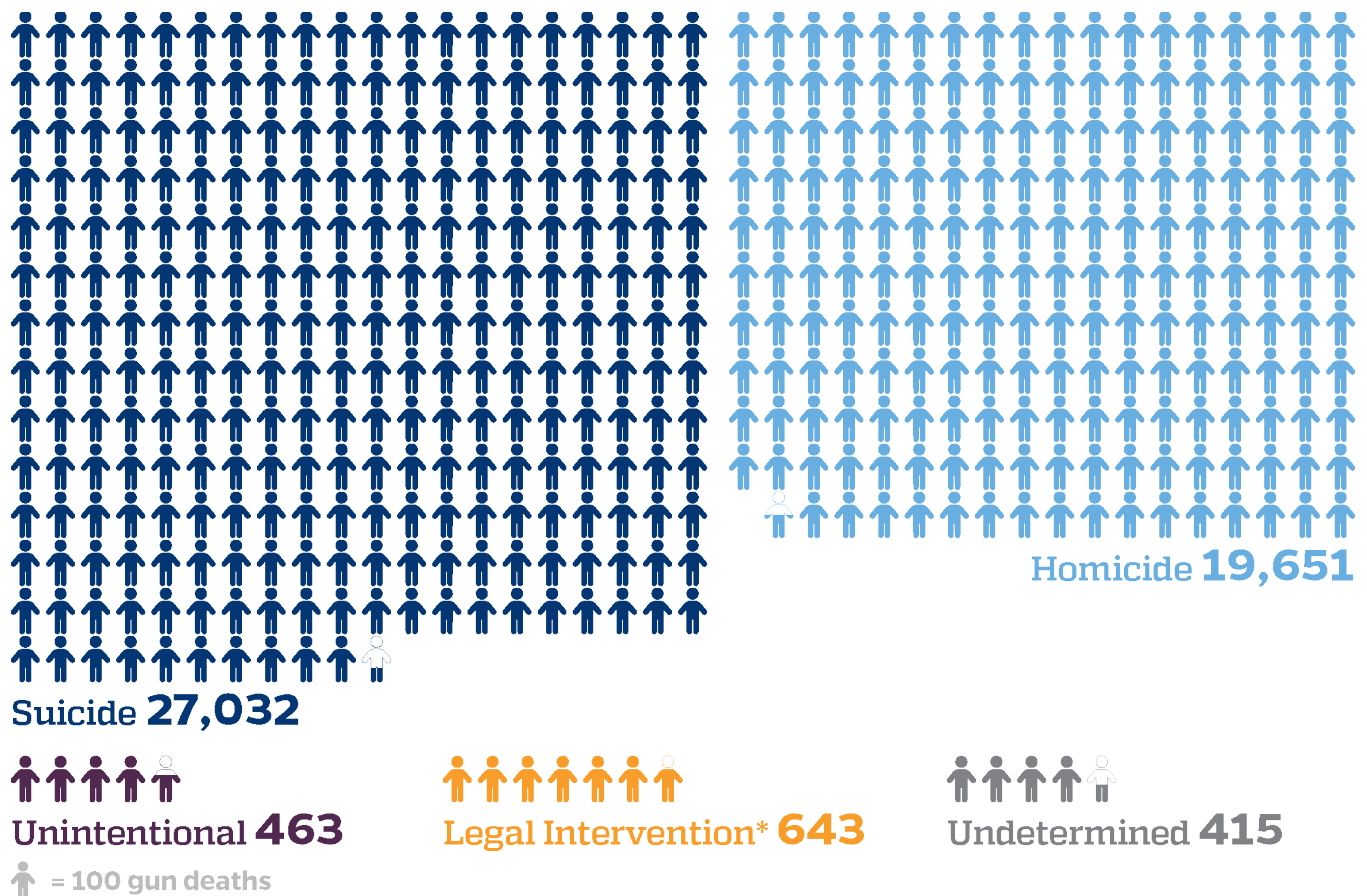
An Overview of U.S. Gun Deaths in 2022

In 2022, 48,204 people died due to gun violence in the U.S., the second-highest total ever recorded. The overall gun death rate declined 2.7% between 2021 and 2022, resulting in 626 fewer deaths.

- The gun homicide rate decreased 7.5% in 2022, with 1,307 fewer gun homicides compared to 2021. Despite this decrease, 19,651 people were killed by a gun in 2022, the second-highest number of gun homicide deaths ever recorded.
- Gun suicides continued to reach all-time highs, increasing by 2.7% from the previous record in 2021, resulting in a total of 27,032 people dying by gun suicide in 2022.

Figure 1

48,204 lives were lost to gun violence in 2022



* The CDC data classification "legal intervention" undercounts police-involved gun fatalities classifying them as other types of gun deaths. To address this gap, media sources like the Washington Post's Fatal Force database have tracked police-involved shootings in recent years, reporting that 1,095 people were shot and killed by police in 2022.

Lethality and Availability of Firearms

Due to their high lethality and availability, firearms fuel our country's high suicide and homicide rates. **Four out of every five homicides and more than half of all suicides are by firearm.**

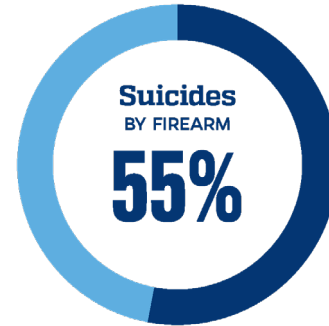
Figure 2.1

In 2022, 79% of all homicides were by firearm



Figure 2.2

In 2022, 55% of all suicides were by firearm



Gun Deaths by Demographic Groups

Impacted populations of gun homicides in 2022

- Black male teens and young adults ages 15–34 are at the highest risk for gun homicide. Although they represented 2% of the total population in the U.S. in 2022, they accounted for 34% of all gun homicides. Their firearm homicide rate was 24 times higher than white males of the same age group.
- The firearm homicide rate among Black female teens and young adults ages 15–34 was nine times higher than that of their white counterparts.
- The gun homicide rate among male Hispanic/Latinos increased by 70% from 2013 to 2022.
- American Indian/Alaskan Native people were five times more likely to die by firearm homicide compared to their white counterparts.

Impacted populations of gun suicides in 2022

- The gun suicide rate among male American Indian/Alaskan Native people was 1.14 times higher than the overall gun suicide rate among all males.
- The gun suicide rate among male Hispanic/Latinos increased by 54% from 2013 to 2022.
- White males accounted for nearly 30% of the U.S. population but 70% of all firearm suicide deaths.
- White females made up nearly 60% of the female population in the U.S. but accounted for 81% of all female firearm suicide deaths.

Comparing Impacted Populations by Age and Racial Group

Black people, across all age ranges, were at higher risk for gun homicide than white people. The risk for gun homicide was greatest among teens and young adults ages 15–34. This age group of Black people had drastically higher rates of gun homicide than that of white people.

Among Black people, the risk for gun suicide peaks at a young age, with those ages 15–34 at the highest risk for gun suicide. Conversely, the risk for gun suicide among white people increases with age, with those ages 75 and older at the highest risk of dying by gun suicide.

Figure 3.1

Difference in Gun Homicide Rates by Race and Age, 2022

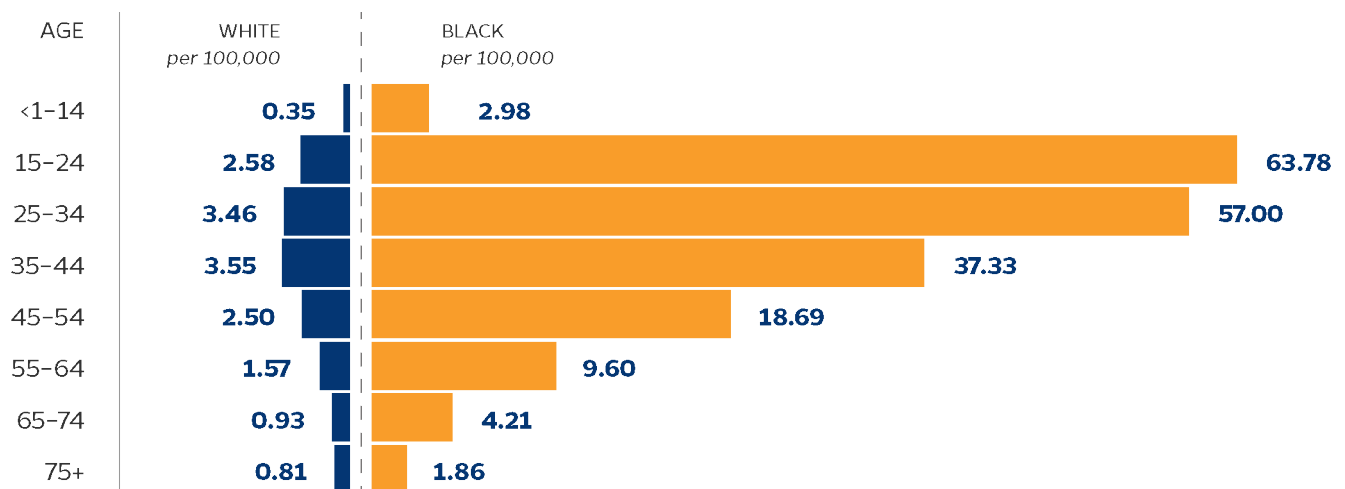
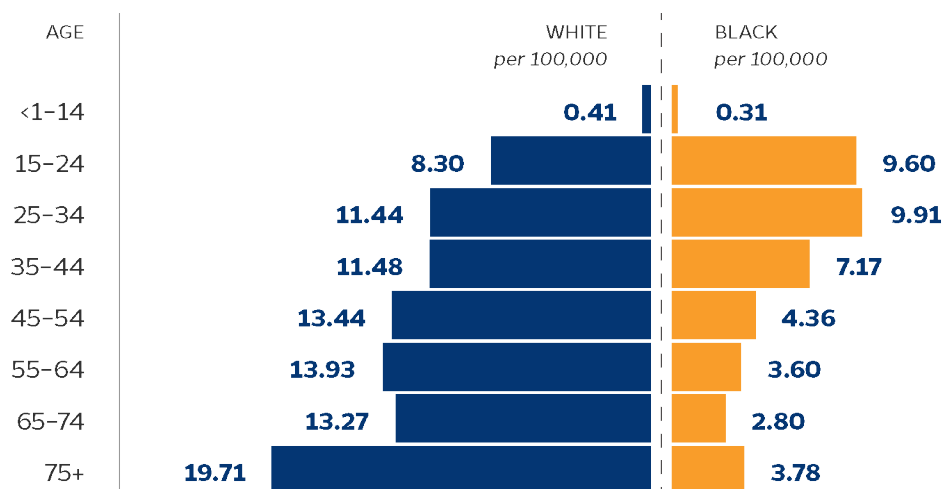


Figure 3.2

Difference in Gun Suicide Rates by Race and Age, 2022



The Burden of Gun Violence on Children and Teens

The Leading Cause of Death Among Young People

Firearms remained the leading cause of mortality for young people in the United States. When young people are shot and killed, they lose decades of potential: the potential to grow up, have a family, contribute to society, and pursue their passions in life. These losses are felt across families, neighborhoods, and communities.

For this report, age categories are defined to capture the different life stages of youth: children (ages 1–9), teens (ages 10–17), and emerging adults (ages 18–19).

Years of Potential Life Lost From Gun Violence

Compared to other causes of death, gun violence often poses a larger burden on society in terms of years of potential life lost. Years of potential life lost calculations estimate the average time a person would have otherwise been expected to live if they had not died prematurely.

In 2022, firearm injury deaths accounted for 1,120,312 years of potential life lost before the age of 65—more than diabetes, stroke, and liver disease combined.⁴

2,526

children & teens ages 1–17
died by a firearm in 2022



an average of
7 deaths
every day

Firearms accounted for



of all the deaths
that occurred among
older teens (ages 15–17)

Black youth face alarmingly
high rates of gun violence



More than half (55%) of all Black
older teens (ages 15–17) who died
in 2022 were killed by a gun

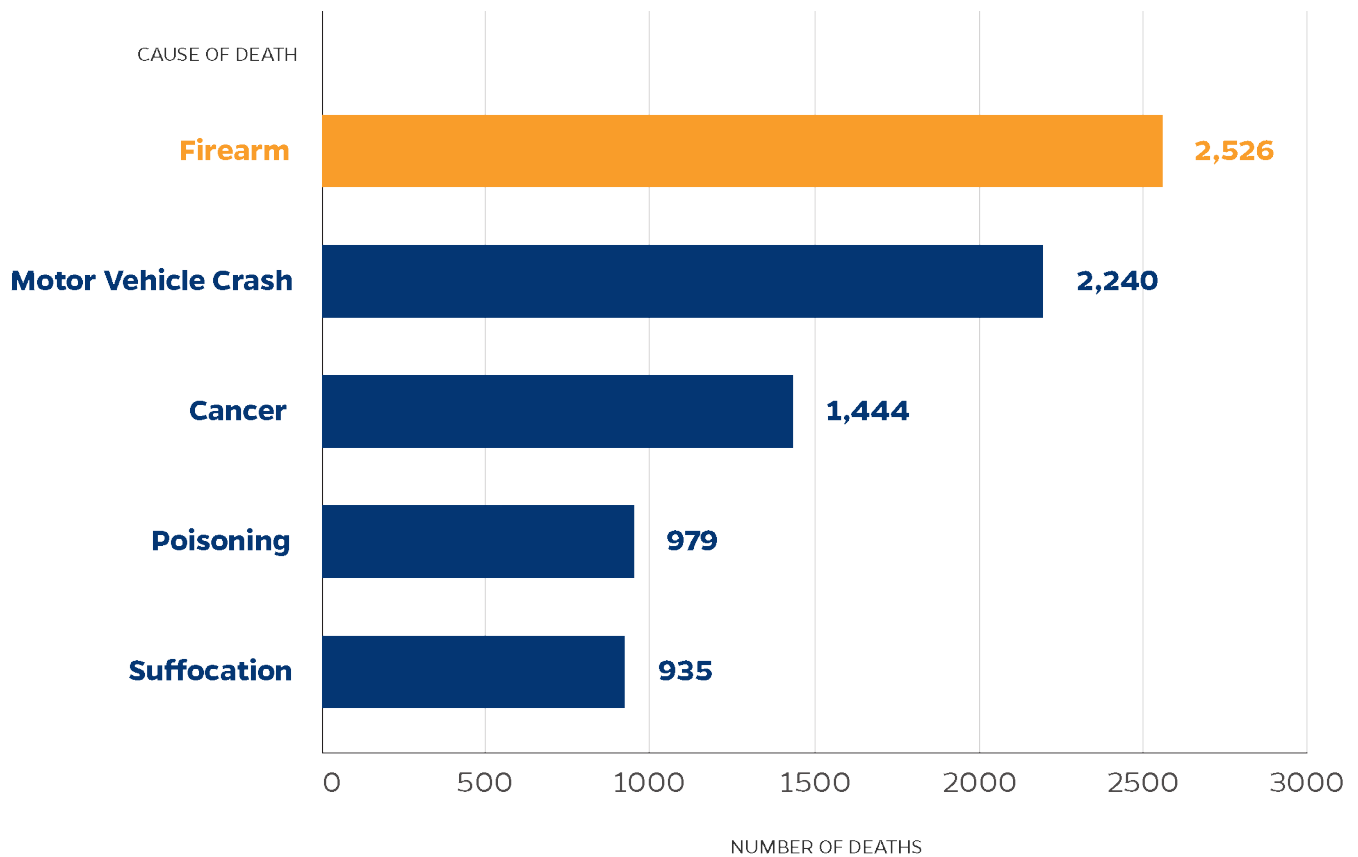
Leading Cause of Death

Firearms were the leading cause of death for children and teens ages 1-17, prematurely taking the lives of 2,526 young people in 2022.

Firearms accounted for 15% of all child and teen (ages 1-17) injury deaths that occurred in 2022.

Figure 4

Leading Causes of Death for Youth (Ages 1-17) in 2022*



* We chose not to include infant deaths in our analysis, as infants (under age 1) are at a unique risk for age-specific causes of death, including perinatal period deaths and congenital anomalies. In 2022, 16 infants were killed by firearms. Additionally, there were 1,606 deaths classified as “all other diseases” making it the third leading cause of death behind motor vehicle traffic crashes, but we chose to exclude it in the graph.

Youth Gun Deaths by Age and Intent

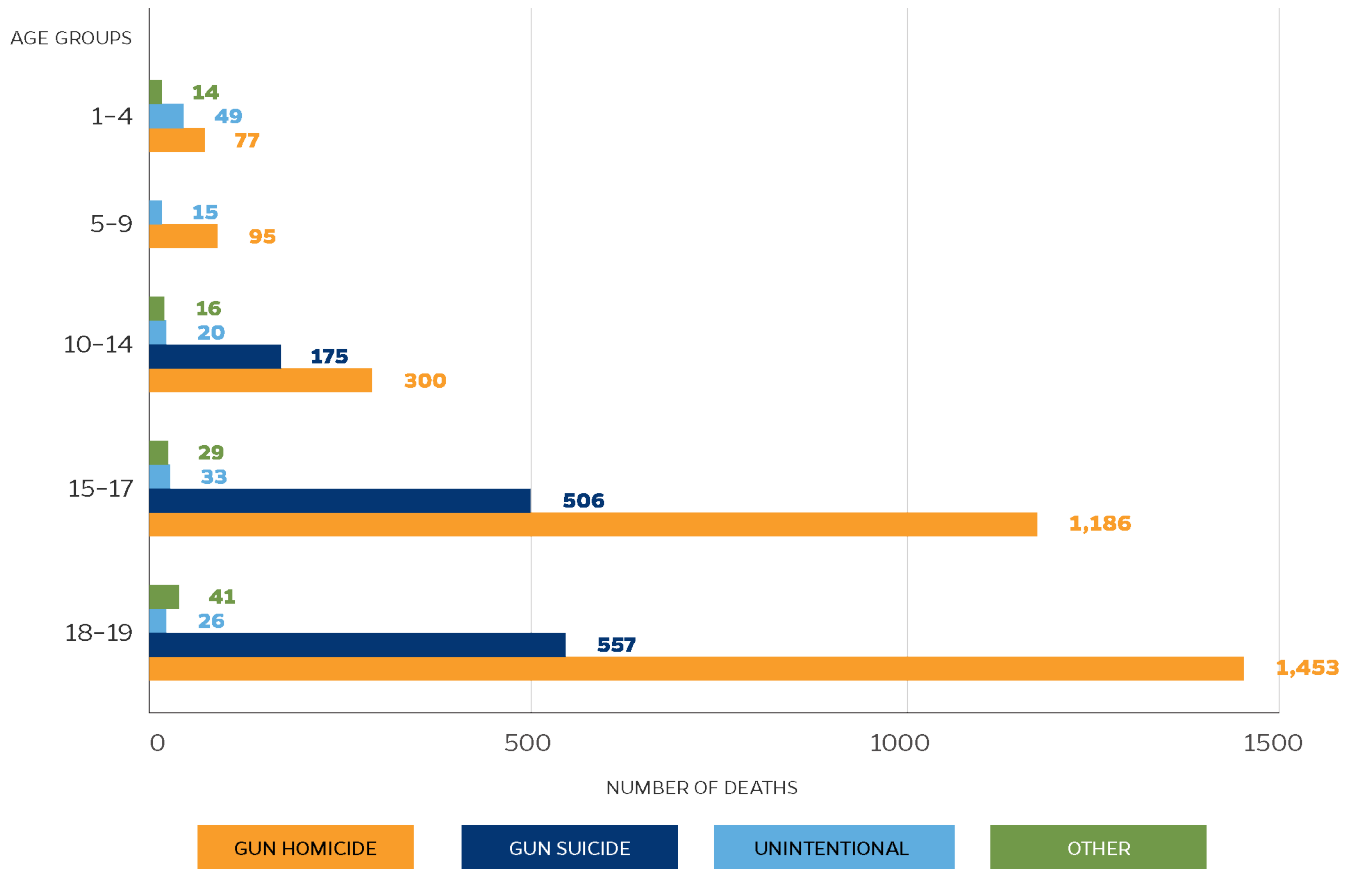
Firearms were the leading cause of death for children and teens ages 1–17 in 2022, highlighting the significant impact of guns on this age group.

While teens account for most gun deaths in youth ages 1–17, younger children are not immune. A total of 140 children ages 1–4 and 117 children ages 5–9 died by a gun in 2022.

- Homicides were the most common type of gun death among children and teens (ages 1–17) at 66%, followed by suicides at 27%.
- Unintentional injuries account for a large proportion of gun deaths among children; in 2022, 35% children ages 1–4 and nearly 13% of children ages 5–9 died by unintentional injury.
- Approximately 70% of all gun deaths among young people ages 1–17 occurred among older teens ages 15–17.

Figure 5

Gun Deaths by Age Group for Youth (Ages 1–19) in 2022



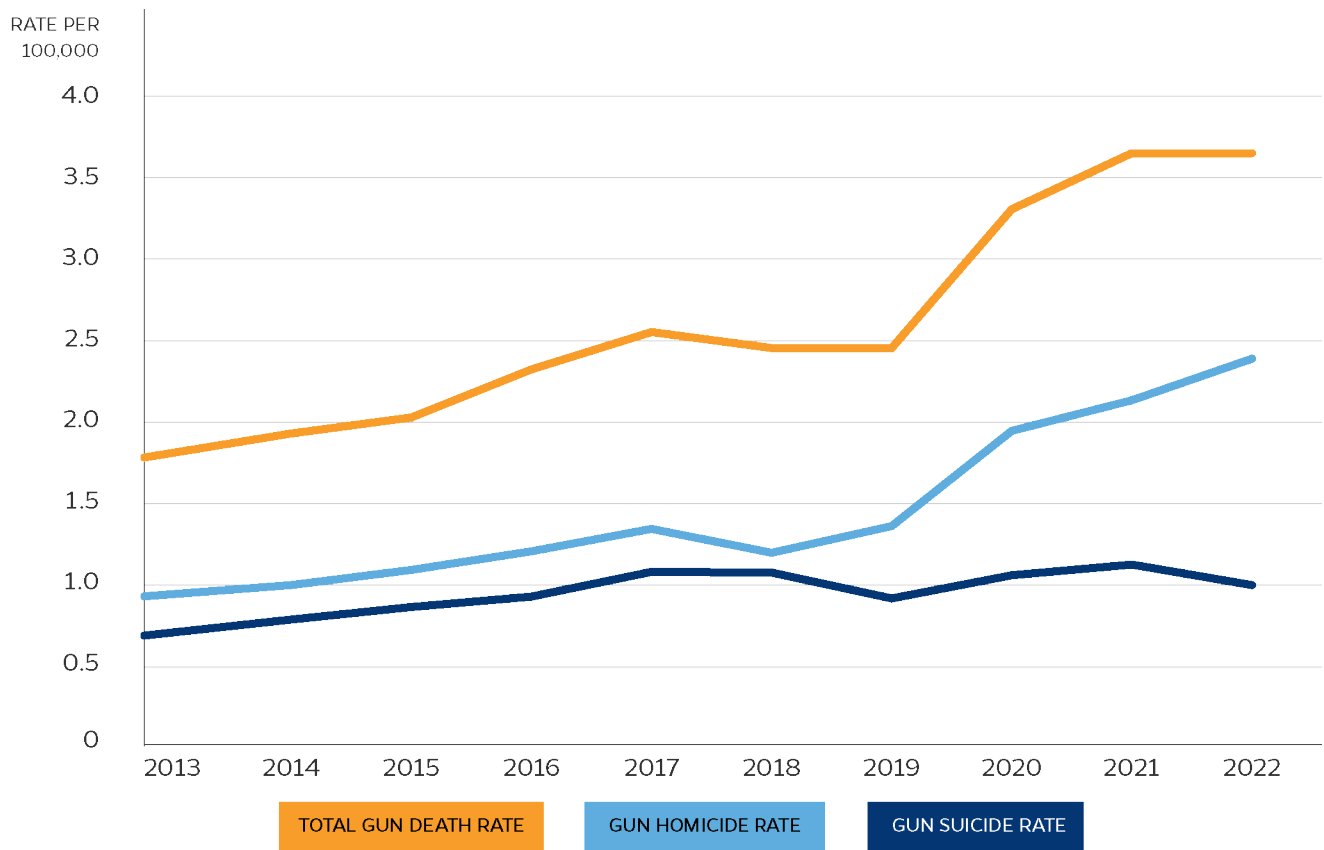
Trends Over Time

The overall gun death rates among youth doubled between 2013 and 2022. This rise is predominantly attributed to an increase in gun homicides across age subgroups, though suicide is also increasing among teens (ages 10–17) and emerging adults (ages 18–19).

- Gun death rates doubled from 2013 to 2022 for children and teens (ages 1–17).
- Gun homicides nearly doubled from 2013 to 2022 for both emerging adults (ages 18–19) and children (ages 1–9), increasing from 770 to 1,453 and from 87 to 172, respectively.
- In 2022, nearly three times as many teens (ages 10–17) died by gun homicide compared to 2013, increasing from 541 in 2013 to 1,486 in 2022.
- For both teens (ages 10–17) and emerging adults (18–19), the number of gun suicide deaths increased by 40% between 2013 and 2022.

Figure 6

Gun Death Rates (Per 100,000) for Youth (Ages 1–17) from 2013–2022



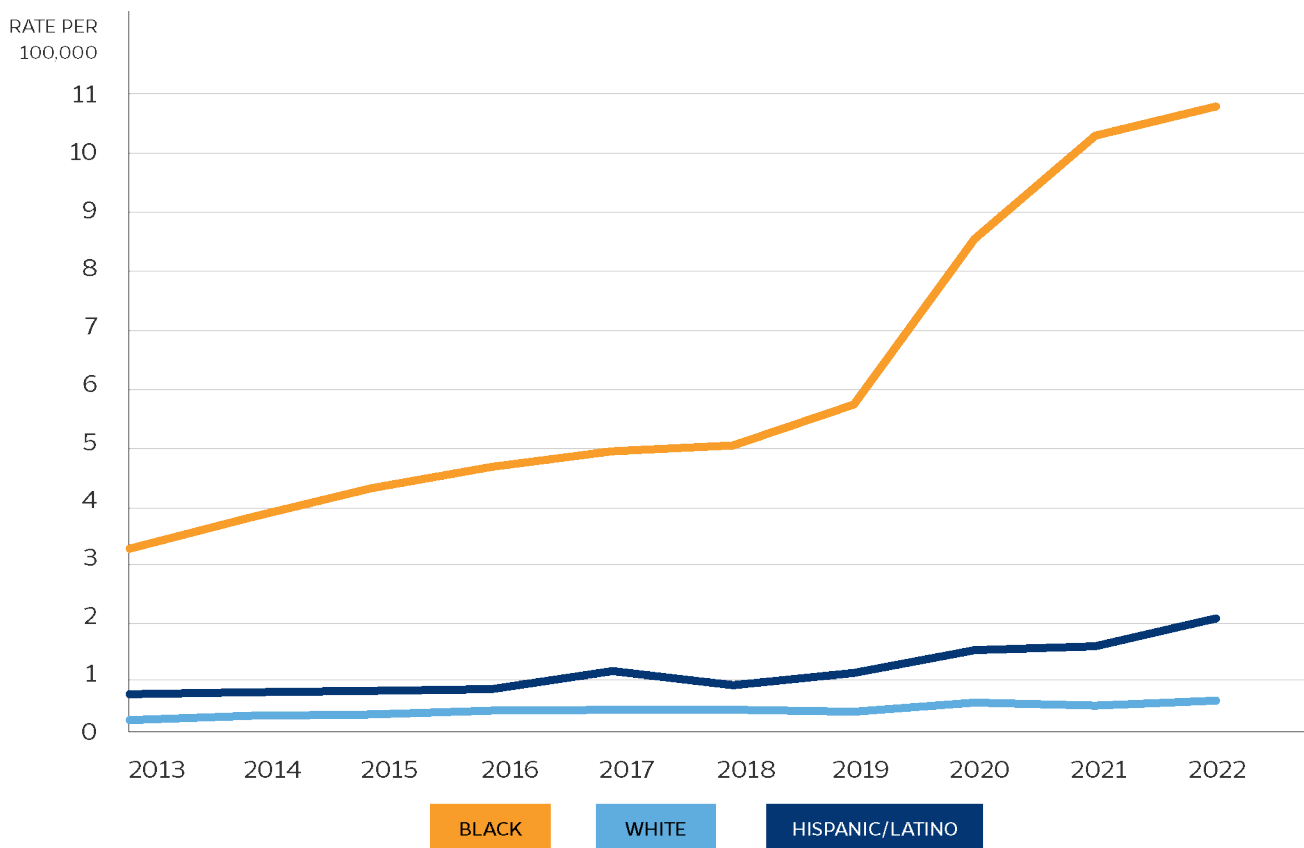
Racial Disparities in Gun Deaths Over Time

Black and Hispanic/Latino youth (ages 1–17) are disproportionately burdened by gun violence:

- In 2022, Black youth in this age demographic had a gun death rate approximately six times higher than their white counterparts.
- Although Hispanic/Latino youth ages 1–17 had a similar gun death rate to their white counterparts in 2022, the Hispanic/Latino gun death rate increased nearly twice as much as the rate for their white counterparts from 2013 to 2022.
- These disparities are particularly stark for gun homicides for children and teens ages 1–17 in 2022:
 - The gun homicide rate for Black teens in this age group was 18 times higher than the rate for their white counterparts.
 - The gun homicide rate for Hispanic/Latino children and teens was over three times higher than that of their white counterparts.

Figure 7

Gun Homicide Rates (Per 100,000) for Youth (Ages 1–17) by Race/Ethnicity from 2013–2022



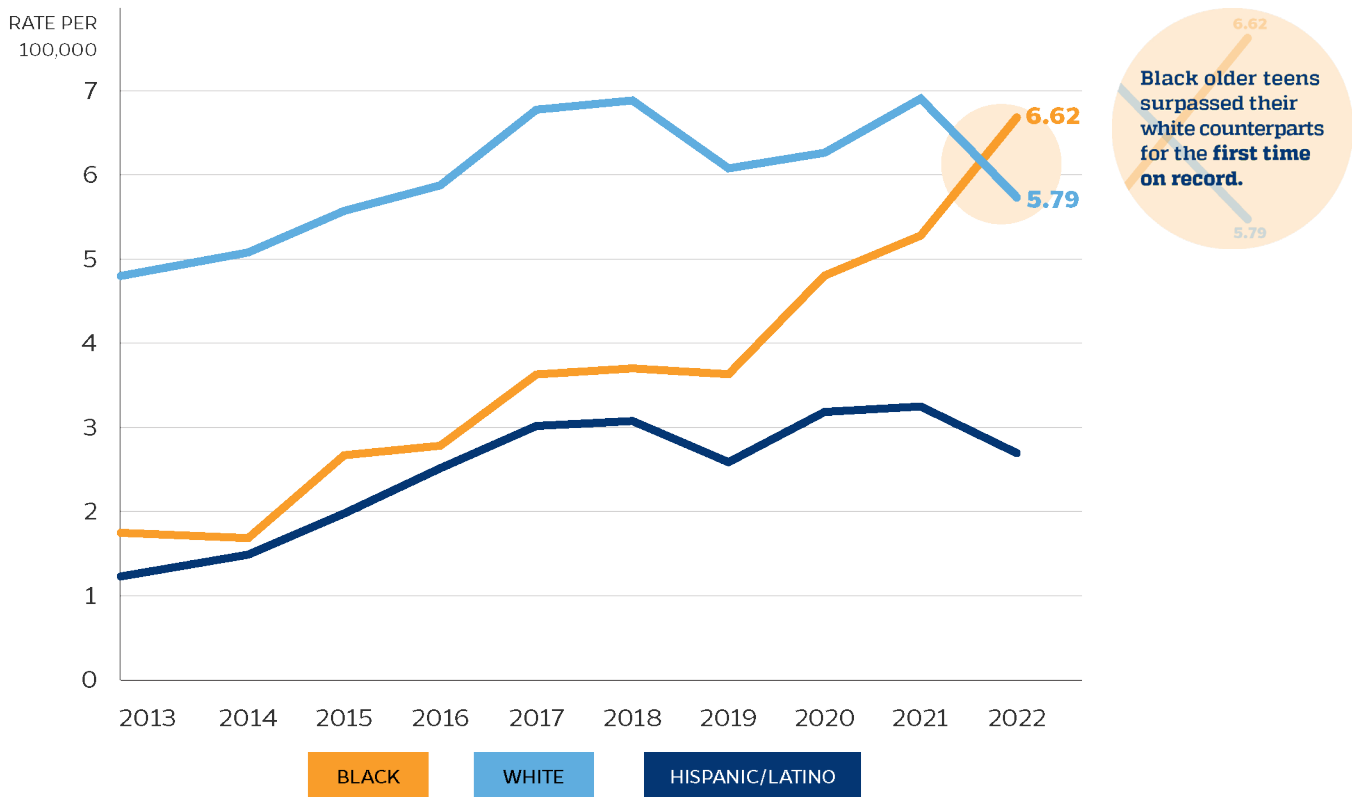
Historically, white youth have had higher gun suicide rates than youth from other races and ethnicities. However, this dynamic is beginning to shift.

The suicide rates among Black and Hispanic/Latino older teens and emerging adults ages 15-19 have been rising over the last decade:

- Although the absolute number of gun suicide deaths was higher for white than Black older teens and emerging adults ages 15-19 in 2022 (638 deaths compared to 194 deaths), the rate of gun suicides among Black older teens and emerging adults increased almost four times from 2013 to 2022.
- The rate of gun suicides for Hispanic/Latino older teens and emerging adults ages 15-19 doubled from 2013 to 2022.
- In 2013, firearm suicides accounted for 35% of all suicides among Black youth ages 15-19, but by 2022 this proportion had increased to 61%.
- **In 2022, the gun suicide rate among Black older teens and emerging adults (ages 15-19) surpassed the rate of their white counterparts for the first time on record.** The gun suicide rate for Black youth in this demographic increased 79% from 2018 to 2022 alone. In contrast, the gun suicide rate for their white counterparts decreased from 2018 to 2022 by 15%.

Figure 8

Gun Suicide Rates (Per 100,000) for Older Teens and Emerging Adults (Ages 15-19) by Race/Ethnicity from 2013-2022



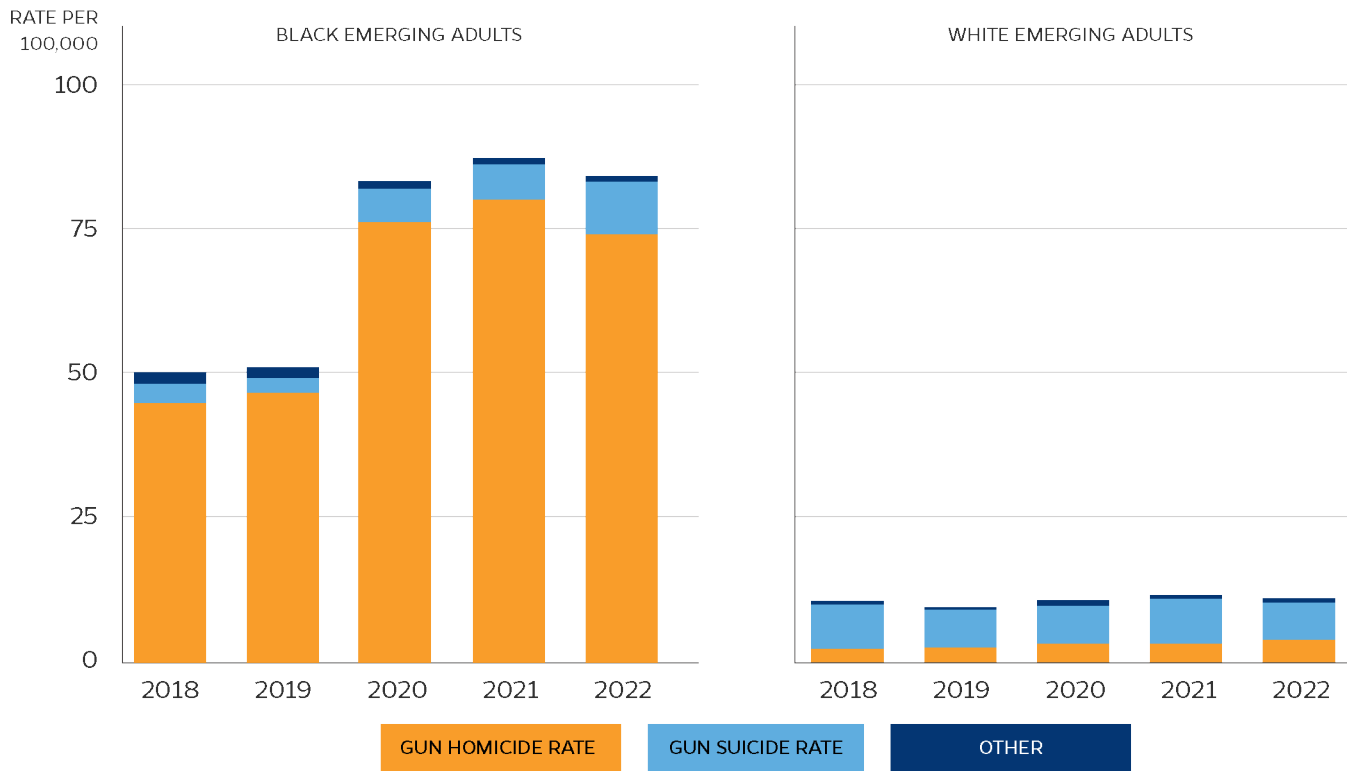
Gun Violence Among Emerging Adults (Ages 18-19)

Emerging adults (ages 18-19) are uniquely impacted by gun homicides and suicides. In many states, the legal age for purchasing a firearm is 18-years-old. This accessibility may increase the risk of gun-related incidents among this age group.

- 2,077 emerging adults died from gun-related deaths in 2022: 557 suicides and 1,435 homicides, accounting for approximately 27% and 69% of all gun-related deaths, respectively.
- The overall gun death rate among Black emerging adults was over eight times higher compared to their white counterparts in 2022. This was driven mainly by homicides: the homicide rate for Black emerging adults was 24 times that of their white counterparts.
- In 2022, the homicide rate for Black females in this age demographic was approximately 13 times higher than for their white counterparts, while the homicide rate for Black males (ages 18-19) was approximately 27 times higher than for their white counterparts.
- Between 2013 and 2022, the suicide rate for Black emerging adults increased by over five times (413%).
- Between 2018 and 2022 alone, the suicide rate for Black emerging adults increased by 85%. The homicide rate increased by 56%.

Figure 9

Gun Death Rates (Per 100,000) for Black and White Emerging Adults (Ages 18-19) from 2018-2022*



* "Other" gun death rates include legal intervention, unintentional, and unclassified.

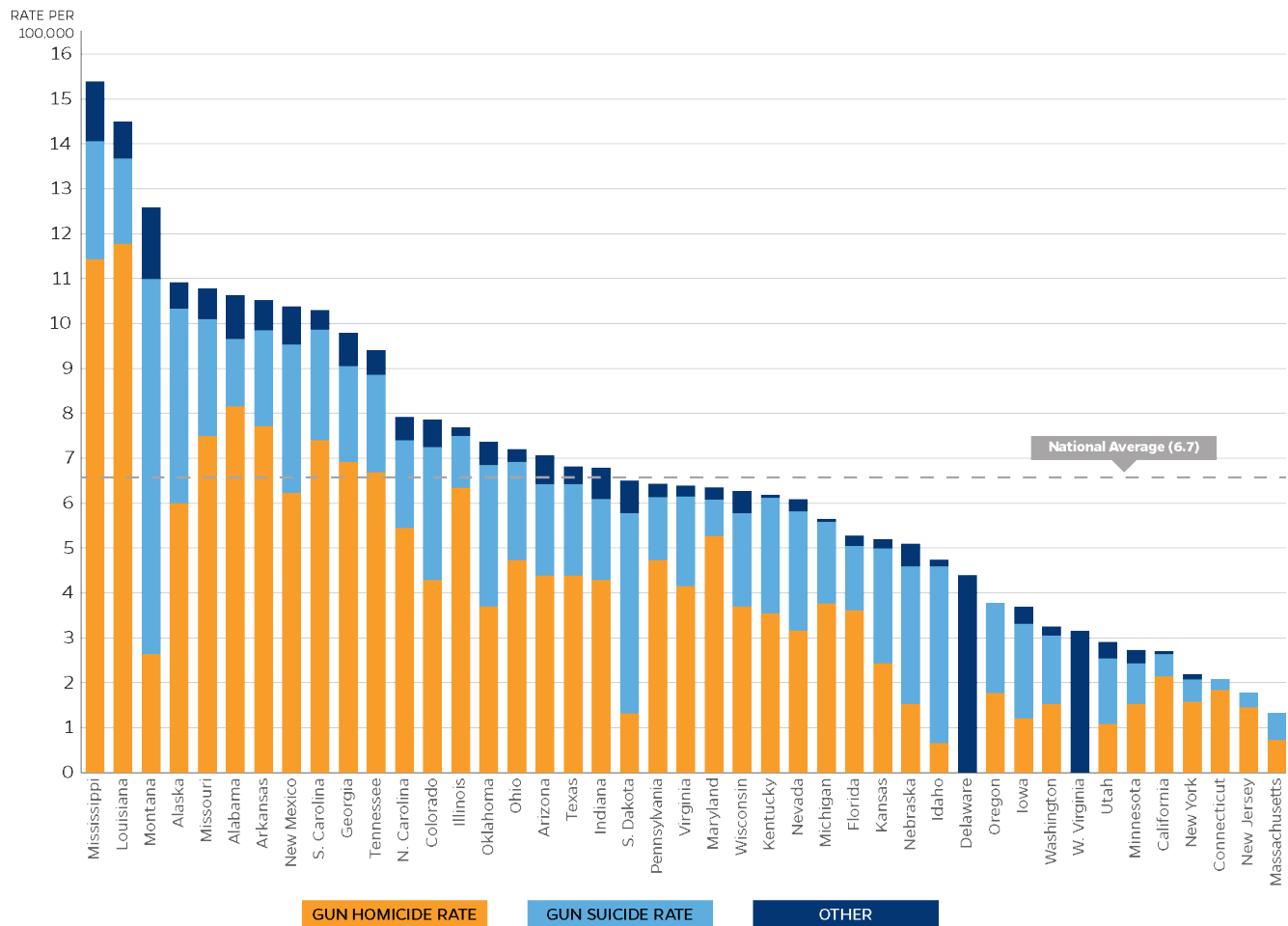
Youth Gun Violence by State

Gun death rates vary widely across the United States due to differences in socioeconomic factors, demographics, and, importantly, gun policies.

- Among U.S. youth gun deaths ages 1–19, Mississippi had the highest gun death rate while Massachusetts had the lowest gun death rate in 2022. In both states, homicides constituted the majority of gun deaths.
- While most youth gun deaths ages 1–19 across states were largely driven by homicides, youth gun deaths in Idaho were driven by suicides more than in any other state and accounted for approximately 83% of Idaho’s gun death rate.
- Alaska and Montana had the highest rates of youth gun deaths ages 1–19 due to “other” causes (legal intervention, unintentional, and undetermined intent).

Figure 10

Gun Death Rate (Per 100,000) for Youth (Ages 1-19) by State in 2022*



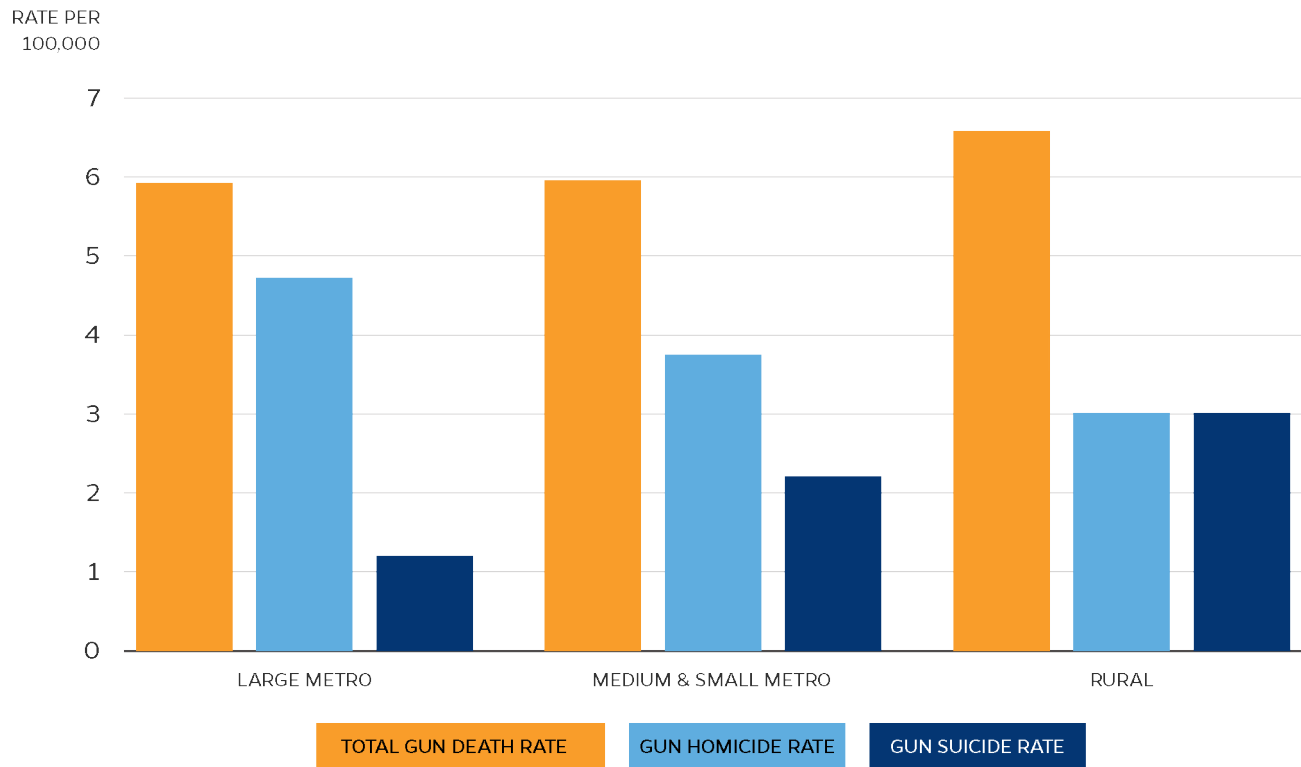
* “Other” gun death rates include legal intervention, unintentional, and unclassified. Other states (Hawaii, Maine, New Hampshire, North Dakota, Rhode Island, Vermont, and Wyoming) were excluded because they had suppressed values for all gun death rates.

Youth Gun Violence by Urbanization

- Overall, rural counties had the highest rate of gun deaths. There were similar rates of gun deaths among large, medium, and small metropolitan counties.
- Large metropolitan counties had the highest gun homicide rate compared to rural counties.
- Rural counties had the highest rate of gun suicides compared to metropolitan counties.

Figure 11

Gun Death Rate (Per 100,000) for Youth (Ages 1–19) by Urbanization in 2022*



*The 2013 urban classifications were combined for simplification. Large Central Metro and Large Fringe Metro classifications were combined as “Large Metro.” Medium Metro and Small Metro classifications were combined as “Medium & Small Metro.” Lastly, Micropolitan and Noncore classifications were combined as “Rural.” Crude rates were used for this analysis because CDC Wonder does not report age-adjusted rates by urban classification.

Public Health Spotlight

A comprehensive public health approach is needed to address the gun violence epidemic. Public health is the science of reducing and preventing injury, disease, and death and promoting the health and well-being of populations through the use of data, research, and effective policies and practices.

A public health approach to prevent gun violence is a population level approach that addresses both firearm access and the factors that contribute to and protect from gun violence. This approach brings together institutions and experts across disciplines in a common effort to: 1) define and monitor the problem, 2) identify risk and protective factors, 3) develop and test prevention strategies, and 4) ensure widespread adoption of effective strategies.

We have used the public health approach to successfully eradicate diseases, reduce smoking-related deaths, and decrease car crashes. We can use this same approach to prevent gun violence in all its forms and strive towards a country where everyone can live free from gun violence.

Policy Recommendations

Gun deaths remain the leading cause of death for young people and disproportionately impact communities of color. Below are policy recommendations to reduce gun violence in all its forms. While all the policy recommendations may not directly address youth, we believe that enacting these policies will address upstream factors to decrease the burden of gun violence on youth across the country.



Adopt Child Access Prevention (CAP) Laws to Promote Safe and Secure Storage Practices

More than half of all U.S. gun owners do not practice safe firearm storage.⁵ In fact, 4.6 million minors in the U.S. live in homes with at least one gun that is loaded and unlocked, exposing children to firearms and increasing the risk of gun violence among children and youth.⁶

Many of these deaths can be prevented through strong Child Access Prevention (CAP) laws which require that guns stored in households with a child or teen be kept secured when unattended. Strong CAP laws are an effective tool to promote responsible firearm storage practices by holding negligent gun owners accountable when a child gains unauthorized access to a firearm. These laws are linked to sizable reductions in child and teen gun deaths, including reductions in youth suicide, accidental shootings, and homicides.^{7,8}



Prevent Prohibited People from Purchasing a Gun Through Firearm Purchaser Licensing Laws

Most states do not require background checks on private purchases, meaning that people convicted of a felony or who are otherwise prohibited from possessing a gun can purchase one from a private seller. To address this dangerous gap, states should implement firearm purchaser licensing laws (sometimes referred to as permit to purchase) that require all prospective gun purchasers to obtain a license prior to buying a gun from a dealer or a private seller.

Firearm purchaser licensing laws enhance universal background checks by establishing a licensing application process. The additional components of permit-to-purchase laws—fingerprinting, a more thorough vetting process, and a built-in waiting period—all play a vital role in preventing people with a history of violence, those at risk for future interpersonal violence or suicide, and gun traffickers from obtaining firearms. Research shows that these laws are among the most effective policies in reducing many forms of gun violence including gun homicides, suicides, mass shootings, and shootings by police.^{9,10,11}



Remove Firearms From Individuals Determined to Be at Elevated Risk for Violence

In some cases, people who are not otherwise prohibited from owning a gun may be at clear risk of violence to themselves or others, often during a time of crisis or in a domestic violence situation. Strong Domestic Violence Protection Orders (DVPOs) and Extreme Risk Protection Orders (ERPOs) include mechanisms to temporarily remove firearms from individuals at risk for suicide or violence against others. States should enact and implement ERPOs and enhance existing DVPOs to include firearm relinquishment requirements for respondents.



Invest in Community Violence Intervention

Community violence intervention (CVI) programs aim to identify and support the small number of people at risk for violence by helping them peacefully resolve conflicts and providing them with wraparound mental health and social support. These programs can also address the dangerous environments which facilitate violence including blighted properties. CVI is most effective when cities also establish inter-agency processes, like a Homicide Review Commission, to identify the drivers of violence within a city and deploy resources comprehensively to address these drivers of violence.¹²

When properly funded, implemented, and sustained, CVI programs can effectively reduce gun violence within the communities most impacted by gun homicide.^{13,14,15}



Regulate the Carrying of Guns in Public

Carrying firearms in public places poses a serious threat to safety. Over the last four decades, states have weakened their public carry laws making it easier for people to carry a loaded firearm in public places. Today, people in most states no longer need a permit to carry a concealed gun in public. As a result, an estimated six million adults carry loaded handguns in public each day.¹⁶

Permissive public carry and stand-your-ground laws increase violence by allowing people with violent histories to carry their firearms in public, providing more opportunities for armed intimidation and shootings in response to hostile interactions, and increasing criminals' access to guns from thefts from motor vehicles. Research shows that when states weakened or removed concealed carry permitting requirements they experienced a 29% increase in violent crimes.¹⁷ Similarly, the passage of state "stand your ground" laws was linked to an 8% increase in homicide rates.¹⁸ To reduce gun violence, states should strengthen their concealed and open carry laws and repeal stand-your-ground laws.

The ongoing crisis of gun violence is preventable. We must address this crisis through a public health approach pushing for equitable, evidence-based gun violence solutions.

For more information on gun violence solutions, visit our website:

publichealth.jhu.edu/center-for-gun-violence-solutions



Glossary

Age-adjusted Rate: The rates of almost all causes of death vary by age. Age adjustment is a technique for “removing” the effects of age from crude rates to allow meaningful comparisons across populations with different underlying age structures. Age-adjusted death rates are weighted averages of the age-specific death rates, where the weights represent a fixed population by age. An age-adjusted rate represents the rate that would have existed had the age-specific rates of the particular year prevailed in a population whose age distribution was the same as that of the fixed population. Age-adjusted rates should be viewed as relative indexes rather than as direct or actual measures of mortality risk.

Burden of Injury: Describes the impact of a health problem (injury), including death and loss of health due to injuries, related financial costs, and other indicators.

Cause of Death: Based on medical information—including injury diagnoses and external causes of injury—entered on death certificates filed in the U.S. This information is classified and coded per the International Statistical Classification of Diseases and Related Health Problems, 10th Revision (ICD-10).

International Classification of Diseases (ICD): Causes of death are classified per the International Classification of Disease. Deaths for 1999 and beyond are classified using the 10th Revision (ICD-10). ICD is designed to promote international comparability in the collection, processing, classification, and presentation of mortality statistics. This includes providing a format for reporting causes of death on the death certificate. The reported conditions are then translated into medical codes through the use of the classification structure and the selection and modification rules contained in the applicable revision of the ICD, published by the World Health Organization (WHO).

Underlying Cause of Death database: The database contains mortality data based on information from all death certificates filed in the 50 states and the District of Columbia. Deaths of nonresidents (e.g. nonresident aliens, nationals living abroad, residents of Puerto Rico, Guam, the Virgin Islands, and other territories of the U.S.) and fetal deaths are excluded. Each death certificate identifies a single underlying cause of death and demographic data.

County Classification: The CDC categorizes all counties into six levels of urbanization that incorporate population number and density. From largest and most urban to smallest and most rural, they are:

Large central metro counties: Counties part of a metropolitan statistical area with ≥ 1 million population and covers a principal city; most urban, large cities.

Large fringe metro counties: Counties part of a metropolitan statistical area with ≥ 1 million population but does not cover a principal city; akin to suburbs.

Medium metro counties: Counties part of a metropolitan statistical area of 250,000–999,999 population.

Small metro counties: Counties part of a metropolitan statistical area of less than 250,000 population.

Micropolitan (non-metro) counties: Counties part of a micropolitan statistical area (has an urban cluster of $\geq 10,000$ but $< 50,000$ population).

Non-core (non-metro) counties: Counties not part of a metropolitan or micropolitan statistical area; the most rural counties.

Injury Intent: Describes whether an injury was caused by an act carried out on purpose by oneself or by another person(s), with the goal of injuring or killing. For the CDC data used in this report, all injury-related causes of death are classified by intent and by mechanism, determined according to the ICD-10 external cause of injury coded as the underlying cause of death on the death certificate.

Homicide: Injuries inflicted by another person with the intent to injure or kill, by any means. Excludes injuries due to legal intervention and operations of war. The ICD-10 cause of death codes for firearm homicide include X93 Assault by handgun discharge; X94 Assault by rifle, shotgun, and larger firearm discharge; X95 Assault by other and unspecified firearm and gun discharge; and *U01.4 Terrorism involving firearms.

Legal Intervention: Injuries inflicted by the police or other law-enforcing agents, including military on duty, in the course of arresting or attempting to arrest lawbreakers, suppressing disturbances, maintaining order, and other legal actions. Excludes injuries caused by civil insurrections. The ICD-10 cause of death code for legal intervention by firearm is Y35.0 Legal intervention involving firearm discharge.

Suicide: An intentionally self-inflicted injury that results in death. The ICD-10 cause of death codes for firearm suicide are X72 Intentional self-harm by handgun discharge; X73 Intentional self-harm by rifle, shotgun, and larger firearm discharge; and X74 Intentional self-harm by other and unspecified firearm and gun discharge.

Undetermined Intent: Events where available information is insufficient to enable a medical or legal authority to make a distinction between accident, self-harm, and assault. The ICD-10 cause of death codes for firearm deaths of undetermined intent are Y22 Handgun discharge, undetermined intent; Y23 Rifle, shotgun and larger firearm discharge, undetermined intent; and Y24 Other and unspecified firearm discharge, undetermined intent.

Unintentional: Unintentional injury that results in death. The ICD-10 cause of death codes for unintentional firearm deaths are W32 Accidental handgun discharge and malfunction; W33 Accidental rifle, shotgun, and larger firearm discharge; and W34 Accidental discharge and malfunction from other and unspecified firearms and guns.

Injury Mechanism or Method: The cause, or mechanism, of injury is the way in which the person sustained the injury; how the person was injured; or the process by which the injury occurred.

Suppressed: Rates are marked as suppressed when there are zero to nine deaths.

Unreliable: Rates are marked as “unreliable” when the death count is less than 20.

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