## A Public Health Approach to Violence Prevention: Using Data and the Best Available Evidence to Impact Change





Office of Juvenile Justice and Delinquency Prevention







### Presenters

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Associate Director for Program, Division of Violence Prevention, CDC



# Data to Drive Community Violence Prevention

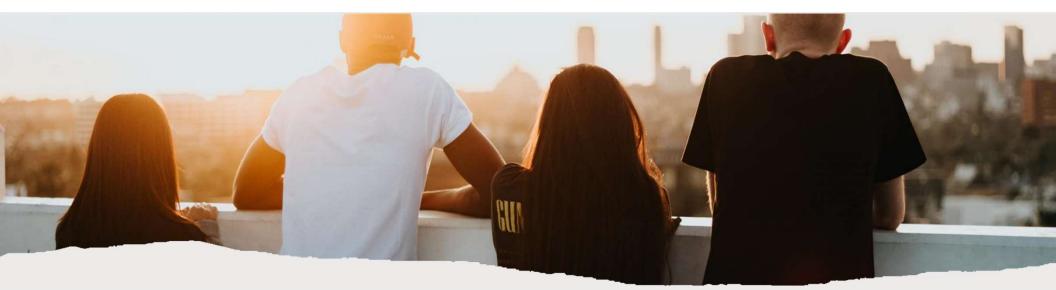
Thomas Simon, PhD Senior Director for Scientific Programs

Division of Violence Prevention National Center for Injury Prevention and Control Centers for Disease Control and Prevention (CDC)





#### **Over 71 lives lost to homicide every day**



### Presentation Overview

- Alternatives to law enforcement data
  - Reduce bias
  - Focus on health
- Potential Uses
  - Consequences
  - Inform prevention
  - Explain needs
  - Monitor changes



### How have firearm homicide rates changed during and since COVID?





#### CDC WONDER



#### National Vital Statistics System (NVSS)

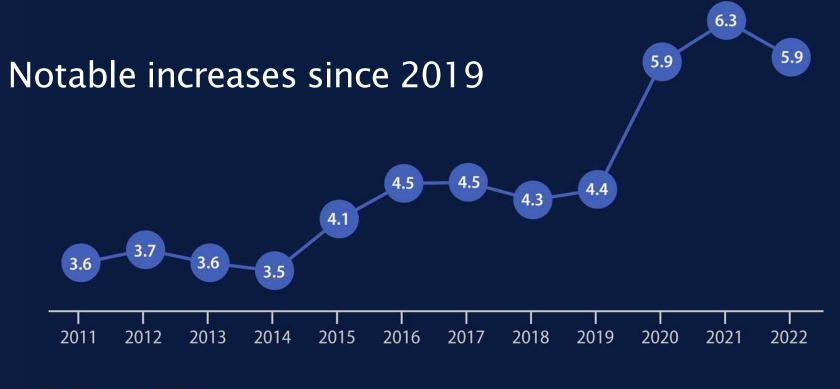
+Oldest example of data sharing between the federal government and cities (DC, NYC), states, and territories

+ Provides data on births and deaths in the United States

+ Efforts underway to improve the timeliness of data



### Firearm Homicides Have Risen Across the United States

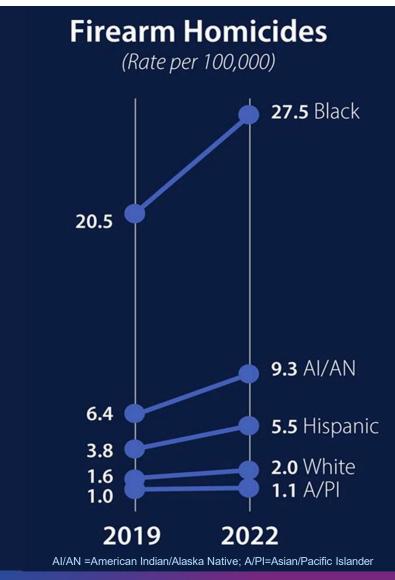


Rate per 100,000

Source: NCHS mortality data; Firearm Homicide Rates, by Race and Ethnicity — United States, 2019–2022. Morbidity and Mortality Weekly Report 2023.

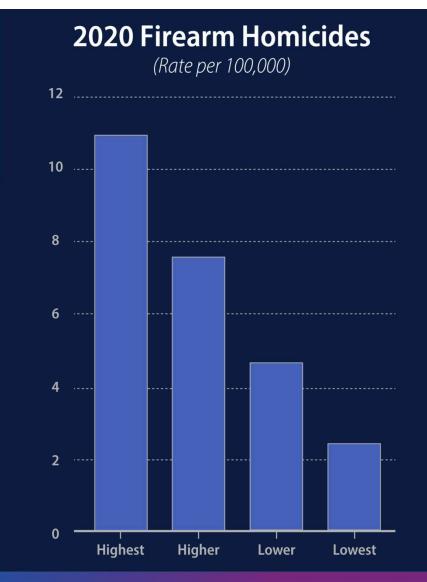
### **Disparities are Widening**

Rates increased the most among Black, American Indian/Alaska Native, and Hispanic populations



### **Poverty is Associated** with Firearm Homicide

In 2020, counties with the highest poverty level had firearm homicide rates 4.5 times as high as counties with the lowest poverty level.



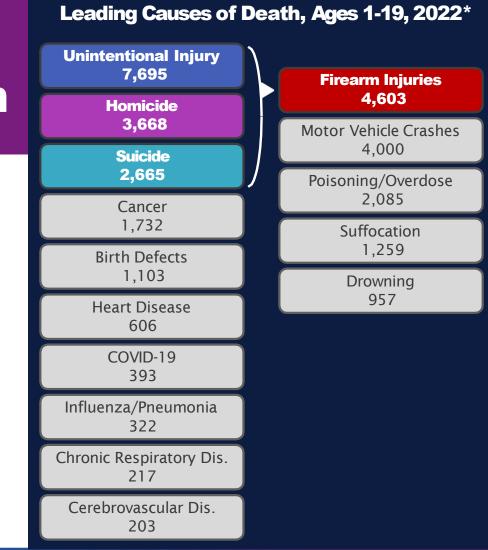
Source: Vital Signs: Changes in Firearm Homicide and Suicide Rates — United States, 2019–2020. Morbidity and Mortality Weakly Report 2022.

# What is the leading cause of death among young people in the U.S.?



### Firearm Injury is a Leading Cause of Death

More children and teens died from firearm injuries than motor vehicle crashes



Source: National Vital Statistics System provisional data from 2022; \*Counts by mechanism are regardless of intent

## What are the most common circumstances for homicides?





#### National Violent Death Reporting System (NVDRS)

- + Pools data from multiple data sources into an anonymous database source with more than 600 unique data elements
- + Covers all types of violent deaths
- + Includes several variables on firearms
- + 2020 NVDRS includes data from 48 U.S. states, DC, and PR



## Most Common Circumstances for Homicide

CDC-NVDRS-



the District of Columbia, and Puerto Rico, 2019. Morbidity and Mortality Weekly Report 2022.

### Science and Data to Action Example Illinois-VDRS

- Met with Cook County State Attorney's Office to present data on locations of recent homicides in the county using heat map technologies
- Data used to inform discussion of new location of Community Justice Center in South Markham to better serve the Southland area of Chicago



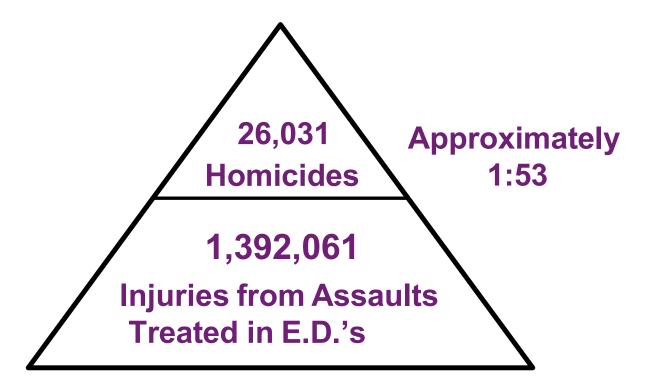


Unintentior	ıal	Suic	ide		U.S. MAP OF INJURY - RELATED DEATHS	Choose your Report Options, then click the Submit builton. For most information about an option are unleady of uptions, click on the undertained name or phase. To en- for bodyname information on NVORS click <u>time</u> Report Options:	
Fatal Injury Data Visualization Explore					Sow Ac: Alte Adjusted Rate V Wew Ac: Graphic V Fatal Injury Data Visualization Compare	Select a report type. (Select only one button from the eight options below.)      Vetime of Violence     * weeken Date: Courts and Percentages to     * Yee     National Violent Death     Reporting System (NVDRS)	
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wisqars.cdc.gov







Data are from CDC's Web-based Injury Statistics Query and Reporting System (WISQARS): www.cdc.gov/injury/wisqars/index.html



### **CDC's Firearm Injury Surveillance Through Emergency Rooms (FASTER)**





## **FASTER Objectives**

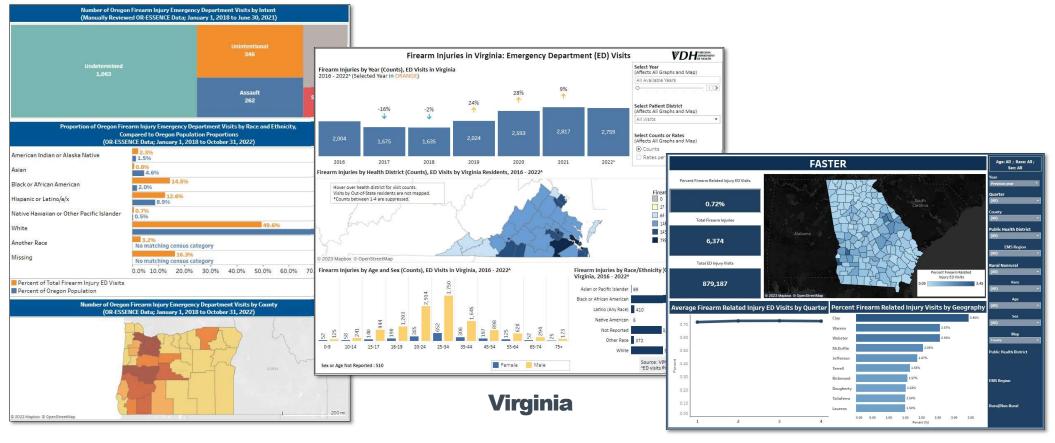


+Increase the timeliness of aggregate reporting of ED visits for firearm injuries

+Disseminate surveillance findings to key partners working to prevent or respond to firearm injuries



### **Sample FASTER Data Dashboards**



Oregon

Georgia

How many high school students are exposed to comunity violence?



### Youth Risk Behavior Surveillance System (YRBS)



- + Large samples of high school and middle school students
- + Access national, state, and local school district data
- + Query by sex, age, race/ethnicity, sexual orientation



nccd.cdc.gov/youthonline



#### Youth Risk Behavior Survey

- Nearly 1 in 5 high school students were in a physical fight in the past year.
- 1 in 5 high school students have seen someone attacked, beaten, stabbed or shot in their neighborhood.
- 1 in 20 high school males self-reported gun carrying in the past year.

Source 2021 YRBS; available at :nccd.cdc.gov/youthonline

#### Summary

- Fatal and nonfatal injury data
- Describe health effects
- Answer key questions
- How to access
- Potential uses

## Thank you!

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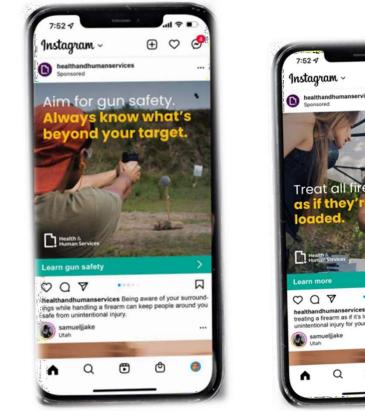


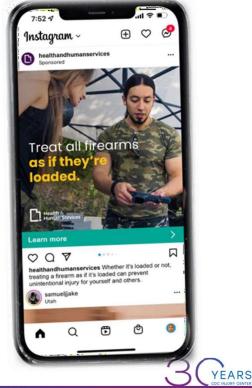


## Science and Data to Action Example Utah-FASTER Team



**Health & Human** 





## A Public Health Approach to Violence Prevention

Derrick Gervin, PhD, MSW Branch Chief Violence Prevention Practice & Translation Branch Division of Violence Prevention National Center for Injury Prevention and Control

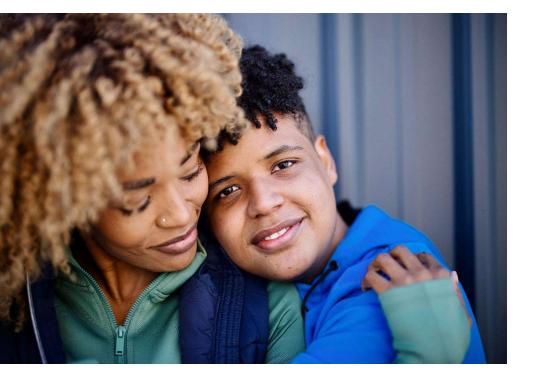


## **Panel Presentation**

The Public Health Approach to Violence Prevention: Using Data and the Best Available Evidence to Impact Change

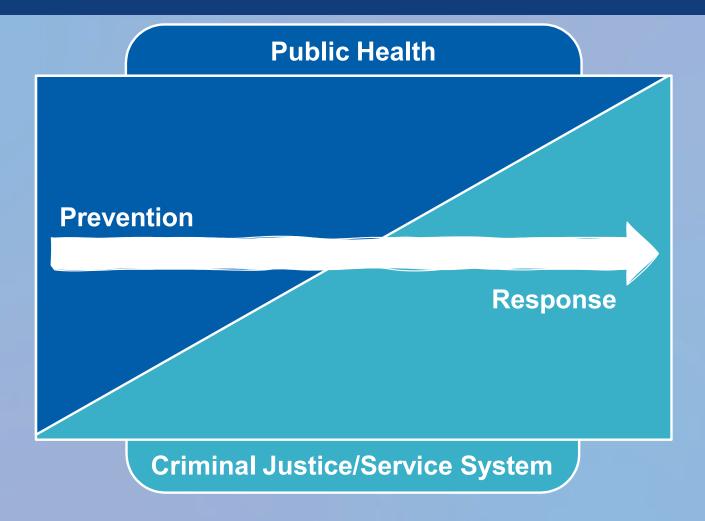
- The Public Health Approach to Violence Prevention
- Using Data and Surveillance Systems to Inform Violence Prevention Activities
- Community Violence Resource for Action: A Compilation of the Best Available Evidence for Youth and Young Adults
- Preventing Youth and Community Violence at the State and Local Level: Stories from the Field

# Overview



- What is a public health approach to preventing violence?
- The Division of Violence Prevention and CDC's approach to violence prevention
- Social and structural conditions that drive violence and inequities
- CDC's programmatic efforts
- Questions and comments

#### **Violence is a Public Health Problem**

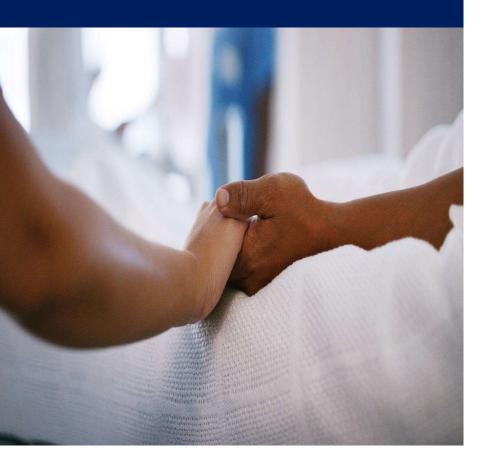


#### What is a Public Health Approach to Violence Prevention?

The public health perspective asks the foundational questions: Where does the problem begin? How could we prevent it from occurring in the first place?

# Violence Prevention at the CDC

## Mission and Vision



#### Vision

 A violence-free society in which all people and communities are safe, healthy, and thriving

#### Mission

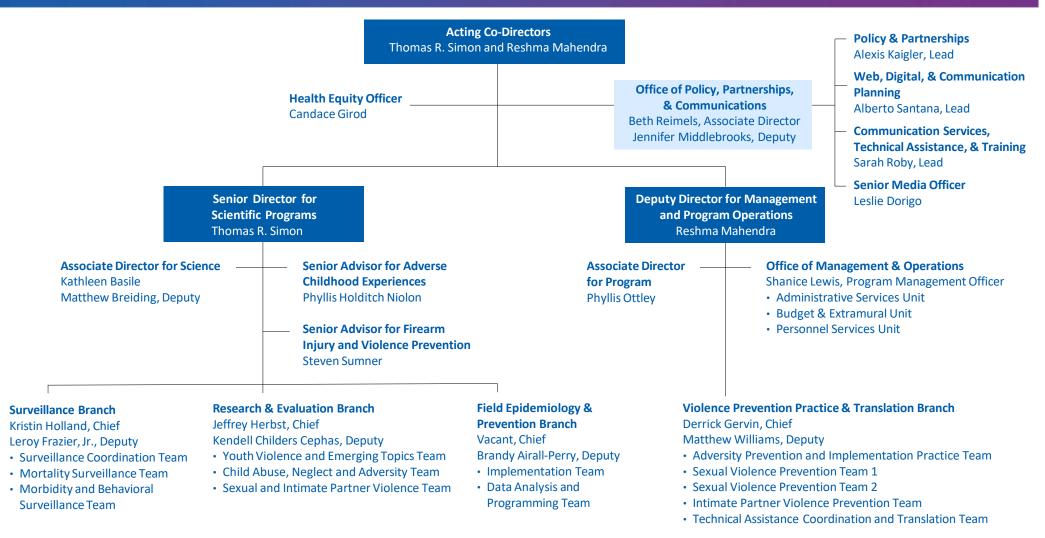
- Provide leadership and build bridges across sectors to use data and conduct research to inform prevention activities
- Identify, evaluate, and apply solutions for preventing violence
- Focus efforts on those at greatest risk for violence

# Our Topics

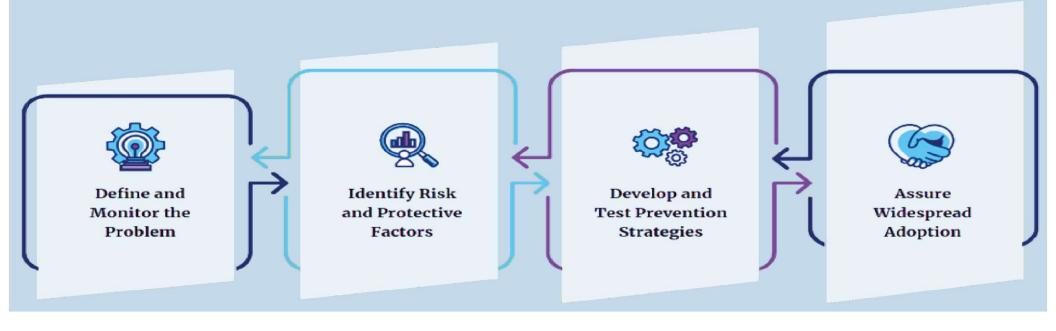
Adverse Childhood Experiences	Child Abuse & Neglect	Community Violence	Firearm Violence
Intimate Partner Violence	Sexual Violence	Youth Violence	Suicide

https://www.cdc.gov/violenceprevention/communityviolence/index.html

#### NCIPC Division of Violence Prevention (DVP)

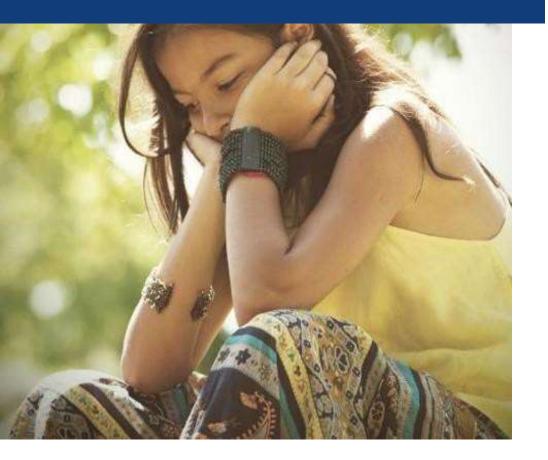


#### The Public Health Model



Data, partnerships, and experience are the foundations of the public health approach to violence prevention

#### Adverse Childhood Experiences (ACEs)



Experiences that could potentially traumatize children and youth within the first 18 years of life include exposure to violence or other emotionally disturbing situations within their homes and communities.

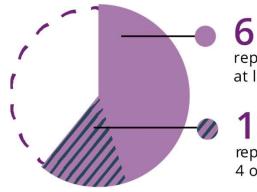
**Examples of ACEs** 

- Abuse and neglect
- Bullying
- Peer to peer violence
- Witness violence in community or school
- Homelessness
- Death or incarceration of a parent

#### Prevalence of ACEs

#### Many People Report ACEs

According to data collected from more than 144,000 adults across 25 states between 2015 and 2017:



61% reported experiencing at least one type of ACE

**16%** reported experiencing 4 or more types of ACEs

#### Some Groups Are More Likely to Have Experienced ACEs

Studies show that people who identified as memebers of these groups as adults reported experiencing significantly more ACEs:







Black, Hispanic/ Latino, or multiracial people

People with less than a high school education

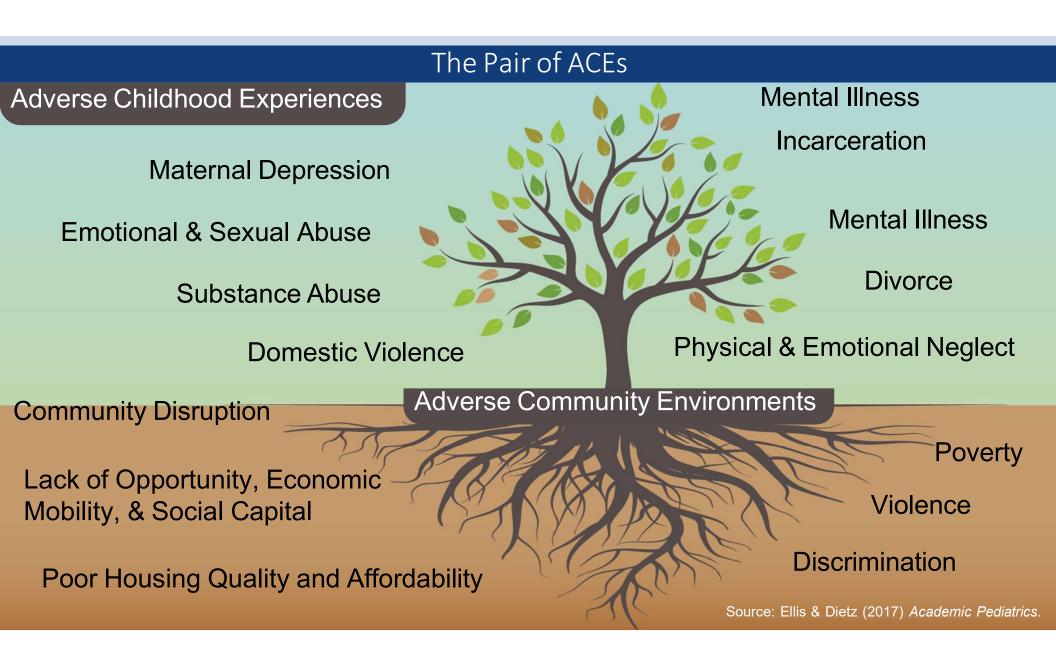
People making less than \$15,000 per year



People who are unemployed or unable to work

Lesbian, gay, bisexual, or transgender people

https://www.cdc.gov/violenceprevention/communicationresources/veto.html



## **CDC's Programmatic Efforts**

#### Programmatic Notice of Funding Opportunity (NOFO)

Sexual Violence Prevention RPE **Rape Prevention** and Education Child Abuse and Neglect **DELTA AHEAD** Prevention Division of Violence **Domestic Violence Essentials for** Intimate Partner Violence Prevention Prevention & **Preventing ACEs** Enhancement and Prevention Adverse Childhood Experiences Programmatic NOFOs Leadership Through **Essentials for** Alliance Childhood: Preventing Prevention F Adverse Childhood **Experiences through** Data to Action PREVAYL **Preventing Violence** Affecting Young Lives Youth Violence & Teen Dating Violence Prevention Page 15

# Thank you!

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#### Resources

#### **CDC Violence Prevention**

www.cdc.gov/violenceprevention

#### CDC VetoViolence

https://vetoviolence.cdc.gov

# Community Violence Prevention Resource for Action

A Compilation of the Best Available Evidence for Youth and Young Adults

Phyllis Ottley, PhD Associate Director for Program Division of Violence Prevention National Center for Injury Prevention and Control



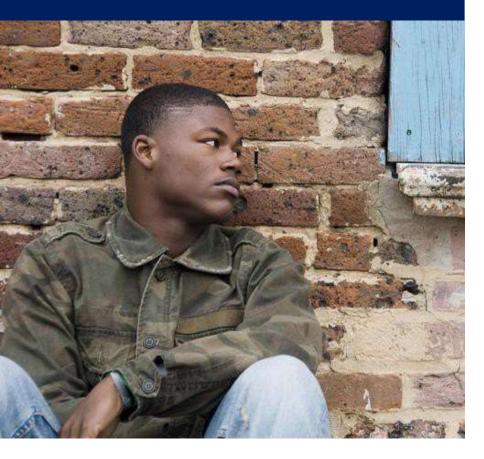
# Overview



- What is community violence?
- Overview of CDC's violence prevention resources for action
- Review the Community Violence Prevention Resource for Action
- Discuss CDC tools and resources
- Questions and comments

# What is Community Violence?

#### Community Violence (CV) Definition



- Community violence happens in public places (e.g., streets, parks), between people who may or may not know each other.
- Examples include assaults, fights among groups, homicides, and fatal and nonfatal shootings.
- Youth and young adults (ages 10-34), are at greatest risk of CV.
- Youth and young adults from some racial and ethnic minority groups experience inequities in risk for community violence.

#### Overview of CDC's Violence Prevention Resources for Action



#### What is a Prevention Resource for Action?

...a select group of strategies based on the **best available evidence** to help communities and states sharpen their focus on priorities with the **greatest potential** to reduce CV and inequities in risk for CV.

#### **Considerations for Inclusion**

# Example programs, policies, and practices selected based on the best available evidence:



Meta-analyses, systematic reviews, or rigorous evaluation studies showing impacts on community violence or risk/protective factors



Beneficial effects on multiple forms of violence

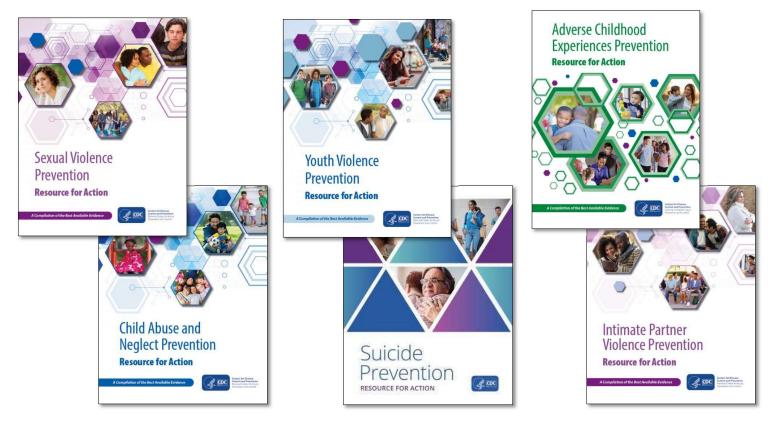


Feasibility of implementation in U.S. if evaluated in another country



No evidence of harmful effects on specific outcomes or with subgroups

#### CDC's Resources for Action: Violence and Suicide Prevention



https://bit.ly/CDC-Resources-for-Action



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## Benefits of a Prevention Resource for Action



Centers commitment to action on the best available evidence



Promotes a comprehensive approach to violence prevention efforts



Achieves substantial and synergistic improvement in outcomes

## **Community Violence Prevention Resource for Action**

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#### Components of the Community Violence Resource for Action



- Centering communities
- Emphasizing drivers of inequities
- Addressing harmful narratives
- Updating existing examples
- Adding 18 new examples

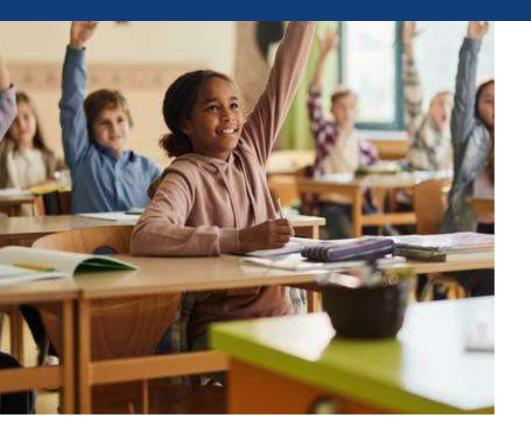
#### Strengthen Economic Supports



#### Tax credits

- Income support policies
- Social insurance programs
- Investment accounts

#### Provide Quality Education



Preschool enrichment with family engagement

Increasing equitable educational attainment for youth and young adults

#### Create Protective Environments



- Modify the physical home environment
- Modify the physical and social community environment
- Reduce exposure to harmful community conditions
- Street outreach and community norm change

## Promote Healthy Relationships



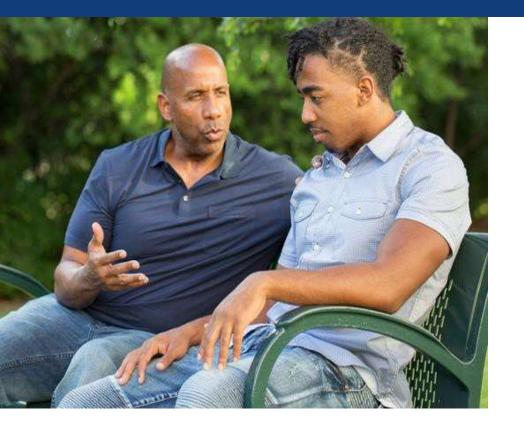
- Early childhood home visitation programs
- Parenting skills and family relationship programs

## Strengthen Youths' and Young Adults' Skills



- School-based skill building programs
- Job training and employment programs

#### Connect Young People to Caring Adults and Activities



- Mentoring programs
- After-school programs

#### Intervene to Lessen Harms and Prevent Future Risk



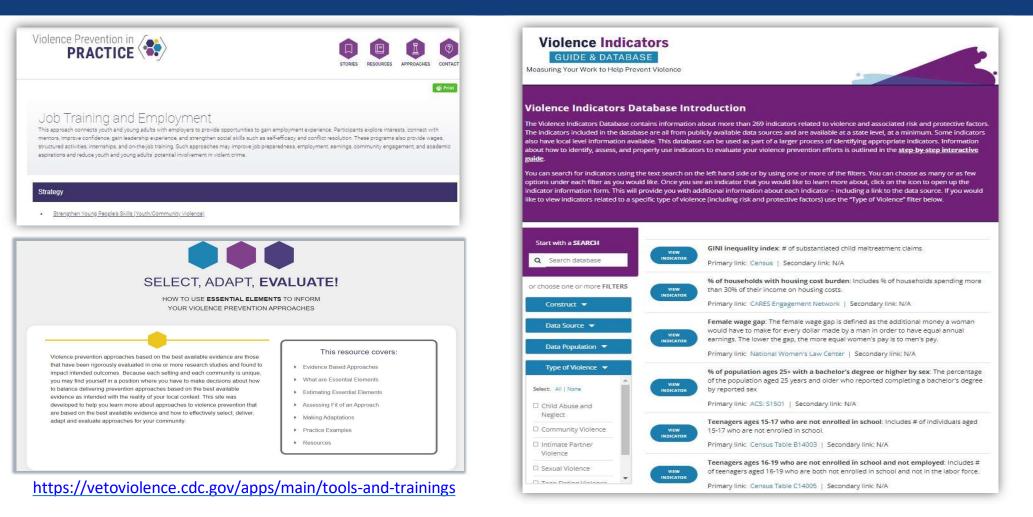
- Treatment to lessen the harms of violence
- Treatment to prevent problem behaviors & further involvement in violence
- Hospital-community partnerships
- Community-justice partnerships

## **Other Sections**



- Benefits relative to costs
- Collaboration and Partnerships
- Evaluation
- Future Directions

#### **CDC** Tools and Resources



#### Preventing Violence Affecting Young Lives (PREVAYL)

#### **Programmatic initiative to prevent violence impacting youth**



- Address multiple forms of violence impacting adolescent and young adults in communities with high rates of violence.
- Implement complementary, evidence-based violence prevention strategies focused on the community and societal levels of the social-ecological model.

#### **Thank You!**

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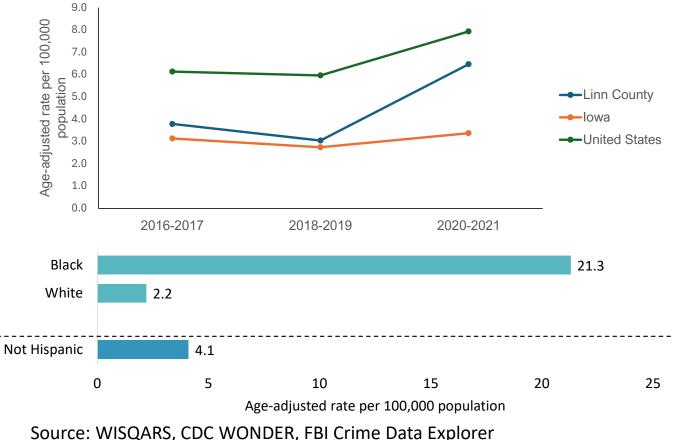
# Preventing Youth and Community Violence at a Local Level

Stories from the Field

Presented by Amy Hockett, PhD, MPH, CHES© Assessment & Health Promotion Manager Linn County, IA

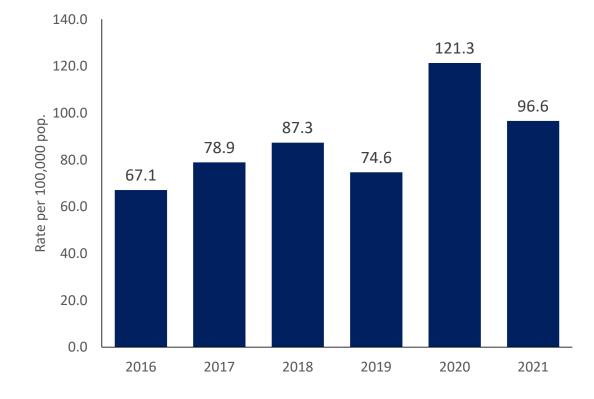


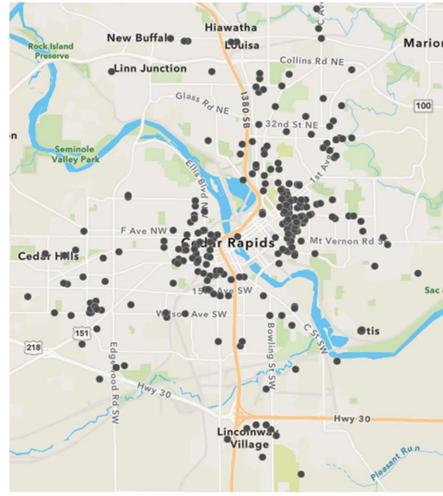
### Homicide in Linn County, IA



- While relatively small, homicide rates have increased overtime among individuals 15 to 34 years.
- Between 2016 and 2020, 88.2%
   of homicide cases in Linn
   County occurred within Cedar
   Rapids, IA.
- ☆ A Handgun or Firearm was involved in 69% of homicides between 2018 and 2021.

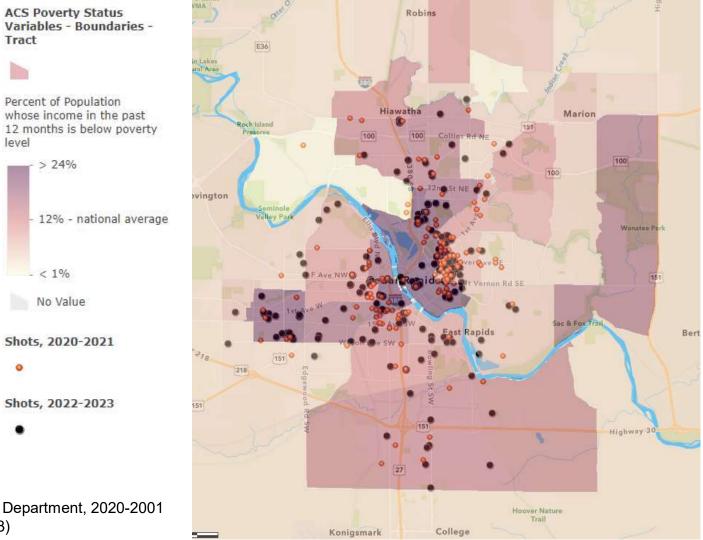
## Shots Fired: Cedar Rapids, IA





Source: Cedar Rapids Police Department, 2019-2021 (n = 349)

#### **Shots Fired** Incidents 2020-2023



Source: Cedar Rapids Police Department, 2020-2001 (n = 300); 2022-2023 (n = 203)

Tract

level

0

68

#### **Inception of Violence Prevention**

#### CREATING SAFE&UITABLE COMMUNITIES

**FEBRUARY 2017** 

SUBMITTED TO: Cedar Rapids City Council, Linn County Board of Supervisors and Cedar Rapids Community School District

PREPARED BY: Stacey Walker, co-chair SET Task Force and Dr. Mary Wilcynski, co-chair SET Task Force









## The Collaborative







Together! Healthy Linn

**Representatives From:** 

- Crisis Services
- Law Enforcement
- Corrections
- Media
- Public Health
- Faith-Based
- Victims Services
- Housing Services
- Business

- Healthcare
- Mental Health
- Youth Enhancement Programs
- Local Government
- Education
- Employment Services
- Grassroots Organizations
- Community Members
- Non-profit
- Many More...

## **PREVAYL: Community Level Intervention**

- Priority Population: Black youth and young adults14-24 years of age
- Goal 1: Strategy Implementation
  - Street outreach and social norm change
  - Public engagement and education campaigns
- Goal 2: Strategic Collaboration
- Goal 3: Program Evaluation
  - Leverage existing data to evaluate project impact
  - Data sharing and availability across partners



## **Group Violence Intervention Strategy**

Law Enforcement	Support & Outreach	Community Moral	Strategy
Committee	Committee	Voice	Components
<ul> <li>Cedar Rapids Police Department</li> <li>High-Risk Unit</li> <li>Attorneys</li> <li>Juvenile Court Services</li> </ul>	<ul> <li>Social Services</li> <li>Housing Services</li> <li>Crisis Response</li> <li>Educational Providers</li> <li>Workforce Development</li> <li>Behavioral Health</li> <li>Other SDoH</li> </ul>	<ul> <li>Voice of Redemption</li> <li>Voice of Pain</li> <li>Voice of Hope</li> </ul>	<ul> <li>Custom Notifications</li> <li>Call-in</li> <li>Community, Police Response to Victims of Violence (CPRVV)</li> </ul>





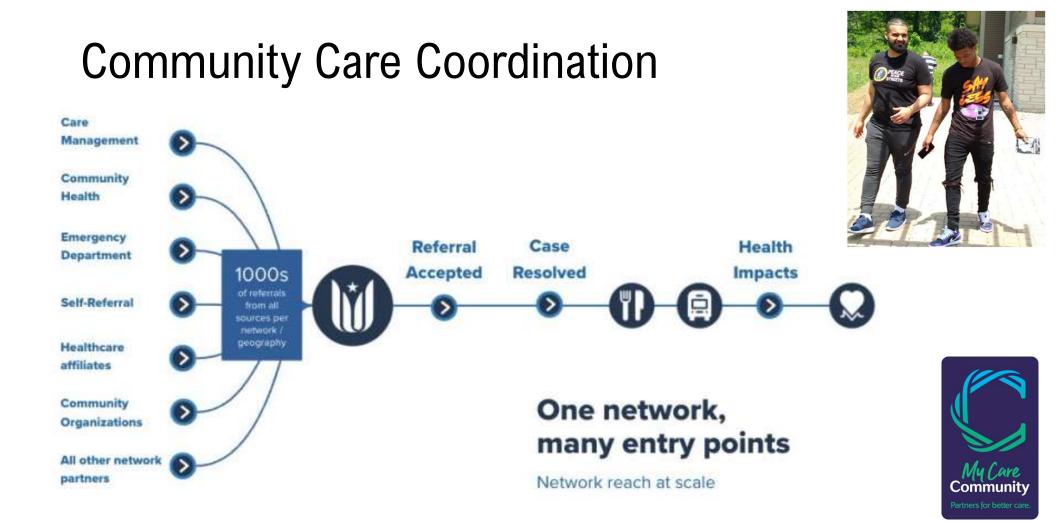


## **Custom Notification**

### **Group Violence Intervention Messaging**

- We are here to keep you safe, alive and out of prison
- Stand Up for Peace is a communitywide initiative to keep the community, and you, safe from violence
- We care about you; we are here today to show you we care
- You're not in trouble; **however**, we won't tolerate more violence
- Help is available. We have Outreach Workers and services ready if you want it





## Call-in

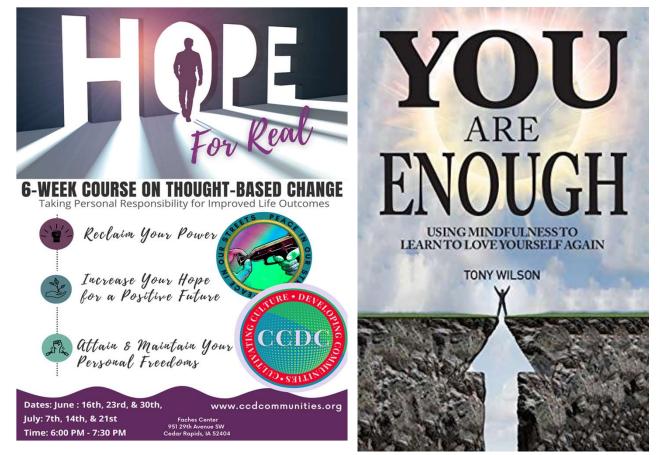


#### **Evaluation of Impact** PRAPARE®: Protocol for Responding to and Assessing Patient Assets. Risks. and Experiences Paper Version of PRAPARE® for Implementation as of September 2, 2016 Personal Characteristics 1. Are you Hispanic or Latino? 8. Are you worried about losing your housing? I choose not to answer this Yes No Yes No I choose not to answer this **Client Overview** question question UNITE US INSIGHTS 2. Which race(s) are you? Check all that apply What address do you live at? 9. Understand the demographics of clients served Street: City, State, Zip code: Asian Native Hawaiian Pacific Islander Black/African American Clients and Cases Accepted Referrals ●Max ●Min **Resolved** Cas Case Clients Cases White Money & Resources American Indian/Alaskan Native 10. What is the highest level of school that you 392 Clients Other (please write): 274 Clients 315 Clients Network: I choose not to answer this question have finished? 664 Cases 390 Cases 460 Cases Unite Us Network At any point in the past 2 years, has season or Less than high High school diploma or 3. 70% of clients migrant farm work been your or your family's school degree GED 1.7 Avg cases per 80.4% of clients have main source of income? More than high I choose not to answer Case Created At resolved cases client an accepted referral school this question 6/15/2021 6/7/2023 I choose not to answer this Yes No question 11. What is your current work situation? D Full-time 4. Have you been discharged from the armed forces of Part-time or **Clients Geographic Distribution** Unemployed Geography **Clients Race and Ethnicity Breakdown** (Click to filter deshboard) the United States? temporary work work HIGH - LOW % of clients (Click to filter das Otherwise unemployed but not seeking work (ex: State: 164 Hispanic or Latino Yes No I choose not to answer this student, retired, disabled, unpaid primary care giver White IA. . (41.8%)Not Hispanic or Latino Undisclosed County Undisclosed . Linn (A Black/African American 99 18 4061 9 (2.3%) (25.3%) 165 Client Other Race (42.1%) Ape Group American Indian or Alaska Native 10 8243 -[All] 128 Native Hawaiian or Pacific Islander (32.7%) Gender (All) . **Clients Age and Gender Comparison** Race: (AII) . Pediatric (0-17) Senior (65+) Age out of bounds (Entry Error) Adult (18-44) Older Adults (45-64) Ethnicity: (AII) .... Community Gender Å. Number of Clients Distribution by Age Group Female 250 Military Affiliation (AII) Male 82 . Non-Binary 1 59 Undisclosed 76 0.0% 20.0% 40.0% 60.0% 80.0% 100.0% @ 2023 Mapbox @ OpenStreetMap

#### PRAPARE

Protocol for Responding to and Assessing Patients' Assets Risks and Experiences

# **Tertiary Prevention – Thought Based Change**



- 91% of participants reported heightened awareness of their ability to create a more desirable future
- "I just realized that I stuck living in the past while being here in the present doing that is ruining my I'm done doing that."



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# **Community Engagement and Social Norms**

JOIN US FOR A

## COMMUNITY CONVERSATION

WITH STAND UP FOR PEACE THURSDAY, JUNE 22<sup>ND</sup> AT 5PM



HAVE A CHANCE TO LISTEN AND TALK WITH OTHER PEOPLE IN OUR COMMUNITY. LEARN ABOUT THE GROUP VIOLENCE INTERVENTION SERVICES IN THE COMMUNITY AND HOW YOU CAN TAKE AN ACTIVE ROLE TO HELP.

LOWER LEVEL OF THE TANAGER BUILDING - 1030 5<sup>TH</sup> AVE SE





## Violence Prevention through Skill Building



## Violence Prevention through the Power of Bikes





**Mission**: "At Chain Reaction Bike Hub, we are driven by an unwavering commitment to transforming lives and communities through the power of bicycles. Our mission is to create a sustainable, inclusive, and healthy world by providing equitable access to bicycles, fostering a sense of independence, empowering the communities we serve, and promoting environmental stewardship."

Website - <u>www.crbikehub.org</u> Facebook – crbikehub Instagram - crbikehub



## **Connect Youth to Caring Adults and Activities**



## **Evaluation of Overall Impact**

- Iowa Youth Survey
- BRFSS
- Uniform Crime Data
- CRPD/ Linn County Sheriffs
- Inpatient/Outpatient Data
- Pre-Post Test survey
  - Hope for Real (10-week cohort)
  - Universal Parenting Class (7-week)
  - The Council for Boys and Young Men
     (10-week)
- Participant involvement (custom notifications/call-ins)
- Client Outcomes/Stories

- Annual community health assessment
- Meeting and outreach involvement (sign-in & attendance)
- Outreach feedback form
- UniteUs data dashboard (needs/referrals)
- Social media impressions
  - Website access analytics
  - Estimated population exposure (ex: bus wrap)



## **Contact Information**



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