Suicide Trends & Prevention

Our vision: No lives lost to suicide

National Center for Injury Prevention and Control

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Suicide and Suicidal Behavior, United States, 2020



Nearly

46,000

people died by suicide in 2020



1 death every

1 minutes

Many adults think about suicide or attempt suicide

12.2 million

Seriously thought about suicide

3.2 million

Made a plan for suicide

1.2 million

Attempted suicide

Among high school students during COVID-19:

20%

Seriously thought about suicide

15%

Made a plan for suicide

9%

Attempted suicide

Leading Causes of Death by Race/Ethnicity, All Ages – United States, 2020

Rank	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/Alaska Native	Non-Hispanic Asian/Pacific Islander	Hispanic
1	Heart Disease	Heart Disease	COVID-19	Cancer	COVID-19
2	Cancer	Cancer	Heart Disease	Heart Disease	Heart Disease
3	COVID-19	COVID-19	Cancer	COVID-19	Cancer
4	Unintentional Injuries	Unintentional Injuries	Unintentional Injuries	Stroke	Unintentional Injuries
5	Chronic Low Respiratory Disease	Stroke	Liver Disease	Diabetes	Stroke
6	Stroke	Diabetes	Diabetes	Unintentional Injuries	Diabetes
7	Alzheimer's Disease	Homicide	Chronic Low Respiratory Disease	Alzheimer's Disease	Alzheimer's Disease
8	Diabetes	Chronic Low Respiratory Disease	Stroke	Chronic Low Respiratory Disease	Liver Disease
9	Influenza & Pneumonia	Alzheimer's Disease	Suicide	Influenza and pneumonia	Chronic Low Respiratory Disease
	Suicide=11 th leading cause	Suicide=15 th leading cause		Suicide=12 th leading cause	Suicide=12 th leading cause

Source: CDC Vital Statistics

Leading Causes of Death by Age Group – United States, 2020

Rank	10-14 Years	15-24 Years	25-34 Years	35-44 Years	45-54 Years	55-64 Years
1	Unintentional Injury	Unintentional Injury	Unintentional Injury	Unintentional Injury	Cancer	Cancer
2	Suicide	Homicide	Suicide	Heart Disease	Heart Disease	Heart Disease
3	Cancer	Suicide	Homicide	Cancer	Unintentional Injury	COVID-19
4	Homicide	Cancer	Heart Disease	Suicide	COVID-19	Unintentional Injury
5	Congenital Malformations	Heart Disease	Cancer	COVID-19	Liver Disease	Chronic Lung Disease
6	Heart Disease	COVID-19	COVID-19	Liver Disease	Diabetes	Diabetes
7	Chronic Lung Disease	Congenital Malformations	Liver Disease	Homicide	Suicide	Liver Disease
8	Diabetes, Influenza & Pneumonia	Diabetes	Diabetes	Diabetes	Cerebrovascular Disease	Cerebrovascular Disease
9	Diabetes, Influenza & Pneumonia	Chronic Lung Disease	Cerebrovascular Disease	Cerebrovascular Disease	Chronic Lung Disease	Suicide

Source: CDC Vital Statistics

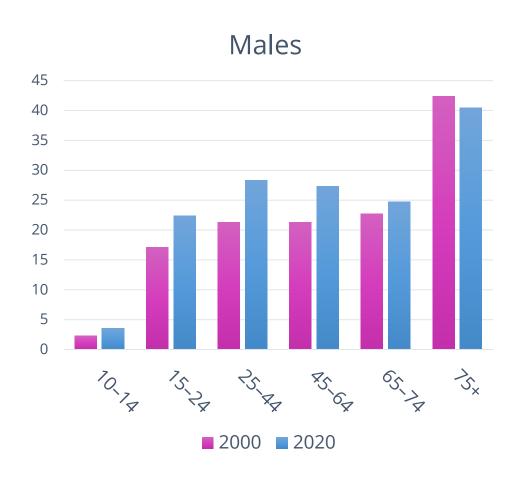
Age-adjusted Suicide Rates by Race/Ethnicity and Sex--United States, 2000 and 2020

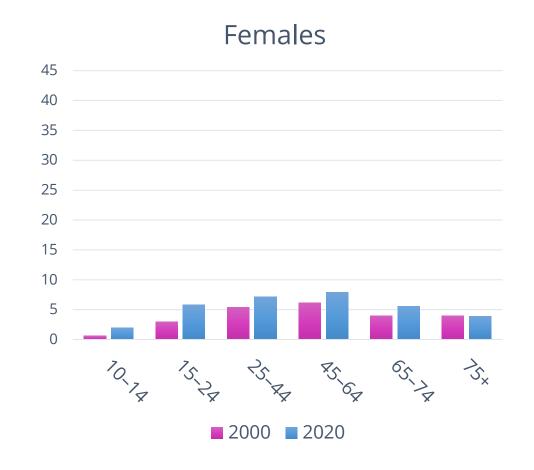


Note: White, Black, A/PI, and AI/AN are non-Hispanic with Hispanic including all races.

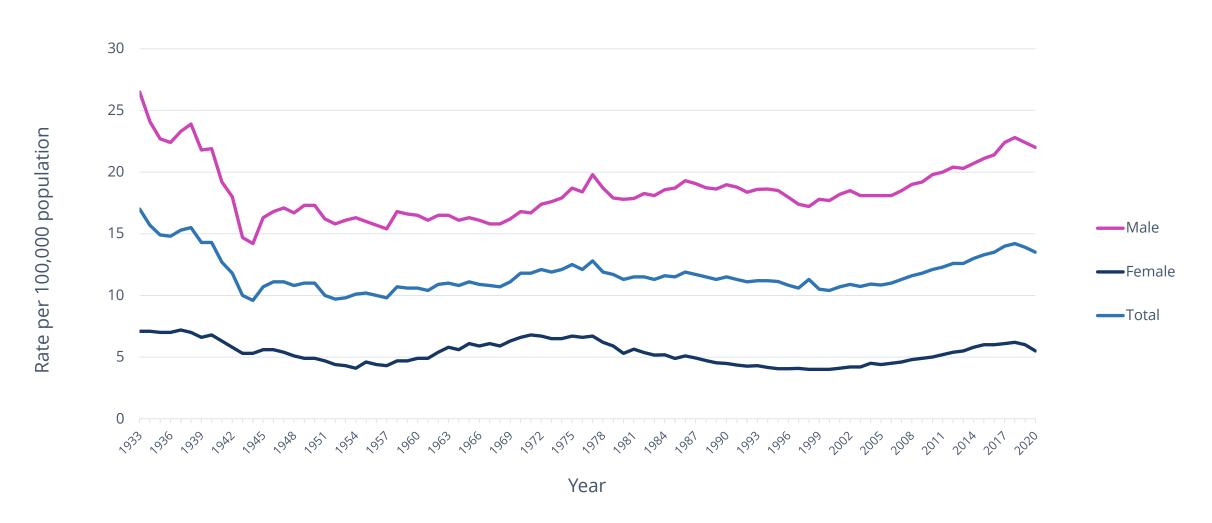
Source: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2020 on CDC WONDER Online Database, released in 2021.

Suicide Rates by Age Group and Sex- United States, 2000 and 2020

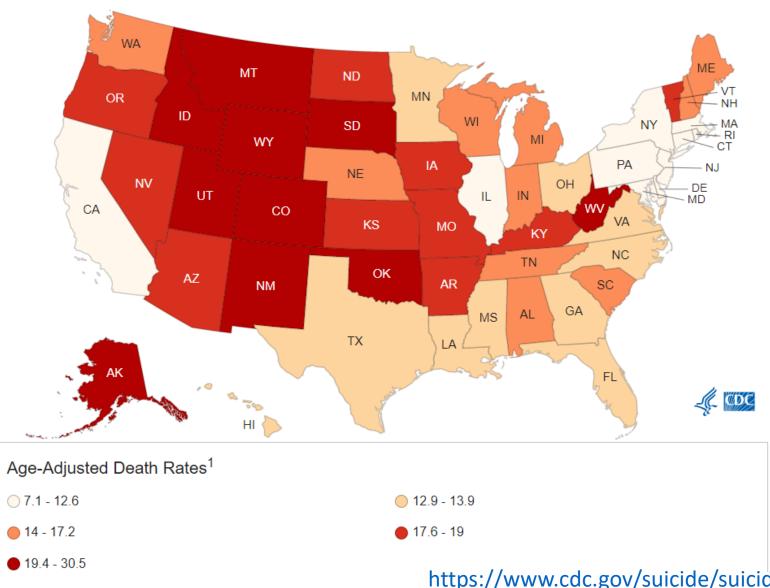




Suicide Rate Among All Persons by Sex – United States, 1933–2020



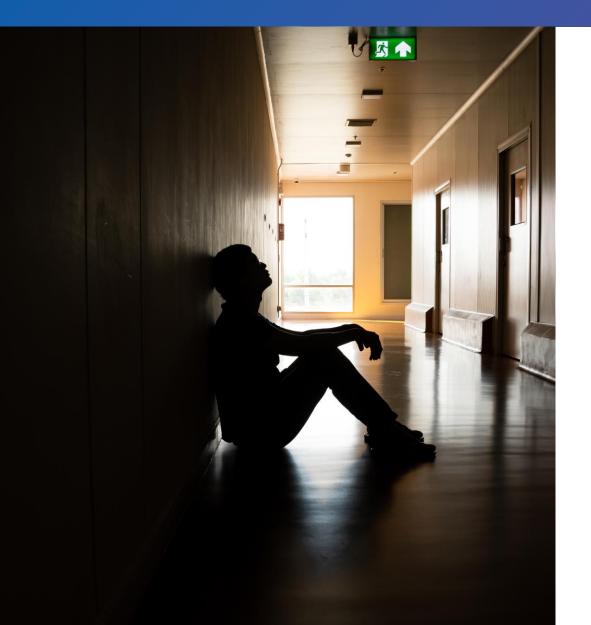
Suicide Rates by State, 2020

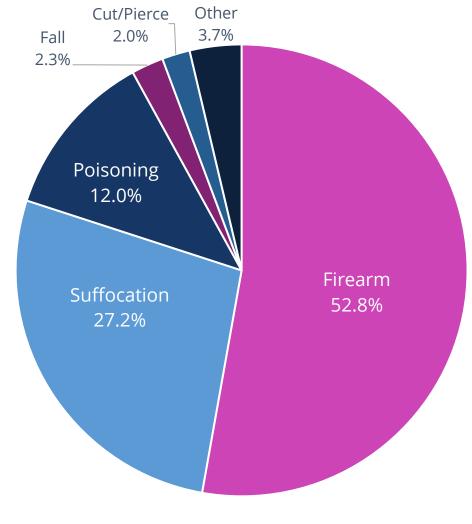


Source: CDC Vital Statistics

https://www.cdc.gov/suicide/suicide-rates-by-state.html

Suicide by Method – United States, 2020







22%

29%

Crisis in the



Physical health problem

28%



Problematic substance use

16%



Job/Financial problem

9%



Criminal/Legal problem

1 4%



Loss of housing

42%



Relationship problem

past or upcoming two weeks

Many factor

Many factors contribute to suicide in addition to known mental health conditions

Many factors contribute to suicide risk

Social Ecological Model

Risk Factors Societal Easy access to Geography Economy Cultural values lethal means Community Spirituality Incarceration Social isolation vs support Family history Exposure Relationship of suicide or to violence suicide attempts • Age • Sex Mental illness • Substance misuse • Stressful life events

Potential Contributors to Suicide Risk During COVID-19



Based on past disasters and current trends, impacts of COVID-19 may increase suicide risk by way of:



New or worsening mental health concerns (such as anxiety, depression)



Financial strain due to unemployment or economic downturn



Social distancing/ isolation



Increased interpersonal violence, including partner violence, Adverse Childhood Experiences (ACEs)

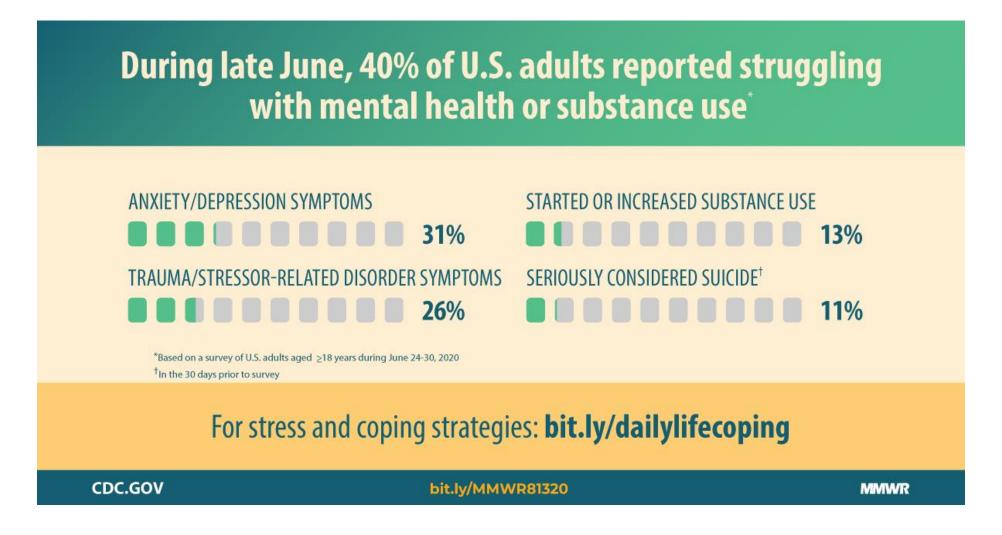


Increased substance use



Trauma associated with COVID-related deaths (among healthcare workers or other essential workers)

COVID-19 & Suicide Risk



Emergency department visits for suspected suicide attempts among U.S. girls ages 12–17 have increased during the COVID-19 pandemic*

February-March 2021

51% 1

From the same period in 2019

* After an initial drop CDC.GOV

Suicide can be prevented

- Increase social connections for youth
- ▶ Teach youth coping skills
- Learn the signs of suicide risk and how to respond
- Reduce access to lethal means (like medications and firearms)



Help is available 24/7 at suicidepreventionlifeline.org

bit.ly/MMWR61121

WWWR

06/11/2021

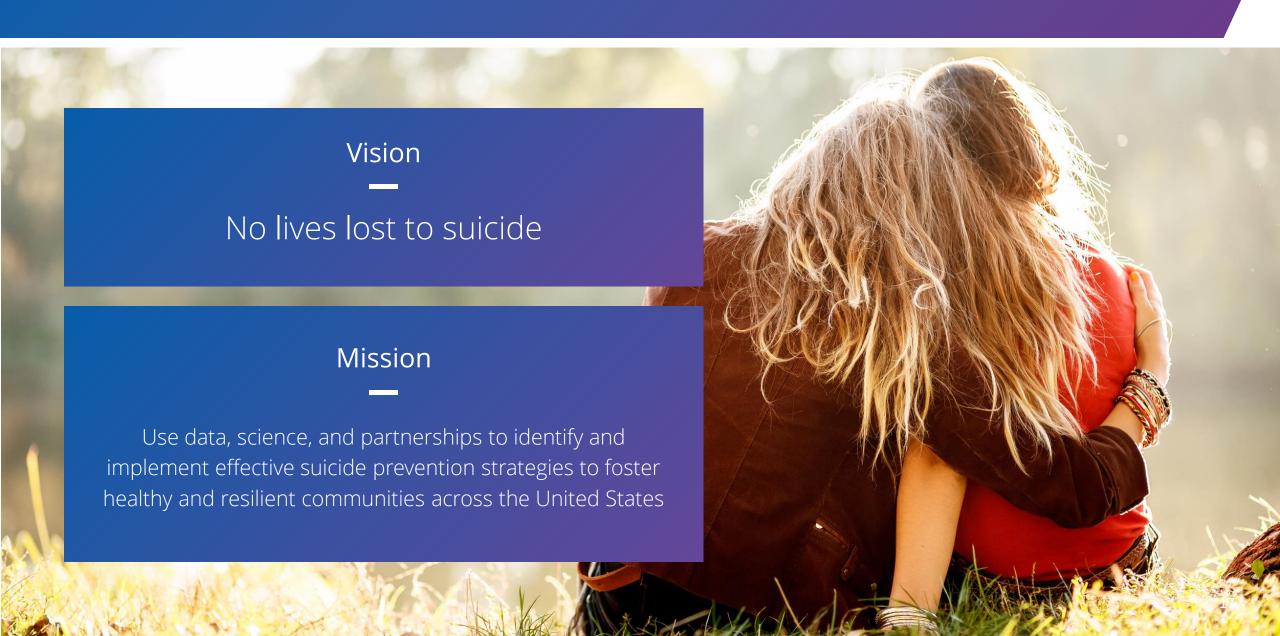
Youth Suicide Risk During COVID-19



CDC's Strategy for Suicide Prevention



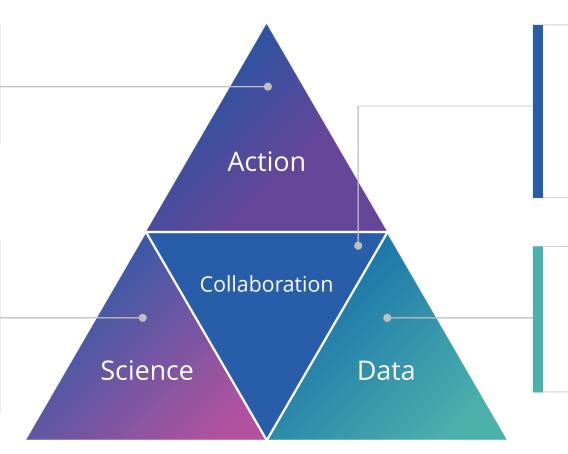
Our Vision & Mission



Our Suicide Prevention Priorities

Build the foundation for CDC's National Suicide Prevention Program

Identify risk and protective factors and effective policies, programs, and practices for suicide prevention in vulnerable populations



Develop and implement wide-reaching partnership and communication strategies to raise awareness and advance suicide prevention activities

Use new and existing data to better understand, monitor, and prevent suicide and suicidal behavior

CDC's Comprehensive Suicide Prevention (CSP) Program



Purpose of Comprehensive Suicide Prevention Program

To implement and evaluate a comprehensive public health approach to suicide prevention to reduce suicide morbidity and mortality, with specific attention to one or more *vulnerable populations*

Disproportionately Affected Populations

- Represent a significant proportion of the suicide burden (i.e., large number of suicides)
- Suicide/attempt rates greater than general population, in a jurisdiction (e.g., state, city/county, tribe)
- Examples: veterans, tribal populations, rural communities, LGBTQ, youth, other



A key outcome is a **10% reduction in suicide morbidity and mortality** in the disproportionately affected population(s) in the jurisdiction(s).

Activity 1: Develop the Comprehensive Approach

1

Multi-sectoral partnership plan

2

Surveillance data to select vulnerable population(s) and to understand circumstances of suicide in the population(s) 3

Inventory of ongoing suicide prevention programs in the jurisdiction(s) and identify prevention gaps and opportunities

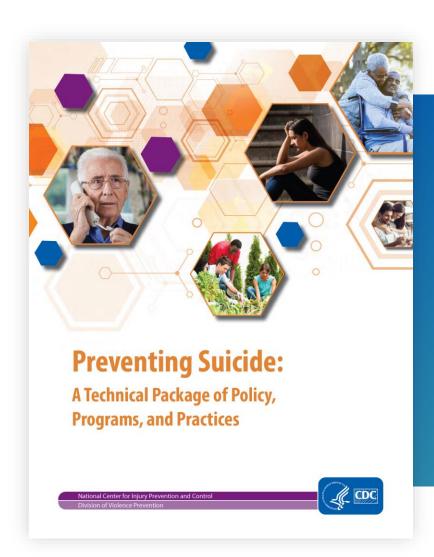
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Strategies & approaches from CDC's Suicide Prevention Technical Package 5

Communication and dissemination plan



Selection of Strategies from CDC's Technical Package



What is a technical package?

A technical package includes 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 prevent suicide.

Strategies

Broad direction to achieve goal of suicide prevention

Approaches

Ways to advance the strategies

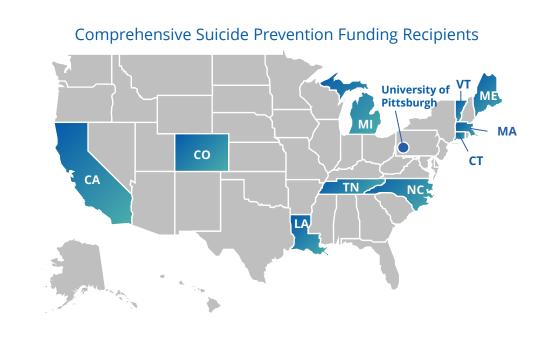
- Best available evidence.
 - Programs
 - Practices
 - Policies

CDC's Suicide Prevention Technical Package: Strategies & Approaches

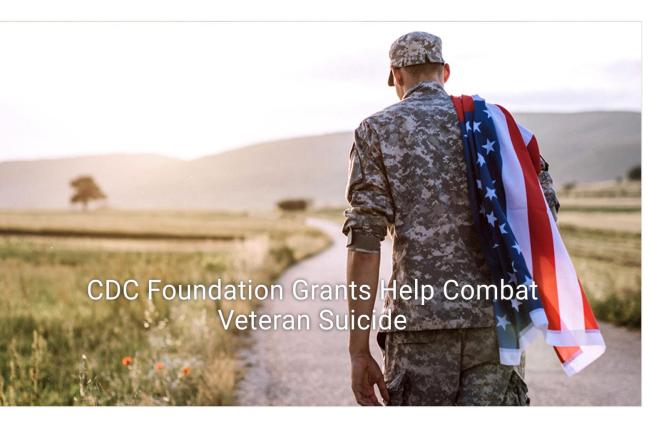
	1	2	3	4	5	6	7
Strategy	Strengthen economic supports	Strengthen access and delivery of suicide care	Create protective environments	Promote connectedness	Teach coping and problem-solving skills	Identify and support people at risk	Lessen harms and prevent future risk
Approach	 Strengthen household financial security Housing stabilization policies 	 Coverage of mental health conditions in health insurance policies Reduce provider shortages in underserved areas Safer suicide care through system change 	 Reduce access to lethal means among persons at-risk of suicide Organizational policies and culture Community- based policies to reduce excessive alcohol use 	 Peer norm programs Community engagement activities 	 Social- emotional learning programs Parenting skill and family relationship approaches 	 Gatekeeper training Crisis intervention Treatment for people at-risk of suicide Treatment to prevent reattempts 	 Postvention (activities that reduce risk and promote healing after a suicide death) Safe reporting and messaging about suicide

CSP Recipients, 2020 & 2021

- 1. California Department of Public Health
- 2. Colorado Department of Public Health and Environment
- 3. Connecticut Department of Public Health
- 4. Louisiana Department of Health
- 5. Maine Department of Health and Human Services
- 6. Massachusetts Department of Public Health
- 7. Michigan Department of Health and Human Services
- 8. North Carolina Department of Health and Human Services
- 9. Tennessee Department of Health
- 10. University of Pittsburgh
- 11. Vermont Department of Health

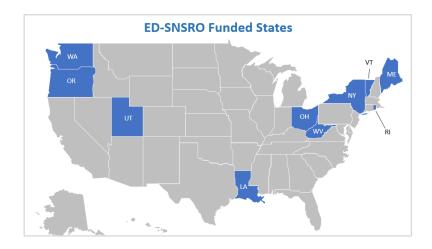


CDC is Strategically Implementing Suicide Prevention Programs





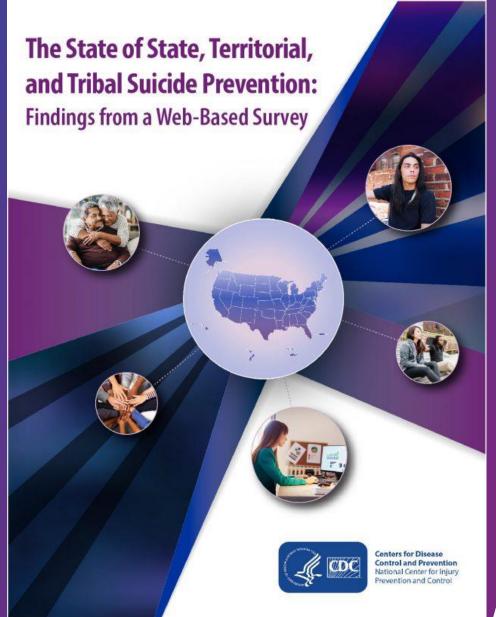




ED SNSRO--Emergency Department Surveillance of Nonfatal Suicide Related Outcomes

The State of State, Territorial, and Tribal Suicide Prevention: Findings from a Web-Based Survey

https://www.cdc.gov/suicide/resources/sos.html





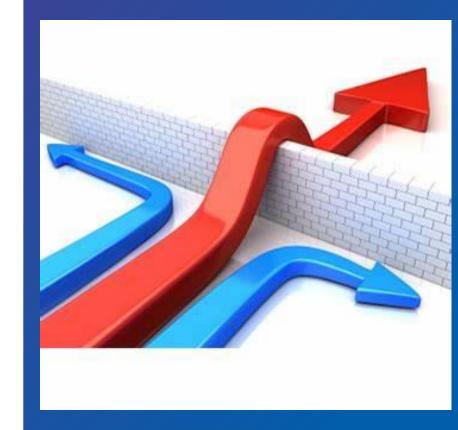
Topic of suicide prevention legislation passed 2012-2017	Percent
K-12 suicide prevention	76.5
Crisis support services	39.2
Mental health parity/ insurance coverage	39.2
Military/veteran support	37.3
Funding appropriation for suicide prevention	37.3
Public awareness campaigns	35.3
Behavioral health services	31.4
Health/Mental health provider training/ed	29.4
Suicide prevention capacity or infrastructure	27.5
Lethal means	25.5
Prevention planning/implementation/evaluation	25.5
Public/private partnership (e.g., commission)	21.6
Graduate training requirements in suicide prev.	11.8
Workplace suicide prevention	5.9

Legislation passed in the past 5 years prior to the survey



Results – Top Barriers for Suicide Prevention

Barriers	States	Territories	Tribes
Lack of sufficient funding	X		
Lack of adequate staffing	X		X
Lack of surveillance resources	X		X
Lack of suicide prevention legislation and policies	X	X	
Lack of coordination and integration of services between partners			X





Results – Top Facilitators

Facilitators	States	Territories	Tribes
Increased awareness of suicide as a public health issue	X	X	X
The National Strategy for Suicide Prevention	X	X	
Federal and national guidance materials	X		
Partnerships across key sectors	X		
Surveillance resources		X	
Funding dedicated to suicide prevention			X
Strategic plans		X	





Additional Resources & Links



Technical package

https://www.cdc.gov/suicide/pdf/suicideTechnicalPackage.pdf

CDC's Veto Violence Website

https://vetoviolence.cdc.gov/apps/violence-prevention-practice/ Information on selecting/implementing strategies in the technical package.

Transforming Communities:

Key elements for comprehensive community-based suicide prevention

 $\underline{https://theactional liance.org/resource/transforming-communities-key-elements-} \underline{implementation-comprehensive-community-based-suicide}$

CDC Evaluation Framework

www.cdc.gov/eval/framework/

CDC Welcome Packet

www.cdc.gov/grants/welcome-packet/

CDC Suicide Prevention Strategic Plan

www.cdc.gov/violenceprevention/suicide/strategic-plan/

CDC Suicide Data Sources

www.cdc.gov/injury/wisqars/







Extra Slides

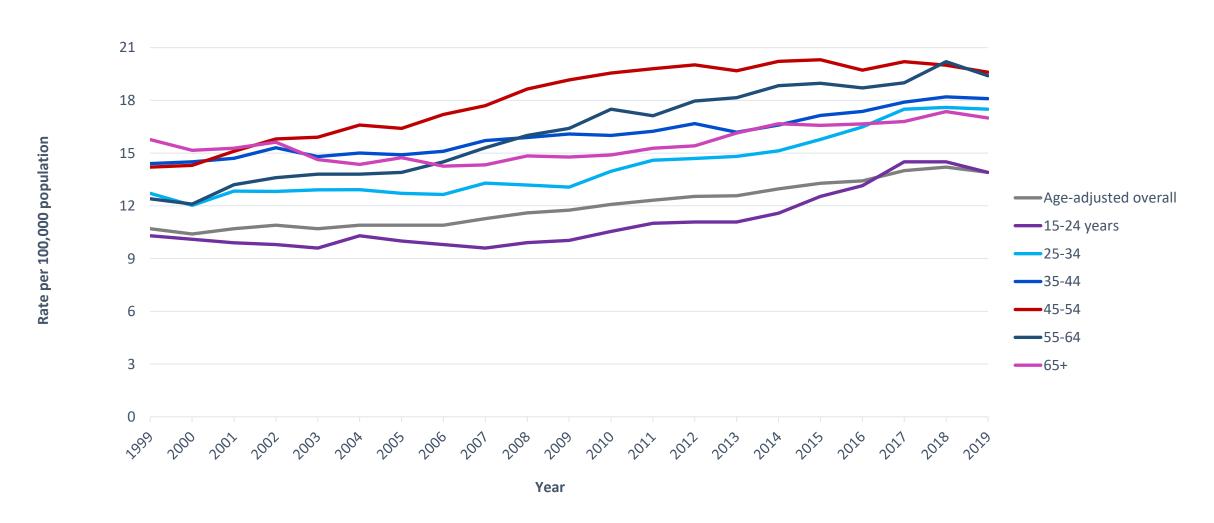
Suicide Rates by Age and Sex – United States, 2020



33

Source: CDC Vital Statistics

Suicide among all persons by selected age groups – United States, 1999-2019



Source: CDC Vital Statistics

Public Health Approach to Suicide Prevention

The public health approach seeks to answer the foundational questions:

- o What is the problem?
- How can we prevent it from occurring?

To answer these questions, public health uses a systematic, scientific method for understanding and preventing suicide.



SOS Purpose

- CDC conducted an environmental scan in 2018. The scan had six main objectives:
- Identify, document, and synthesize information about state, territorial, and tribal (STT) policies, programs, infrastructure, and other prevention activities
- Describe climate around suicide prevention
- Identify barriers/facilitators to implementing prevention strategies
- Identify how these factors may relate to variation in suicide rates
- Provide insight into suicide rate increases
- Share lessons learned





SOS Methods

Eligible participants

- Up to 3 representatives per STT jurisdiction
- Suicide prevention coordinators, grant program directors, other state officials, delegates

Survey

- Web-based, hosted in Epi Info
- 54 questions, covering 10 domains

Analysis

- SPSS statistical software
- Results weighted to the state, territorial, and tribal levels
- 138 respondents-- 87 (states), 6 (territories), 45 (tribes)

Domains

Awareness of recent suicide trends Data sources Infrastructure* Prevention planning* Collaboration Legislation/policy* Prevention readiness/capacity Populations addressed Risk & protective factors Barriers & facilitators*

