

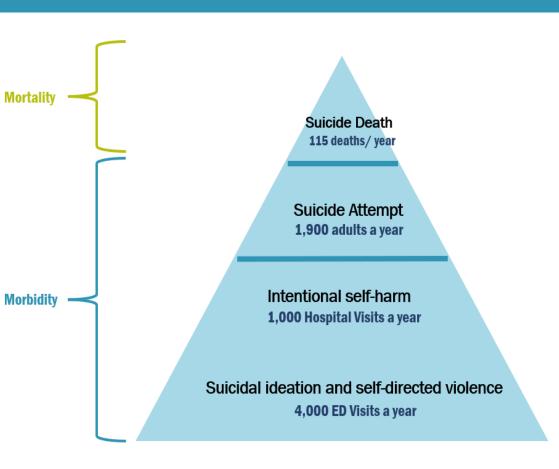
# **Suicide Morbidity and Mortality in Vermont**

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Crisis text line data through 2020
Self-harm data through 2019
Emergency Department surveillance Data through 2020
YRBS and BRFSS data through 2018
Mortality statistics through 2020



## Why focus on suicide morbidity and mortality?

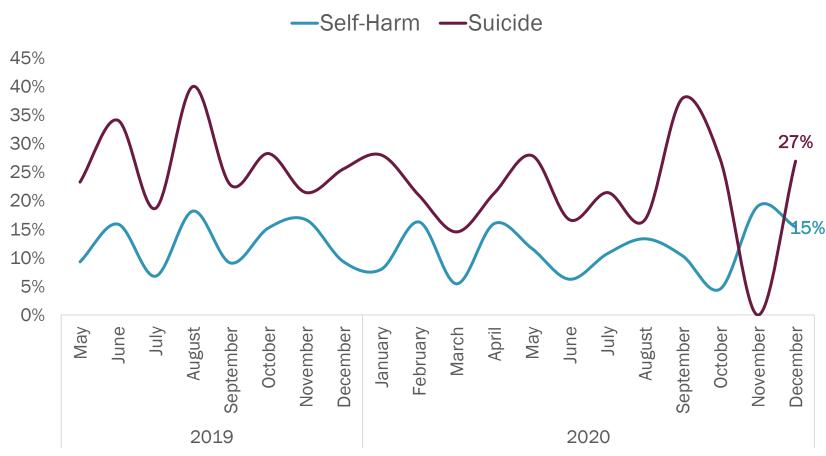


- Suicide is a preventable public health problem.
- For every suicide death, there are many people who visit the hospital for self-harm or suicidal ideation, endorse suicidal thoughts or plans, or attempt suicide. These thoughts and behaviors are sometimes risk factors for suicide.

Source: Vermont Vital Statistics, 2018-2020; Electronic Surveillance System for the Early Notification of Community-based Epidemics, 2019; 2018 Behavioral Risk Factor Surveillance System.

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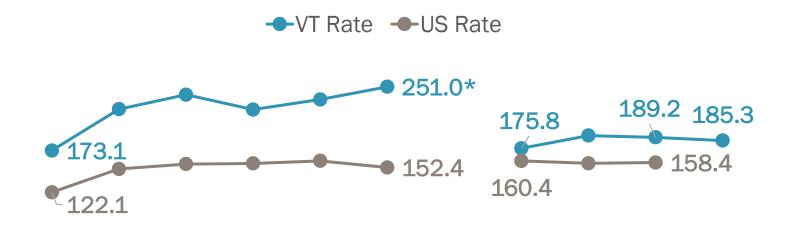
# Vermont crisis text line: Percent of texters identifying suicide and self-harm as a current issue has changed over time.



Source: Vermont Crises Text Line, 2019-2020.

# Vermont hospital visit rates for intentional selfharm are higher than the U.S. rates

# **Intentional Self-Harm Emergency Department Visits and Hospitalizations**Age adjusted rate per 100,000 residents



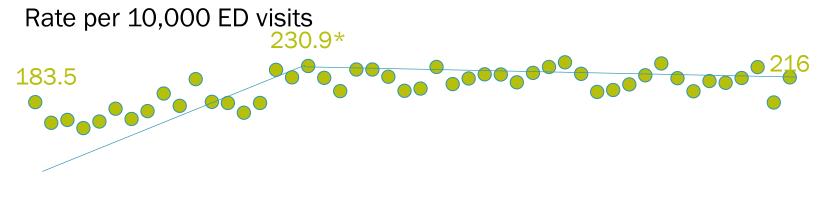
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

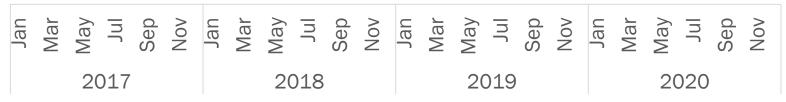
Source: Vermont Uniform Hospital Discharge Data System, 2009-2019. Vermont Department of Health

<sup>\*</sup> Statistically significant.

# Suicide-related ED visits significantly increased through mid- 2018 and have since not changed significantly.

### Suicidal Ideation and/or Self-Directed Violence ED visits

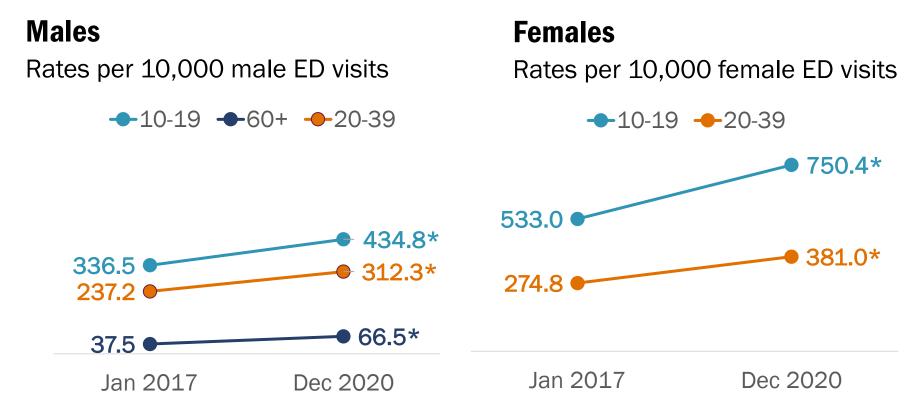




<sup>\*</sup>The rate significantly increased from January 2017 through June 2018. The increase from July 2018 to December 2020 is not statistically significant.

Source: Electronic Surveillance System for the Early Notification of Community-Based Epidemics, 2017-2020.

# Suicide-related ED visits are increasing for specific age groups among both males and females.\*

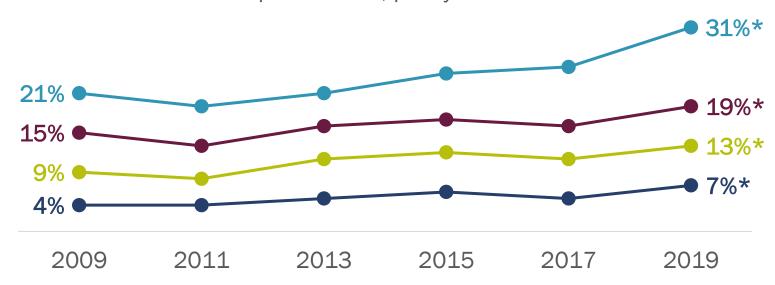


<sup>\*</sup> Statistically significant.

Source: Electronic Surveillance System for the Early Notification of Community-Based Epidemics, 2017-2020.

# Suicide-related risk factors have increased among high school aged students.

- Felt sad or hopeless 2+ weeks
- Purposely hurt self without wanting to die
- Made a suicide plan, past year
- Attempted suicide, past year



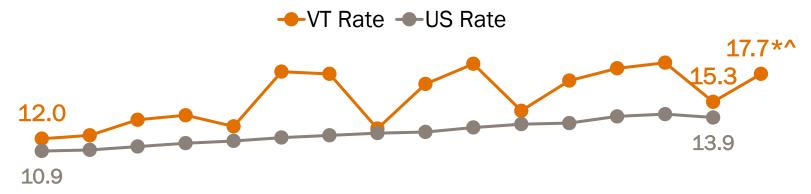
<sup>\*</sup> Statistically significant.

Source: Youth risk behavior survey (YRBS), 2009-2019.

# Vermont's suicide rate has significantly increased and is higher than the U.S.

#### **Suicide Deaths**

Age adjusted rate per 100,000 residents





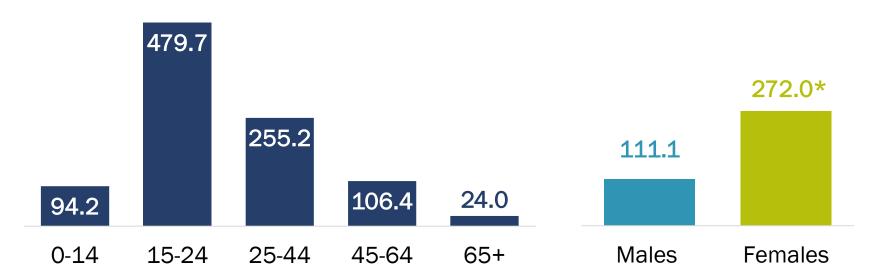
<sup>\*</sup> Statistically significant.

Source: Vermont Vital Statistics, 2005-2020. ^2020 data is preliminary as of July 2021.

# Intentional self-harm is significantly higher in 15 to 24year olds. Females are two times more likely to visit a hospital for intentional self-harm.\*

### **Hospital Visits for Intentional Self-Harm.**

Rates by age and sex per 100,000 Vermont residents.



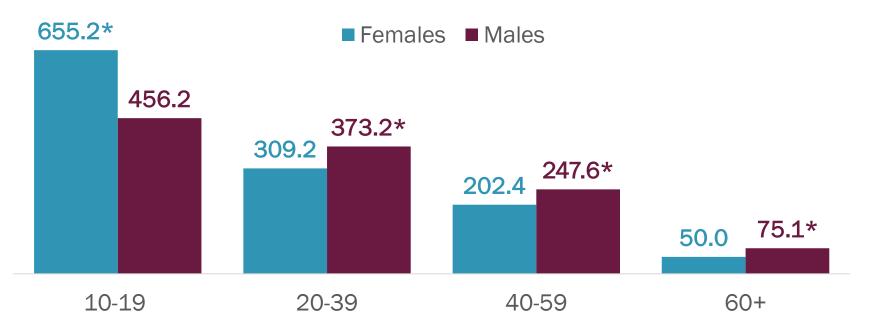
<sup>\*</sup> Statistically significant.

Source: Vermont Uniform Hospital Discharge Data System, 2017-2018.

# Suicide-related ED visits are higher for young females. Visits for Vermonters 20 years and older are higher for males.

### **ED Visits for Suicidal Ideation and/or Self-Directed Violence.**

Rates by age and sex per 10,000 ED visits.



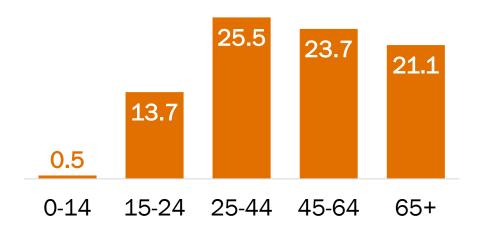
<sup>\*</sup> Statistically significant.

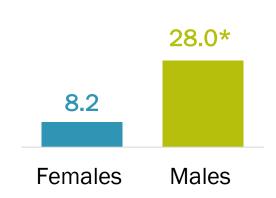
Source: Electronic Surveillance System for the Early Notification of Community-Based Epidemics, 2020.

# Suicide death rates are higher for Vermonters over the age of 25. Males are three times more likely to die by suicide.\*

### **Death by Suicide.**

Rates by age and sex per 100,000 Vermont residents.





Source: Vermont Vital Statistics, 2018-2019.

<sup>\*</sup> Statistically significant.

# Vermont populations at risk for intentional selfharm and suicide.

#### Black, Indigenous, and People of Color (BIPOC) Persons

- Students: more likely to feel sad or hopeless, have made a suicide plan or attempted suicide.
- Adults: more likely to have depression.
- More likely to visit the ED for a suicide-related reason.

#### **LGBT Vermonters**

- More likely to feel sad or hopeless or have depression.
- Students: More likely to have made a suicide plan or attempted suicide.
- Adults: More likely to have suicidal thoughts

Source: Electronic Surveillance System for the Early Notification of Community-Based Epidemics, 2017-2019; Youth Risk Behavior Survey, 2019; Behavioral Risk Factor Surveillance System, 2018; Vermont Vital Statistics, 2018-2019.

# Vermont populations at risk for intentional selfharm and suicide.

#### Adults with a disability

More likely to have suicidal thoughts.

#### **Veterans who served in the armed forces**

Represent 20% of suicide deaths.

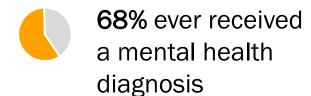
#### Adults who experience social isolation

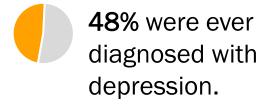
Most common for adults over the age of 65.

Source: Behavioral Risk Factor Surveillance System, 2018; Vermont Vital Statistics, 2018-2019.

# Risk factors are prevalent among Vermonters who have died by suicide.

#### **Mental Health**

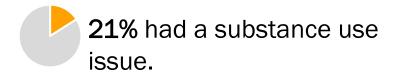




37% were enrolled in mental health treatment at the time of death.

#### **Other Risk Factors**

**27**% had a previous suicide attempt.

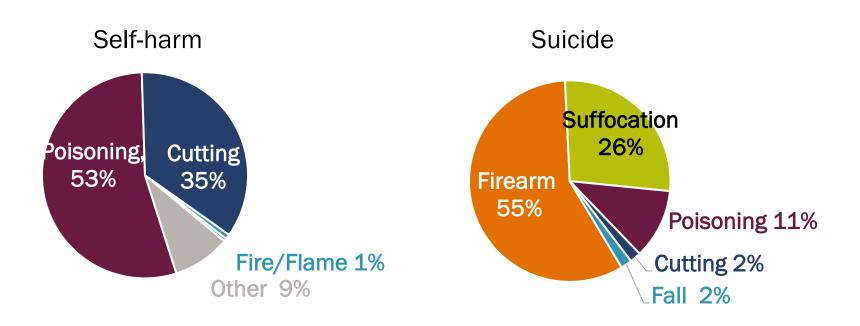


20% had a physical health problem.

Source: Vermont Violent Death Reporting System (NVDRS), 2017-2018

# Over half of hospital visits are due to poisonings. Over half of suicide deaths are due to firearms.

#### The mechanism or cause of intentional self-harm and suicide.



Source: Vermont Vital Statistics, 2018-2019; Vermont Uniform Hospital Discharge Data System, 2017-2018.

## **Key Takeaways**

- Rates of suicide death, intentional self-harm, and suicide-related ED visits have increased over recent years.
- The scope of populations affected are wide and differs for morbidity and mortality.
  - Morbidity: females
  - Mortality: males
- Those who are a sexual and gender minority, are socially isolated, are a veteran, are Black, Indigenous, or a Person of Color, or have a disability are at higher risk for suicide.
- These data may help inform which populations are currently underserved and are in need of culturally specific outreach efforts.

### **Comprehensive Suicide Prevention (CSP) Grant: Overview**

- 5-year Grant from Center for Disease Control and Prevention: September 2020 - August 2025
- Implement and Evaluate Comprehensive Public Health Approach to Suicide Prevention for Vermonters Ages 15 -64
- Expand prevention to focus populations
  - Rural Vermonters
  - LGBTQ+

  - Working-Age MenIndividuals with Disabilities
- Support suicide prevention in hospitals (ED's), healthcare, and other non-DA community programs

## **CSP Grant: Strategies and Activities**

- Expand "Gatekeeper" trainings for social services agencies and community partners
- Reduce Access to Lethal Means
  - Counseling on Access to Lethal Means and Promoting Safe Storage in healthcare settings
  - Public Promotion of Safe Storage
- Expand Peer Supports for At-Risk populations (First Responders, Farmers, Suicide Loss Survivors)
- Improve Postvention Response to Suicide Loss
- Expand Zero Suicide to non-Designated Agency mental health providers
- Increase Access to Suicide Safe Mental Health Care via Telehealth
- Develop and Maintain Comprehensive Suicide Prevention Program Inventory

Grant Coordinator: Nick Nichols, Nick.Nichols@vermont.gov

## Resources to get help

If you or someone you know is thinking about or planning to take their own life, there is help 24/7:

- Call the National Suicide Prevention Hotline at 800-273-8255. Veterans' crisis line: press 1 when prompted
- Text the Crisis Text Line text "VT" to 741741 anywhere in the U.S. about any type of crisis
- Trevor Lifeline LGBTQ Crisis Lifeline: 1-866-488-7368

### Sources

#### Data on suicide deaths

- Vermont Vital Statistics (X60-X84, Y87.0, U03)
- Vermont resident deaths
- Vermont Violent Death Reporting System (VTVDRS)

#### Data on suicide risk factors

- Youth Risk Behavior Survey (YRBS)
- Behavioral Risk Factor Surveillance System (BRFSS)
- Vermont Uniform Hospitalization Discharge Data System (VUHDDS)
- Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)



# Thank you!

# Let's stay in touch.

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