

UNDERSTANDING SUICIDE DATA IN UTAH: INFORMATION YOU NEED TO SAVE LIVES

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SUICIDE PREVENTION PROGRAM ADMINISTRATOR



WHAT YOU WILL LEARN TODAY

- Basic suicide trends in Utah
- How to obtain suicide data and other public wellness measures through behavioral health indicator systems
- How to interpret small numbers and big tragedies
- Prevention planning: using data to inform community efforts
- Suicide surveillance in Utah: What information and resources exist?



Utah Suicide Prevention State Plan 2022-2026



- Increase Availability and Access to Quality Physical and Behavioral Health Care
- Increase Social Norms Supportive of Help-seeking and Recovery
- Reduce Access to Lethal Means
- Increase Connectedness to Individuals, Family, Community and Social Institutions by Creating Safe and Supportive School and Community Environments
- Increase Coping and Problem Solving Skills
- Increase support to Survivors of Suicide Loss
- Strengthen Economic Supports

Other priorities include: 1) [Increasing Comprehensive Data Collection for Suicide to Guide Prevention Efforts](#) 2) Engaging and Supporting High Risk or Underserved Groups.

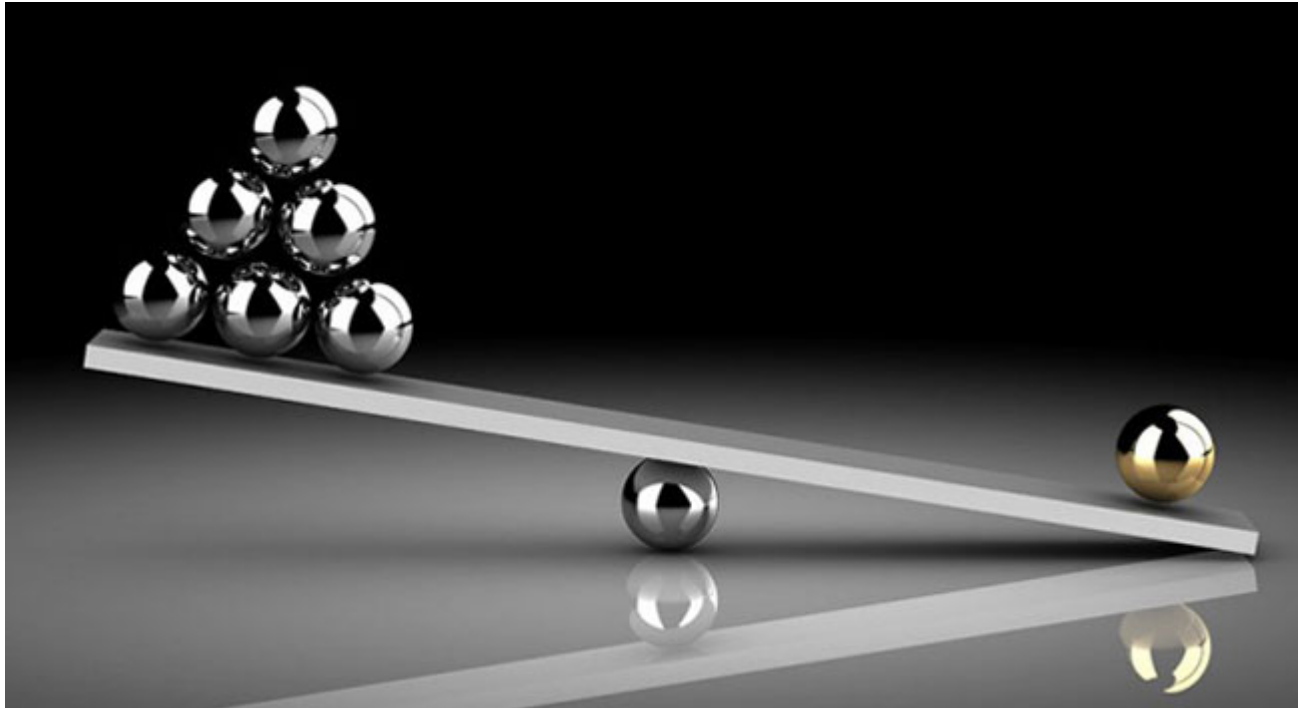
LEGISLATION THAT SUPPORTS SUICIDE DATA COLLECTION TO INFORM PREVENTION EFFORTS

- Utah Suicide Prevention Coalition
- Utah Suicide Prevention State Plan
- Suicide Prevention Coordinator and Suicide Research Coordinator positions

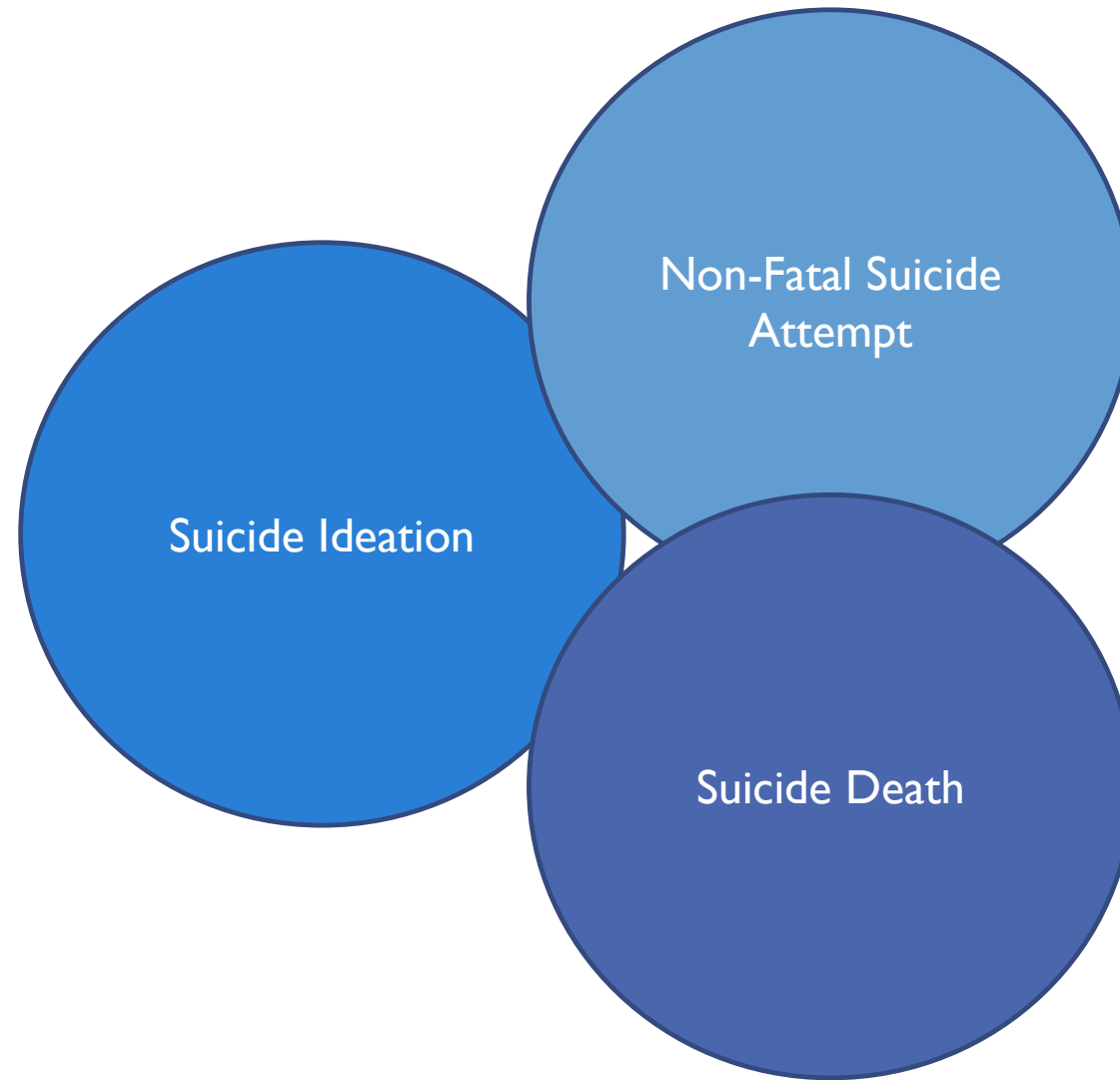


THE IMPORTANCE OF COLLECTING SUICIDE-RELATED DATA

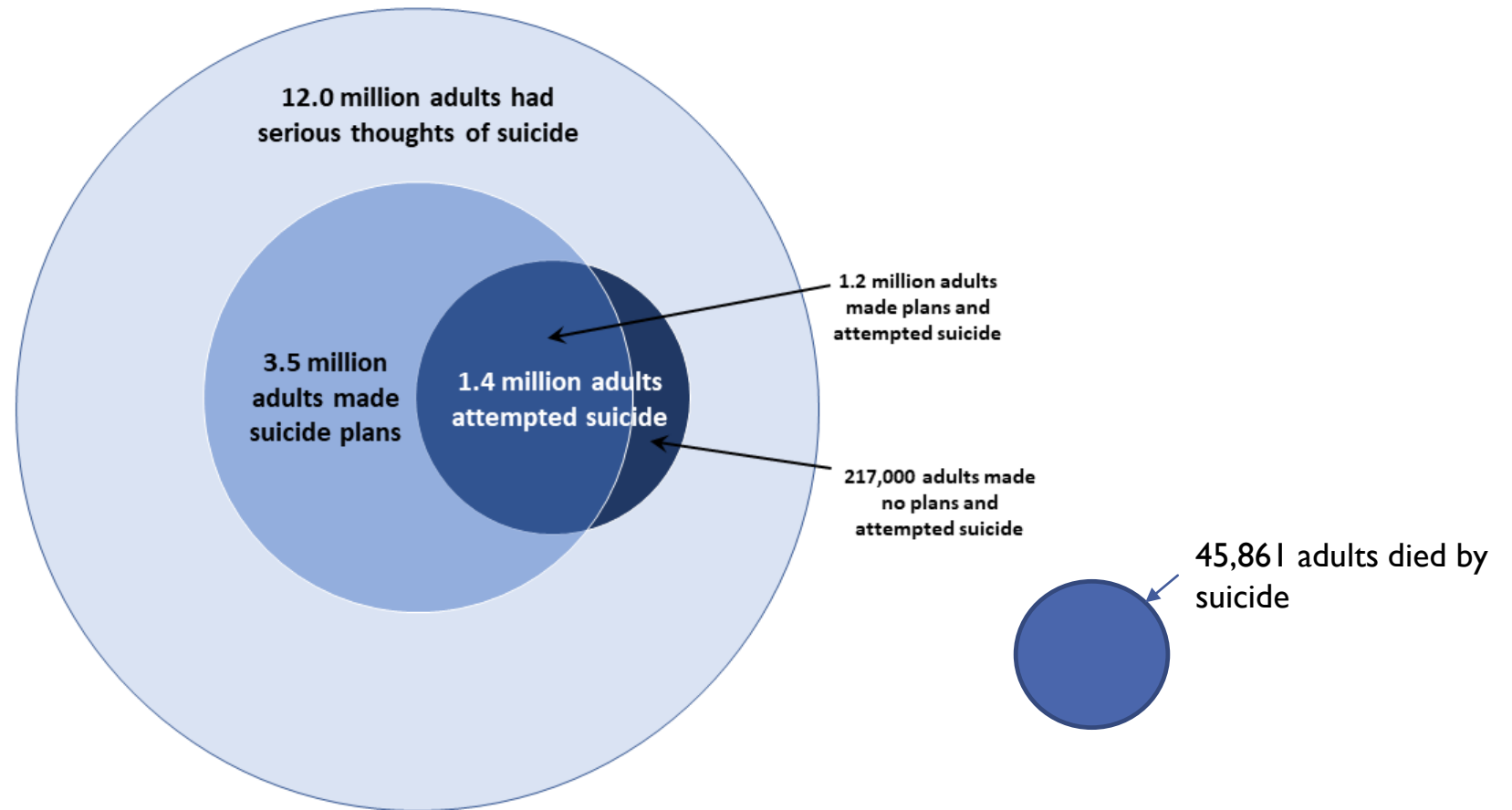
- Provide guidance to the Utah Suicide Prevention Coalition (USPC) and workgroups;
- Provide guidance to community partners and local communities for developing their own strategic plans for suicide prevention;
- Outline priorities for state agencies and legislators for legislation and policy-making;
- Report on current trends in suicide data in Utah.



WHEN ACADEMICS TALK ABOUT SUICIDE ...

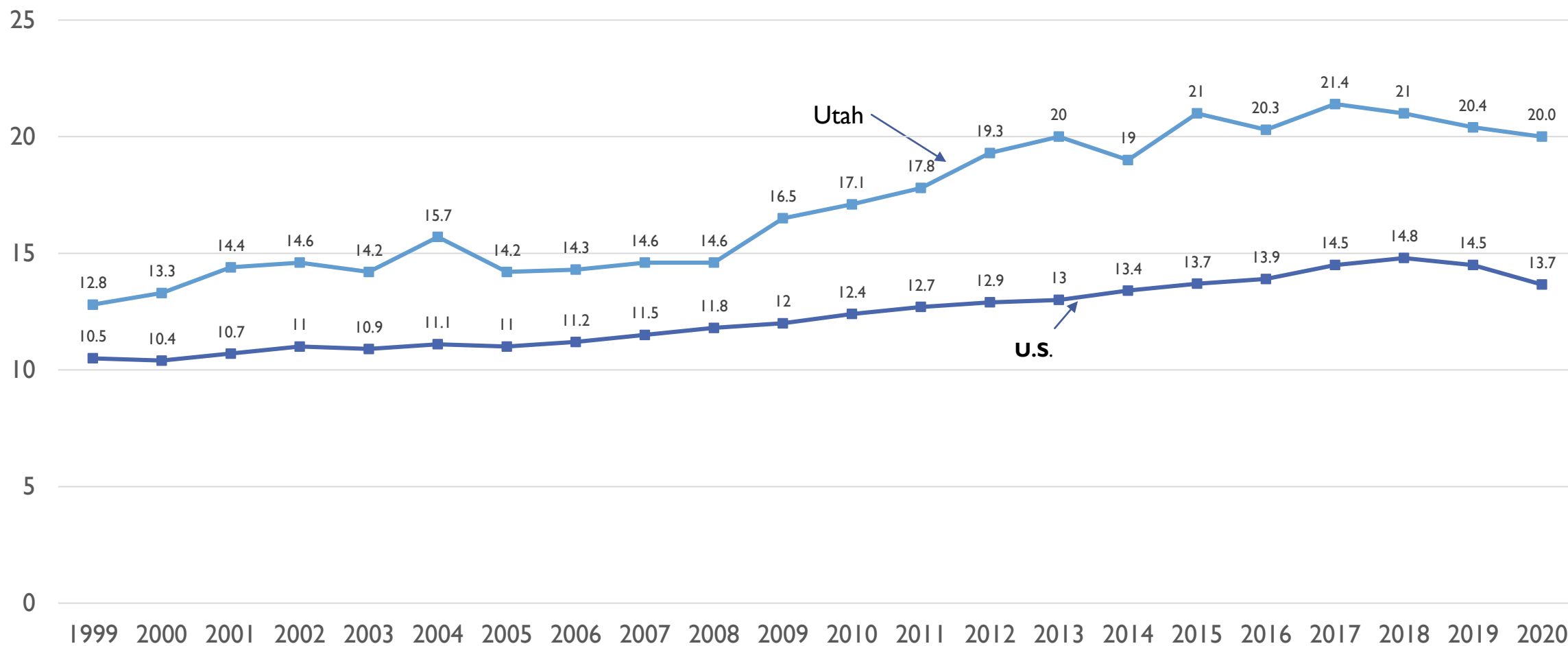


PAST YEAR SUICIDAL THOUGHTS AND BEHAVIORS AMONG U.S. ADULTS, 2019



Source: NIMH, SAMHSA

SUICIDE RATES IN THE U.S. AND UTAH, 1999 TO 2020





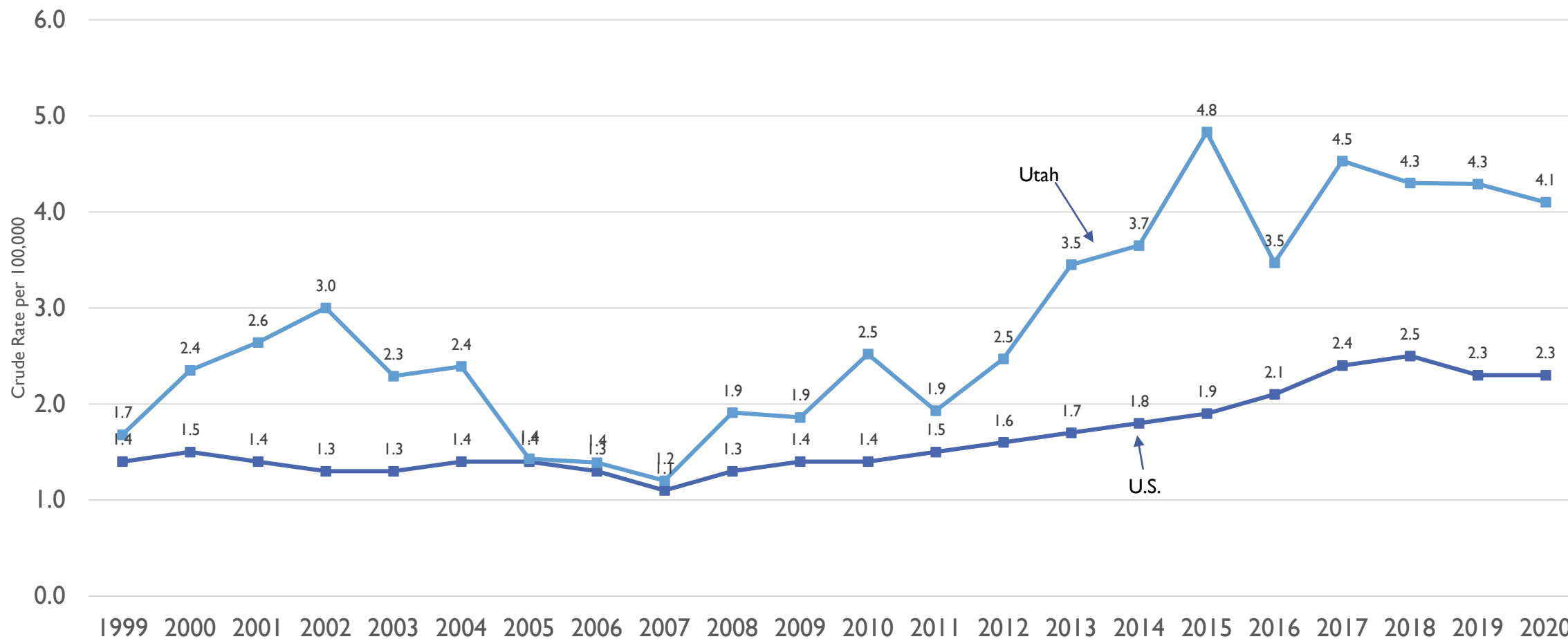
WHAT PROPORTION OF ALL SUICIDE DEATHS EACH
YEAR IN UTAH ARE 10 TO 17 YEAR-OLDS?



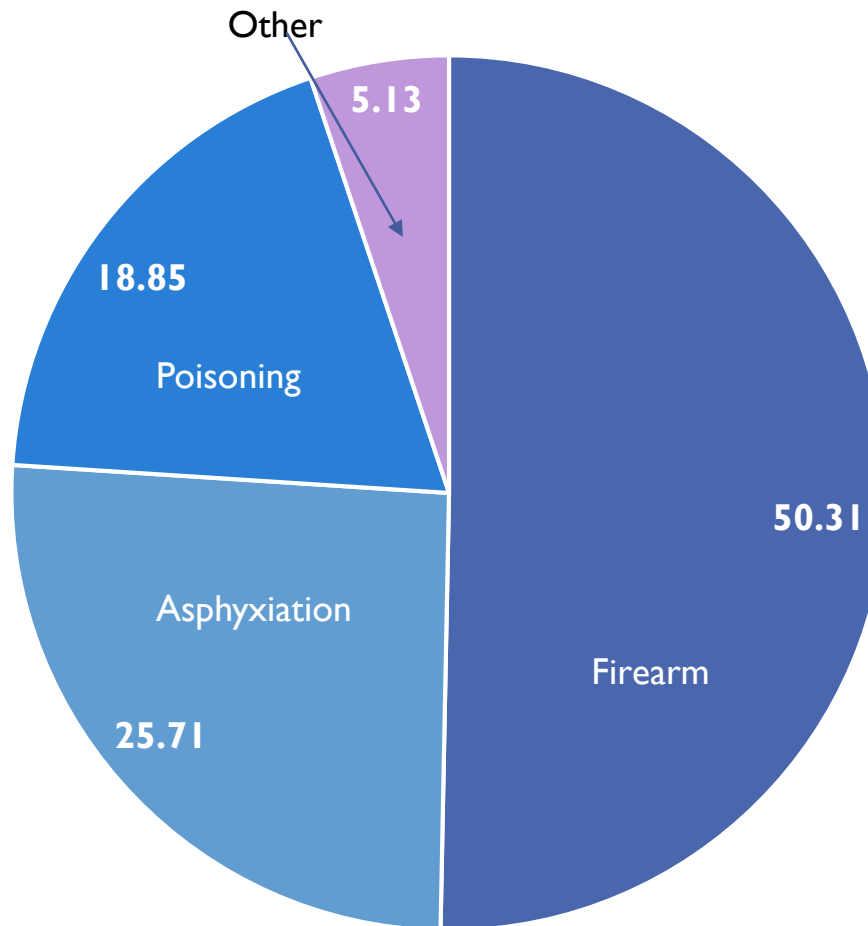


6%

SUICIDE RATES IN THE U.S. AND UTAH, AGES 0 TO 17, 1999 TO 2020



SUICIDE DEATH IN UTAH BY METHOD, 2015 TO 2019





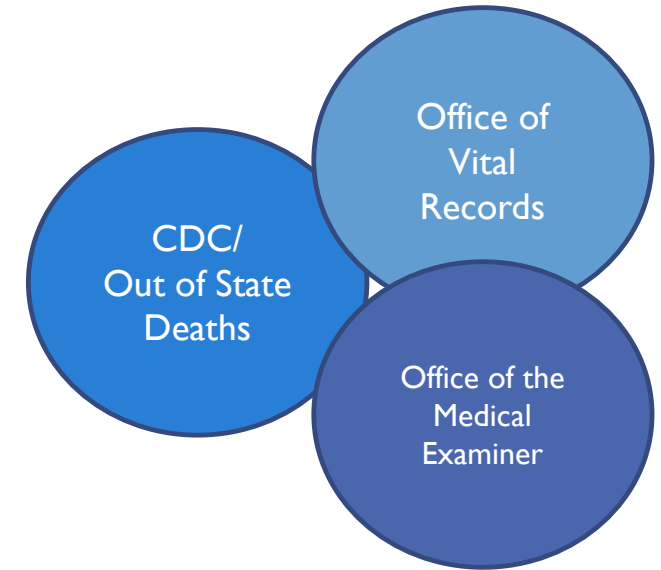
PUBLIC HEALTH INDICATOR BASED INFORMATION SYSTEM (IBIS)

HOW MANY PEOPLE DIED BY SUICIDE IN UTAH IN THE PAST FIVE YEARS?



WHERE DOES THE DATA COME FROM?

- Utah Office of the Medical Examiner (OME)
 - Centralized Death Investigation System in Utah – there are no coroners in Utah
 - Determine cause and manner, certifies death certificates
 - Deaths investigated are based on place: where the decedent died
- Office of Vital Records and Statistics (OVRs)
 - Source of **official** vital statistics, including suicides in Utah
 - Reports deaths based on place of residence, not place of death or injury
- Centers for Disease Control and Prevention (CDC) and National Vital Statistics System (NVSS)
 - Reconciles deaths to report accurate death data by residence (e.g., Wyoming resident who died in Utah would be “returned” to Wyoming)
- Funeral homes also play a role in gathering some important demographic information, such as race, education, etc.



Welcome to IBIS-PH; Utah's Public Health Data Resource

ibis.health.utah.gov/ibisph-view/

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Welcome

Utah Department of Health

Local Public Health Systems

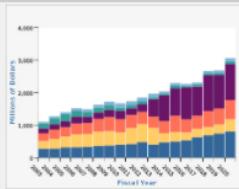
Contact Information

Welcome to IBIS-PH; Utah's Public Health Data Resource

The 2022 Public Health Outcome Measures Report is available

- The Utah Department of Health 2022 Public Health Outcome Measures Report is now available: <https://ibis.health.utah.gov/ibisph-view/report/phom/Introduction.html>

Visit our Health Indicator Reports page to view other health indicator updates: <https://ibis.health.utah.gov/ibisph-view/indicator/index/Alphabetical.html>



Welcome to the State of Utah, Department of Health, Indicator-Based Information System for Public Health (IBIS-PH). This site provides health data with context on the health of Utahns and status of the Utah health care system.

This Site Provides:

- [Utah Health Topics](#) - Focus on specific health topics, compiles indicator data, query datasets, important facts, and publications relevant to specific health topics.
- [Health Indicator Reports](#) - Health indicator reports provide an overview of specific public health issues in Utah as well as its public health context, recent status, and what is being done to improve it.
- [Customizable Public Health Query Modules](#) - Data access and analysis tools to numerical datasets. Custom queries include charts, maps, Utah Health Improvement Index, and metadata.
- [Community Snapshot Reports](#) - Community measures of health indicators within [Local Health Districts](#) and [Utah Small Areas](#) in the state.
- [Publications for Health Data by Topic](#) - Publications address studies of current health issues and answer frequently asked questions concerning current health statuses in Utah. Search over hundreds of Utah Department of Health publications and access to over 7,000 publications in the online [Utah Public Health Library](#).
- [Information About IBIS-PH](#) - Information about the IBIS-PH website, Utah Public Health data, and other general support.

IBIS Training

We provide quarterly IBIS training. For the next session, please register [here](#).

Questions, Concerns, and Feedback

<https://ibis.health.utah.gov/>

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Public Health Indicator Based Information System (IBIS)

Utah's Public Health Data Resource

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Births, Fetal Death, and Infant Deaths

- Birth Data
- Birth Defects
- Fetal Mortality
- Infant Mortality

Health Surveys

- Behavioral Risk Factor Surveillance System (BRFSS)
- Pregnancy Risk Assessment Monitoring System (PRAMS)
- Youth Risk Behavior Survey (YRBS)

Cancer Registry

- Cancer Registry

Communicable Diseases

- Communicable Diseases
- COVID-19

Emergency Department and Hospital

- Inpatient Hospital Discharge
- Emergency Dept Encounter
- Emergency Dept Encounters for Primary Care Sensitive Conditions

Injury

- Injury Mortality
- Injury Inpatient Hospital Discharge
- Injury Emergency Dept Encounter
- Student Injury
- Trauma Registry
- Utah Violent Death Reporting System

Mortality

- Mortality
- Years of Potential Life Lost

Population Estimates

- American Community Survey
- Population Estimates

National Toxic Substance Incidents

- National Toxic Substance Incidents

Environmental Public Health Tracking

- Air Quality Index
- Birth Defects
- Births (NCDM)
- Blood Lead Level
- Cancer Registry (NCDM)
- Drinking Water
- Emergency Dept Encounter (NCDM)
- Extreme Weather Events
- Inpatient Hospital Discharge (NCDM)
- People in Poverty
- Radon Test Results
- Wildfire Smoke
- Years of Potential Life Lost

Data Queries

- All Data Queries
- My Saved Queries
- Saved Queries Help

Secure Data

- Secure Data Selections
- Apply for EPHT Access
- Apply for Communicable Disease Access

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Questions, Concerns, and Feedback

IBIS-PH - Injury Mortality Query

ibis.health.utah.gov/ibisph-view/query/selection/mort/InjMortSelection.html

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Contents and Usage

Dataset Queries

Secure Data

My Queries

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Help

Injury Mortality Query Module Configuration Selection

Overview

Overview

Click on either the Quick Selection or Advanced Selection bar to see a list of measures available. Use the hierarchical folder tree to navigate to the query module that will meet your needs. To see folder contents, click on the folder icon. Clicking on the folder again will hide the menu folder contents. When you click on the text link, it will take you to the query module. For further explanation on the modules, click on the "Help" button to the right.

ICD-9 Injury Data

This IBIS-PH module queries injury data only. Data in this module are consistent with the injury case definitions found in the Consensus Recommendations for Using Hospital Discharge Data for Injury Surveillance (2003) developed by the State and Territorial Injury Program Directors Association (STIPDA) Injury Surveillance Workgroup, available at <http://ibis.health.utah.gov/pdf/resource/query/STIPDA.pdf> (see pages 7-11).

ICD-10 Injury Data

This IBIS-PH module queries injury data only. Data in this module are consistent with the External Cause of Injury Mortality Matrix for ICD-10 found on the NCHS website at http://www.cdc.gov/nchs/data/ice/icd10_transcode.pdf. Step 2 (Injury Indicators) are consistent with the Council for State and Territorial Epidemiologists toolkit, available at <https://resources.cste.org/Injury-Surveillance-Methods-Toolkit/Home/GeneralInjuryIndicators>.

POPULATION DATA ALERT

On October 12, 2021, estimates for 2010 and later have been updated to the IBIS Version 2020 population estimates. For more information, go to <http://ibis.health.utah.gov/query/PopEst.html>.

Quick Selection (Click here for ICD-10 coding measures)

Injury Count

Injury Crude Rates

Injury 11 Age Groups Age-adjusted Rates

Average Age at Time of Death

Advanced Selection (Click here for ICD-9 coding, Utah Small Area, Race/Ethnicity)

County and Local Health District, Years 1998 and before (ICD-9 coding system)

Year 2000 and later by race/ethnicity (ICD-10 coding system)

Utah Small Areas, Years 1998 and before (ICD-9 coding system)

Utah Small Areas, Years 1999 and later (ICD-10 coding system)

Trend Analysis

Injury

Center for Health Data and Informatics, Utah Department of Health, Salt Lake City, UT 84143-2101. Telephone: 801-528-0101. Email: chdata@utah.gov

IBIS-PH - Query Builder - Injury Mortality

ibis.health.utah.gov/ibisph-view/query/builder/mort/InjMortCntylCD10/CrudeRate.html

Utah's Public Health Data Resource

Path: IBIS-PH » datasets » selection

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My Data

Submit the Query Definition

Reset to Default Selections

Select a Different Measure To Query

My Saved Query Definitions List

Save Query Definition

View This Query Definition's Location

Query Builder for Injury Mortality ICD-10 Query Module for Utah Counties and Local Health Districts - Crude Rates, Deaths Per 100,000 Population

Overview

Department of Health IBIS Query System, Data Use Agreement

The data and information provided through the IBIS-PH Query System are intended to support any individuals or entities engaged in activities designed solely to enhance the well-being of a specific community, which may include the State. Activities include informing evidence-based decision making in the State to plan and improve health service delivery, evaluate health care interventions and systems, and inform health policy decisions. Other uses are not permissible.

As an IBIS-PH Query System user, I AGREE TO:

1. Use the data for statistical reporting and analysis only.

2. Avoid any attempt to identify or contact individual(s) represented in the IBIS-PH query system data.

3. Avoid disclosure or use of the identity of any individual(s) discovered inadvertently.

4. Avoid linkage of IBIS-PH query system data with other data that, after linkage, might allow identification of an individual represented in the IBIS-PH query system data.

5. Use appropriate safeguards to prevent the inappropriate use or disclosure of individual(s) represented in the data, including when disclosing IBIS-PH Query System data to others.

6. Report IMMEDIATELY any inadvertent or intentional identity disclosures or violations of this agreement of which I become aware to the Director of the Center for Public Health Data, Department of Health.

I understand that failure to adhere to the above stated agreement items will result in loss of access to DOH Internet databases, and I may be subject to legal penalties. Any use, release, or publication of health data contrary to the provisions stated is a class B misdemeanor, with subsequent violations being class A misdemeanors punishable by a fine of up to \$5,000 per offense (Chapter 23, Title 26, Code Annotated). If I am a state government employee, this may be grounds for immediate dismissal.

I Agree

Step 3: Select injury cause or death

Step 4: Select injury intention

Step 5: Select age of decedent

Step 6: Select sex

Step 7: Select geographic area

Step 8: How to display the data

(Grouped By: Year. Chart: None. Map: Default 2015)

- Select a Different Measure To Query
- My Saved Query Definitions List
- Save Query Definition
- View This Query Definition's XML

Overview

Overview

The mortality data in this IBIS-Q query module have been derived from death certificates in participation with the National Vital Statistics System, and are maintained and provided by the Utah Department of Health, Office of Vital Records. They include virtually all deaths of Utah residents, regardless of where the death occurred. The causes of death were coded using International Classification of Diseases (ICD) codes. The population estimates for years 1980-1999 were produced by the Utah Governor's Office of Planning and Budget (GOPB). For years 2000 and later the population estimates are provided by the National Center for Health Statistics (NCHS) through a collaborative agreement with the U.S. Census Bureau.

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Getting Started

Follow the steps to narrow your query and display your results. When you are done forming your query, click "Submit" bottom of the screen (last step) to get your query result.

*****POPULATION DATA ALERT!*****

On October 12, 2021, estimates for 2010 and later have been updated to the IBIS Version 2020 population estimates. For more information, go to <http://ibis.health.utah.gov/query/PopEst.html>.

Step 1: Select year
(2020)

Step 2: Select month

Step 3: Select injury cause of death

Step 4: Select injury intention

Step 5: Select age of decedent

Step 6: Select sex

Step 7: Select geographic area

Step 8: How to display the data
(Grouped By: Year. Chart: None. Map: Default 2015)

Submit

Reset

Office of Vital Records and Statistics, Center for Health Data and Informatics, Utah Department of Health, Salt Lake City, UT 84114-1012, Telephone: 801-538-6843, Website: <http://health.utah.gov/vitalrecords/>, Email: vrequest@utah.gov

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Step 1: Select year

(2016, 2017, 2018, 2019, 2020)

What year grouping do you want to select? Default is single years, most recent year.

☒ Single years

- 2016
- 2017
- 2018
- 2019
- 2020

☐ Enter custom year group(s)

Step 2: Select month

Step 3: Select injury cause of death

Step 4: Select injury intention

Step 5: Select age of decedent

Step 6: Select sex

Step 7: Select geographic area

Step 8: How to display the data

(Grouped By: Year, Chart: None, Map: Default, 2015)

IBIS-PH - Query Builder - Injury | +

ibis.health.utah.gov/ibisph-view/query/builder/mort/InjMortCntyICD10/CrudeRate.html

2016
2017
2018
2019
2020

☐ Enter custom year group(s)

Step 2: Select month

Step 3: Select injury cause of death

First choose a coding scheme to use for injury causes of death. (Default is all causes.)

☒ UDOH injury causes

- All causes of death
- Cut/Pierce
- Drowning/Submersion
- Fall
- Fire/Flame/Smoke
- Hot Object/Substance, Caustic Substance

☐ TBI (Available from 2016)

☐ Drug overdose (Available from 2016)

Step 4: Select injury intention

Step 5: Select age of decedent

Step 6: Select sex

Step 7: Select geographic area

Step 8: How to display the data
(Grouped By: Year. Chart: None. Map: Default 2015)

Submit

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First choose a coding scheme to use for injury causes of death. (Default is all causes.)

☒ UDOH injury causes

All causes of death
Cut/Pierce
Drowning/Submersion
Fall
Fire/Flame/Smoke
Hot Object/Substance, Caustic Substance

☐ TBI (Available from 2016)

☐ Drug overdose (Available from 2016)

Step 4: Select injury intention

(Suicide)

Select from list of intentions

All Injury Intentions
Unintentional
Suicide
Assault
Undetermined
Other

Step 5: Select age of decedent

Step 6: Select sex

Step 7: Select geographic area

Step 8: How to display the data

(Grouped By: Year. Chart: None. Map: Default 2015)

Submit

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Select from list of intentions

All Injury Intentions
Unintentional
Suicide
Assault
Undetermined
Other

Step 5: Select age of decedent

(0-17, 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+)

First choose a coding scheme to use for age groups. Default is age adjustment age groups, all ages.

☐ Age adjustment age groups (Younger than 1, 1-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85 years and older)

☒ Enter custom age group

0-17

18-24

25-34

35-44

45-54

55-64

65-74

75+

These age groups work well for inquiries that include all suicide deaths in a given year.

For smaller breakdowns of data, use larger age groups:

0-17

18-44

45-64

65+

75+



Step 6: Select sex

Would you like to include only males or only females in the results? Default includes both sexes

☐ Both Male and Female

☐ Male

☐ Female

Step 7: Select geographic area

Step 8: How to display the data
(Grouped By: Year. Chart: None. Map: Default 2015)

Submit Reset

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Step 6: Select sex

Would you like to include only males or only females in the results? Default includes both sexes.

- ☐ Both Male and Female
☐ Male
☐ Female

Step 7: Select geographic area

Show Selection Map

First choose a geography type. Default is all Utah residents, regardless of place of death.

- ☒ Local health district

All local health districts
Bear River LHD
Central Utah LHD
Davis County LHD
Salt Lake County LHD
San Juan LHD

- ☐ County
☐ Urban/Rural residence

Step 8: How to display the data

(Grouped By: Year. Chart: None. Map: Default 2015)

Submit

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IBIS-PH - Query Builder - Injury

ibis.health.utah.gov/ibisph-view/query/builder/mort/InjMortCntyICD10/CrudeRate.html

Step 7: Select geographic area

Show Selection Map

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☒ Local health district

All local health districts
Bear River LHD
Central Utah LHD
Davis County LHD
Salt Lake County LHD
San Juan LHD

☐ County

☐ Urban/Rural residence

Step 8: How to display the data

(Grouped By: Geographic Area. Chart: None. Map: Default 2015)

To display a map, you must select Geographic Area in Display By (category) and None in Group By (series)

Display By (category)

Group By (series)

Chart

Map

Primary Measure

Geographic Area

None

None

Default 2015

Crude Rates, Injury Deaths Per 100,000 Population

Submit

Reset

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http://health.utah.gov/vitalrecords/, Email: vrequest@utah.gov

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Options:

Year

Month

Causes of Death

Injury Indicator

Injury Intention

Age Group

Sex

Geographic Area

- Modify Query Definition
- Chart Options
- Alternate Values
- Select Different Measure
- Reset Query Definition
- Save Query Definition
- My Saved Query Definitions List
- Output to Excel
- View Query Definition XML

Query Results for Injury Mortality ICD-10 Query Module for Utah Counties and Local Health Districts - Crude Rates, Deaths Per 100,000 Population

Query Criteria						
Single Years Filter:	2016, 2017, 2018, 2019, 2020					
Injury Intention Filter:	Suicide					
Custom Age Group Filter:	0-17, 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+					
Data Grouped By:	Single Years					

Data Table						
Single Years	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2016	20.09	18.53	21.75	612	3,046,488	4.04
2017	21.35	19.75	23.03	663	3,106,092	3.88
2018	21.06	19.49	22.72	665	3,157,572	3.88
2019	20.4	18.87	22.02	654	3,206,088	3.91
2020	20.02	18.51	21.61	651	3,252,408	3.92
Overall	20.58	19.88	21.3	3,245	15,768,648	1.76

Data Notes

Data Sources

Data Issues

Query Date Time Stamp

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2020	20.02	18.51	21.61	651	3,252,408	3.92
Overall	20.58	19.88	21.3	3,245	15,768,648	1.76

Data Notes



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Injury Intention Filter:	Suicide
Custom Age Group Filter:	0-17, 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+
Data Grouped By:	Single Years

Data Table

Single Years	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2016	20.09	18.53	21.75	612	3,046,488	4.04
2017	21.35	19.75	23.03	663	3,106,092	3.88
2018	21.06	19.49	22.72	665	3,157,572	3.88
2019	20.4	18.87	22.02	654	3,206,088	3.91
2020	20.02	18.51	21.61	651	3,252,408	3.92
Overall	20.58	19.88	21.3	3,245	15,768,648	1.76

Data Notes

Data Sources

Data Issues

Query Date Time Stamp

CrudeRate (27) - Excel

FileHomeInsertPage LayoutFormulasDataReviewViewDeveloperAcrobatPower PivotTell me what you want to do...Michael StaleyShare

ClipboardFontAlignmentNumberStylesCellsEditing

Calibri13.5A+AB Bold Italic Underline Font Color Background Color Conditional Formatting Format as Table Normal Bad Good Neutral Calculation Check Cell Explanatory... Input Linked Cell Note

InsertDeleteFormatFillClearSort & FilterFind & Select

A1: Query Criteria for the Crude Rates, Deaths Per 100,000 Population Measure

1Query Criteria for the Crude Rates, Deaths Per 100,000 Population Measure

2

3Single Years Filter: 2016, 2017, 2018, 2019, 2020

4Injury Intention Filter: Suicide

5Custom Age Group Filter: 0-17, 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+

6Data Grouped By: Single Years

7

8Data List

9

Single Years	Single Years ID	Number of Injury Deaths	Number in the Population	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Relative Standard Error (Coefficient of Variation %)
Record Count: 6							
Total	.	3,245	15,768,648	20.58	19.88	21.3	1.76
2016	2016	612	3,046,488	20.09	18.53	21.75	4.04
2017	2017	663	3,106,092	21.35	19.75	23.03	3.88
2018	2018	665	3,157,572	21.06	19.49	22.72	3.88
2019	2019	654	3,206,088	20.4	18.87	22.02	3.91
2020	2020	651	3,252,408	20.02	18.51	21.61	3.92

18

19Data Notes

20

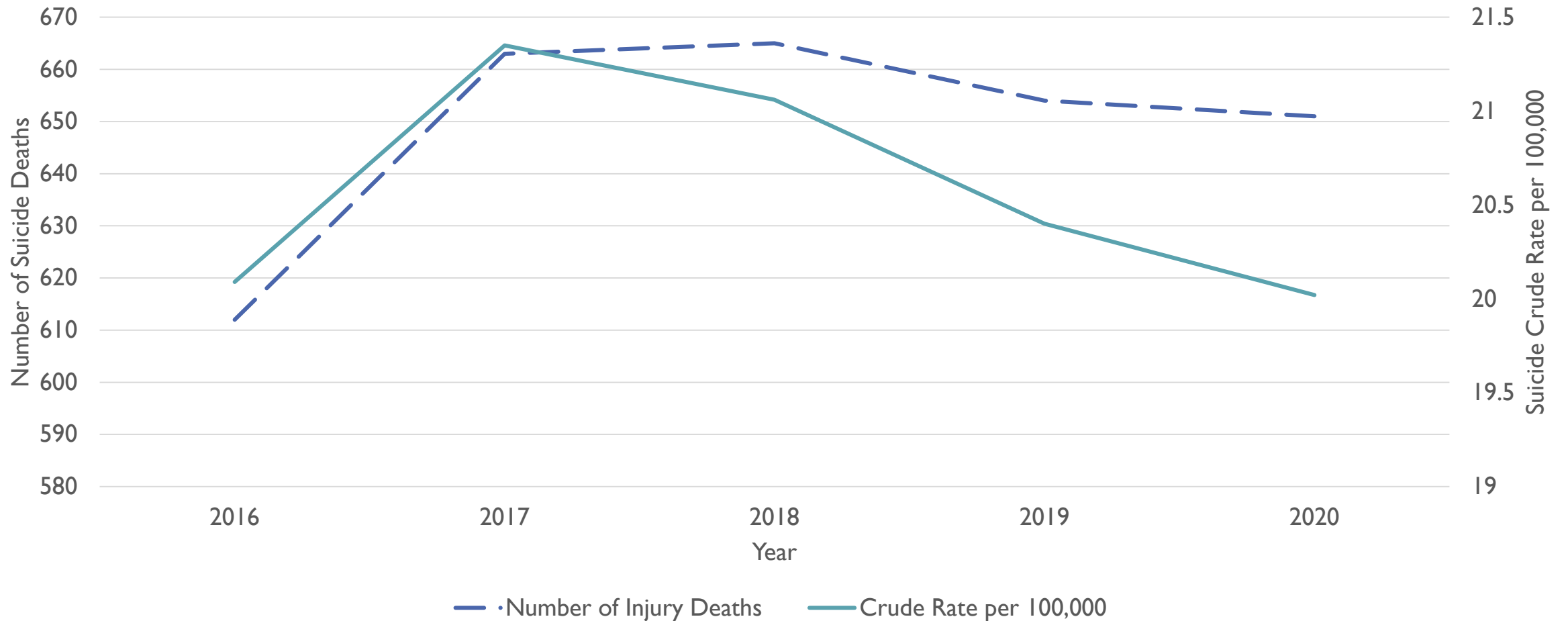
21All injury cases in this query module are consistent with the External Cause of Injury Mortality Matrix for ICD-10 found on the NCHS website at [http://www.cdc.gov/nchs/data/ice/icd10_transcode.pdf]. Step 2 (Injury Indicators) are consistent and Territorial Epidemiologists toolkit, available at [https://resources.cste.org/Injury-Surveillance-Methods-Toolkit/Home/GeneralInjuryIndicators].

22

CrudeRate (27)

Ready130%

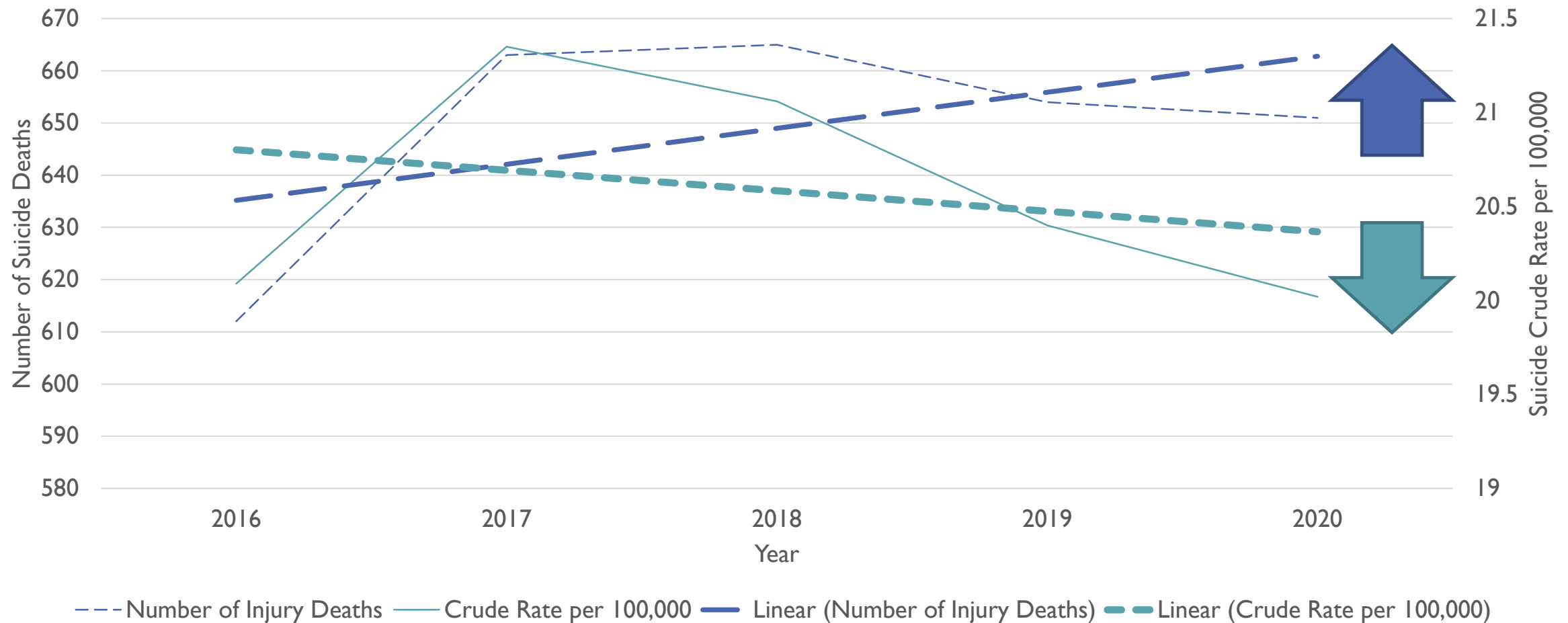
NUMBER OF SUICIDE DEATHS AND SUICIDE DEATH RATE PER 100,000, UTAH, 2016-2020



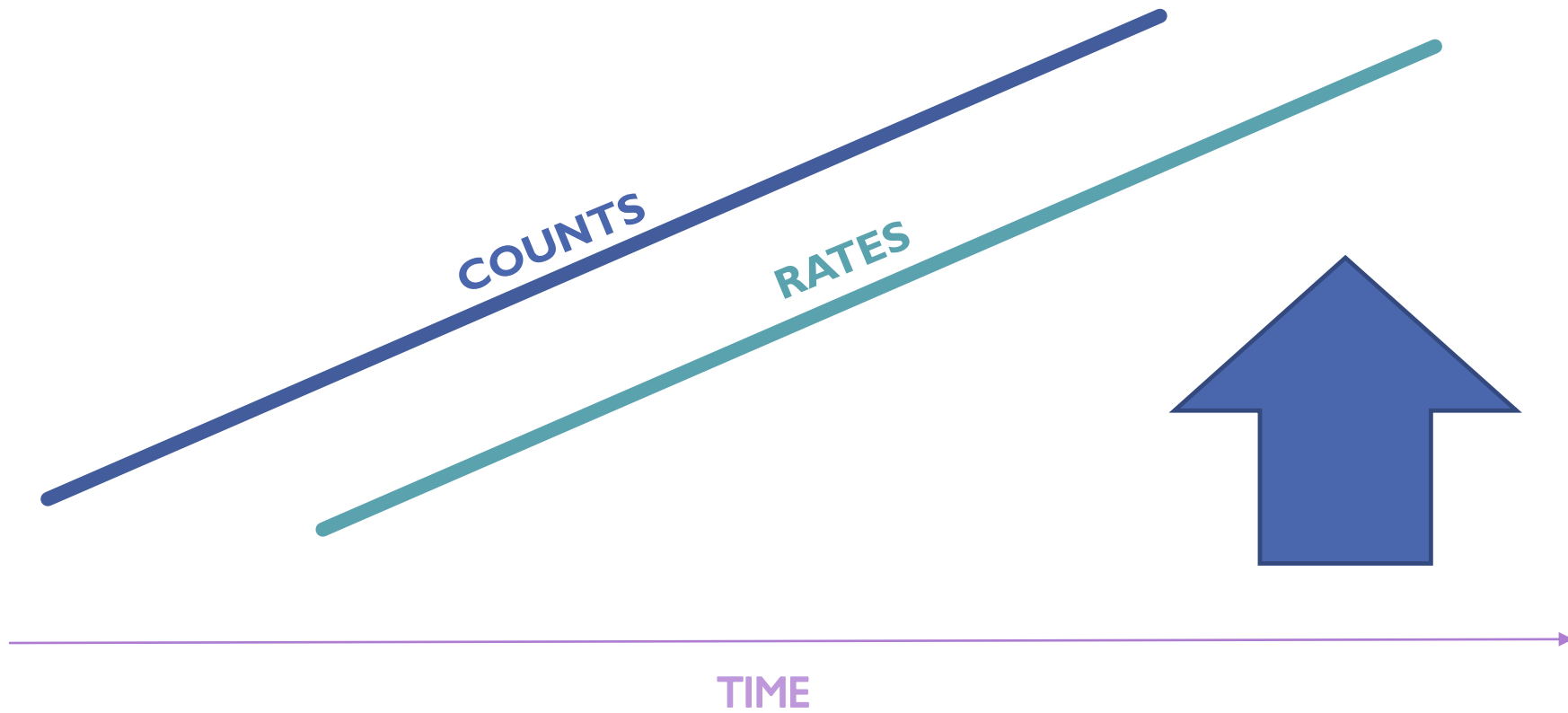
WHAT IS A RATE?

$$\frac{\text{Number of Cases (Suicide Deaths)}}{\text{Total Population}} \times 100,000 = \text{Crude Rate per } 100,000$$

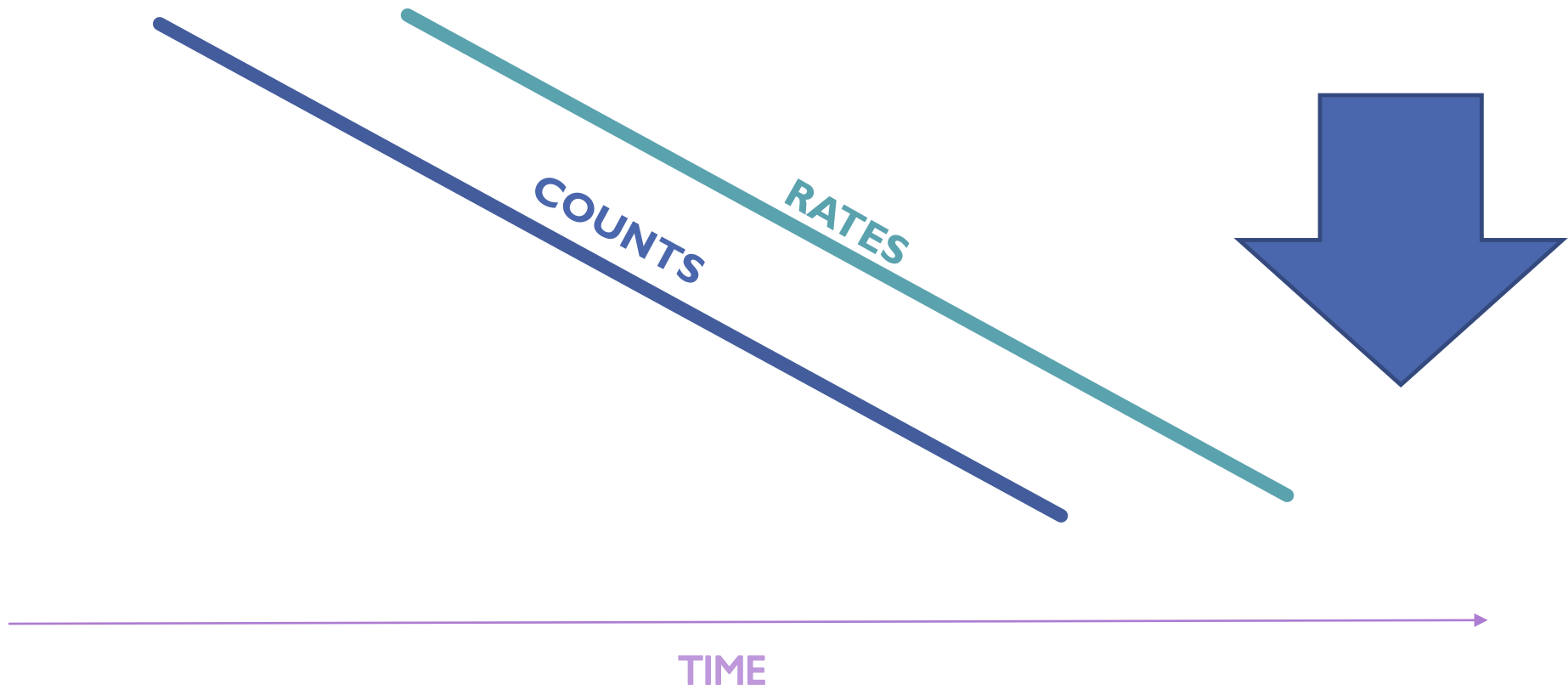
NUMBER OF SUICIDE DEATHS AND SUICIDE DEATH RATE PER 100,000, UTAH, 2016-2020, WITH TRENDLINES



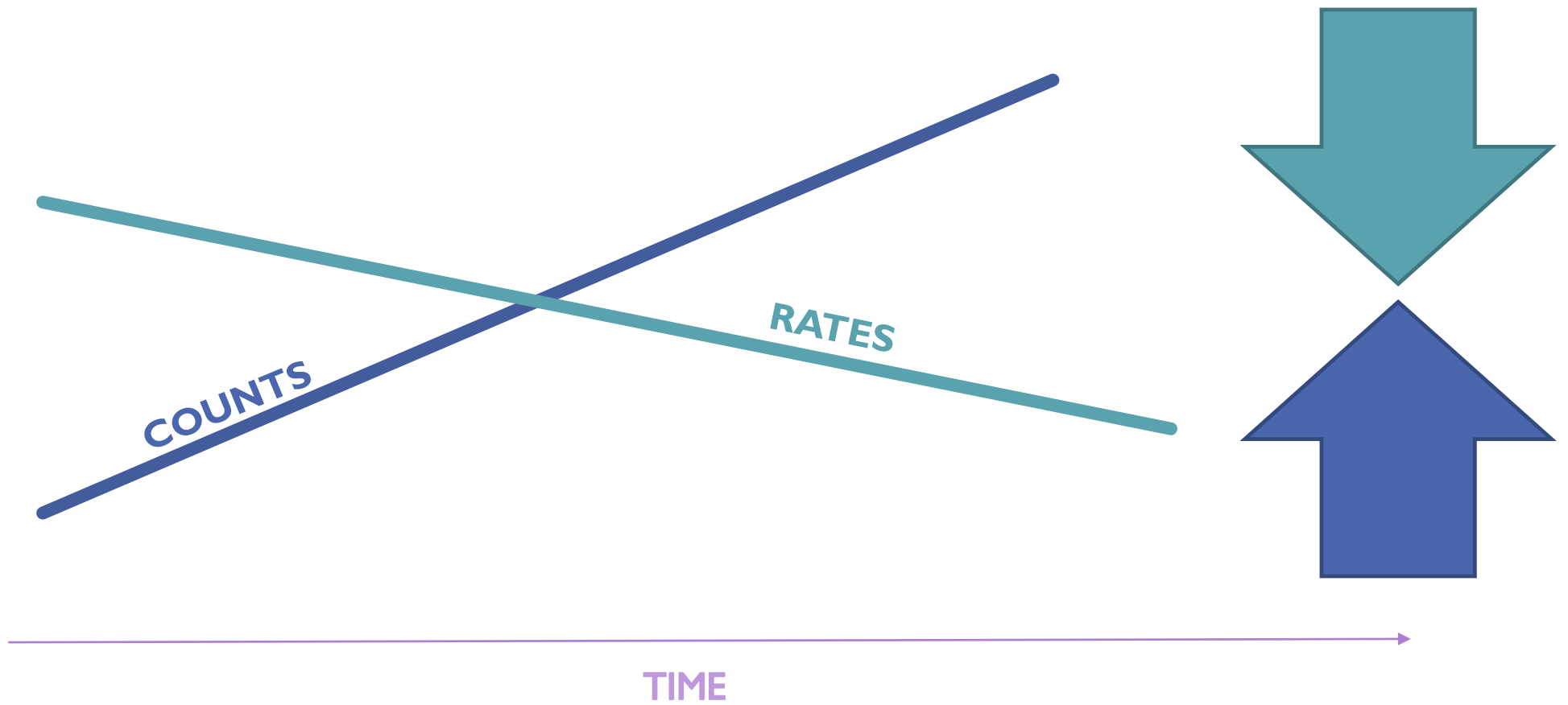
EXAMINING TRENDS



EXAMINING TRENDS



EXAMINING TRENDS





Query Results for Injury Mortality ICD-10 Query Module for Utah Counties and Local Health Districts - Crude Rates, Deaths Per 100,000 Population

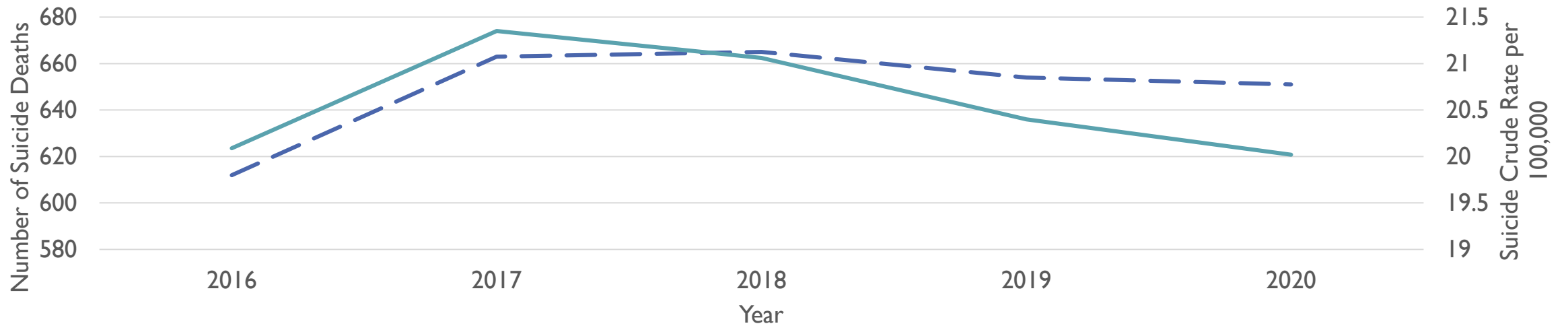
Query Criteria

Single Years Filter:	2016, 2017, 2018, 2019, 2020
Injury Intention Filter:	Suicide
Custom Age Group Filter:	0-17, 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+
Data Grouped By:	Single Years

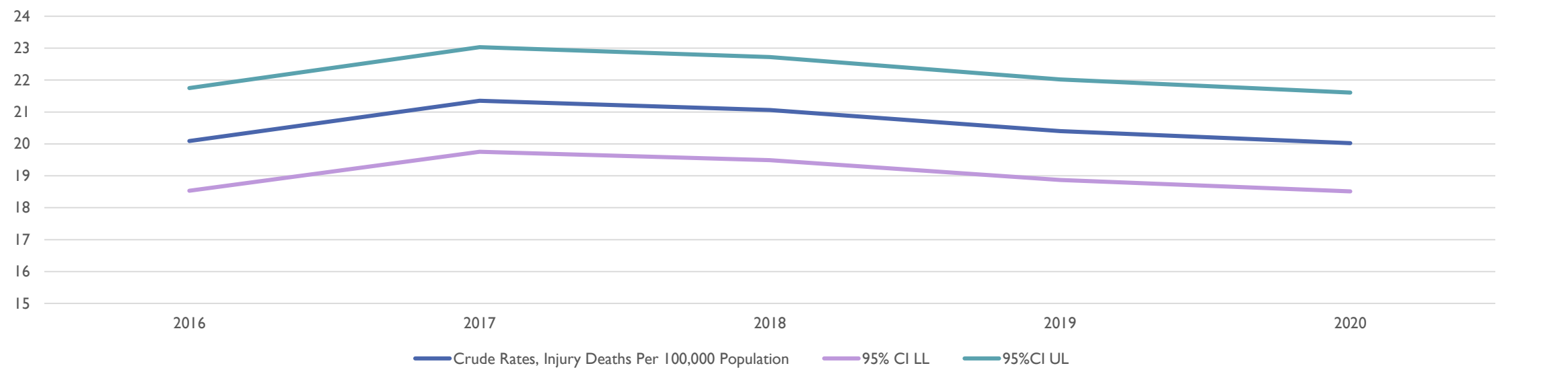
Data Table

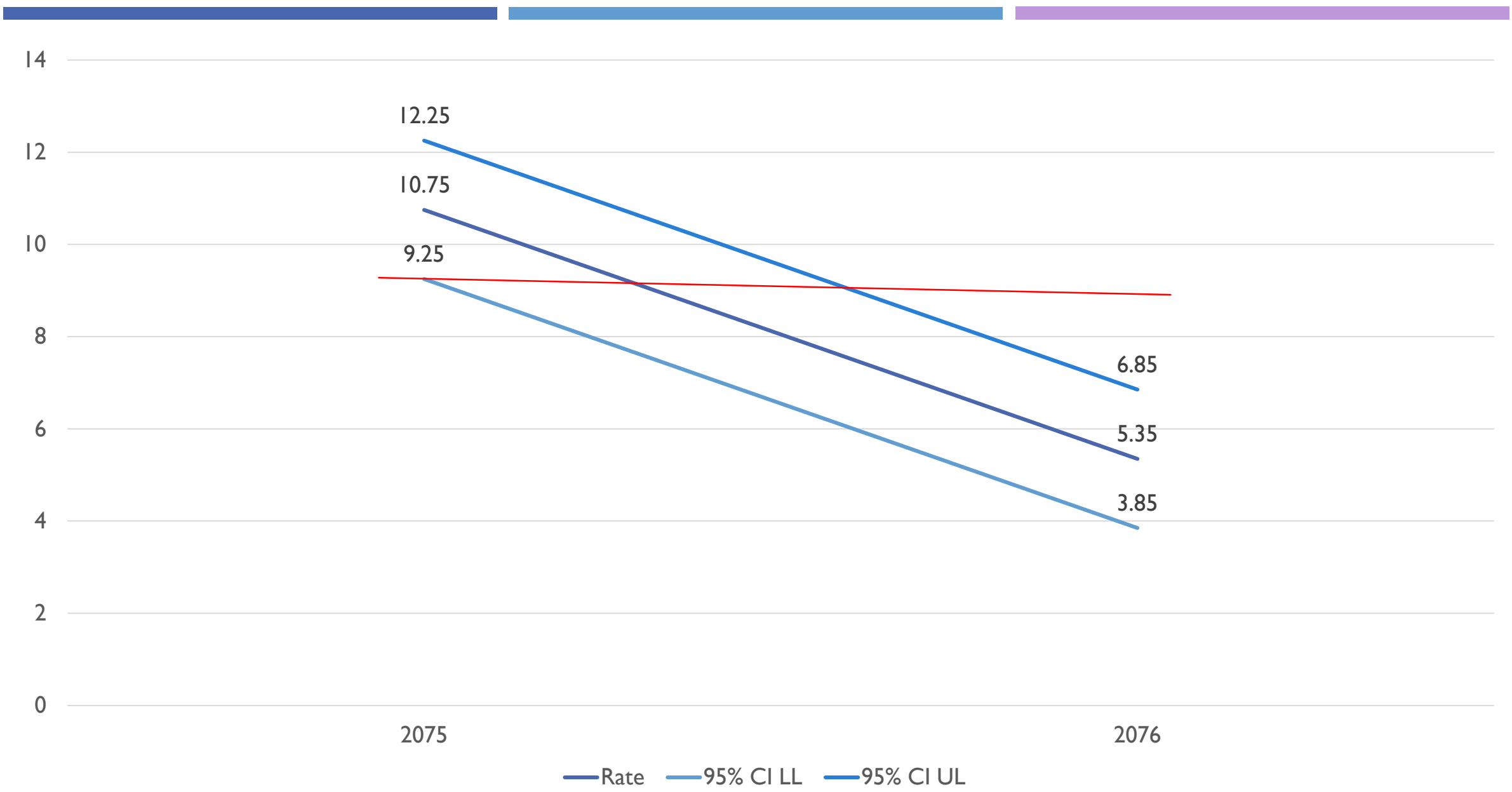
Single Years	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2016	20.09	18.53	21.75	612	3,046,488	4.04
2017	21.35	19.75	23.03	663	3,106,092	3.88
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2020	20.02	18.51	21.61	651	3,252,408	3.92
Overall	20.58	19.88	21.3	3,245	15,768,648	1.76

Data Notes

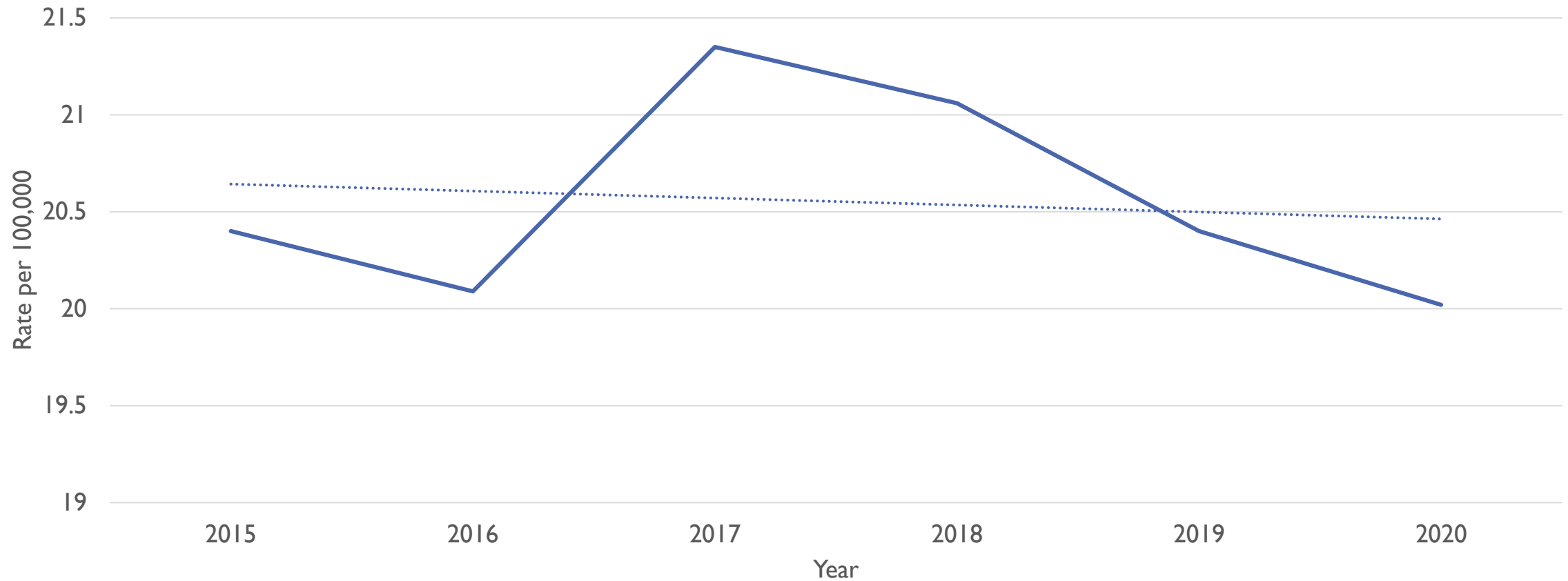


— • Number of Injury Deaths — Crude Rate per 100,000





HOW MANY PEOPLE DIED BY SUICIDE IN UTAH IN THE PAST FIVE YEARS?



Data Table

Single Years	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2016	→ 12.36*	5.34*	24.36*	8*	64716*	35.3553*
2017	28.11	16.93	43.9	19	67,584	22.94
2018	24.25	14.13	38.83	17	70,092	24.25
2019	17.99	9.58	30.77	13	72,252	27.74
2020	20.08	11.24	33.12	15	74,688	25.82
Overall	20.61	16.13	25.96	72	349,332	11.79

*Use caution in interpreting; the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by Utah Department of Health standards. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate.

Data Table

Single Years	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2016	→ 22.95*	9.23*	47.28*	7*	30504*	37.7964*
2017	→ 12.43*	3.39*	31.82*	4*	32184*	50.0000*
2018	→ 20.95*	8.42*	43.17*	7*	33408*	37.7964*
2019	→ **	**	**	**	**	**
2020	→ 11.31*	3.08*	28.97*	4*	35352*	50.0000*
Overall	→ **	9.28	21.54	**	165,780	20.41

*Use caution in interpreting; the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by Utah Department of Health standards. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. **The estimate has been suppressed because 1) The relative standard error is greater than 50% or when the relative standard error can't be determined. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. 2) the observed number of events is very small and not appropriate for publication, or 3) it could be used to calculate the number in a cell that has been suppressed.

Step 1: Select year
(2015-2016, 2017-2018, 2019-2020)

What year grouping do you want to select? Default is single years, most recent year.

- Single years
- Enter custom year group(s)

2015-2016

2017-2018

2019-2020

Data Table

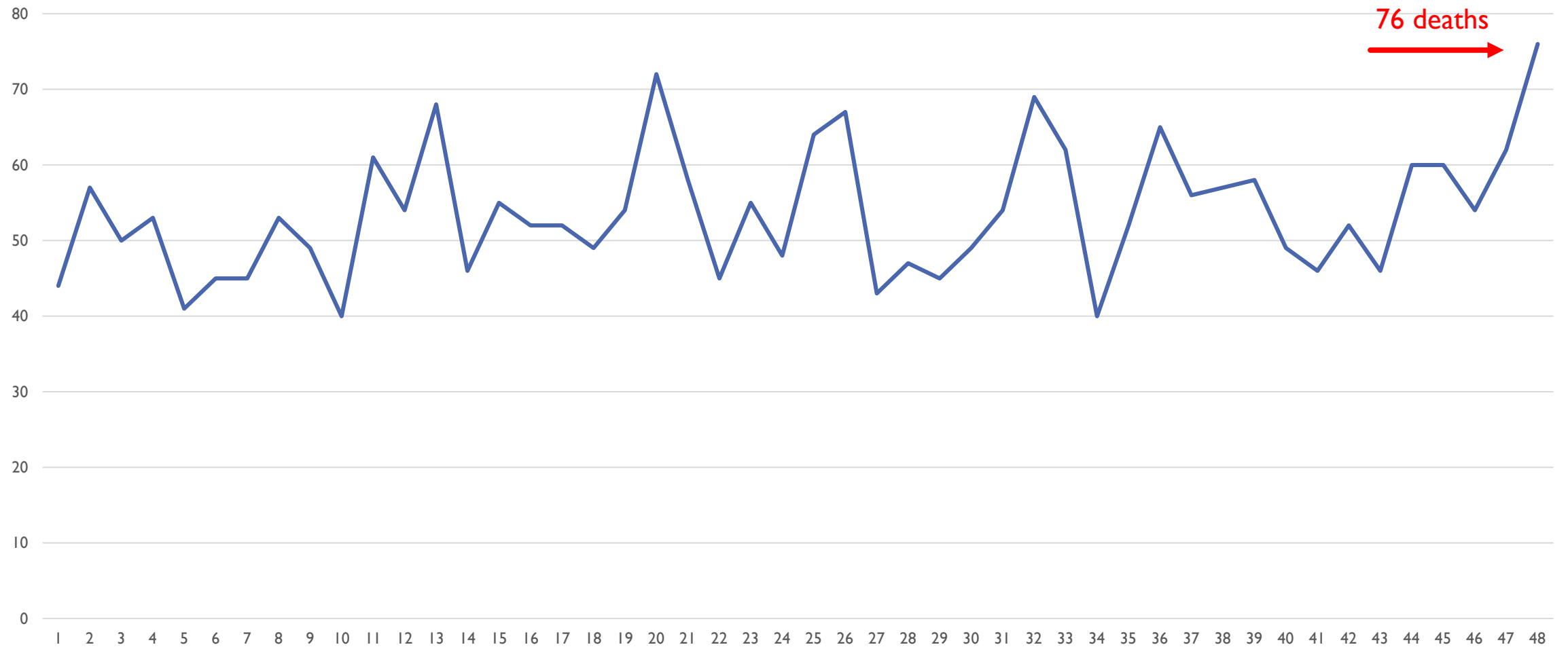
Custom Year Groups	Crude Rates, Injury Deaths Per 100,000 Population	95% CI LL	95%CI UL	Number of Injury Deaths	Number in the Population	Relative Standard Error (Coefficient of Variation %)
2015-2016	23.44	12.82	39.33	14	59,724	26.73
2017-2018	16.77*	8.37*	30.01*	11*	65592*	30.1511*
2019-2020	8.61*	3.16*	18.74*	6*	69684*	40.8248*
Overall	15.9	10.8	22.57	31	195,000	17.96

*Use caution in interpreting; the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by Utah Department of Health standards. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate.

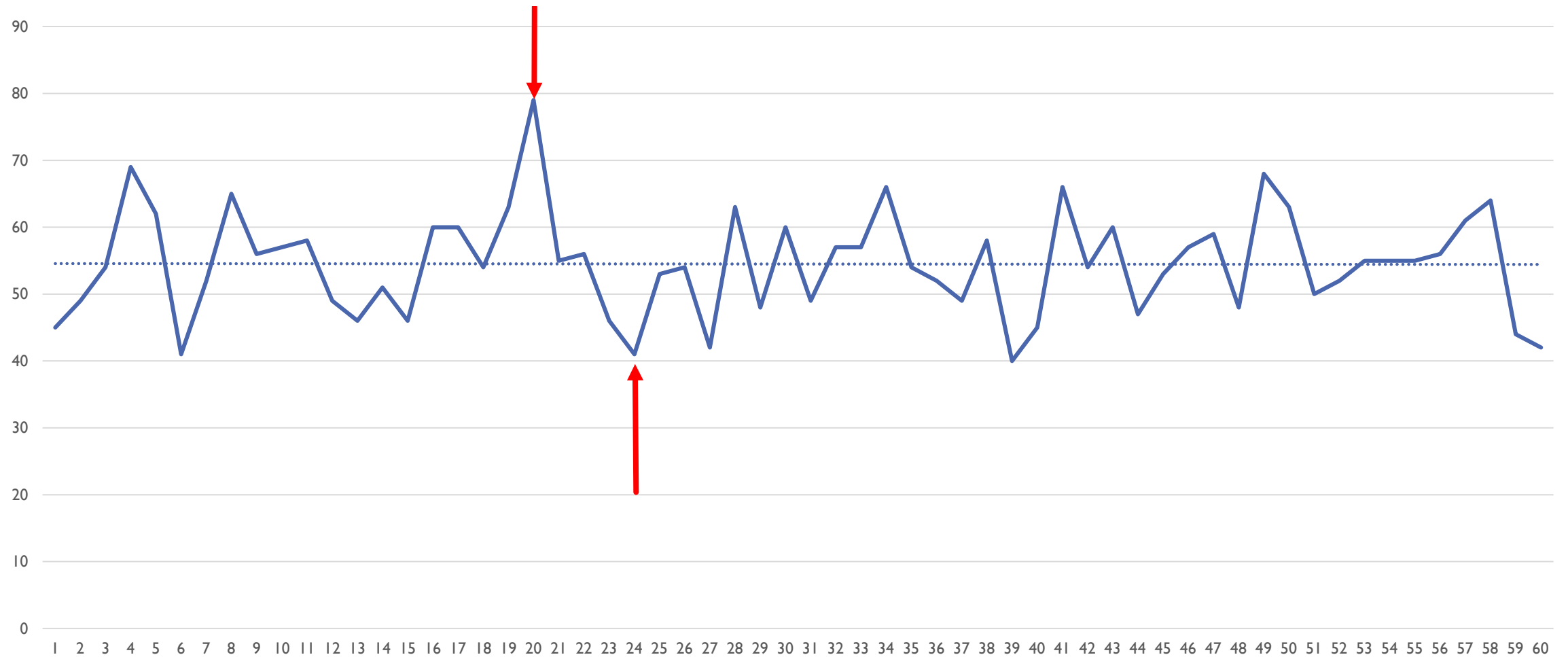
OTHER SUICIDE RELATED QUERIES AVAILABLE ON IBIS

- Queries by race and ethnicity
- Utah Violent Death Reporting System (UTVDRS or NVDRS): Find out circumstances of suicide death by year, age, sex, race/ethnicity, and geography.
- Fatal and non-fatal suicide attempts reported to emergency departments by year, age, sex, primary payer, discharge status, and geography

A WHOA! MOMENT



THAT WASN'T SO WHOA



SCENARIO

- The Smith County Suicide Prevention Coalition learns from the local sheriff of three suicide deaths that occurred in their county over the past two weeks and is rightfully concerned about an increase in suicide death in their county.
- CONSIDERATIONS:
 - How many suicide deaths are typical in a 12 month period in Smith County?
 - Are the three people who died in Smith County socially connected to one another? For example, part of the same school, faith community or congregation, work in the same industry or for the same employer, or were friends?
 - Were there any commonalities among the three deaths? For example, did they use the same method to kill themselves, injure themselves at the same location, or all a racial/ethnic minority?
 - Did all three individuals who died by suicide reside in Smith County?

THE OME MONITORS FOR SUICIDE CLUSTERS IN REAL TIME

POINT CLUSTERS: Three or more deaths that occur within a short period of time (typically a 12 month period) in which all of the decedents were socially connected.

- For example, all attended the same school, worked at the same company, or were incarcerated at the same facility.
- Another example: three suicides in a Tlingit village in Southeast Alaska.
- Sometimes referred to as suicide contagion

MASS CLUSTERS: An aberration typical frequency that exceeds normal variation for a period of time within a specified period of time (typically a 12 month period) in which there are commonalities, but the individuals were not socially connected.

- For example, following Robin Williams' death by suicide in 2014, there was an increase in suicide by ligature hanging nationally.
- Another example: there has been considerable research in the aftermath of Netflix's *13 Reasons Why*, which showed increases in suicidal behavior among teens.
- Sometimes referred to as suicide diffusion

Clusters require specific responses that typically extend beyond a community suicide prevention plan.

CDC WONDER

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CDC 24/7: Saving Lives, Protecting People™

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[122 Cities Weekly Mortality \(Archive\)](#)

wonder.cdc.gov

National Center for Health Statistics
Mortality Data on CDC WONDER

All Ages Deaths by Underlying Cause

Underlying Cause of Death

[1999-2020: Underlying Cause of Death by Bridged-Race Categories](#)[2018-2020: Underlying Cause of Death by Single-Race Categories](#)[1968-2016: Compressed Mortality](#)

The mortality data available on CDC WONDER are national mortality and population data produced by National Center for Health Statistics (NCHS) at the Centers for Disease Control and Prevention (CDC). Mortality information is collected by state registries and provided to the National Vital Statistics System. Data are based on death certificates for U.S. residents. Each death certificate contains a single underlying cause of death, and demographic data. The number of deaths and death rates can be obtained by place of residence (United States national, state, and county when available), age group, race, Hispanic ethnicity, gender, and cause of death (4-digit ICD-10 codes, 113 selected causes of death, 130 selected causes of death for infants, and categories for injury intent and mechanism, or drug / alcohol induced causes of death, when available). For more information, refer to [National Vital Statistics System - Mortality Data](#).

Page last reviewed: December 22, 2021
Content source: CDC WONDER

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[Underlying Cause of Death Data](#) [Dataset Documentation](#) [Other Data Access](#) [Data Use Restrictions](#) [How to Use WONDER](#)

Note: Any use of these data implies consent to abide by the terms of the data use restrictions.

The Underlying Cause of Death database contains mortality and population counts for all U.S. counties. Data are based on death certificates for U.S. residents. Each death certificate identifies a single underlying cause of death and demographic data. The number of deaths, crude death rates or age-adjusted death rates, and 95% confidence intervals and standard errors for death rates can be obtained by place of residence (total U.S., region, state and county), age group (single-year-of age, 5-year age groups, 10-year age groups and infant age groups), race, Hispanic ethnicity, gender, year, cause-of-death (4-digit ICD-10 code or group of codes), injury intent and injury mechanism, drug/alcohol induced causes and urbanization categories. Data are also available for place of death, month and week day of death, and whether an autopsy was performed.

Data Use Restrictions:

The Public Health Service Act (42 U.S.C. 242m(d)) provides that the data collected by the National Center for Health Statistics (NCHS) may be used only for the purpose for which they were obtained; any effort to determine the identity of any reported cases, or to use the information for any purpose other than for health statistical reporting and analysis, is against the law. Therefore users will:

- Use these data for health statistical reporting and analysis only.
- For sub-national geography, do not present or publish death counts of 9 or fewer or death rates based on counts of nine or fewer (in figures, graphs, maps, tables, etc.).
- Make no attempt to learn the identity of any person or establishment included in these data.
- Make no disclosure or other use of the identity of any person or establishment discovered inadvertently and advise the NCHS Confidentiality Officer of any such discovery.

Confidentiality Officer
National Center for Health Statistics
3311 Toledo Road
Hyattsville, MD 20782
Telephone 888-642-4159
Email: nchsconfidentiality@cdc.gov

Sanctions for Violating Rules:

Researchers who violate the terms of the data use restrictions will lose access to WONDER and their sponsors and institutions will be notified. Researchers who are suspected of violating the rules may be prevented from using WONDER until an investigation can be completed. Deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal government violates 18 USC 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison, or both.

By clicking the "I Agree" button **I signify that I will abide by the terms of data use stated above** and understand the sanctions and legal penalties for violation of these terms of use.

☐ I Agree

[Click Dataset Documentation](#) for complete information about this dataset.

[Finder Tool Help](#) [Advanced Finder Options](#)

Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76

2. Select location:

Send

Help

Click a button to choose locations by State, Census Region or HHS Region.

States

Census Regions

HHS Regions

Browse or search to find items in the States Finder Tool, then highlight the items to use for this request.

(The Currently selected box displays all current request items.)

Finder Tool Help

Advanced Finder Options

Browse

Search

Details

States

All (The United States)

+ 01 (Alabama)

+ 02 (Alaska)

+ 04 (Arizona)

+ 05 (Arkansas)

+ 06 (California)

+ 08 (Colorado)

+ 09 (Connecticut)

+ 10 (Delaware)

+ 11 (District of Columbia)

Currently selected:

All (The United States)

Open

Close

Close All

Browse the list by opening and closing items.

Use Ctrl+Click to multiple select, Shift+Click for a range.

Pick between:

2013 Urbanization

2006 Urbanization

All Categories

Large Central Metro

Large Fringe Metro

Medium Metro

Small Metro

Micropolitan (Nonmetro)

NonCore (Nonmetro)

3. Select demographics:

Send

Help

Hint: Use Ctrl + Click for multiple selections, or Shift + Click for a range.

Pick between:

Ten-Year Age Groups

Five-Year Age Groups

Single-Year Ages

Infant Age Groups

All Ages

< 1 year

1-4 years

5-14 years

15-24 years

25-34 years

35-44 years

45-54 years

Gender

All Genders

Female

Male

Hispanic Origin

All Origins

Hispanic or Latino

Not Hispanic or Latino

Race

All Races

American Indian or Alaska Native

Asian or Pacific Islander

Black or African American

White

Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76

Noncore (Nonmetro)

3. Select demographics:

Send

Help

Hint: Use Ctrl + Click for multiple selections, or Shift + Click for a range.

Pick between:

Ten-Year Age Groups

Five-Year Age Groups

Single-Year Ages

Infant Age Groups

Ten-Year Age Groups

All Ages

< 1 year

1-4 years

5-14 years

15-24 years

25-34 years

35-44 years

45-54 years

55-64 years

65-74 years

75-84 years

85+ years

Gender

All Genders

Female

Male

Hispanic Origin

All Origins

Hispanic or Latino

Not Hispanic or Latino

Not Stated

Race

All Races

American Indian or Alaska Native

Asian or Pacific Islander

Black or African American

White

Default rates per 100,000

4. Select year and month:

Send

Help

Browse or search to find items in the Year/Month Finder Tool, then highlight the items to use for this request.
(The *Currently selected* box displays all current request items.)

[Finder Tool Help](#)

[Advanced Finder Options](#)

Browse

Search

Details

Year/Month

All (All Dates)

+ 1999 (1999)

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Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76

Browse the list by opening and closing items.
Use Ctrl+Click to multiple select, Shift+Click for a range.

5. Select weekday, autopsy and place of death:

Hint: Use Ctrl + Click for multiple selections, or Shift + Click for a range.

Weekday

All Weekdays
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Unknown

Autopsy

All Values
No
Yes
Unknown

Place of Death

All Places
Medical Facility - Inpatient
Medical Facility - Outpatient or ER
Medical Facility - Dead on Arrival
Medical Facility - Status unknown
Decedent's home
Hospice facility
Nursing home/long term care
Other

Send

Help

6. Select cause of death:

Send

Help

Click a button to select ICD codes by Chapters or by Groups.

☒ ICD-10 Codes

☐ ICD-10 130 Cause List (Infants)

☐ Drug/Alcohol Induced Causes

☐ ICD-10 113 Cause List

☐ Injury Intent and Mechanism

Browse or search to find items in the ICD-10 Codes Finder Tool, then highlight the items to use for this request.

(The *Currently selected* box displays all current request items.)

[Finder Tool Help](#)

[Advanced Finder Options](#)

Browse

Search

Details

ICD-10 Codes

+ K00-K92 (Diseases of the digestive system)

+ L00-L98 (Diseases of the skin and subcutaneous tissue)

+ M00-M99 (Diseases of the musculoskeletal system and connective tissue)

+ N00-N98 (Diseases of the genitourinary system)

+ O00-O99 (Pregnancy, childbirth and the puerperium)

+ P00-P96 (Certain conditions originating in the perinatal period)

+ Q00-Q99 (Congenital malformations, deformations and chromosomal abnormalities)

+ R00-R99 (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classifi

+ U00-U99 (Codes for special purposes)

+ V01-Y89 (External causes of morbidity and mortality)

Open

Open Fully

Close

Close All

Browse the list by opening and closing items.
Use Ctrl+Click to multiple select, Shift+Click for a range.

Currently selected:

All (All Causes of Death)

7. Other options:

Send

Help

Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76j;sessionId=47787BCAC429B37131AAF5430EAA

Monday

Friday

Saturday

Unknown

Decedent's home

Hospice facility

Nursing home/long term care

Other

6. Select cause of death:

Send

Help

Click a button to select ICD codes by Chapters or by Groups.

☒ ICD-10 Codes

☐ ICD-10 130 Cause List (Infants)

☐ Drug/Alcohol Induced Causes

☐ ICD-10 113 Cause List

☐ Injury Intent and Mechanism

Browse or search to find items in the ICD-10 Codes Finder Tool, then highlight the items to use for this request.

(The Currently selected box displays all current request items.)

[Finder Tool Help](#)

[Advanced Finder Options](#)

Browse

Search

Details

ICD-10 Codes

X60 (Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and other drugs acting on the autonomic nervous system)

- X59 (Exposure to unspecified factor)

X59.0 (Exposure to unspecified factor causing fracture)

X59.9 (Exposure to unspecified factor causing other and unspecified injury)

- X60-X84 (Intentional self-harm)

X60 (Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and other drugs acting on the autonomic nervous system)

X61 (Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiarrhythmic agents)

X62 (Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens])

X63 (Intentional self-poisoning by and exposure to other drugs acting on the autonomic nervous system)

X64 (Intentional self-poisoning by and exposure to other and unspecified drugs, medicinal and biological)

X65 (Intentional self-poisoning by and exposure to alcohol)

Currently selected:

X60-X84 (Intentional self-harm)

Open

Open Fully

Close

Close All

Browse the list by opening and closing items.

Use Ctrl+Click to multiple select, Shift+Click for a range.

7. Other options:

Send

Help

Export Results

☐ (Check box to download results to a file)

Show Totals

☒

Show Zero Values

☐

Show Suppressed Values

☐

Precision

1

decimal places

Data Access Timeout

10

minutes

Send

Reset

Content source: CDC WONDER

Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76jsessionid=47787BCAC429B37131AAF5430EAA

HINT: Use Ctrl + Click for multiple selections, or Shift + Click for a range.

Weekday

All Weekdays
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Unknown

Autopsy

All Values
No
Yes
Unknown

Place of Death

All Places
Medical Facility - Inpatient
Medical Facility - Outpatient or ER
Medical Facility - Dead on Arrival
Medical Facility - Status unknown
Decedent's home
Hospice facility
Nursing home/long term care
Other

6. Select cause of death:

SendHelp

Click a button to select ICD codes by Chapters or by Groups.

☒ ICD-10 Codes

☐ ICD-10 130 Cause List (Infants)

☐ Drug/Alcohol Induced Causes

☐ ICD-10 113 Cause List

☐ Injury Intent and Mechanism

Browse or search to find items in the ICD-10 Codes Finder Tool, then highlight the items to use for this request.

(The *Currently selected* box displays all current request items.)

[Finder Tool Help](#) [Advanced Finder Options](#)

BrowseSearchDetails

ICD-10 Codes

Y85.9 (Sequelae of other and unspecified transport accidents)
Y86 (Sequelae of other accidents)
- Y87 (Sequelae of intentional self-harm, assault and events of undetermined intent)
Y87.0 (Sequelae of intentional self-harm)
Y87.1 (Sequelae of assault)
Y87.2 (Sequelae of events of undetermined intent)
- Y88 (Sequelae with surgical and medical care as external cause)
Y88.0 (Sequelae of adverse effects caused by drugs, medicaments and biological s
Y88.1 (Sequelae of misadventures to patients during surgical and medical procedur
Y88.2 (Sequelae of adverse incidents associated with medical devices in diagnostic
Y88.3 (Sequelae of surgical and medical procedures as the cause of abnormal reac

Currently selected:
X60-X84 (Intentional self-harm
Y87.0 (Sequelae of intentional

OpenOpen FullyCloseClose All

Hold down ctrl, then
select Y87.0

Browse the list by opening and closing items.

Use Ctrl+Click to multiple select, Shift+Click for a range.

7. Other options:

SendHelp

Export Results

☐ (Check box to download results to a file)

Show Totals

☒

Show Zero Values

☐

Show Suppressed Values

☐

Precision

1

decimal places

Data Access Timeout

10

minutes

Underlying Cause of Death, 1999

wonder.cdc.gov/controller/datarequest/D76?jsessionid=47787BCAC429B37131AAF5430EAA

BrowseSearchDetails

ICD-10 Codes

Y87.2 (Sequelae of events of undetermined intent)

- Y88 (Sequelae with surgical and medical care as external cause)

Y88.0 (Sequelae of adverse effects caused by drugs, medicaments and biological s

Y88.1 (Sequelae of misadventures to patients during surgical and medical procedur

Y88.2 (Sequelae of adverse incidents associated with medical devices in diagnostic

Y88.3 (Sequelae of surgical and medical procedures as the cause of abnormal reac

- Y89 (Sequelae of other external causes)

Y89.0 (Sequelae of legal intervention)

Y89.1 (Sequelae of war operations)

Y89.9 (Sequelae of unspecified external cause)

Currently selected:

X60-X84 (Intentional self-harm)

Y87.0 (Sequelae of intentional

Open

Open Fully

Close

Close All

Browse

the list by opening and closing items.

Use Ctrl+Click to multiple select, Shift+Click for a range.

7. Other options:

Export Results

Show Totals

Show Zero Values

Show Suppressed Values

Precision

Data Access Timeout

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(Check box to download results to a file)

decimal places

minutes

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Send

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Underlying Cause of Death, 1999-2020 Results

Deaths occurring through 2020

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Year ↓	State	Deaths ↑↓	Population ↑↓	Crude Rate Per 100,000 ↑↓
2020	Wyoming (56)	182	582,328	31.3
2020	Alaska (02)	204	731,158	27.9
2020	Montana (30)	300	1,080,577	27.8
2020	New Mexico (35)	516	2,106,319	24.5
2020	Idaho (16)	419	1,826,913	22.9
2020	Colorado (08)	1,302	5,807,719	22.4
2020	Oklahoma (40)	869	3,980,783	21.8
2020	South Dakota (46)	186	892,717	20.8
2020	Utah (49)	651	3,249,879	20.0
2020	West Virginia (54)	354	1,784,787	19.8
2020	Oregon (41)	833	4,241,507	19.6
2020	Arkansas (05)	583	3,030,522	19.2
2020	Nevada (32)	603	3,138,259	19.2
2020	Vermont (50)	117	623,347	18.8
2020	Arizona (04)	1,363	7,421,401	18.4
2020	Missouri (29)	1,125	6,151,548	18.3
2020	Kansas (20)	531	2,913,805	18.2
2020	Kentucky (21)	801	4,477,251	17.9
2020	Tennessee (47)	1,220	6,886,834	17.7
2020	North Dakota (38)	135	765,309	17.6
2020	Iowa (19)	552	3,163,561	17.4
2020	Maine (23)	234	1,350,141	17.3
2020	New Hampshire (33)	234	1,366,275	17.1
2020	South Carolina (45)	868	5,218,040	16.6
2020	Alabama (01)	793	4,921,532	16.1
2020	Washington (53)	1,212	7,693,612	15.8

BEHIND THE SCENES SURVEILLANCE

- Full time epidemiologists at the OME: Suicide, drug overdose
- Real time aberration detection and notification of stakeholders (LHDs, LMHAs, LEAs)
- Monthly (or more often) meeting to review recent surveillance of suicide and drug overdose
- Epidemiologic investigations in suicide deaths
- Equivocal cases (suicide vs. accident vs. other) for deaths in which intention is difficult to ascertain
- Research: Utah Youth Suicide Research Project, Utah Veterans and Service Members Suicide Research Project
- Research liaison: Utah Suicide Genetics Research Study at the University of Utah
- National leaders in epidemiological surveillance and reporting (both at OME and UDOH)

HOW WILL THIS DATA INFORM OR CHANGE MY SUICIDE PREVENTION STRATEGY? + PARTING THOUGHTS

- Most epidemiological changes in suicide death data occur over years worth of time. I.e., What happened in your community last month or next month does not typically change your strategy.
- Why do I need this data?
 - Grants, funding, and community engagement
 - Situational awareness
- Suicide deaths do not need to be increasing to illustrate a need for prevention, intervention and postvention resources.
 - Suicide rates are relatively high in every place in Utah *right now*
- The episodic is not epidemic.
 - And informing a community in this manner can be dangerous

WHAT ARE THE APPLICATIONS?

- Suicide-related data should be used to inform prevention strategies, policies, and priorities
- Suicide can be a problem, regardless if rates are increasing
- MOST of the time, a suicide death in a community will not necessarily change the way you are doing prevention. Things to watch for that MAY mean adjusting strategies would be:
 - A suicide cluster
 - A statistically significant increase in a specific method of suicide

**The OME or DSAMH would likely contact the local area's prevention coordinators and schedule a meeting if there was ever a concern about what is happening in your area



WHEN YOU NEED HELP ...

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