Iowa Violent Death Reporting System







Presentation Contributors



Lisa Roth, BSDeputy Director

University of Iowa Injury Prevention Research Center



Jonathan Davis, PhDPostdoctoral Research
Scholar

University of Iowa Injury Prevention Research Center

Presentation Objectives

As a result of attending this session, participants will be able to...

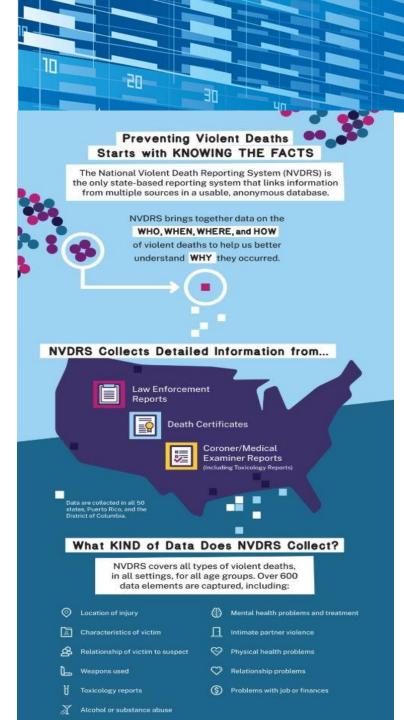
- Describe the history, purpose and implementation of the Iowa Violent Death Reporting System (IAVDRS)
- Identify top causes of violent death in Iowa and common contributing factors
- Apply information to prevention and response efforts in their respective agencies



What is the IAVDRS?

The IAVDRS, as part of the *National* Violent Death Reporting System network, is the only state-based reporting system that pools *more than 600 unique data* elements from multiple sources into a <u>usable</u>, <u>anonymous database</u>. This system covers <u>all types of violent death-including</u> homicides and suicides-in all settings for all age groups. As such, this system is far more comprehensive than what is available elsewhere and data can be used develop and tailor violence prevention efforts.





Data is collected on:

- Homicides
- Suicides
- Deaths resulting from law enforcement intervention
- Unintentional firearm injury deaths
- Deaths of undetermined intent
- Deaths resulting from terrorism

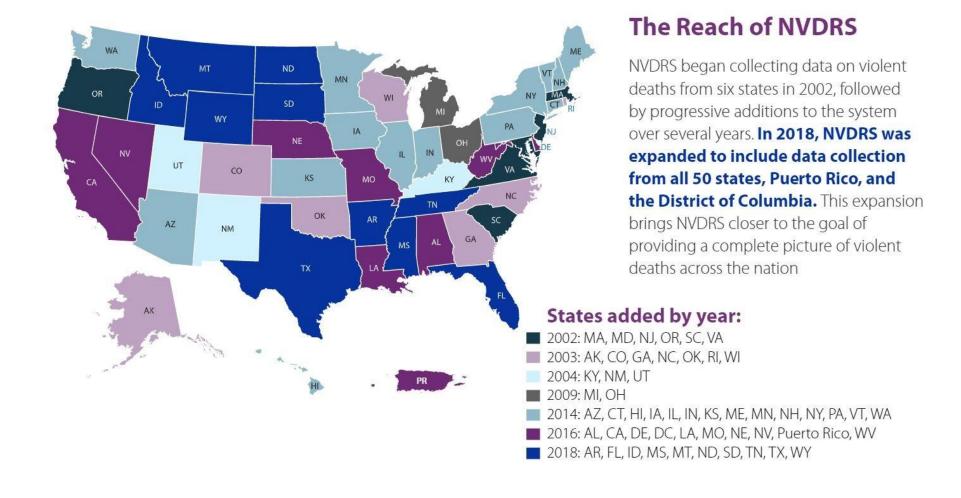


Image: CDC's National Violent Death Reporting System (NVDRS)





Program Timeline

2014	2015	2016-2018	2019-2022
First Funding Received (2014-2019)	Data Collection Begins	Statewide Data Collection	Second Round of Funding
Program Start-Up	Data collected from 7 most populous counties (Black Hawk, Johnson, Linn, Polk, Pottawattamie, Scott and Woodbury)		Project Period: 09/2019-08/2022

Program Implementation



Funded by CDC Responsible for Project Direction/Oversight



Contracted by IDPH for Day-to-Day Data
Collection +
Abstraction + Analysis

Data Providers

IDPH Vital Records (Death Certificates)

Coroner & Medical Examiners (IOSME & 2 County CME)

Investigating LE Agency / DCI

IAVDRS Advisory Committee

The program is guided by an advisory committee comprised of data providers and cross-sector stakeholders. Meetings are held quarterly either virtually or in-person.



2016-2018 DATA

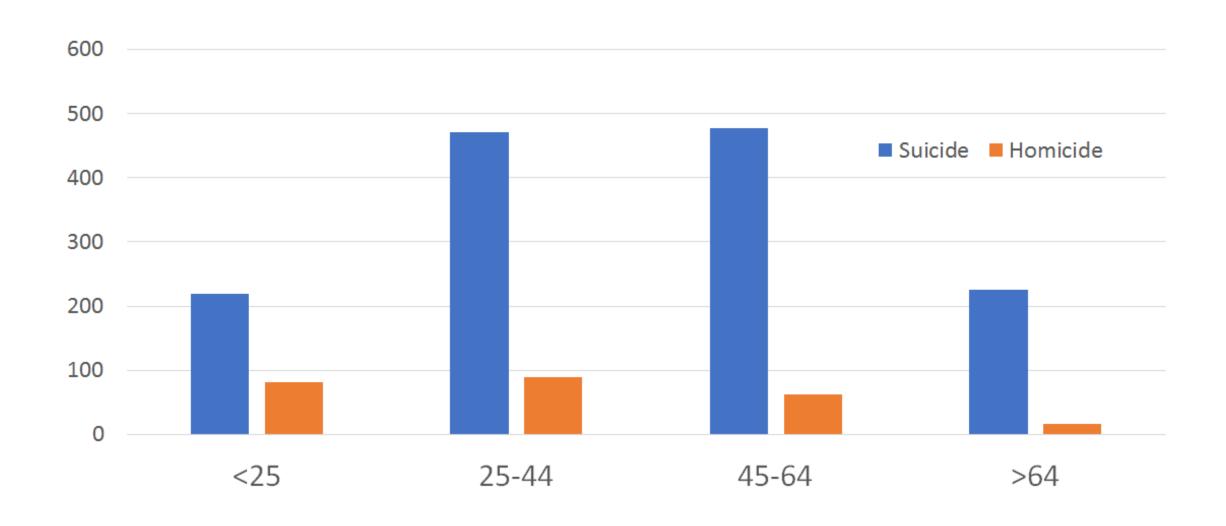
Types of Violent Deaths in Iowa, 2016-2018

	n = 1799	(%)
Homicide	252	14.0
Suicide	1392	77.4
Undetermined intent	124	6.9
Other*	31	1.7

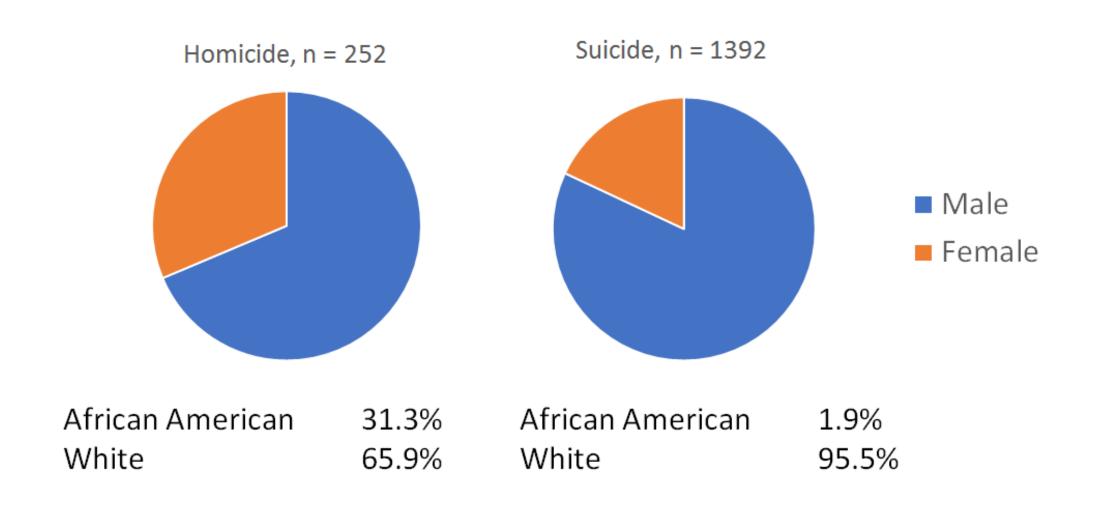
^{*}Other includes: Legal intervention, Unintentional firearm



Homicide and Suicide by Age Group, 2016-2018



Demographic Differences, 2016-2018



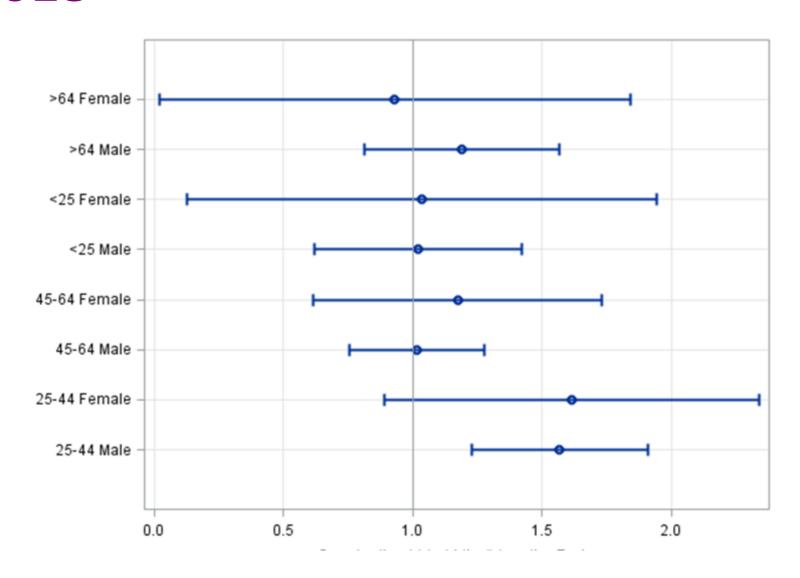
Rates by Rurality, 2016-2018

- •Rurality determined at census block level
- •Urban, Large Rural, Small Rural, Isolated
- •Standardized by:
 - Age
 - Sex
 - Year

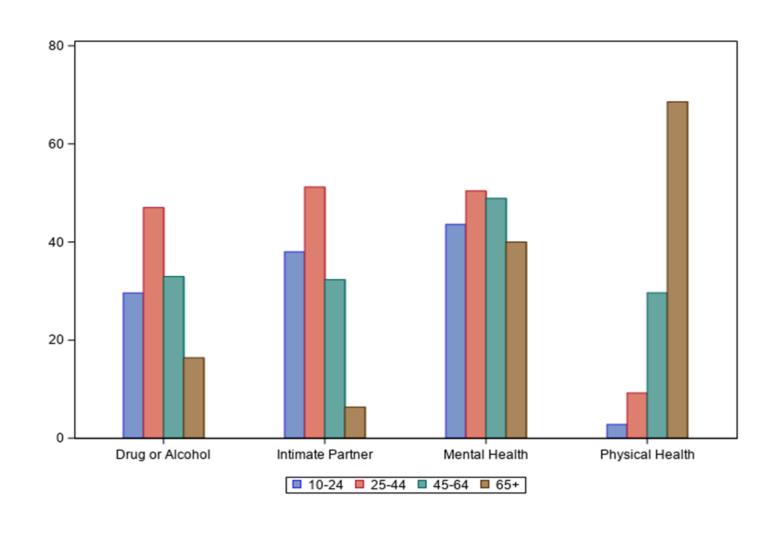
Standardized Mortality Rates by Rurality, 2016-2018

	Rate			
	(per 100,000)	SMR	95% CI	
Urban	14.2	0.95	0.89	1.02
Large Rural	18.3	1.23	1.07	1.38
Small Rural	15.3	1.02	0.88	1.16
Isolated	13.3	0.89	0.75	1.03

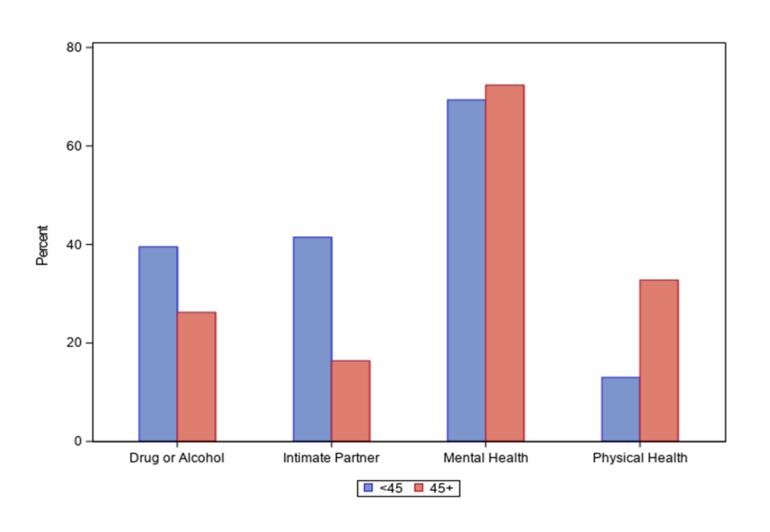
Standardized Mortality Rates, Large Rural, 2016-2018



Circumstances Data (2016-2018), Male



Circumstances Data (2016-2018), Female



Data from CME

Circumstances

https://idph.iowa.gov/Portals/1/userfiles/168/VDRS%20card.pdf

For All Victims

Had the victim been:		
□ Depressed?	Y	N
 Diagnosed with mental health disord 	er? Y	_ N
 Previously or currently seeing a 		
mental health professional?	Υ	_ N
□ Taking mental health medication?	Y	_ N
A perpetrator/victim of violence in		
the past month?	Y	N
Upset over suicide/death of family/fr	iend	
(when did death happen)?	Y	_ N
Did the victim have problems with:		
☐ A crisis in the past two weeks (descr	ibe)?	
- Pronoio in the pact the moone (accord		
☐ Physical health (describe)?		
□ Drugs or alcohol?	Y	_ N
□ An intimate partner?	Y	_ N
☐ A non-intimate relationship?	Υ	N
□ Work, school, finances?	Υ	_ N
□ Criminal/non-criminal charges?	Y	_ N
The state of the s	· · · · · · · · · · · · · · · · · · ·	

Mental Health

From CME: History of Mental Disorder
 -Narrative, Treatment

- ❖ Depressed Mood 47%
- ❖ Mental Health (Diagnosis) 48%

- ❖ History of Treatment 37%
 - Prescribed medication

Variables about Firearms

- □ About 50% of suicides in Iowa involve firearms
- Owner (67%), Unknown (23%)

- □ Stored Loaded Unknown (92%)
- □ Stored Locked Unknown (87%)

At-risk Populations, 2016-2018

- 98.6% Sexual Orientation Unknown
 - 15 LGBTQ suicides
- 12 Identified as homeless
 - Address for shelter or motel not enough



Discussion



Opportunities to Apply Information

Iowa Violent Death Reporting System Special Report on

Suicide in Iowa, 2018

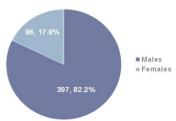
TYPES OF VIOLENT DEATHS AMONG IOWA RESIDENTS

- In 2018, the majority of violent deaths in Iowa were classified as suicide, 78.5%.
- The remaining deaths from violence in Iowa were attributed to homicide (12.5%), undetermined (6.8%), and legal intervention (1.5%).

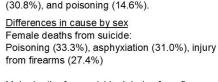
SUICIDE IN IOWA

- State Rates. lowa's suicide rate in 2018 was 15.3 per 100,000 residents.
- State/U.S. Comparison. The suicide rate in Iowa was slightly higher than the national average of 14.8 per 100,000 residents.
- Sex. Males accounted for 82.2% of deaths from suicide and females accounted for 17.8% of deaths from suicide in 2018.

Sex of individuals who died by



suicide, 2018



47.9% of suicides, followed by asphyxiation

Report date: September, 30 2020

The Iowa Violent Death Reporting System (IAVDRS) is

a CDC-funded statewide surveillance system that collects information on deaths in lowa resulting from

homicide, suicide, unintentional firearm deaths, legal

IAVDRS is a multi-source data system from death cer-

intervention, and deaths from undetermined intent.

tificates, medical examiner and law enforcement re-

ports. This effort aims to aid researchers, policymakers, and community interest groups in the develop-

ment of public health prevention strategies to reduce violent deaths. lowa began collecting data in 2015,

In 2018, there were 615 total violent deaths involving

lowa residents. Four hundred eighty-three deaths were

Injuries from firearms were the cause of deaths in

classified as suicide. This report is a summary of suicide deaths of lowa residents occurring in 2018.

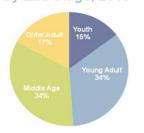
with statewide coverage achieved in 2016.

Suicide Cause of Death

Male deaths from suicide: Injuries from firearms (52.3%), asphyxiation (30.8%), poisoning (10.6%)

Suicide Deaths by Life Stage, 2018*

*Age groups defined as Youth: 10-24; Young Adult 25-44; Middle Age 45-64; Older Adult 65+







More information on suicide prevention efforts

and resources can be found at Your Life Iowa (http://www.yourlifeiowa.org), 1-855-581-8111 (telephone) and 1-855-895-8398 (TEXT).

This publication was supported by Cooperative Agreement #5 -U17-CE002599-04, funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the Department of Health and Human Services.

National Suicide Rates - Centers for Disease Control & Prevention, National Center for Injury Prevention and Control. https://www.cdc.gov/injury/wisqars/index.html Data updated July 1, 2020

State Rates - Iowa VDRS (for numbers of deaths). Bureau of Census (for population estimates)

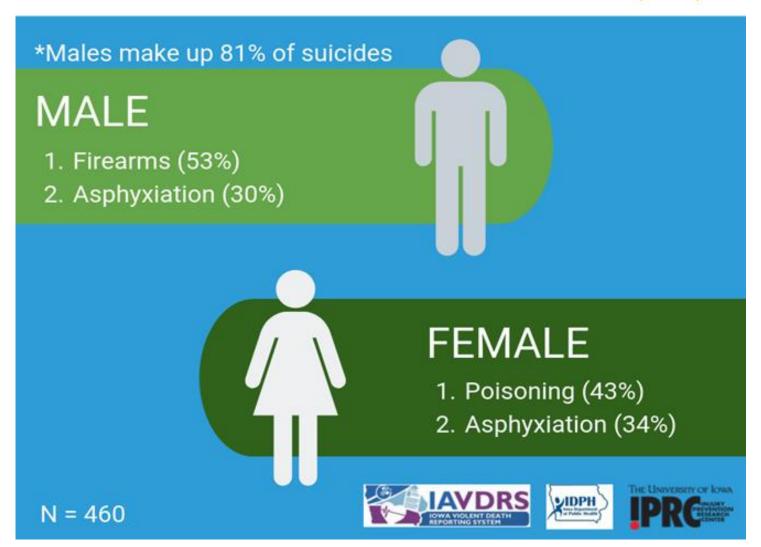


2018 Suicide Report

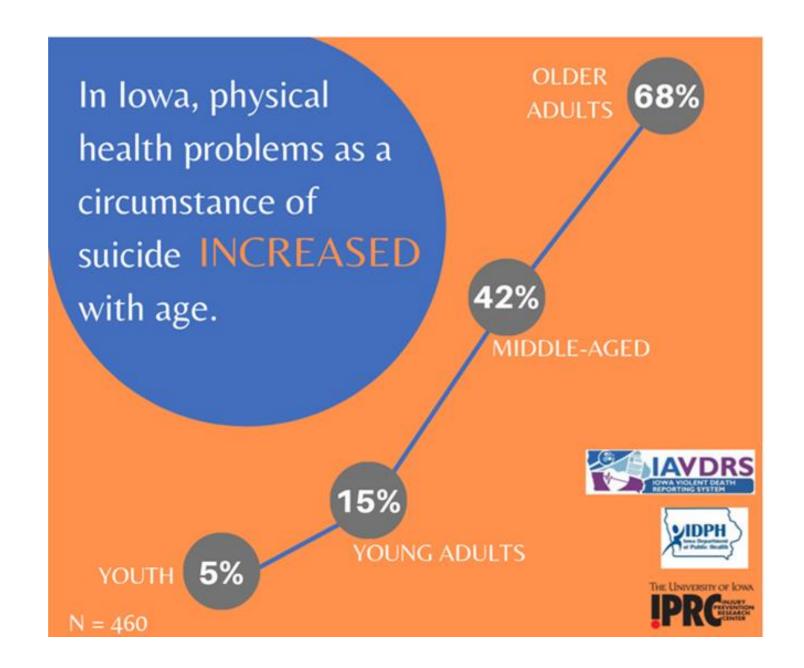
- ❖ State Rate. 15.3 per 100,000 residents.
- ❖ State/U.S. Comparison. The suicide rate in Iowa was slightly higher than the national average of 14.8 per 100,000 residents.
- ❖ Sex. Males accounted for 82.2% of deaths from suicide and females accounted for 17.8% of deaths from suicide victims in 2018.
- Cause of Death.
 Firearm 52.3% of Male // 27.4% Female
 Poisoning 10.6% Male // 33.3% Female

Suicide Methods by Sex, 2017

MOST COMMON SUICIDE METHODS IN IOWA (2017)



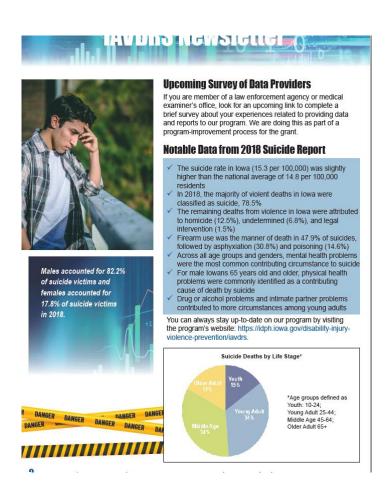
Physical Health, 2017



Fall 2020 Newsletter

https://idph.iowa.gov/disability-injury-violence-prevention/iavdrs





Ideas for Using Data

- Use as data point in needs assessment
- Utilize data to guide area of focus/population of focus for programming (prevention or response)
- Include data in grant applications
- Provide suggestions/make requests for data analysis
- Incorporate data into presentations/trainings
- Identify new partners for outreach/collaboration

For More Information

https://idph.iowa.gov/disability-injury-violence-prevention/iavdrs

- Lisa Roth, UI Project Coordinator

 UI Injury Prevention Research Center

 (319) 359-9444

- Marlene Callahan, Abstractor
 UI Injury Prevention Research Center
 (319) 610-8595
 marlene-callahan@uiowa.edu
- Jonathan Davis, Data Analyst
 UI Injury Prevention Research Center
 jonathan-a-davis@uiowa.edu



lisa-m-roth@uiowa.edu



