

South Dakota Preventable Death Review Committee Meeting February 15, 2019



South Dakota Preventable Death Review Committee Objectives

PURPOSE: To standardize and influence how South Dakota performs infant, child, maternal and violent preventable death reviews

- Review current preventable death review efforts in South Dakota
- Identify common processes
- Identify challenges with implementation and standardization of preventable death review teams
- Establish standard strategies critical to infant mortality, maternal mortality, child mortality and violent death reviews
- Assist and support groups with selecting and targeting prevention efforts
- Launch National Violent Death Review System (NVDRS) in Minnehaha and Pennington



SD Preventable Death Review Committee

- Infant mortality review- DOH
- Child mortality review- DSS
- Maternal mortality review- National and Local
- Violent mortality reporting- DOH



Statewide Infant Death Review

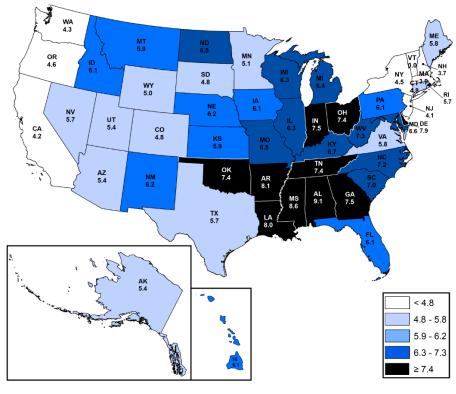


Infant mortality rates, South Dakota 1916-2017 (infant deaths per 1,000 live births)



Infant Mortality Rates, United States, 2016

New Hampshire 3.7 Massachusetts 3.9 New Jersey 4.1 California 4.2 Washington 4.3 New York 4.5 Oregon 4.6 South Dakota 4.8 Colorado 4.8 Connecticut 4.8 Wyoming 5.0 Minnesota 5.1 Alaska 5.4 Arizona 5.4 Utah 5.4 Nevada 5.7 Rhode Island 5.7 Texas 5.7 Maine 5.8 Virginia 5.8 Kansas 5.9 Montana 5.9 Florida 6.1 Hawaii 6.1 Idaho 6.1



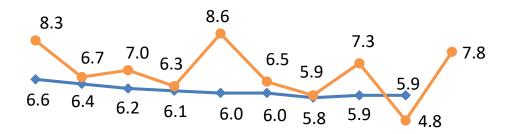
lowa 6.1 Pennsylvania 6.1 Nebraska 6.2 New Mexico 6.2 Illinois 6.3 Wisconsin 6.3 Michigan 6.4 Missouri 6.5 North Dakota 6.5 Maryland 6.6 Kentucky 6.7 South Carolina 7.0 North Carolina 7.2 West Virginia 7.3 Ohio 7.4 Oklahoma 7.4 Tennessee 7.4 Georgia 7.5 Indiana 7.5 Delaware 7.9 Louisiana 8.0 Arkansas 8.1 Mississippi 8.6 Alabama 9.1

US 2016 Infant Mortality Rate: 5.9 SD 2017 Infant Mortality Rate: 7.8



Infant Mortality Rates, South Dakota and United States, 2008-2017

Rate per 1,000 live births



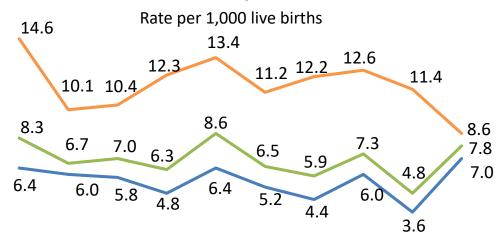
→ United States

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

Source: SDDOH Vital Statistics 6



Infant Mortality Disparity, South Dakota, 2008-2017



-White

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

Source: SDDOH Vital Statistics 7



History

- 1997 Infant and Child deaths reviewed by two local teams
 - Sioux Falls-Known as Regional Infant and Child Mortality Review Committee (RICMRC) reviewed a 10 county area
 - Rapid City-reviewed infant and child deaths in Pennington and surrounding area.
- 2011, based on recommendations from the Governor's Task Force on Infant Mortality, the DOH used the existing teams to add the additional counties to review all infant deaths that leave the hospital.
- Data collected since 2011 has been entered into the Child Death Review Case Reporting System, from the National Center for Fatality Review and Prevention by the DOH.



Current Review

- 2018- Sioux Falls- DOH now leads the East River Infant Death Review Committee.
 - Review only infants that have been released from the hospital.
 - No longer review children.
 - Small team focused on infants
 - Meet twice a year
- Rapid City Review Team has not changed
 - Meet twice a year



Accomplishments

- In September of 2017 the Department of Health published its first report using data from the database: Infant Death Review South Dakota 2013-2015 authored by the State Epidemiologist, Dr. Lon Kightlinger.
- An infographic, South Dakota Infant Death Review, was produced to facilitate data dissemination found in the Infant Death Review South Dakota 2013-2017 report.
- Information from the 2017 report was shared with both death review teams to promote better data collection and to increase focus on prevention efforts.
- In May of 2018, Susanna Joy, Program Associate from the National Center for Fatality Review and Prevention provided training to the Statewide Infant Death Review Committee at their annual meeting.
- The Infant Death Review (IDR) infographic was updated in May to include 2016 data and an ad was created for the journal *SD Medicine* to share key data points with providers in the state.



Challenges

- There is not a state mandate for infant/child death review.
- It has become more and more difficult to collect data for the review process due to *concerns related to confidentiality, HIPAA* and Marsy's Law.
- Inconsistency in how the teams conduct their reviews.
- Sustainability of the review teams (since all members are volunteers) and membership is not consistent.
- Funding not available for review teams to implement prevention recommendations.

Child Death Review

Pamela Bennett, Assistant Director

JoLynn Bostrom, Protective Services Program Specialist

<u>Division of Child Protection Services – Reporting Requirement</u>

- Report child fatalities to NCANDS (National Child Abuse and Neglect Data System)
- NCANDS defines child fatality as "death of the child caused by injury resulting from abuse or neglect or where abuse or neglect was a contributing factor."
- Report only cases that were reported to Child Protection Services
- In Federal Fiscal Year 2018 (October 1, 2017 to September 30, 2018), South Dakota had three substantiated cases of child abuse/neglect that resulted in a three child fatality.



Child Death Review

Division of Child Protection Services Internal Child Death Review

- All fatality reports are reviewed by Division Director, Deputy Director, and Protective Services Program Specialist.
- Prior reports and history, if any, with the family and child is reviewed.
- Child Protection Services staff and Law Enforcement work together to determine outcome.
- Law Enforcement's focus is regarding criminal charges, while Child Protection's focus is child safety.
- Case is followed from the time of the initial report to the date the final outcome is determined.



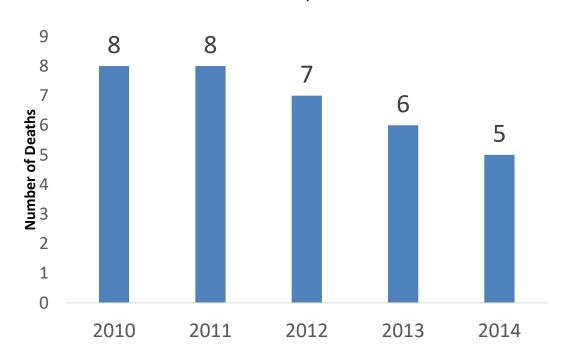


Maternal Mortality Review

- South Dakota does not currently have a maternal mortality review committee (MMRC)
- Approximately 30 states have committees
- Definitions:
 - Maternal death: death of a woman while pregnant or within 42 days from any cause
 - Pregnancy associated: death of a woman while pregnant or within 1 year from any cause
 - Pregnancy related: death of a woman while pregnant or within 1 year related to or aggravated by pregnancy (not from accidental or incidental causes)
 - CDC Pregnancy Mortality Surveillance System (PMSS): uses pregnancyrelated definition



Pregnancy-Associated Deaths, South Dakota, 2010-2014

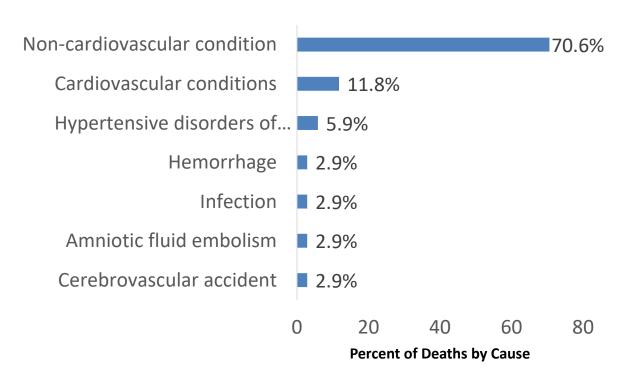


Source: CDC PMSS

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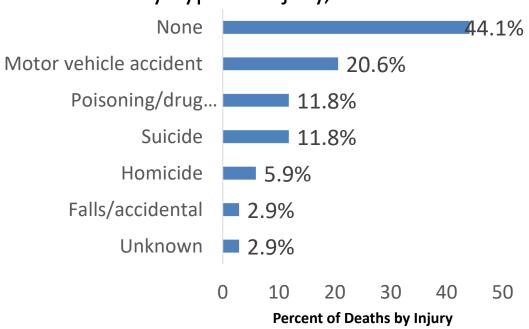
True Cause of Death as Determined by PMSS



Source: CDC PMSS



Percent of Pregnancy-Associated Deaths by Type of Injury, 2010-2014



Source: CDC PMSS



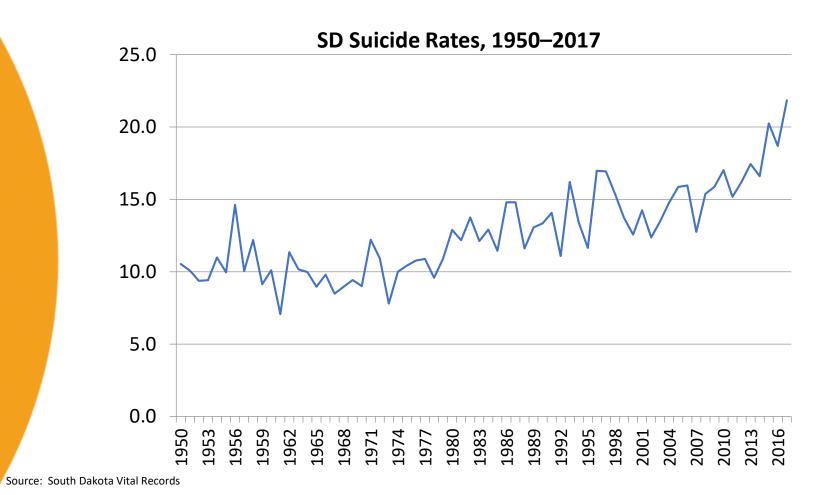
Region VIII States

- Colorado: MMRC since 1958; 1993 official CDC MMRC;
 - Leading causes: injury, mental health conditions
- Utah: committee since 1995; have legislation
- Montana: 2013 FICMR Act amended to look at maternal deaths
 - Averages 9 deaths/year; American Indian death disparity
- Wyoming: No MMRC
 - Discussion with ACOG in their state.
 - PQC since 2017; interested in establishing MMRC under this
- North Dakota: 1953-MMR through UND Medical School; led by Dennis J. Lutz, M.D.; 2-4 deaths/year



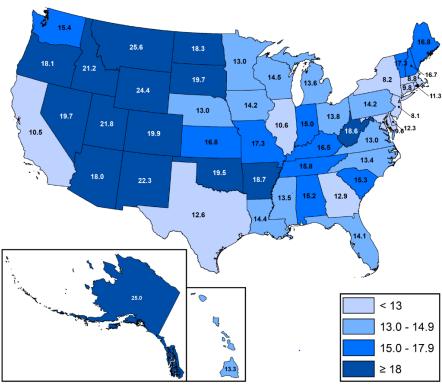
Maternal Mortality in South Dakota

- Interest from South Dakota's American College of Obstetricians and Gynecologists (ACOG) Chapter
- Interest from OB/GYN providers at Sanford, Avera and Regional Health
- Informal meetings to discuss available data and next steps
- Focus on <u>prevention</u> of maternal deaths



Suicide Rates, United States, 2013-2017

New Jersey 8.1 New York 8.2 Massachusetts 8.8 Maryland 9.6 Connecticut 9.8 California 10.5 Illinois 10.6 Rhode Island 11.3 Delaware 12.3 Texas 12.6 Georgia 12.9 Minnesota 13.0 Nebraska 13.0 Virginia 13.0 Hawaii 13.3 North Carolina 13.4 Mississippi 13.5 Michigan 13.6 Ohio 13.8 Florida 14.1 lowa 14.2 Pennsylvania 14.2 Louisiana 14.4 Wisconsin 14.5 Indiana 15.0

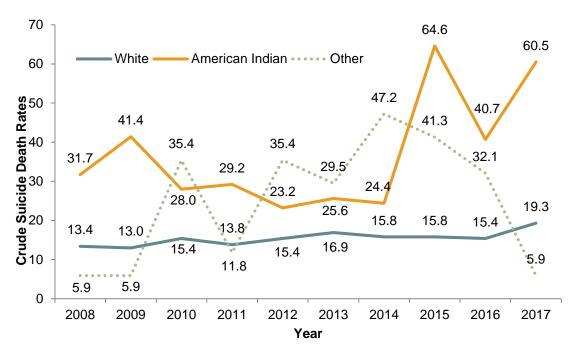


U.S. 2013-2017 Suicide Rate: 13.4

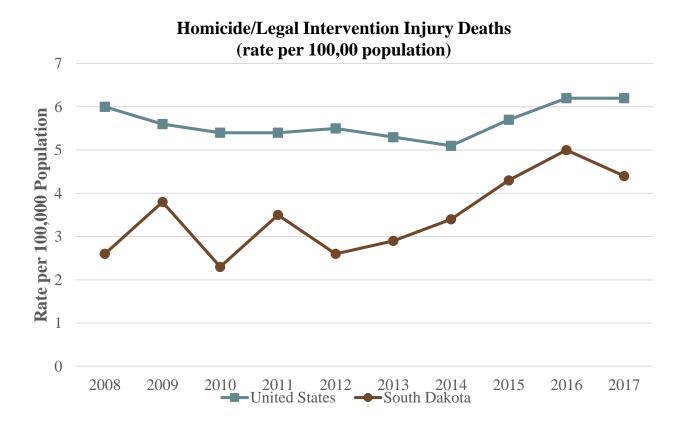
Alabama 15.2 South Carolina 15.3 Washington 15.4 Tennessee 15.8 Kentucky 16.5 New Hampshire 16.7 Kansas 16.8 Maine 16.8 Missouri 17.3 Vermont 17.3 Arizona 18.0 Oregon 18.1 North Dakota 18.3 West Virginia 18.6 Arkansas 18.7 Oklahoma 19.5 Nevada 19.7 South Dakota 19.7 Colorado 19.9 Idaho 21.2 Utah 21.8 New Mexico 22.3 Wyoming 24.4 Alaska 25.0 Montana 25.6



SD Suicide Death Rates by Race, 2008-2017



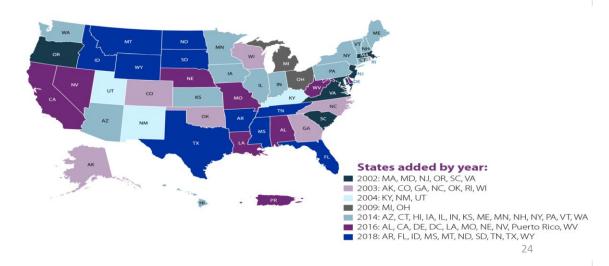
Source: SDDOH Vital Statistics





National Violent Death Reporting System

- One of the ten remaining states to implement this reporting system
- CDC funding out of the National Center for Injury Prevention and Control
- 4 year project period (9/2018 8/2022)
- Year 1 funding \$184,173





South Dakota Violent Death Reporting System (SD-VDRS)

Roles;

- Colleen Winter- Division Director, Family and Community Health
 - Lead committee
- Kiley Hump- Administrator, Chronic Disease Prevention and Health Promotion
 - PI/Grant Manager, assist with the committee
- Ashley Miller- Chronic Disease Epidemiologist
 - -Data collection and analysis
- Amanda Nelson- Injury Prevention Epidemiologist
 - Data collection and analysis
- Mariah Pokorny- State Registrar, Office of Vital Statistics
 - -Death certificates and work with coroners
- **Dr. Josh Clayton-** State Epidemiologist
 - Support data collection and analysis



South Dakota Violent Death Reporting System (SD-VDRS)

- Initially the Department of Health will work with Minnehaha and Pennington Counties with the goal of collecting information on violent deaths statewide beginning January 2020
- Data will be collected from death certificates, coroner/medical examiner reports, and law enforcement reports
- All of this information is combined to determine the "who, when, where, and how"
- Which will provide insights into the "why"
- SD-VDRS aims to provide our state and communities with a clearer understanding of violent deaths
- This information can be used to guide state and local prevention efforts.

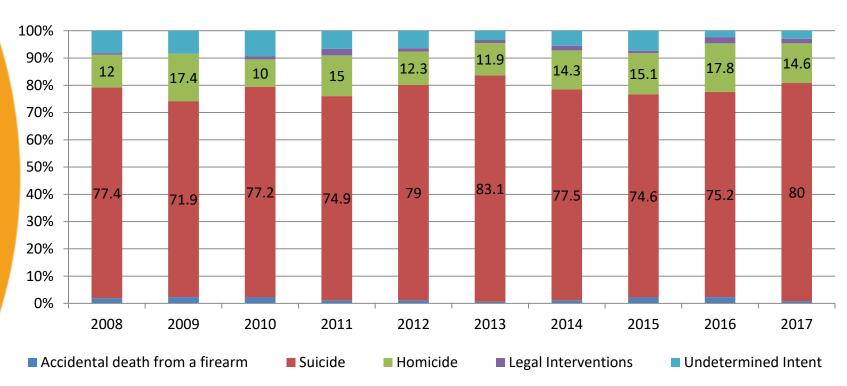


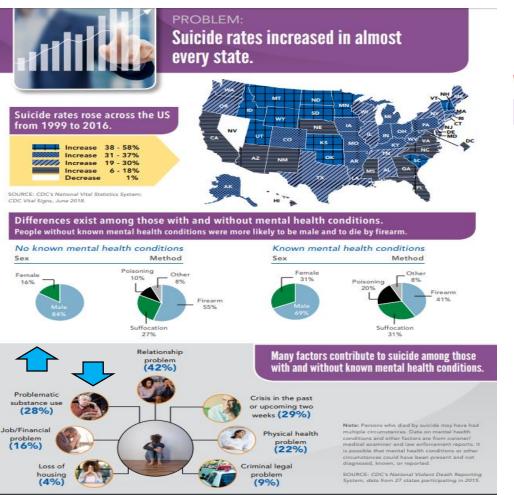
National Violent Death Reporting System

- Collects information on all violent deaths
- A violent death includes:
 - Suicides
 - Homicides
 - Undetermined intent
 - Unintentional firearm
 - Legal intervention
 - Terrorism



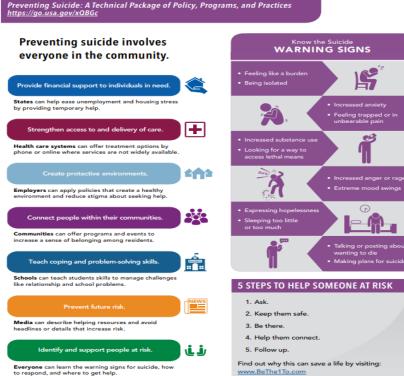
Violent Deaths in South Dakota, by Category, 2008-2017





CDC developed a Vital Signs Report using information from the NVDRS reporting system





https://www.cdc.gov/vitalsigns/pdf/vs-0618-suicide-H.pdf

Examples from Other States

of the 5,881 suicide

deaths from 2004-

2013 were

veterans

data showed

increased risk & eading cicumstances of suicide among

veterans

Informs statewide

suicide prevention program planning

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The age-adjusted suicide rate in Oklahoma was 33% higher than the same rate for the U.S. in 2013. Oklahoma Violent Death Reporting System (OKVDRS) data illustrate the extent of this problem.

- Suicide was the third leading cause of death for Oklahomans age 10.34 in 2013, and the most prevalent type of violent death from 2004-2013, accounting for nearly 600 resident deaths each year.
- Suicides outnumber homicides by about three to one
- The Veteran suicide death rate increased by 34% from 2005-2012, with over 1,000 veteran suicides during that time; the suicide rate among veterans was twice that of non-veterans.

Among the 5,881 suicide deaths in Oklahoma from 2004-2013:

- 79% were male, and 21% were female
- 22% of suicide victims were veteran

- 144 (2.4%) victims killed at least one other person before taking his/her own life, resulting in 173 homicide deaths.
- Firearms (61%) were the most prevalent means of suicide, followed by hanging/strangulation (20%), poisoning (14%), and other means (5%); immediate access to lethal means may increase the risk for suicide.
- Among suicide victims noted to have a diagnosed mental health problem (2,098), 62% were currently receiving mental health treatment.
- A significant number of suicides were associated with a current depressed mood, intimate partner problem, mental and/or physical health problem, and/or crisis in the past weeks.

TRANSLATING DATA INTO ACTION

Informing prevention planning

- The Oklahoma Injury Prevention Service provides OKVDRS data and statistics and works closely with the Oklahoma Department of Mental Health and Substance Abuse Services (ODMHSAS), the Oklahoma Suicide Prevention Council, and other suicide prevention groups.
- OKVDRS suicide data informed the Council's 2011
 Oklahoma Strategy for Suicide Prevention.

Supporting veteran suicide prevention

With five military bases in Oklahoma, veterans' health issues impact more than 300,000 Oklahomans. An OKVDRS special study and report on veteran suicides opened doors for collaboration with the Veterans Administration in Oklahoma, and helped illustrate the:

- increased risk for suicide among veterans of all ages
- leading circumstances associated with veteran suicides across the lifespan - physical and mental health problems, depressed mood, and intimate partner problems
- most common means of suicide (firearms)

Expanding the power of OKVDRS data

 OKVDRS data will be linked to other state databases to better inform suicide prevention, mental health treatment, and problematic drug prescriptions related to suicide. OKVDRS staff worked with law enforcement, the Child Death Review Board, and the Oklahom Suicide Prevention Council to modify a pocket card that helps law enforcement collect more complete and accurate suicide circumstances data, which

more complete and accurate suicide circumstances data, which are used to understand understand Administration suicide risks.

Partnering with law enforcement

- The Oklahoma Association of Chiefs of Police hosts the OKVDRS Advisory Committee meetings and distributes data reports to its members.
- The Oklahoma State Bureau of investigation maintains a full time program officer to collect law enforcement data for the OKVDRS through a contract with the Injury Prevention Service.

- Oklahoma noticed their suicide rate was 33% higher than the US rate
- The suicide rate among veterans was twice that of non-veterans
- Significant number of suicides were associated with current depressed mood, intimate partner problem, mental and/or physical health, and/or crisis in the past weeks

Data into Action:

- Inform prevention planning
- Opened doors for collaboration with the veterans administration

Examples from Other States

THE BIG PICTURE

RIVDRS data for 2004-2010 show that:

of those who died by suicide experienced a crisis in the two weeks prior to death.

TRANSLATING DATA INTO ACTION

Data from the Rhode Island Violent Death Reporting System (RIVDRS) provided new information on suicide and a better understanding of who is at risk.

- Violence & Injury Prevention Program and its prevention partners for ground-breaking priority setting and program planning.

 Using new suicide data from the RIVDRS, the Suicide Prevention Subcommittee of the Rhode Island Injury Community Planning Group Identified the adult, working age population as being at increased risk for suicide and suicide attempts.
- The data were shared with key partners through the The data were shared with key partners through the subcommittee's members, including the State Medical Examiner, RIVDRS Program Manager and Epidemiologist, Violence & Injury Prevention Program manager, and representatives from the Samaritans, American Foundatio for Suicide Prevention, community health and mental heal centers, Bradley Children's Hospital, Brown University, Coastline Employee Assistance Program, and the Rhode Island Student Assistance Program.
- RIVDRS data

RIVDRS shares

show working age adults are at increased

risk for suicide

assistance ogram adds suicide prevention to its ission, refers at-risk ployees to clinic

Symposium

into worksites

- data with suicide prevention partners & 2 of state's largest employers

- Rhode Island noticed 25% of those who died by suicide experienced a crisis in the two weeks prior to death
- 78% were males
- 52% had a current mental health problem

Data into Action:

- Used to set priorities and program planning
- Identified the adult, working age population at increased risk
- Data shared with suicide prevention partners and 2 of the states largest employers
- Employee assistance program add suicide prevention to its mission, refers at risk employees to clinic staff

Examples from Other States

THE BIG PICTURE exposed to a homicide in 2003-2008 were age 5 or younger TRANSLATING DATA INTO ACTION UTVDRS Better data provide more complete picture data expanded of domestic violence deaths to include any intimate partner, family member of roommate in incident on the UTVDRS, the VIPP and DVFRC helped infor a policy change to close a gap in services for the children of domestic Worked with state DFCS fostering a strong partnership between the Utah Department of Health's Violence and Injury Prevention Program (VIPP) and the state's multi-disciplinary Domestic Violence Fatality Review Committee (DVFRC), which includes more than 9 agencies, to close gap in services for ctim's childre expanding domestic violence data collection beyond the victim and suspect to include any intimate partner, family member and/or roommate involved in the incident. now connected to mental health & combining national and state-specific intimate partner violence variables to enable the UTVDRS to collect more and more detailed - domestic violence-related data, and ies to receive an assessment and get connected Linking children of victims to needed Intimate partner violence is particularly damaging to childre who witness this violence. They are at greater risk of develop ing psychiatric disorders, developmental problems, school failure, violence against others, and low self-esteem, and A referral to DFCS was made in 13 (46%) of the 28 intimate partner violence incidents with children in the home during

- Domestic violence in Utah is on of the fastest growing violent crimes
- In 44% of intimate partner violence incidents one or more children under 18 were living in the victim's home
- 78% of children exposed to the homicide were age 5 or younger

Data into Action:

- Expanded data collection to include intimate partner, family member or roommate incident
- Worked with the state department of children and family services to close gap in services for victim's children
- Children of victims now connected to mental health and other services



NVDRS Data



NVDRS Data

- Over 600 Variables
 - Demographics
 - Age, sex, race, ethnicity, place of residence, birthplace, industry, occupation, and education
 - Injury and Death
 - Manner of death, injury location and time, external cause of injury codes, underlying causes of death, location of death, and wounds
 - Circumstances
 - Mental health, substance abuse and other addictions, relationships, life stressors, crime and criminal activity, and manner specific circumstances
 - Weapons
 - Weapon type (firearm, blunt/sharp object, poisoning, fall, motor vehicle, etc.)
 - Suspects
 - Age, sex, and race of suspect; relationship to victim, and circumstances
 - Toxicology
 - Toxicology report findings
 - Optional: Intimate Partner Violence, Child Fatality Review data, and overdose-specific data

SD-VDRS Data Collection Process

Coroners/Medical Examiners

- Fills out death certificate
- Files death certificate with Office of Vital Records



- •Runs a report weekly to identify violent death cases
- Notifies Department of Health of cases that meet the criteria for **NVDRS**
- Notifies Coroners/ME of cases that meet **NVDRS** criteria

Office of Chronic Disease Prevention and Health

- Promotion*
- Tracks violent death cases internally on a secured network
- Notifies Law Enforcement of violent death cases

Law Enforcement

- Completes SD-VDRS form for violent death cases
- •Sends form back to Department of Health

Office of Chronic Disease Prevention and Health Promotion*

- •Collects forms and data from Law Enforcement and Office of Vital Records
- •Enters non-PII information into **NVDRS** web



Coroner/Medical **Examiner**

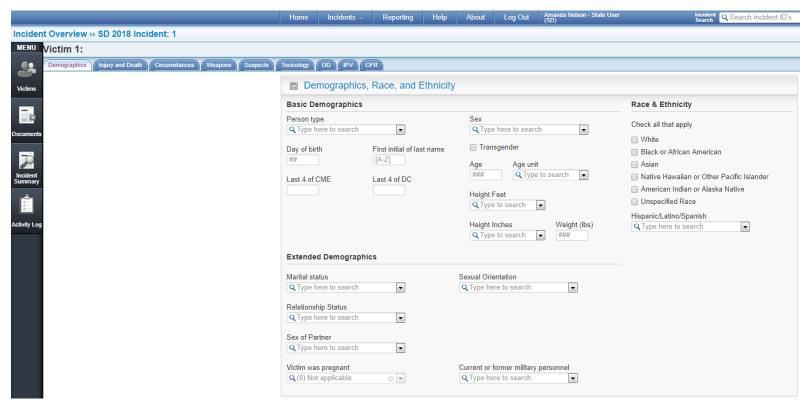
- Completes SD-VDRS form for violent death cases
- Sends form back to Office of Vital Records

*Office of Vital Records and Office of Chronic Disease Prevention and Health Promotion are both programs under the Department of Health





NVDRS Web





Death Record Data Sharing

- Only specific individuals within the project have access to identifiable information for:
 - Infant/Child Death
 - Violent Death
 - Maternal Mortality
- Only de-identified information is shared with national registries as well as published presentations or papers
- All records are stored in confidential and secure electronic folders maintained by DOH



Death Record Data Sharing

- Only deaths occurring in South Dakota are automatically eligible for review
- SD resident deaths occurring in other states are only eligible for review if allowed by state of death

Colorado Violent Death Reporting System (CoVDRS): Program Background and Initiatives

Kirk Bol, MSPH

South Dakota Preventable Death Committee February 15, 2019



Presenter Introduction

- Kirk Bol, MSPH
 - Manager, Registries and Vital Statistics Branch
 - Contains Colorado's Vital Statistics Program, CoVDRS, Central Cancer Registry, Birth Defects Monitoring Program and Medical Aid-in-Dying
 - Principal Investigator, CoVDRS
 - Since 2014





Colorado Violent Death Reporting System (CoVDRS)

- First funded by NVDRS in 2003, first year of data was 2004
- Housed at the Colorado Department of Public Health and Environment
 - Originally housed within Prevention Services Division,
 Injury Epidemiology Program
 - Moved to Center for Health and Environmental Data,
 Vital Statistics Program in 2011
 - Continues to work close with current Violence and Injury Prevention-Mental Health Promotion Branch (PSD)

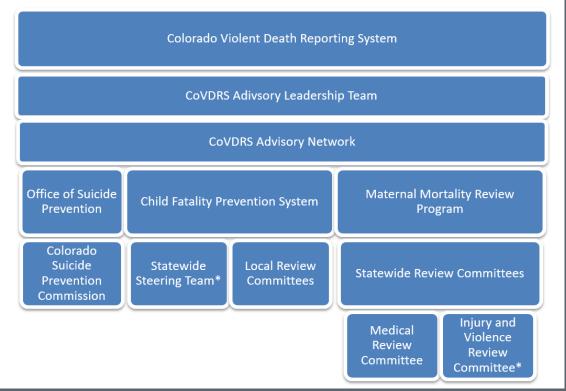


Colorado Violent Death Reporting System (CoVDRS)

- Current Staff
 - Principal Investigator: Kirk Bol, MSPH
 - Program Coordinator/Lead Epidemiologist: Ethan Jamison, MPH
 - Coroner/Medical Examiner (CME) RecordSpecialist/Abstractor: Joshua Swanson
 - Law Enforcement (LE) Record Specials/Abstractor:
 Karl Herndon
 - Essentially 3 FTE (with 2-5% of PI's time)



CoVDRS Advisory Network





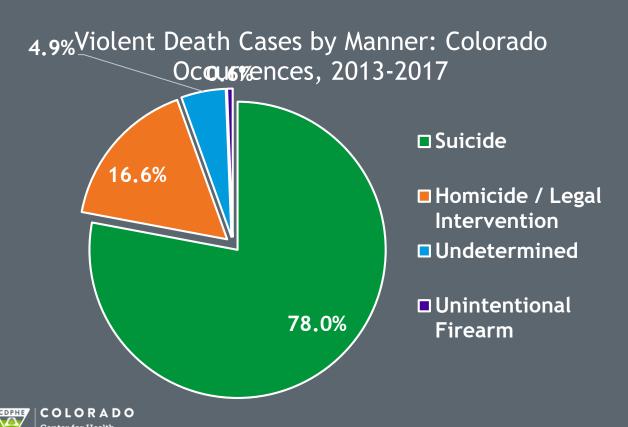
CoVDRS Case load

Violent Death Cases by Manner and Year:

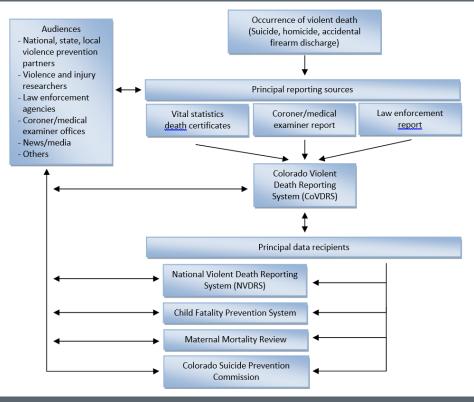
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Number 0	198 85	19 <u>5</u> 85	232 63	265 63	300— 54
Nun 0	8	5	10	14	7
— j	2013	2014	2015 Year	2016	2017



CoVDRS Case load



CoVDRS Information Flow





Data Sources

- Data collected from
 - Death certificates
 - Direct access to Colorado electronic death registration system (EDR)
 - Coroner/medical examiner reports
 - 62 elected coroners, 1 appointed medical examiner (City and County of Denver)
 - Law enforcement reports
 - ~240 law enforcement agencies, including elected county sheriffs and appointed police chiefs



Case Initiation and Record Abstraction

- Electronic procedures (SAS) in place to extract, manipulate and import death certificate data into NVDRS web-based system (NVDRSWeb)
 - Selected data elements are reviewed post import, and others manually entered
 - Updates cases in separate tracking spreadsheet (contains key for NVDRS ID and death cert number)
- SAS procedures in place to generate letters to CME and LE offices requesting records for specific cases
 - Form letter on front containing request language and important updates; on back is a table with decedent list





Dedicated to protecting and improving the health and environment of the people of Colorado

January 30, 2019

To: James A. Wilkerson IV, MD 495 N. Denver Avenue Loveland, CO 80537

From: Ethan Jamison, MPH Colorado Violent Death Reporting System

We are requesting copies of coroner reports for the individual(s) listed on the back of this librates include a copy of the coroner investigative report, a summary of the events leading the and a copy of the autopsy report (if an autopsy was performed) for each individual. Periodi review the files and send a second request for records that have not yet been received. This mailti contain both second and new requests.

Enclosed is a postage-paid return FEDEX mailer for your convenience. Contact FEDEX for pack Additionally if you would like to email copies of these reports, we have included resources on ho can send a secure encrypted email including the reports as attachments. Due to the confidential in of these reports, it is important that if you choose to email them, that you use the secure process described here. If you have questions or concerns about this secure email option, you can contact technical support.

All documents that you provide will remain strictly confidential. From CRS 25-1-122 (excer Reports and records resulting from the investigation of epidemic and communicable diseases, environmental and chronic diseases, reports of morbidity and mortality...held by the state depar of public health and environment or local departments of health shall be strictly confidential. Such reports and records shall not be released, shared with any agency or institution, or made p upon subponent, search warrant, discovery proceedings, or otherwise

Thank you for your assistance. If you have any questions or concerns, please contact me (303-69 ethan jamison@state.co.us), or Kirk Bol (303-692-2170, kirk bol@state.co.us). You can learn more about the program on our webpage;

https://www.colorado.gov/pacific/cdphe/colorado-violent-death-reporting-system

PLEASE SEE LIST ON REVERSE SIDE



Dedicated to protecting and improving the health and environment of the people of Colorado

County of Death	Decedent Name	Date of Birth			Responding Police Agency Name (if applicable)	Police Report # (if known)		
Larimer	Last, First Middle	MDY	MDY	S,H,A,C	Fort Collins Police Department	#962FG21		

Key for Manner: S= Suicide H= Homicide

C= Could not be determined/Undetermined

A= Accident/Unintentional Firearm Death



Case Initiation and Record Abstraction

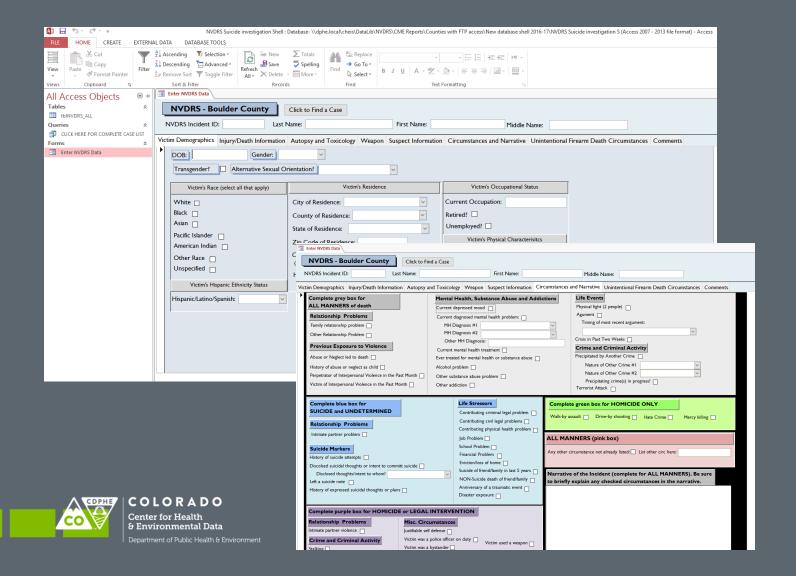
- Letters sent via USPS, and include a FedEx envelope and mailer slip with CoVDRS account info pre-printed
- Format of records received:
 - Paper copies, returned via FedEx
 - Electronic copies, returned on CD/DVD or flash drive via USPS
 - Faxed copies, via secure fax machine in our office
- On-Site abstraction
 - 1 CME agency, many LE agencies
 - CME and LE abstractors visit agencies and are provided access to either paper records or the computerized record system
 - May be abstracted directly into NVDRSWeb (internet access dependent) or abstracted electronically or on paper for future input into NVDRSWeb



Case Initiation and Record Abstraction

- 'Contract Abstracting'
 - Two coroners offices and Denver Medical Examiner's
 Office
 - Two agencies provided Microsoft Access databases mirroring content of NVDRSWeb and list of cases to be abstracted
 - One agency completes a fillable PDF
 - All three agencies receive training from CoVDRS staff and follow NVDRS coding manual
 - Costs: \$20-\$25 per abstract
 - CDC CAUTION





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Colorado Violent Death Reporting System - Data Abstraction Form



Colorado Departmento of Pylola Health and Environment	County: Ab	stractor Na	me:										
Clear Form For questions regarding completion of this form, please contact Ethan Jamison, COVDRS Project Coordinator, 303-692-2093, ethan jamison@state.co.us													
Victim Demographic Information													
Last Name: Middle Name: DOB:													
		▼ Race ⁶ :		Hispanic/Latino/Spanish□ Age:									
Currently in a f		x of Partner		Tilspunic/ Lutino/ Spunish									
	:Residence Coun												
Residence Zip: Residence COUNTRY (if other than U.S.): Victim was homeless													
Current Occupation: Retired Unemployed													
⁵ Refer to Page 4-6 of the coding manual for additional information and coding choices													
Injury and Death Information													
Injury Date:			_Injury Cour	nty:Injury State:									
Injury Zip:	Injury COUNTRY (if other than U.S			t release from an institution' Unknown									
Injured at own		<u></u> ■ EM	S at scene	Alcohol use suspected □									
Injured at wor		-	Injury Loca	ition:									
Refer to Pages 7-10 o	of coding manual for answer choices												
	Toxicology Information			§ Refer to Page 11 of the coding manual for									
	es): Weight (in pounds):	If Fema	le, Pregnanc	"Refer to Page 11 of the coding manual for									
•				_									
Wound Locations (check if present): Head Face Neck Upper Extremity Spine Thorax Abdomen Lower Extremity For deaths involving any weapon type, enter the following: Alcohol and Drug Testing (enter repardless of weapon type, tests may be from any bodily fluid, except blood alcohol concentration, BAC:													
Toxicology Tes	ted -												
Date Specimen	is Collected: Time	Collected:		Military time/24 hour clock									
	Substance Type (if necessary, please refer	Tested	Positive	1									
	to drug manual for info on substance types)			*Blood Alcohol Concentration (BAC) (mg/dl): %									
	Accord	- -		1 11 1									
	Carbon Monoxide (CO)			CO Source ⁶ :									
	Amphetamines Anticonvulsants		⊢Н-	-									
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	Antipsychotics	 		1									
	Barbiturates			1									
	Benzodiazepines												
	Cocaine	- H	⊢₩-										
	Marijuana Muscle Relaxants	+H	\vdash										
	Opiates			⁹ Refer to Page 12 of coding manual for answer choices									
(List any additional substances on back of this form)													
Page 1 of 4			_	CoVDRS Data Abstraction Form - Version 2018.09									

	COLORADO Center for Health & Environmental Data
Department of Public Health & Environment	Department of Public Health & Environment

For any death involving a filearm, enter the following: Firearm Make:	rimary wee	nformati ipon [§] :		_ 2 nd W	eapon C	ausing Injury ⁶ :	<u>•</u> 3'	^d Weapon C	ausing Injun	/ ⁶ :	
Cause of Drug Prescribed Death for?: Substance/Poison Name Cause of Drug Prescribed Death for?:				For	any deat	h involving a <u>firearm</u>	, enter th	e following	ţ:		
Caliber: Gauge: Firearm Owner*: Number of non-fotally shot persons: Firearm stored loaded Firearm stored locked Firearm stored firearm stored locked Firearm stored fir	Firearm tyne	5-			Firea	rm Make:		Firearm mo	ndel:		
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Stumber Age Gender Race Hispanic History of abuse of victim S was caregiver for S attempted S mentally	Suspect (n	r "S") Int	formatio	on (list ir	order o	f primacy: applicable o	nly if NO			nect Info Linkno	own
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Press list any additional suspects and suspect information on the back of this form **Circumstances — Complete the following for ALL MANNERS OF DEATH **Mort: each circumstance checked should be explained in the narrative (see pg.4) **Mort: each circumstance checked should be explained in the narrative (see pg.4) **Mort: each circumstance checked should be explained in the narrative (see pg.4) **Current depressed mood **Current mental health diagnosis(es) **Press sate: **Other substance problem/abuse **Other substance problem/abuse **Other substance problem/abuse **Other substance problem/abuse **Other substance problem Crisis Crisis variables: These substance abuse problem Crisis worsened 2 weeks prior to death **Relationship Problems:** **Intimate partner violence Crisis Family relationship problem Crisis C	S 1 is	a		▼ to	the Vict	tim S3 is a		▼ to the \	/ictim		
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Presentate.	Current m	ental healt	h diagnosi	is(es)	_				-		
Current mental health treatment	Please List:	_		•				Crisis			
Crisis C	Current m	ental healt	h treatme	nt		Other addiction			the	circumstance was	
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Previous Exposure to Violen	nce:				- 114	e Events:								
Abuse or neglect led to dea		Previous perpetrato violence in the past		, 🗆	II ⊢	hysical fight (2 pe	ople)			1				
History of abuse or neglect a child		Previous victim of vi in the past month	olence	• _	1 7	Argument Timing of Argument:			1	1				
Crime and Criminal Activity					-	raming of Argument.		•						
Precipitated by another crime	Pro	ostitution or			_									
Crime(s) Type:	! a	k trafficking]											
First crime in progress Stalking														
Gang related	Wa	alk-by assault									- 1 400 - 11			
I ——											Brief Narrative	of the Incident		Or ☐ See Attached
Circumstances – Complet)E & I	LEGAL		<u>/ENTION</u> Death	is only							
Justifiable self defense Victim was a police officer of	on duty	Mercy killing Hate crime			믐						100			
Victim was a bystander		Jealousy (love	er's tria	angle)	吉		Cris	sis Variabl	les: These		100			
Random violence		Brawl (3 people physical fight)	or mor	re in a			sho	ould be end	dorsed whe					
Victim was an intervener		Drive-by shoo					to l	have occur						
Victim used a weapon		Drug involven	nent				dec	ith						
Circumstances – Complet	te the follow	ving for <u>SUICIDE</u>	& UI	NDETER	RMINE									
History of suicide attempts	☐ Civil le	egal problems		Crisis		Contributing p health problen			Crisis					
Disclosed suicidal thoughts or intent to commit suicide	legal p	ibuting criminal problem		Crisis		Job problem			Crisis		100			
To whom:		tial problem		Crisis	Ы	School probler	n		Crisis		100			
Left a suicide note	Suicide	e of friend or family	뒴	Crisis	H	Eviction or loss	of home	Н	Crisis	금				
History of expressed suicidal thoughts or		uicide death of		Crisis		Disaster expos	ure		Crisis		100			
plans	inena	or family						-						
traumatic event														
Circumstances – Complet	e the follow	ring for <u>UNINTEN</u>	ITION	VAL/AC	CIDEN	TAL FIREARM	DEATHS O	nly:						
	Co	ontext of Injury							d Context	of				
	Playing v				atory fir ing gun		circun		hat apply t	10				
		ontext of injury		C	thers		that le		d actions inintention	ial				
Self-defensive shooting	Loading	or unloading gun			ning Gu		firear	m injury			100			
		Mechanism o	of Inju	iry	_ I	ired while operat	inσ				1			
Thought safety was engage Thought gun was unloaded		Bullet ricochet Gun defect or malf	l matia		ш ₅	afety/lock Gun mistaken for t								
Unintentionally pulled trigg		Fired while holster		211	_	Other mechanism					100			
Dropped gun		unholstering					,	_						
							DRS Data Abst							
Page 3 of 4						Cov	DKS Data Abst	traction For	m – Versioi	2018.09				
											Additional Com	nments:		
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	Departme	ent of Public H	ealth	ı & En	vironn						Page 4 of 4			CoVDRS Data Abstraction Form – Version 2018.09

Key Challenges

- Increasing case load
 - Including increases in homicides
- Obtaining all records
 - Response rates to CoVDRS requests
 - Requirement to abstract on-site
- Substance in records
 - Limited circumstance and toxicology information
- Jurisdictional issues
 - US Military institutions
 - Tribal/Reservation considerations



Key Successes

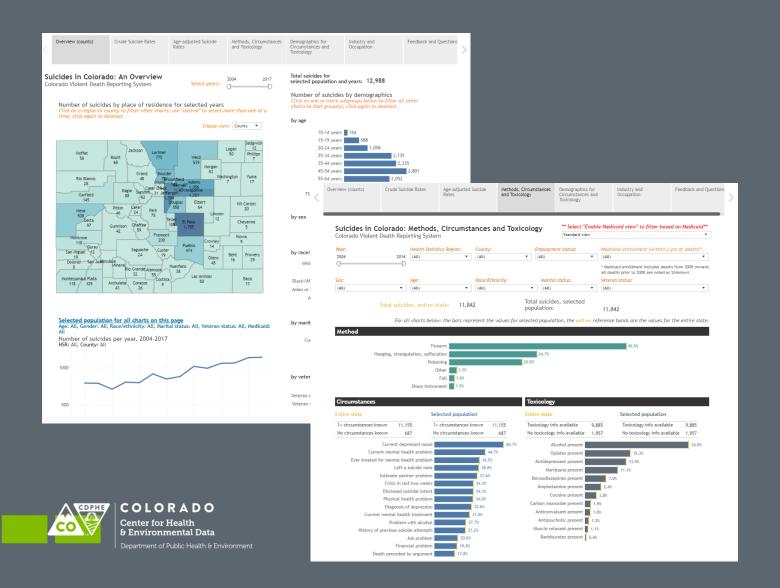
- Obtaining all records
 - Response rates to CoVDRS requests more frequent requests, compiled lists, investigation ID, FedEx return
 - Requirement to abstract on-site return with suicide reports, if not homicide reports
- Substance in records
 - Limited circumstance and toxicology information pocket cards



Key Successes

- Jurisdictional issues
 - US Military institutions efforts to reach out to DOD national medical examiners office
 - Tribal/Reservation considerations limited interaction with tribal leadership, but work with local coroners and BIA investigators
- Data dissemination
 - Web presence
 - https://www.colorado.gov/pacific/cdphe/colorado-violent-death-reporting-system
 - *Colorado Suicide Data Dashboard*
 - https://cohealthviz.dphe.state.co.us/t/HSEBPublic/views/CoVDRS_12_1_17/Story1?:embed=y&:showAppB anner=false&:showShareOptions=true&:display_count=no&:showVizHome=no#4





Publications

Peer-review (in-house)

- Jamison EC, Bol KA, Mintz SN. Analysis of the effects on time between divorce decree and suicide. Crisis: The Journal of Crisis Intervention and Suicide Prevention. Doi: 10.1027/0227-5910/a000563, 2018.
- Mintz S, Jamison E, Bol K. Suicide among healthcare practitioners and technicians in Colorado: An epidemiological study. Suicide and Life-Threatening Behavior. doi: 10.1111/sltb.12449, 2018.
- Jamison EC, Bol KA. Previous suicide attempt and its association with method used in a suicide death. American Journal of Preventive Medicine. 51(5-3): \$226-\$233, 2016.

Peer review (external)

- Carmichael H, Jamison E, Bol KA, McIntyre R, Velopulos C. Premeditated versus "passionate": Patterns of homicide related to intimate partner violence. Journal of Surgical Research. 230:87-93, 2018.
- Searles VB, Valley MA, Hedegaard H, Betz ME. Suicides in urban and rural counties in the United States, 2006-2008. Crisis. 2014;35(1):18-26.



Publications

Reports (HealthWatch)

- Johnson J, Jamison E, Bol K. The association between toxicology and suicide notes among firearm suicide decedents, 2004-2015: An analysis form the Colorado Violent Death Reporting System. HealthWatch No. 108, 2019.
- Mintz S, Jamison E, Herndon K, Bol K. Violent death among people experiencing homelessness in Colorado, 2004-2015: A summary from the Colorado Violent Death Reporting System. HealthWatch No. 103, 2018.
- Jamison E, Mintz S, Herndon K, Bol K. Suicide in Colorado, 2011-2015: A summary from the Colorado Violent Death Reporting System. HealthWatch No. 102, 2017.
- Jamison E, Mintz S, Herndon K, Bol K. Homicide in Colorado, 2004-2014: A summary from the Colorado Violent Death Reporting System. HealthWatch No. 101, 2016.
- Jamison E, Herndon K, Bui AG, Bol K. Suicide among first responders in Colorado, 2004-2014: A Summary from the Colorado Violent Death Reporting System. HealthWatch No. 97, 2015.
- Bui AG, Bol K, Jamison E, Herndon K. Suicide in Colorado, 2009-2013: A summary from the Colorado Violent Death Reporting System. HealthWatch No. 96, 2015.
- Jamison E, Bui AG, Herndon K, Bol K. Adolescent suicide in Colorado, 2008-2012.
 HealthWatch No. 94, 2014.



Self-Care for NVDRS Staff

- Detail oriented positions
- Regular exposure to the topic of death and violence
 - Often disturbing or depressing material
 - Secondary and vicarious trauma
- Unique position and experience
 - May not regularly see the positive results of their efforts
 - Current upward trends in violent deaths



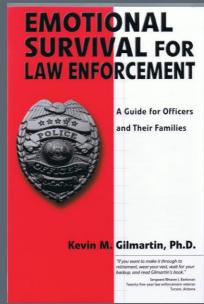
Emotional Survival for Law Enforcement¹

Kevin M. Gilmartin, Ph.D.

Behavioral scientist specializing in law enforcement related

issues

- Book accompanies in person seminars
- Concepts targeted to increase law enforcement self care and healthy habits after work ends
- Last chapter has many useful points larger then LE specific





1. Gilmartin, KM. Emotional Survival for Law Enforcement. Tucson, AZ. E-S Press; 2002.

Self-Care in Research



- Self-care and the Qualitative Researcher: When Collecting Data Can Break Your Heart, Kathleen B. Ragar²
 - Examines the emotional impact research can have on the scientist
- Breast cancer research and qualitative interviewing
- Abstractors/interviewers as an instrument and ignoring emotional aspects



^{2.} Ragar, KB. Self-care and the Qualitative Researcher: When Collecting Data Can Break Your Heart. *Educational Researcher*. 2005;34(4)23-27.

Violence Prevention Partnerships

- Office of Suicide Prevention
 - Suicide Prevention Commission of Colorado
 - Mantherapy.org
 - Colorado Gun Shop Project /Emergency Counseling on Access to Lethal Means (ED-CALM Department)
 - Sources of Strength
 - Zero Suicide Bill
 - Colorado National Collaborative



Suicide Prevention Commission of Colorado

- May, 2014, the 26-member Suicide Prevention
 Commission was created via the passage of Senate Bill 088
- First Year Priorities:
 - Expanding and streamlining efforts to provide effective follow up care after emergency department discharge
 - Expanding efforts to provide effective follow up care after inpatient discharge
 - Promoting practices for reducing suicide risk among primary care patients
 - Improving and integrating training for members of specific professional groups



Mantherapy.org





Source: Hindman J. Office of Suicide Prevention Suicide Prevention in Colorado Annual Report 2014-2015. Colorado Department of Public Health and Environment. November 1, 2015.

Colorado Gun Shop Project

- 2014-2015 adapted from the New Hampshire Gun Shop Project
- Education and awareness project
 - firearm advocates, gun shops, firing ranges, and firearm safety course instructors
- Core message: "restricting a suicidal individual's access to firearms is a critical aspect of firearm safety"





Source: Hindman J. Office of Suicide Prevention Suicide Prevention in Colorado Annual Report 2014-2015. Colorado Department of Public Health and Environment. November 1, 2015.

Emergency Counseling on Access to Lethal Means

- Office of Suicide Prevention partnered with the Colorado School of Public Health, and the Harvard Injury Control Research Center
 - Develop and pilot a means restriction program at Children's Hospital
 - Accompanied by formal evaluation
- Training for emergency department staff to educate parents of suicidal youth about techniques for restricting access to lethal means
 - 90 percent reported the counseling was respectful and clear
 - Respondents showed improvement in locking medications after receiving the counseling
- Children's Hospital adopted the training and continues to implement the intervention with all families in the emergency department because of a suicide attempt



Sources of Strength

- Comprehensive school based program aimed to increase connectedness within schools and train both adult and peer leaders
 - "enhance protective factors associated with reducing suicide at the school population level"
 - Peer leaders as agents of social change
 - Allows positive factors to spread through social network
- Office of Suicide Prevention priority through 2020
- Sources of Strength increases student's school connectedness and connectedness to caring adults, both of which are protective factors for:
 - Suicide
 - Teen dating violence
 - Youth violence





https://sourcesofstrength.org/wp-content/plugins/sos-home/images/wheel.png

Zero Suicide Bill

- SB 147: Suicide Prevention Plan to Reduce Death by Suicide in the Colorado Health Care System
 - Passed both the Senate and the House and is now on the Governor's desk waiting to be signed
- Zero Suicide Model: suicide deaths of individuals under care within health and behavioral health systems are preventable
 - Integrates and enhances care within the medical system around patient safety
- Health care systems have reported a reduction of up to 80% in the rate of suicide in their hospitals
- Colorado is the first to adopt this model at the state level



Colorado National Collaborative

Original article



Comprehensive, integrated approaches to suicide prevention: practical guidance

Eric D Caine¹, Jerry Reed², Jarrod Hindman³, Kristen Quinlan⁴

Author affiliations +

Abstract

Background Efforts in the USA during the 21st century to stem the ever-rising tide of suicide and risk-related premature deaths, such as those caused by drug intoxications, have failed. Based primarily on identifying individuals with heightened risk nearing the precipice of death, these initiatives face fundamental obstacles that cannot be overcome readily.

Objective This paper describes the step-by-step development of a comprehensive public health approach that seeks to integrate at the community level an array of programmatic efforts, which address upstream (distal) risk factors to alter life trajectories while also involving health systems and clinical providers who care for vulnerable, distressed individuals, many of whom have attempted suicide.

Conclusion Preventing suicide and related self-injury morbidity and mortality, and their antecedents, will require a systemic approach that builds on a societal commitment to save lives and collective actions that bring together diverse communities, service organisations, healthcare providers and governmental agencies and political leaders. This will require frank, data-based appraisals of burden that drive planning, programme development and implementation, rigorous evaluation and a willingness to try-fail-and-try-again until the tide has been turned.

http://dx.doi.org/10.1136/injuryprev-2017-042366

Injury Prevention

Take Home Points

- CoVDRS is a partnership between the program, it's data sources, and data users
- The more information we receive the better our data can inform prevention programs
- We want to give back and maximize these successful partnerships



