

The National Violent Death Reporting System (NVDRS)

Council of State and Territorial Epidemiologists

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“The findings and conclusions in this report are those of the author(s) and do not necessarily represent the official position of the Centers for Disease Control and Prevention/the Agency for Toxic Substances and Disease Registry.”

Objectives

- ❑ Describe health burden of violence
- ❑ Identify critical needs in violence surveillance
- ❑ Provide an overview of NVDRS
- ❑ Present examples of NVDRS data findings
- ❑ Describe uses of and access to NVDRS

Public Health Impact 2010

- ❑ **Over 55,000 people died violently in the US**
 - Six people dying each hour
 - Nearly \$50 billion in medical care and lost productivity every year

- ❑ **Over 38,350 died by suicide**
 - Greater than those who die by motor vehicle crashes

- ❑ **Over 16,650 died by homicide**

Five leading causes of death for selected age groups – United States, 2010

Rank	Age Groups				
	1 to 9	10 to 14	15 to 24	25 to 44	45 to 54
1st	Unintentional Injury	Unintentional Injury	Unintentional Injury	Unintentional Injury	Cancer
2nd	Cancer	Cancer	Homicide	Cancer	Heart Disease
3rd	Birth Defects	Suicide	Suicide	Heart Disease	Unintentional Injury
4th	Homicide	Homicide	Cancer	Suicide	Suicide
5th	Heart Disease	Birth Defects	Heart Disease	Homicide	Liver Disease

Source: CDC vital statistics

The Critical Needs in Violence Surveillance

- ❑ **Death certificate data lacking**
- ❑ **Need information to support planning and evaluation**
- ❑ **Information not integrated, standardized, or focused on prevention**

NVDRS: Linking Data to Save Lives

- ❑ **Inform communities**
 - Who, what, when, and where?
 - Document the circumstances of all violent deaths
- ❑ **Target and select prevention efforts**
 - Support prevention activities by NVDRS states and federal government
- ❑ **Monitor and evaluate state-based prevention programs and strategies**

Design of NVDRS

□ Which deaths are included?

- Suicide, homicide, undetermined, and unintentional firearm deaths using death certificate coding

□ What is collected?

- Coroner, medical examiner, law enforcement, death certificate, or toxicology reports
- Related violent deaths (homicide-suicide)
- Circumstances collected, including narratives

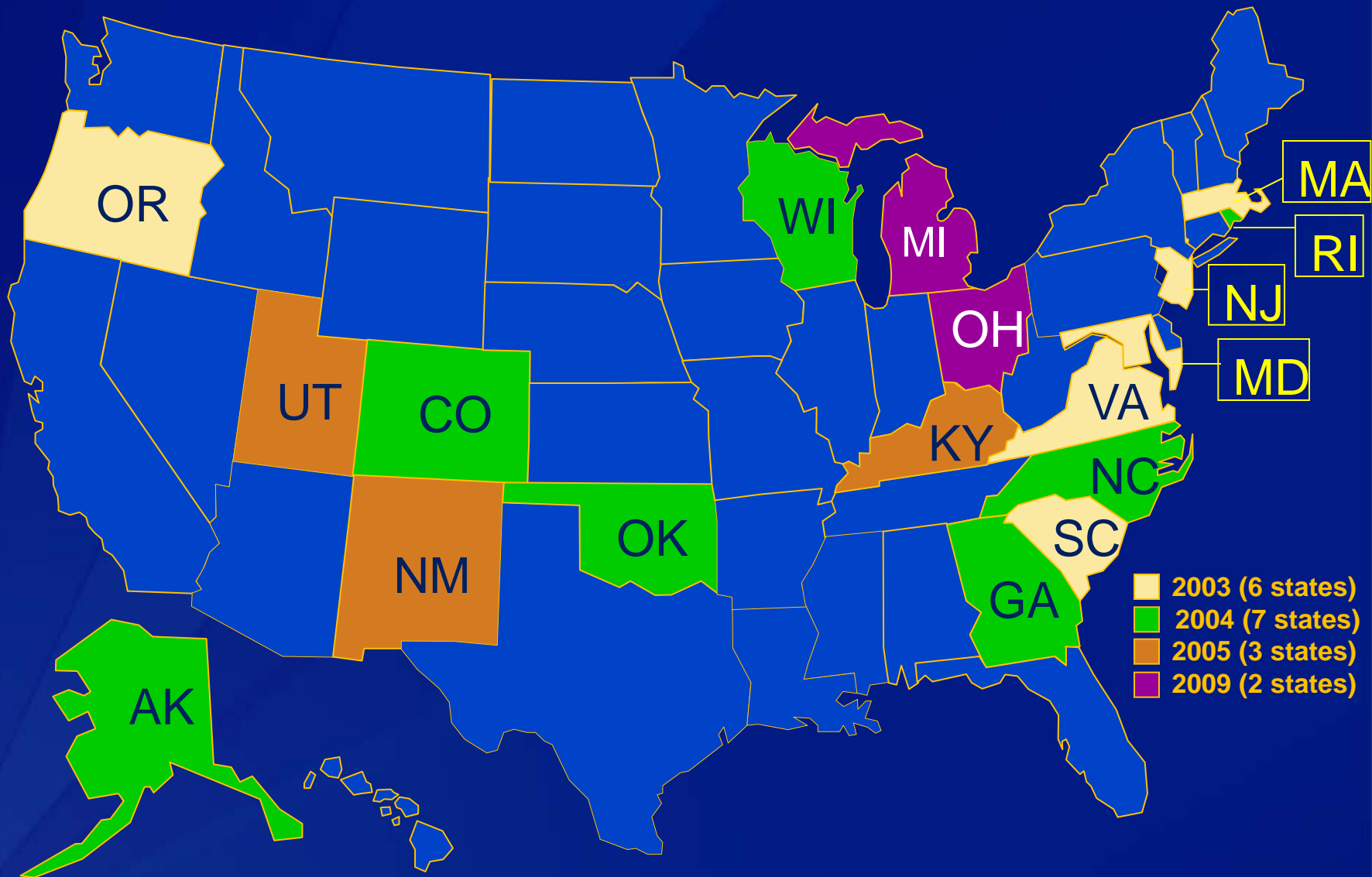
□ How is it collected?

- Census of all violent deaths
- 18 states
- CDC compiles all state data

Characteristics of NVDRS

- ❑ **Integrating data from diverse sources**
- ❑ **Reports faster than vital statistics**
 - 18-month full information
 - Preliminary counts and demographic descriptions available at 6-months
- ❑ **NVDRS is not nationally representative**
 - Census data supports local action
- ❑ **NVDRS states are increasingly moving to electronic data collection system**
 - *Opportunity:* Improve timeliness
 - *Threat:* Compatibility and decreased circumstance information

NVDRS States, 2012



Translating Data into Action

Data Supports Suicide Prevention

- ❑ **South Carolina: Implemented a youth suicide prevention program**
 - Data used to identify and target prevention efforts on youth
 - Data used to secure SAMHSA support to implement youth suicide programs
 - Data used to update state suicide prevention plan

- ❑ **Oregon: Developed state suicide prevention plan and targeted prevention efforts on older adults**
 - Data indicated need to target older adults
 - Data indicated training physicians a promising approach

Data Supports Homicide Prevention



□ Oklahoma

- Testing new intervention for police officers responding to domestic violence calls
- Data used to support implementation and evaluation of new intervention

□ CDC Gang-related homicides

- Improve count of gang-related homicides
- Limited links with drug trade

Accessing NVDRS Data

❑ Restricted Access Dataset (RAD)

- Detailed case-level data for researchers submitting formal research proposals
- <http://www.cdc.gov/ViolencePrevention/NVDRS/RAD.html>

❑ CDC NVDRS WISQARS

<http://www.cdc.gov/injury/wisqars/index.html>

❑ NVDRS Surveillance Summary

- From 2005-2009 data published in MMWR

❑ Collaborate with CDC scientists

❑ Collaborate with state scientists

Next Steps for NVDRS

- ❑ **Link with other national data**
 - Child fatality review
 - Adult protective services

- ❑ **Converted to a web platform in 2013**
 - Make system more reliable and accessible
 - Revise system to make more efficient
 - Expand collection of new circumstances

- ❑ **Improve variable quality**

- ❑ **Prepare for expansion**

Conclusion

- ❑ NVDRS provides improved data
- ❑ Promote utility of data through presentations and publications
- ❑ Use of NVDRS data to guide and enhance violence prevention efforts

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Thank you

www.cdc.gov/injury; 770-488-4410

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National Center for Injury Prevention and Control

Division of Violence Prevention



Extra slides

The Need for NVDRS

- ❑ **Need information to support planning and evaluation**
- ❑ **Multiple sources of information on violent deaths**
 - Law enforcement, coroner, medical examiner, and toxicology
 - Collected at state, county, and city level
- ❑ **Information not integrated, standardized, or focused on prevention**
 - Suicide – Limited to counts and demographic descriptions
 - Homicide – Limited to law enforcement information

NVDRS categories on suicide precipitating circumstances

- Health problem
- Intimate partner problem
- Violence perpetrator
- Violence victim
- Other relationship problem
- Job problem
- School problem
- Financial problem
- Criminal problem
- Other legal problem
- Suicide of loved one in past 5 yrs
- Other recent death of loved one, 5 yrs
- Other

NVDRS Data – Available to Public

❑ Public access on the Web

<http://wisqars.cdc.gov:8080/nvdrs/nvdrsDisplay.jsp>

❑ Select variables to run your own reports

- Manner of death
- Victim/suspect relationship
- Weapon type
- Vulnerable populations
- Circumstances

❑ Many NVDRS states provide data / reports on the web