

Drug overdose statistics based on recent epidemiologic data

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Disclosures

Paid speaker

- Pfizer
- Depomed
- Xenoport

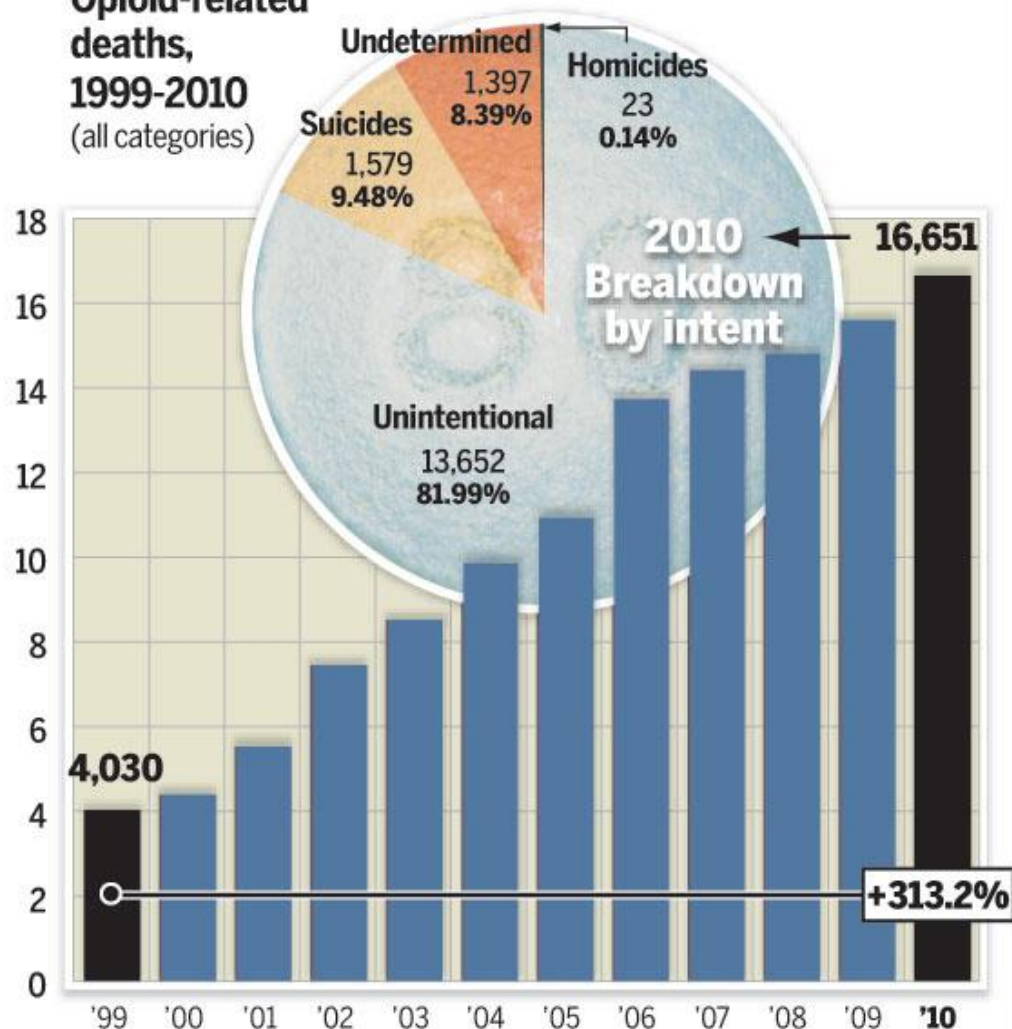
CDC report 1999-2010

- Significant rise in overdose deaths
 - 5 fold increase in women
 - 3.6 fold increase in men
- Number of opioid prescriptions increased
- 73.8 % of deaths involved prescription drugs
- 73.8% of those deaths involved one or more opioid

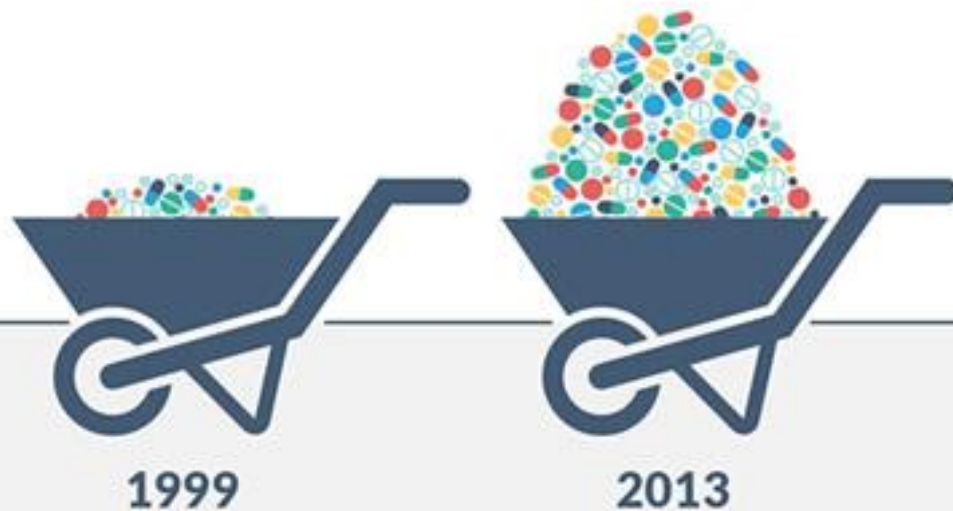
Opioid-related deaths continue to increase

As opioids continue to be prescribed for chronic pain, more patients have died from overdoses. In addition to the overdose deaths, there were 425,000 emergency department visits in 2010 for misuse or abuse of opioids, including overdoses, up from 166,338 in 2004.

Opioid-related deaths, 1999-2010 (all categories)



From 1999 to 2013,
the amount of prescription painkillers prescribed
& sold in the U.S. nearly **QUADRUPLED.**



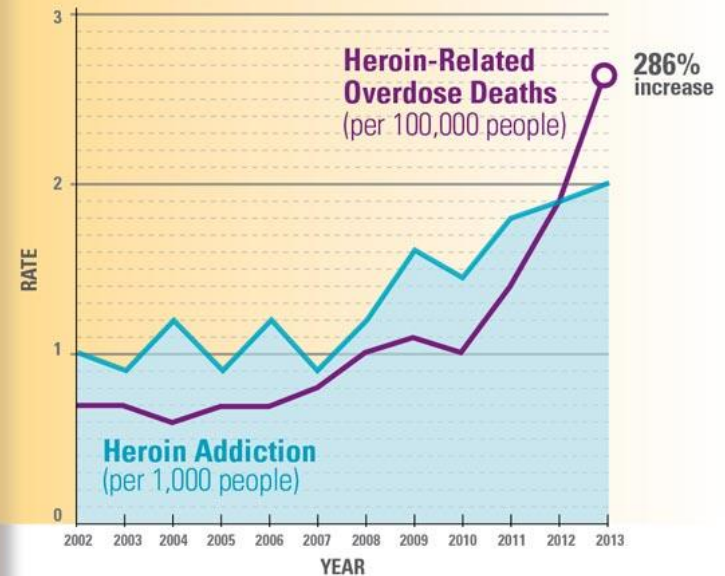
*Yet there has not been an overall change in
the amount of pain that Americans report.*

Heroin use is increasing

Heroin Use Has INCREASED Among Most Demographic Groups

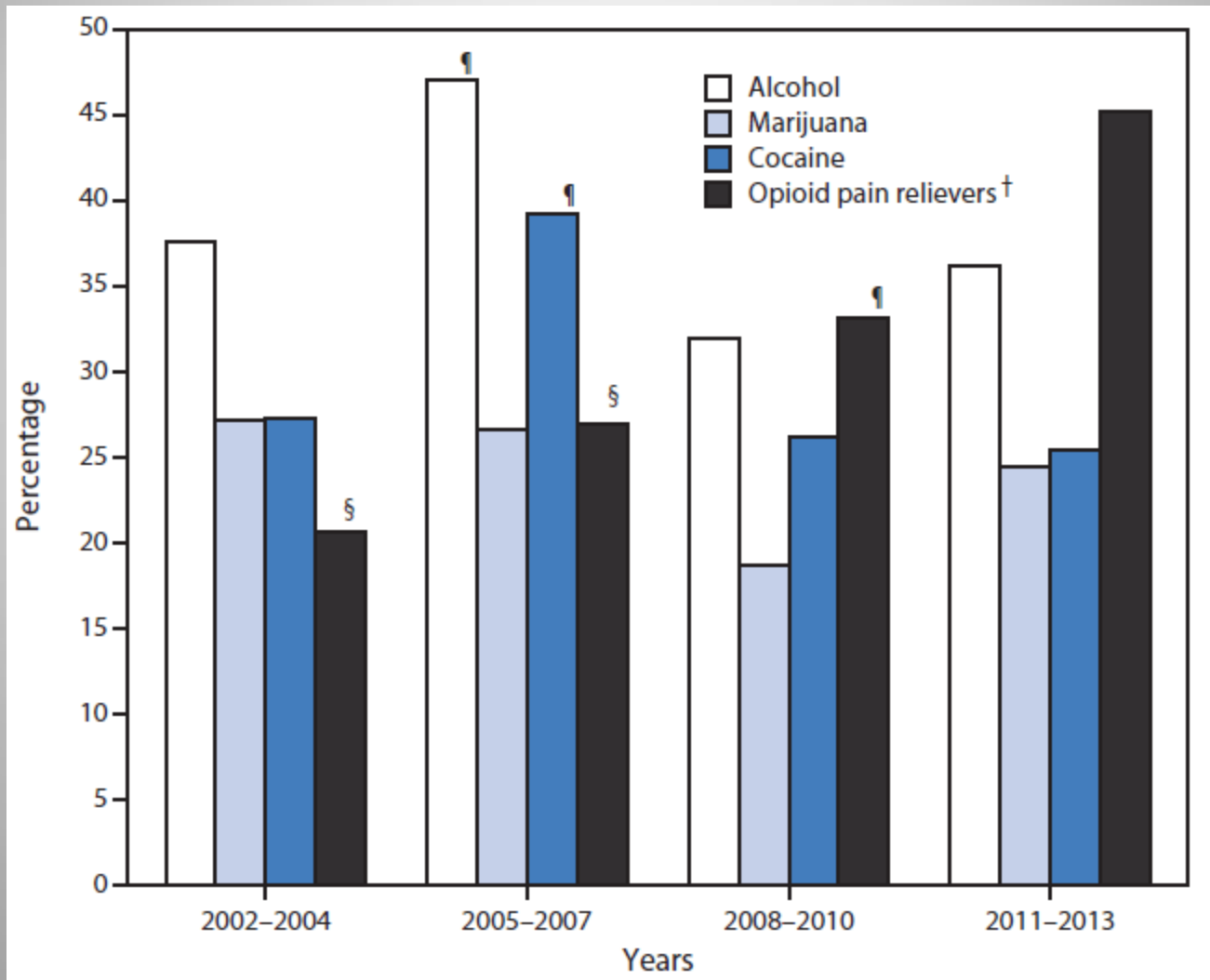
	2002-2004*	2011-2013*	% CHANGE
SEX			
Male	2.4	3.6	50%
Female	0.8	1.6	100%
AGE, YEARS			
12-17	1.8	1.6	--
18-25	3.5	7.3	109%
26 or older	1.2	1.9	58%
RACE/ETHNICITY			
Non-Hispanic white	1.4	3	114%
Other	2	1.7	--
ANNUAL HOUSEHOLD INCOME			
Less than \$20,000	3.4	5.5	62%
\$20,000-\$49,999	1.3	2.3	77%
\$50,000 or more	1	1.6	60%
HEALTH INSURANCE COVERAGE			
None	4.2	6.7	60%
Medicaid	4.3	4.7	--
Private or other	0.8	1.3	63%

Heroin Addiction and Overdose Deaths are Climbing



SOURCES: National Survey on Drug Use and Health (NSDUH), 2002-2013.
National Vital Statistics System, 2002-2013.

Annual Average percentage of past year heroin users with
past year selected substance abuse
or dependence, by time interval 2002-2013



Heroin use is part of a larger substance abuse problem.

Nearly all people who used heroin also used at least 1 other drug.

Most used at least **3** other drugs.

Heroin is a highly addictive opioid drug with a high risk of overdose and **death** for users.

People who are addicted to...



ALCOHOL

are

2x



MARIJUANA

are

3x



COCAINE

are

15x



Rx OPIOID PAINKILLERS

are

40x

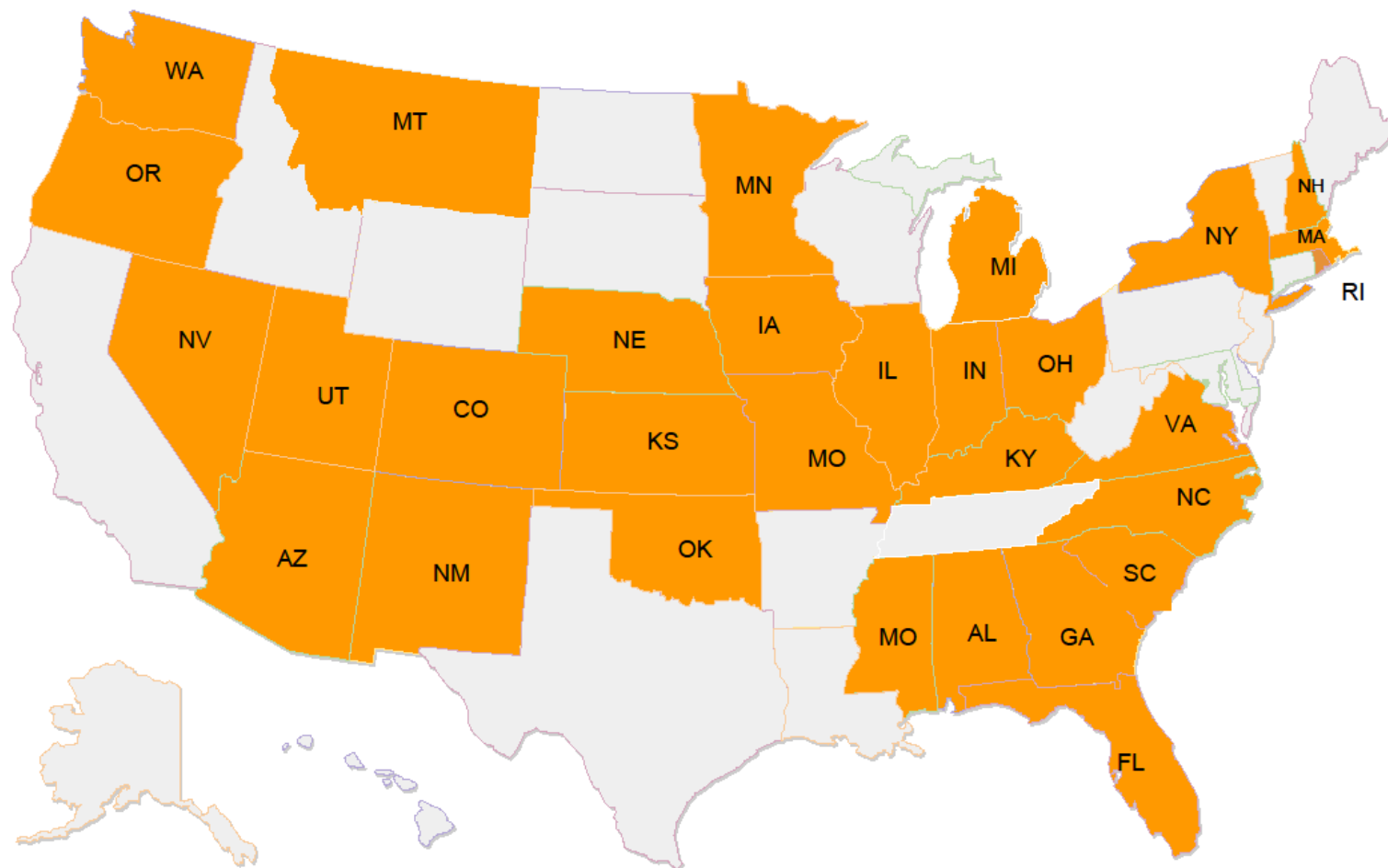
...more likely to be addicted to heroin.

SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.

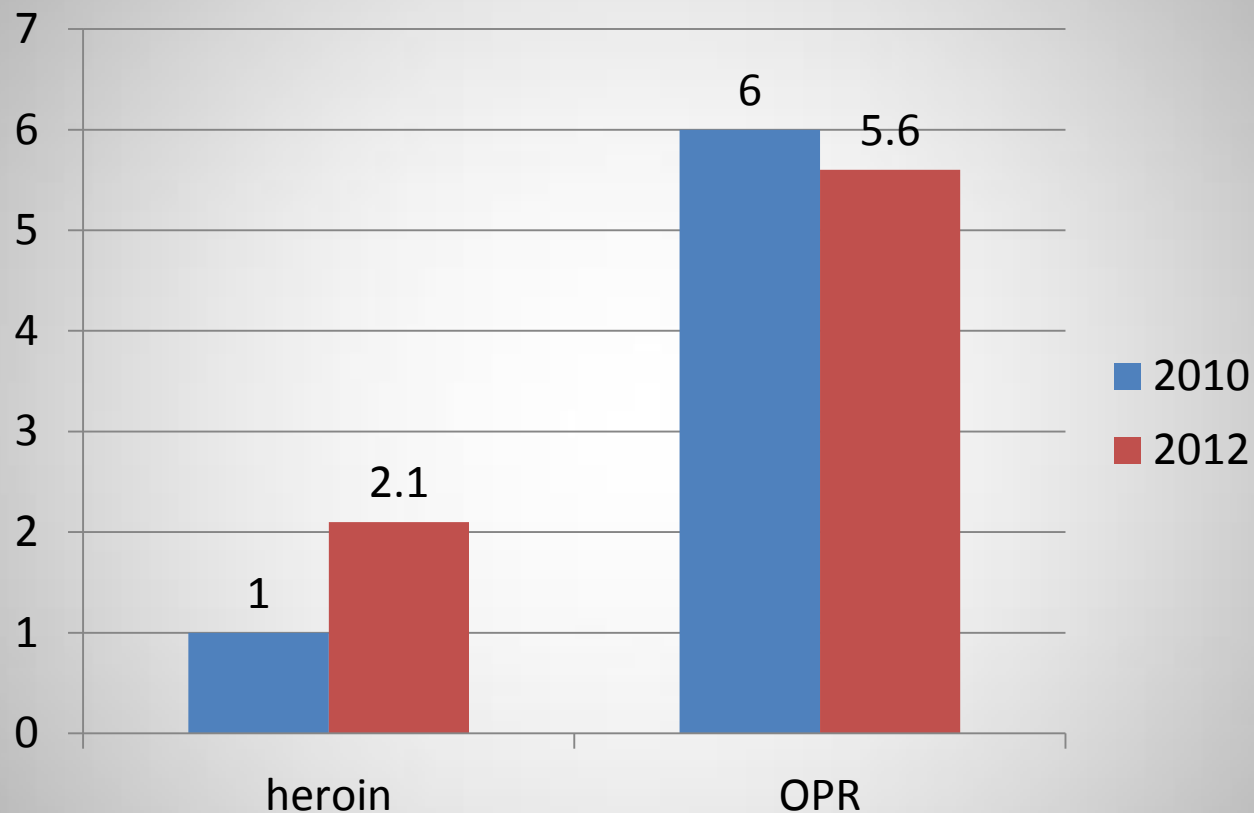
Method

CDC analyzed recent mortality data from 28 states to determine the scope of the heroin overdose death increase and to determine whether increases were associated with changes in OPR overdose death rates since 2010.

Increases in Heroin Overdose Deaths - 28 States, 2010 to 2012
MMWR Oct 3, 2014



Increases in Heroin Overdose Deaths – 28 states, 2010-2012



WONDER

Wide -ranging Online Data for Epidemiologic Research

- Access statistical research data published by CDC, as well as reference materials, reports and guidelines on health-related topics;
- Query numeric data sets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts and maps.

WONDER homepage wonder.cdc.gov

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wonder.cdc.gov

CDC WONDER

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WONDER online databases utilize a rich ad-hoc query system for the analysis of public health data. Reports and other query systems are also available.

WONDER Systems Topics A-Z Index

- WONDER Online Databases**
 - ▶ [AIDS Public Use Data](#)
 - ▶ [Births](#)
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 - ▶ [Daily Air Temperatures & Heat Index](#)
 - ▶ [Daily Land Surface Temperatures](#)
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 - ▶ [Scientific Data and Documentation \(Archive\)](#)
- Other Query Systems**
 - ▶ [Healthy People 2010](#)
 - ▶ [MMWR Morbidity Tables](#)
 - ▶ [MMWR Mortality Tables](#)

▶ Denotes numerical data available to query or download

This page last reviewed: Thursday, September 17, 2015

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800-CDC-INFO (800-232-4636) TTY: (888) 232-6348
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Underlying Cause of Death, 1999-2013 Request

Request Form Results Map Chart About

[Dataset Documentation](#) [Other Data Access](#) [Data Use Restrictions](#) [How to Use WONDER](#)

Reset

Make all desired selections and then click any **Send** button one time to send your request.

1. Organize table layout:

Send Help

Group Results By Age Groups

And By None

And By None

And By None

And By None

Notes:

- Group Results By "15 Leading Causes" to see the top 15 rankable causes selected from the corresponding 113 or 130 Cause List. [More information.](#)

Measures (Default measures always checked and included. Check box to include any others.)

☒ Deaths ☒ Population ☒ Crude RateFor crude rates: ☐ 95% Confidence Interval ☐ Standard Error☐ Age Adjusted Rate ☐ 95% Confidence Interval ☐ Standard Error☐ Percent of Total DeathsTitle

+ Additional Rate Options Click '+' for non-standard age adjusted rates and other options. [Help](#)

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

Currently selected:

"All" (The United States)

"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.

3. Select demographics:

[Send](#) [Help](#)

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

Pick between:

[Ten-Year Age Groups](#) ☐ [Gender](#) ☐ [Race](#) ☐
[Five-Year Age Groups](#) ☐ [All Genders](#) ☐ [All Races](#) ☐
[Single-Year Ages](#) ☐ [Hispanic Origin](#) ☐
[Infant Age Groups](#) ☐ [All Origins](#) ☐

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

Currently selected:

"All" (All Dates)

Open Close Close All

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:

[Send](#) [Help](#)

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

Weekday ☐ **Autopsy** ☐ **Place of Death** ☐
[All Weekdays](#) ☐ [All Values](#) ☐ [All Places](#) ☐

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

Currently selected:

"All" (All Causes of Death)

Open Open Fully Close Close All

Browse the list by opening and closing items.

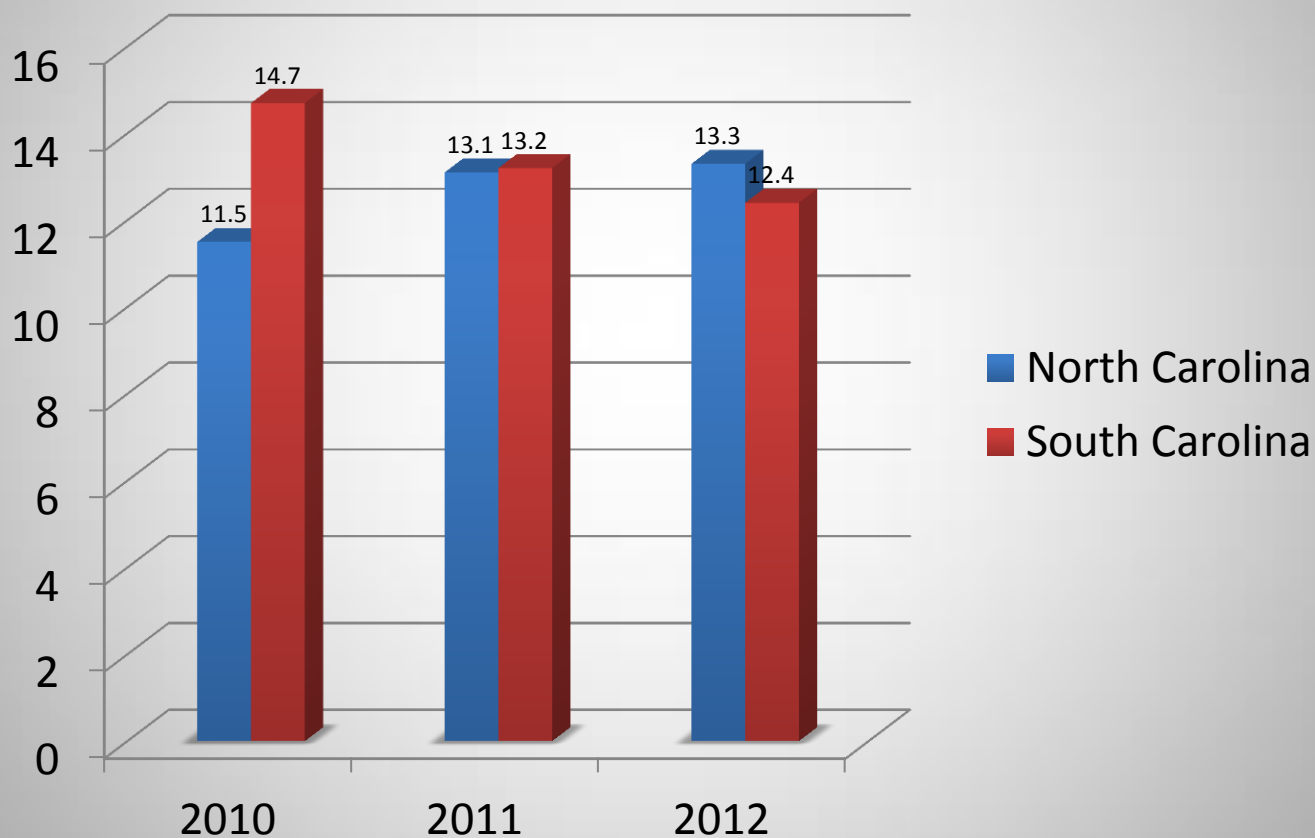
Use Ctrl+Click to multiple select, Shift+Click for a range.

7. Other options:

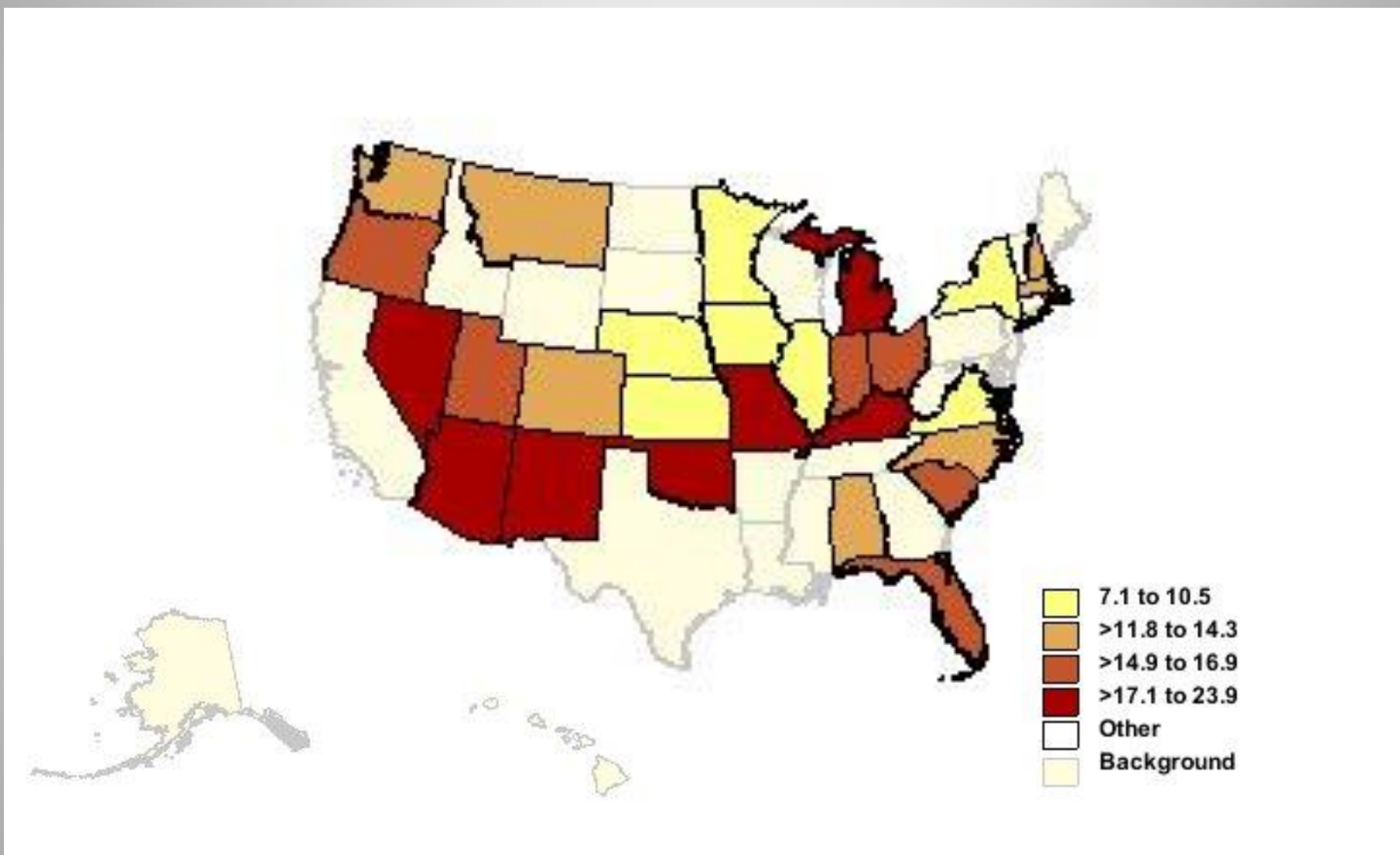
[Send](#) [Help](#)

Drug Induced Causes of death

Crude rate per 100,000



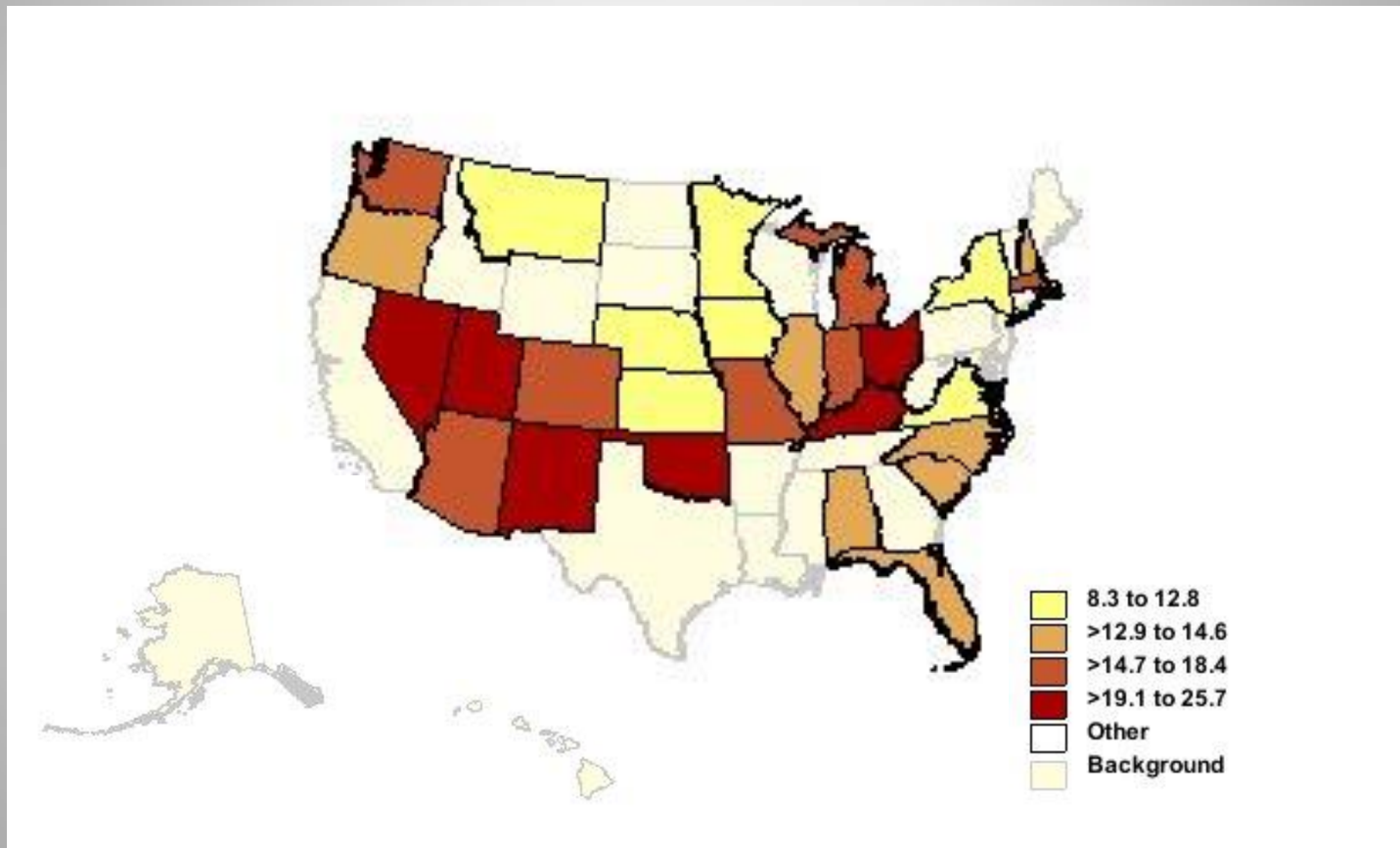
2010
Crude Rate for The United States
Drug/Alcohol Induced Causes: Drug-Induced
Causes



2012

Crude Rate for The United States

Drug/Alcohol Induced Causes: Drug-Induced Causes



Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2013 on CDC WONDER Online Database, released 2015. Data are from the Multiple Cause of Death Files, 1999-2013, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <http://wonder.cdc.gov/ucd-icd10.html> on Sep 29, 2015 4:16:17 PM

2013

Crude Rate for The United States

Drug/Alcohol Induced Causes: Drug-Induced Causes



Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2013 on CDC WONDER Online Database, released 2015. Data are from the Multiple Cause of Death Files, 1999-2013, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <http://wonder.cdc.gov/ucd-icd10.html> on Sep 29, 2015 4:16:17 PM

Recommendations for providers

- Prescribe the lowest effective dose and only the quantity needed for the expected duration of pain
- Plan with your patient how to stop the opioid once the treatment is done
- Provide your patient with the necessary information on how to use, store, and dispose of opioid medication
- Avoid combinations of prescription opioids and sedatives unless there is a specific medical indication

Thanks for your attention!

