



Health Data *Interactive*

*Explore, customize, download:
pre-tabulated national health
statistics*

Objectives

- By the end of today's workshop, you should:
 - Know how to navigate to and through the Health Data Interactive website
 - Understand the website's general benefits and limitations
 - Be able to locate tables of interest
 - Be able to customize and retrieve data in a useful form

What is Health Data Interactive (HDI)?

- Online, interactive tables on the health and well-being of the US population
- Pre-tabulated statistics for several covariates:
 - Age
 - Race and ethnicity
 - Gender
 - Year
 - Geographic location (when available)
 - Income (when available)
 - Urbanicity (when available)

Data sources

- Total counts
 - Births and Deaths (NVSS)
- Population surveys
 - National Health Interview Survey (NHIS)
 - National Health and Nutrition Examination Survey (NHANES)

Data Sources, continued

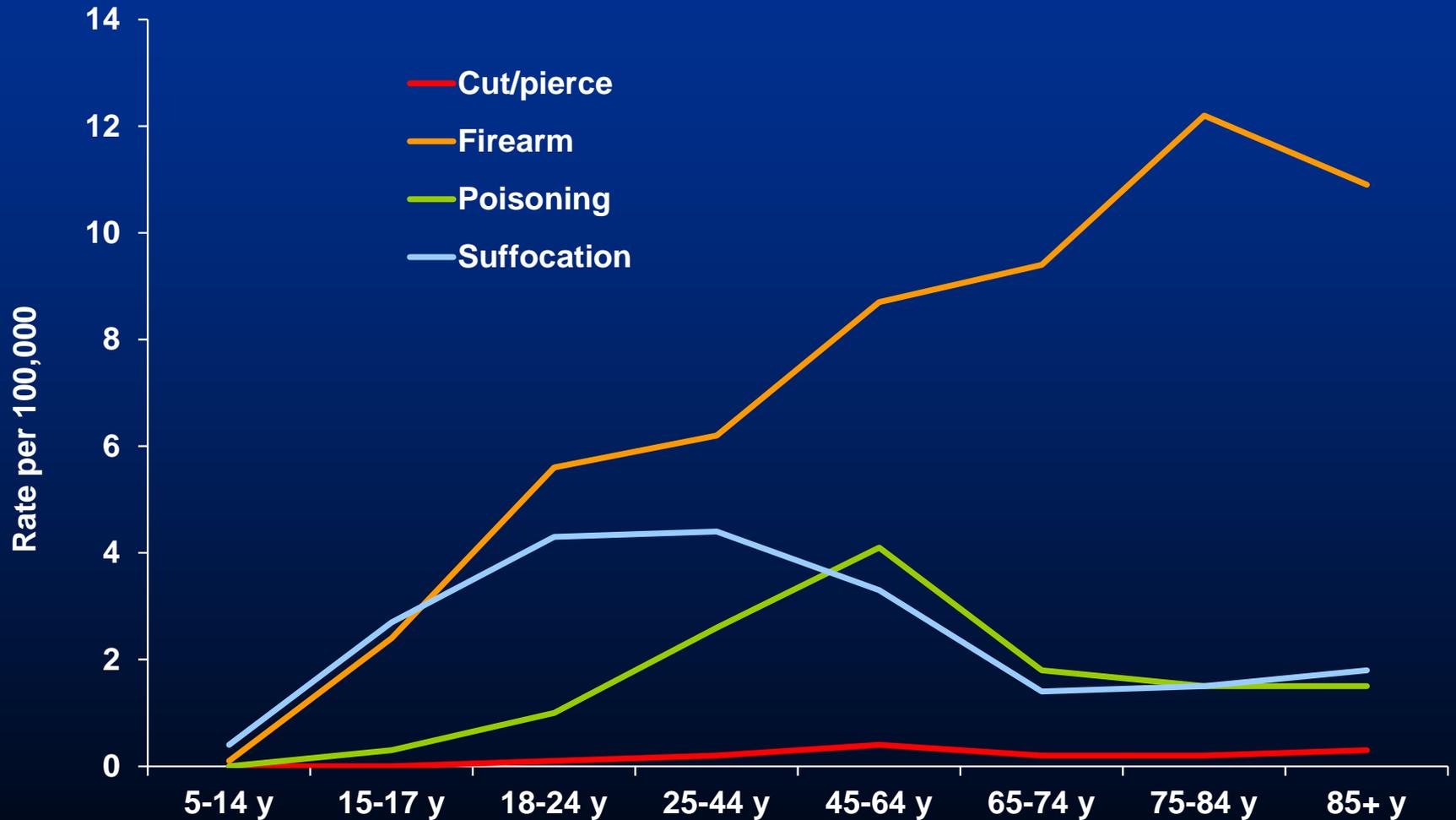
- Administrative data
 - National Hospital Ambulatory Medical Care Survey (NHAMCS)
 - National Hospital Discharge Survey (NHDS)
 - Medicare Current Beneficiary Survey (MCBS)

Starting with the ending

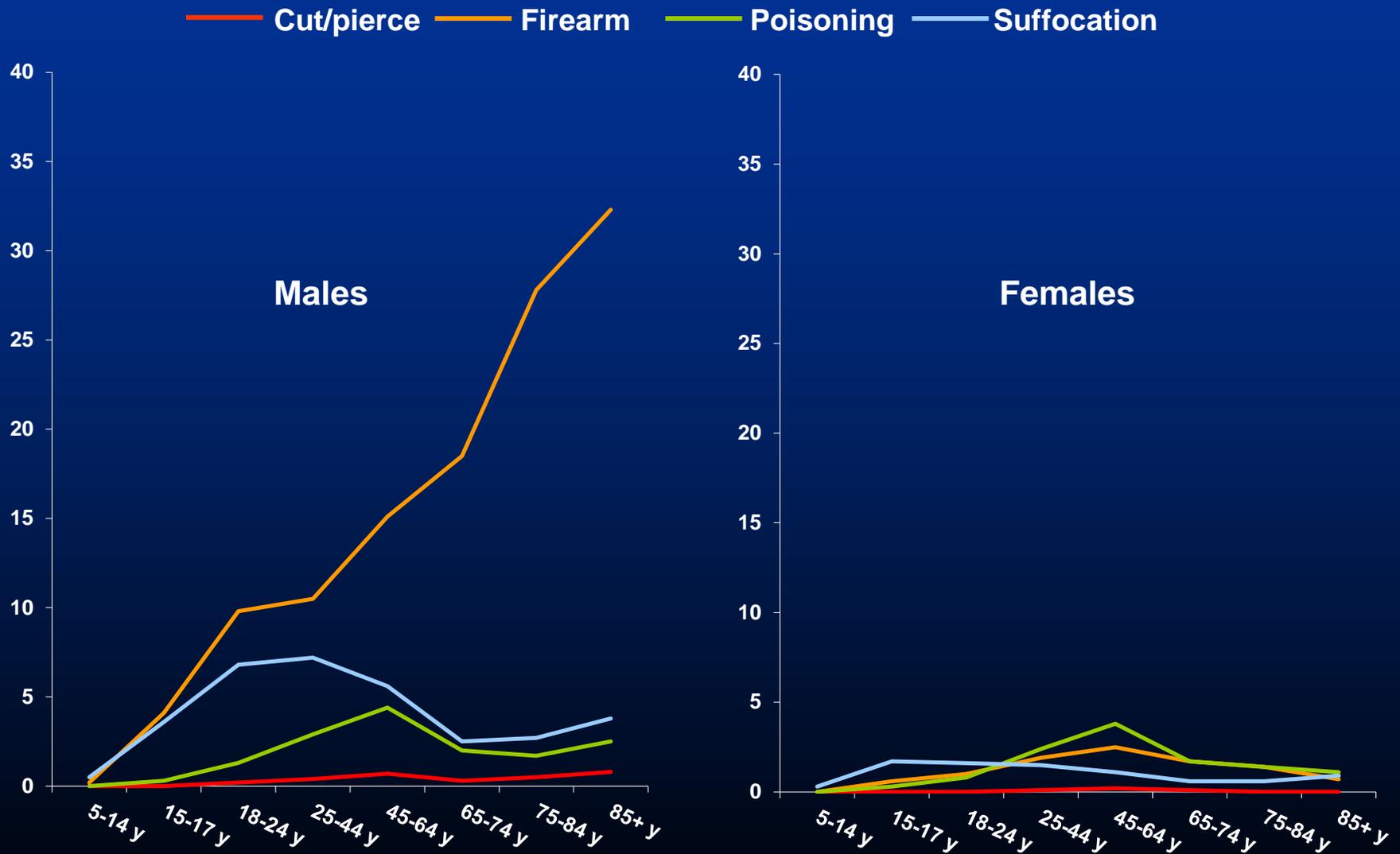
Examples of data needs:

- National benchmarks for suicide
- Leading causes of emergency department visits

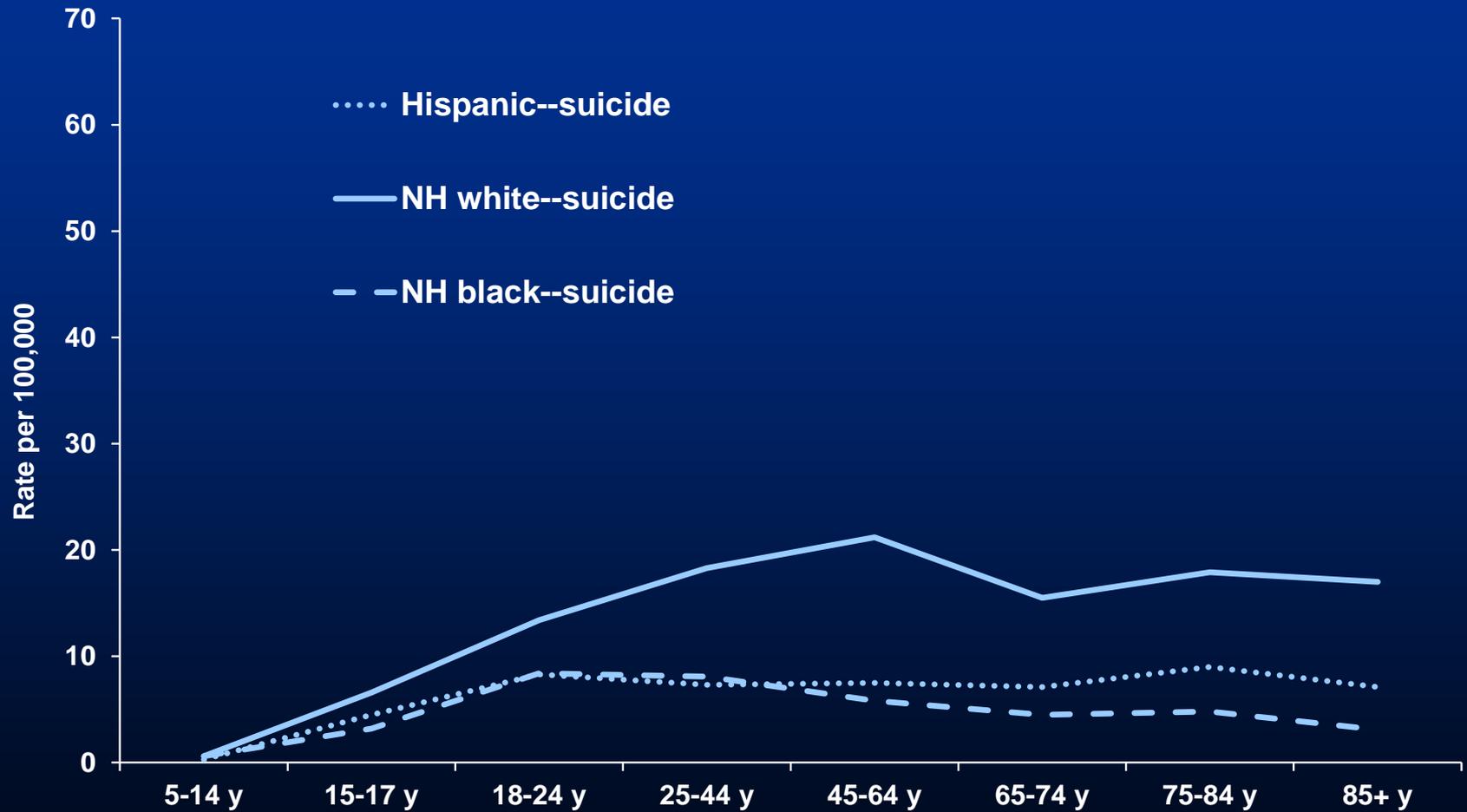
Suicide per 100,000, by age group and mechanism-- United States, 2007-2009, NVSS



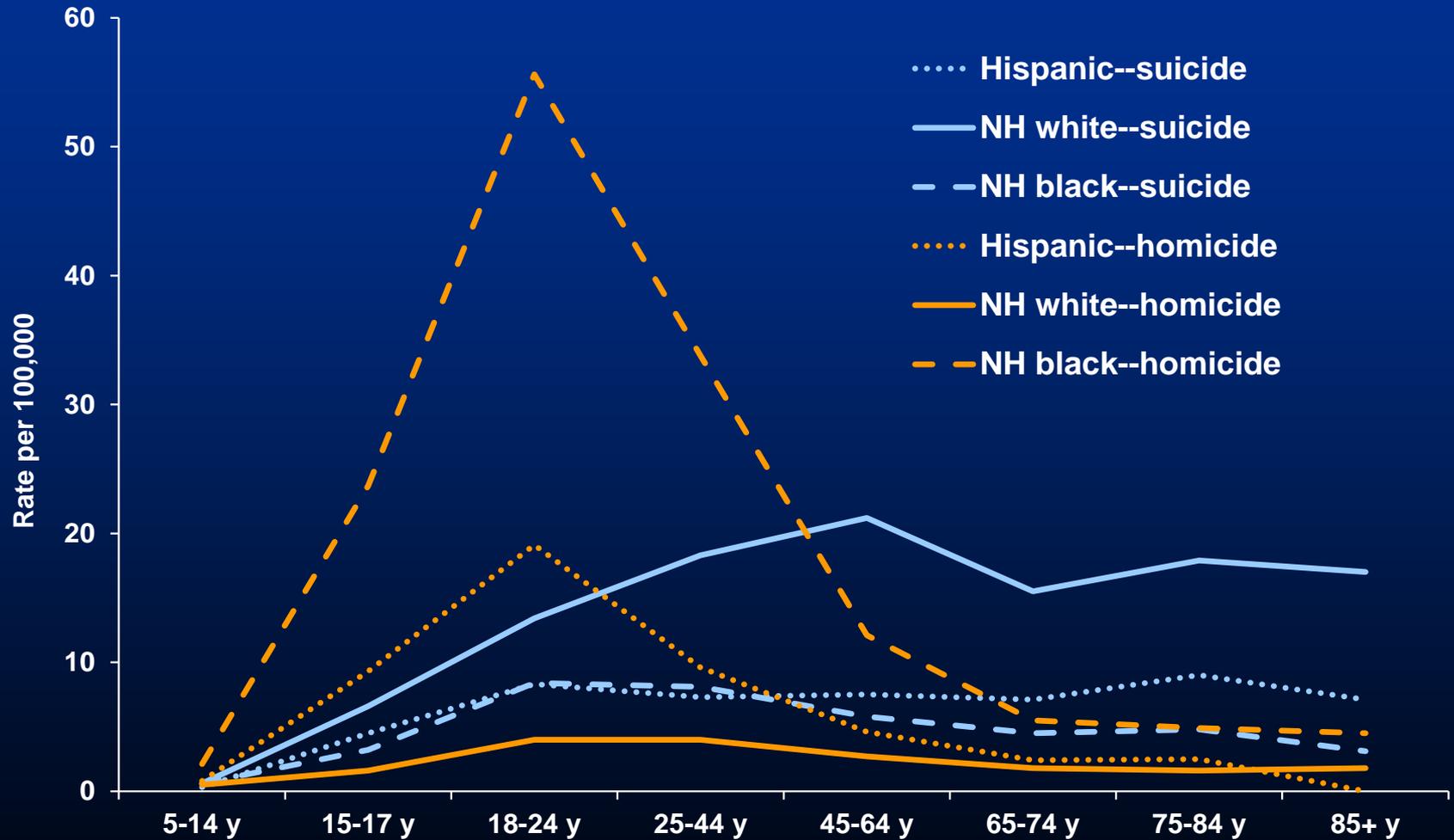
Suicide per 100,000, by sex, age group and mechanism--United States, 2007-2009, NVSS



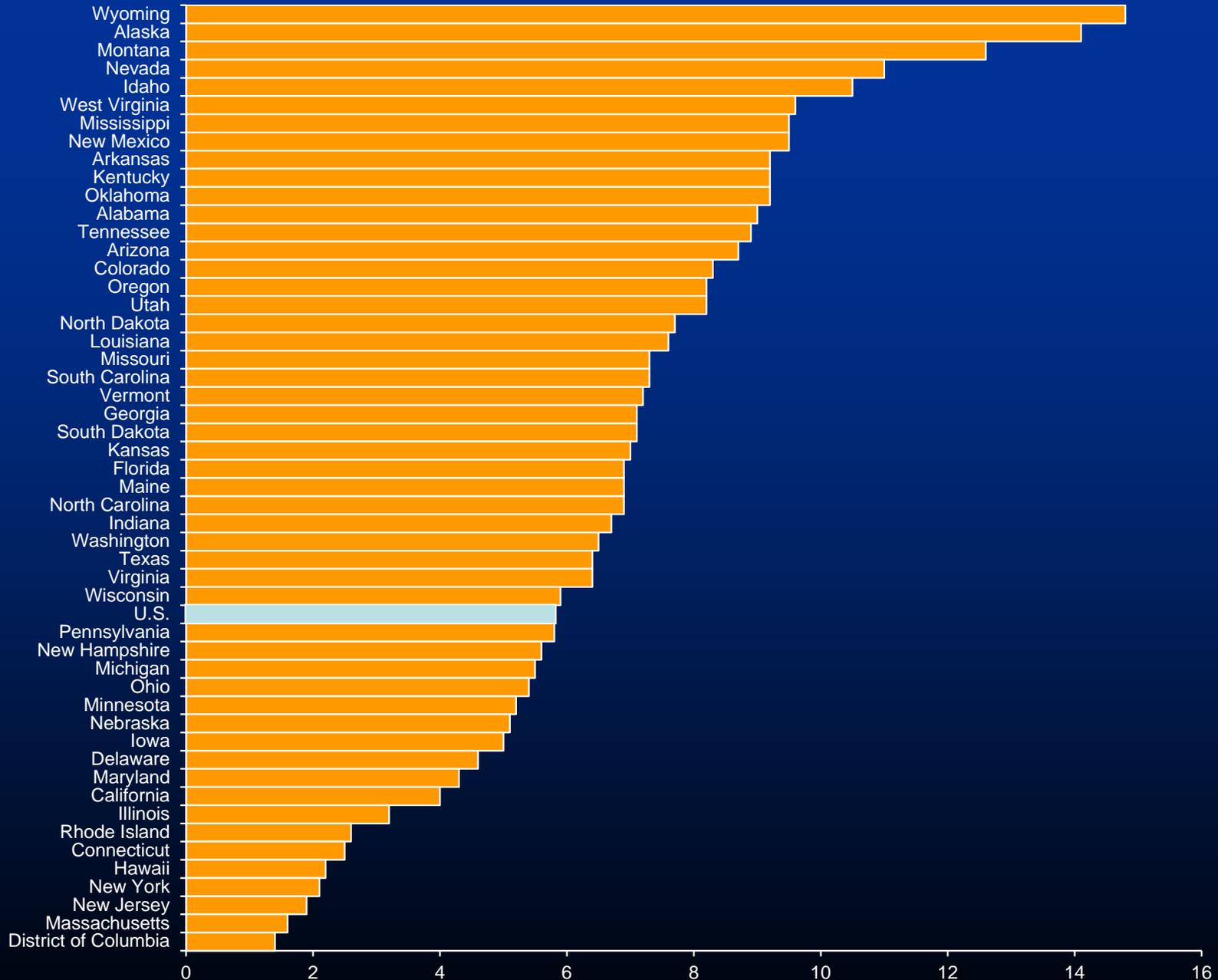
Suicide per 100,000, by race/ethnicity and age group--United States, 2007-2009, NVSS



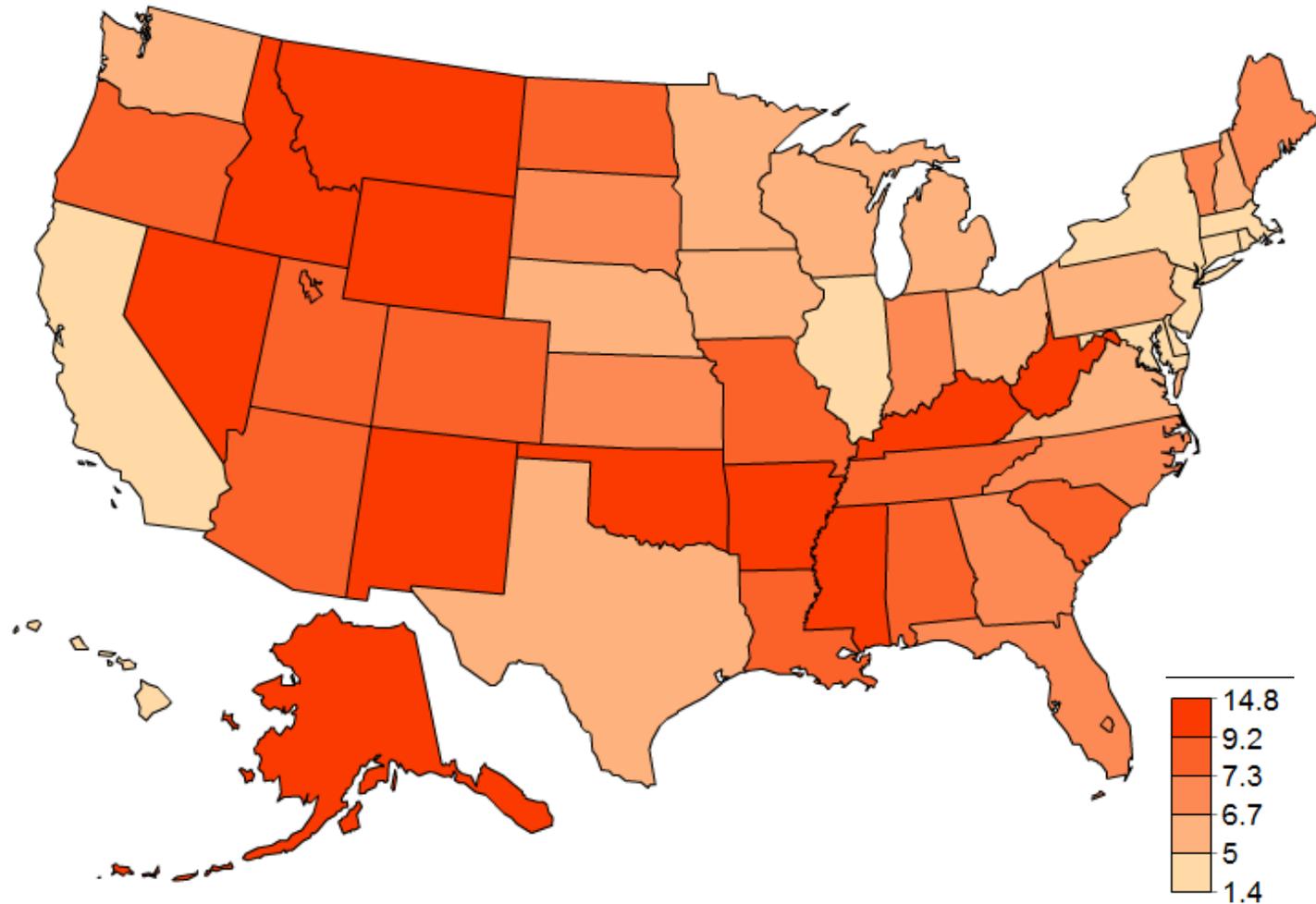
Suicide and homicide per 100,000, by race/ethnicity and age group--United States, 2007-2009, NVSS



Suicide by firearm per 100,000 — 2007-2009, NVSS



Suicide by firearm per 100,000 — 2007-2009, NVSS



Top 10 causes of emergency department visits, by age, 2006-2008 (NHAMCS)

0-17 years	45-64 years	85+ years
Unintentional injury	Unintentional injury	Unintentional injury
Upper resp infection	Chest pain	Heart disease
Ear infection	Abdominal pain	Pneumonia
Fever	Spinal disorders	Chest pain
Sore throat	Heart disease	Urinary tract infection
Abdominal pain	Cellulitis and abscess	Abdominal pain
Asthma	Adverse effects of med tx	Stroke
Noninfectious enteritis	Rheumatism	Adverse effects of med tx
Cellulitis and abscess	COPD	Spinal disorders
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Some considerations

- Estimates may be single-year or multiple-year
 - Pooled years for greater precision in some cases (e.g., statistics on children)
 - Ability to show estimates for sub-groups
- Trend vs. detail
 - Some tables will have time trends, but less detailed covariates (and vice versa)
- Data suppression
 - Relative standard error (SE/estimate) >30%
 - Sample size (depends on data source)

How to ...

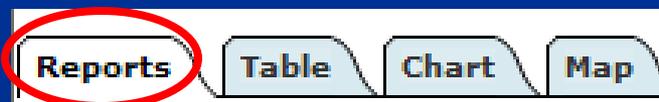
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- Manipulate interactive tables
 - Scroll through variables
 - Select variable categories to view
 - Sort
 - Move variables around and reset
- Read the metadata
- Create charts
- Create maps
- Print
- Export
- Download

HDI homepage

www.cdc.gov/nchs/hdi.htm

How to ...

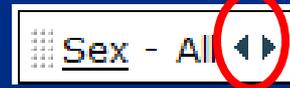
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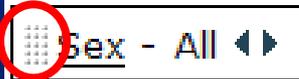
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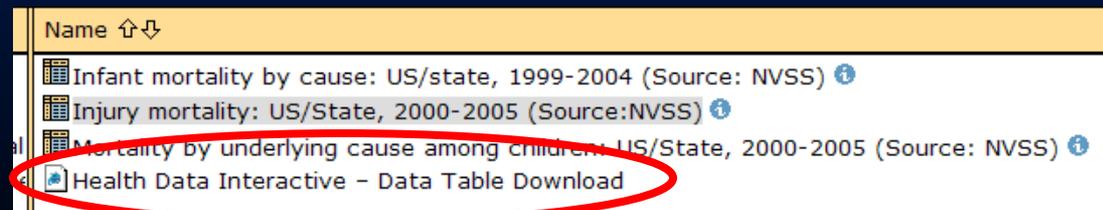
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- **Download**



Exporting and downloading points

- Exporting
 - What you see is what you get (only displayed information is exported)
 - Nest all the variables to export the entire table
 - Not all metadata are exported
- Downloading
 - Must first download the “Browser” software
 - Downloading the *.ivt version includes the whole table
 - Includes all functionality (e.g., metadata, charting)

Sample problems

- Find the current asthma prevalence among non-Hispanic white and non-Hispanic black boys ages 0-17 years in the Northeast in 2008-2010.
- Graph the trend in hospital discharges among all ages for diabetes as the any-listed versus first-listed diagnosis for 1990-2009.
- Rank neonatal mortality (infant mortality for ages 0-27 days) by state for 2006-2008 and create a map.

Sample problems

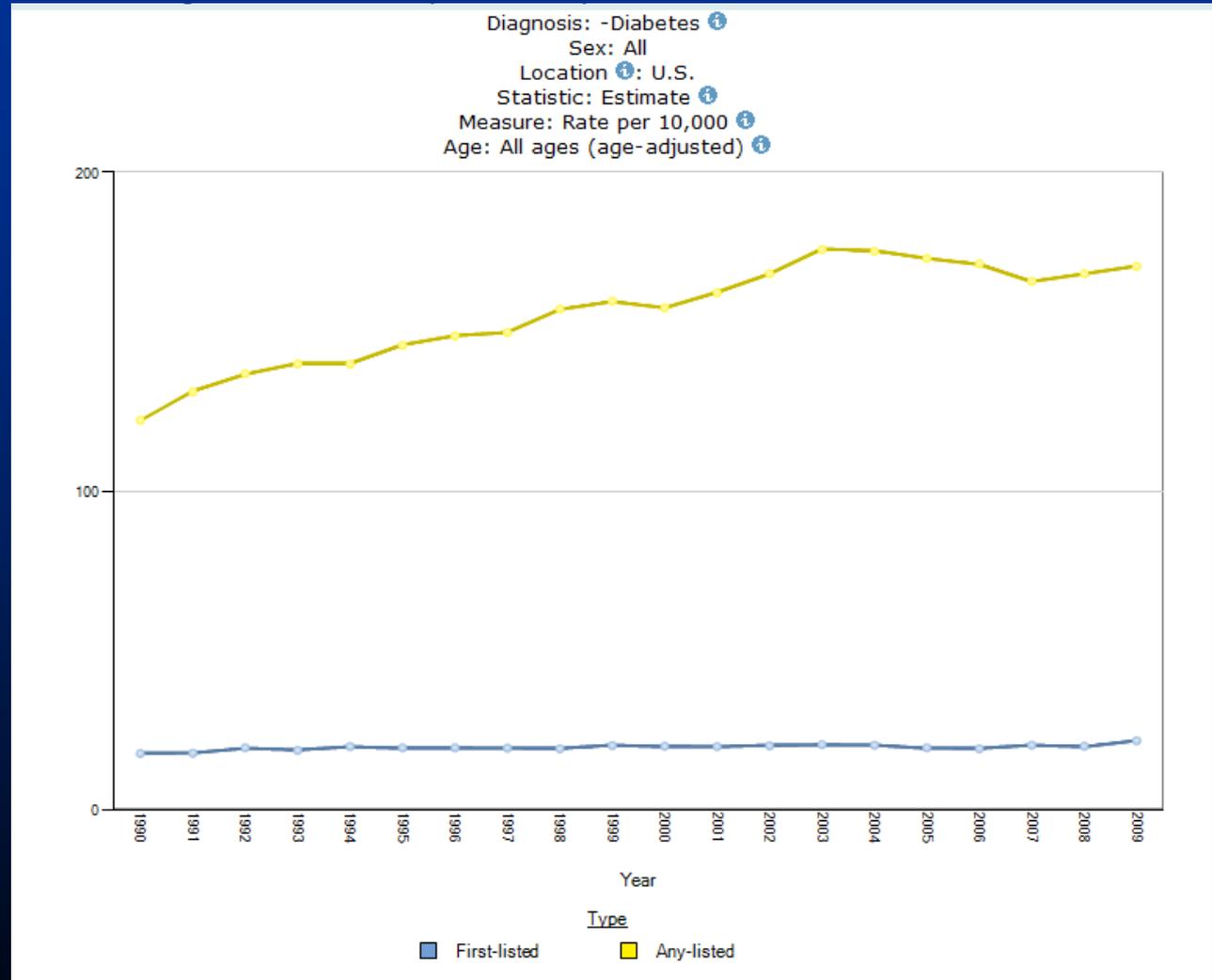
- Find the current asthma prevalence among non-Hispanic white and non-Hispanic black boys ages 0-17 years in the Northeast in 2008-2010.

The screenshot shows a web-based data tool interface. At the top, there are tabs for 'Reports', 'Table', and 'Chart', with 'Table' selected. Below the tabs are several icons for navigation and actions. The main title of the data is 'Asthma and chronic obstructive pulmonary disease: US, 1999-2010 (Source: NHIS)'. Below the title are four filter boxes: 'Other:', 'Age - 0-17', 'Year - 2008-2010', 'Income - All', and 'Urbanicity - All'. The main data table has a header row for 'Prevalence' with the title 'Current Asthma Prevalence'. The 'Location' filter is set to 'Northeast'. The 'Sex' filter is set to 'All'. The 'Race/Ethnicity' filter is set to 'Non-Hispanic White' and 'Non-Hispanic Black'. The table displays prevalence percentages for these groups, broken down by sex.

Prevalence	Current Asthma Prevalence		
Location	Northeast		
Sex	All	Male	Female
Race/Ethnicity	↑↓	↑↓	↑↓
Non-Hispanic White	8.1	9.9	6.1
Non-Hispanic Black	17.8	20.4	15.3

Sample problems

- Graph the trend in hospital discharges among all ages for diabetes as the any-listed versus first-listed diagnosis for 1990-2009.



Sample problems

- Rank neonatal mortality by state for 2006-2008...

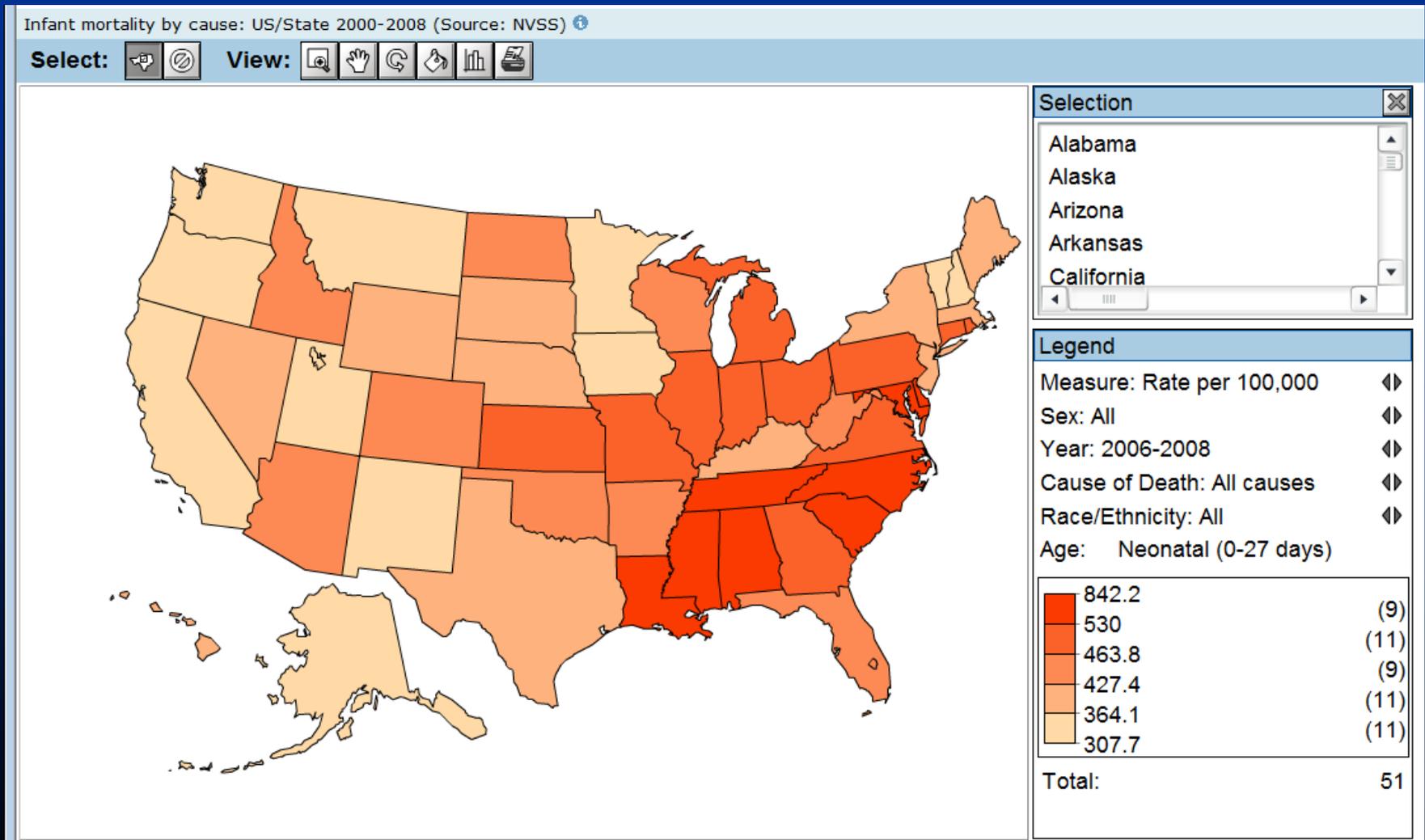
Infant mortality by cause: US/State 2000-2008 (Source: NVSS) ⓘ

Other: Race/Ethnicity ⓘ - All ⓘ ◀ ▶ Measure - Rate per 100,000 ⓘ ◀ ▶ Cause of Death ⓘ - All causes ⓘ ◀ ▶

Age	Neonatal (0-27 days) ⓘ
Location	↑ ↓
District of Columbia	842.2
Mississippi	611.3
Alabama	596.8
Maryland	582.1
Delaware	574.0
North Carolina	551.7
Louisiana	548.8
South Carolina	538.8
Tennessee	530.0
Michigan	525.2
Pennsylvania	523.5
Georgia	520.1
Ohio	518.8
Rhode Island	500.4
Virginia	492.7
Illinois	484.1
Connecticut	478.0
Missouri	475.8
Kansas	469.1
Indiana	463.8
Florida	460.6
Oklahoma	455.6
Arkansas	452.7
Arizona	442.9
U.S.	439.4
North Dakota	439.4
Idaho	437.2
Colorado	432.5

Sample problems

- and create a map



Help / Contact Us

To receive technical support with Beyond
20/20 software and the tables

e-mail: hdi@cdc.gov