AIDSVu and HepVu: Visualizing HIV and HCV To End The Epidemics

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AN INTRODUCTION TO Vu: AIDSVu AND HepVu
AIDSVu and HepVu Mission

Making data widely available, easily accessible and locally relevant to inform public health decision-making

Presented by the Rollins School of Public Health at Emory University in partnership with Gilead Sciences
AIDSVu Overview

- AIDSVu maps state-, county-, and city-level HIV data, including:
  - Prevalence and new diagnoses
  - Mortality
  - PrEP Use
- City and state profiles with HIV statistics
- Deeper Look at HIV in the South, PrEP
- Service locator tool for testing, PrEP and Care

AIDSVu.org
HepVu Overview

• Established in 2017 to **present the first standardized state-level estimates** of people living with Hepatitis C

• **Intersection of the Hepatitis C and opioid epidemics** to advance awareness, programs, and policies to address the syndemic

• A few of our HepVu Working Group Advisors:
  • amfAR
  • CDC
  • Massachusetts Department of Health
  • NASTAD
  • NIDA
  • UCSD

HepVu.org
THE STATE OF HEPATITIS IN AMERICA
Hepatitis C in America

- Hepatitis C is a leading cause of liver-related morbidity and mortality in America
  - Hepatitis C-related deaths were greater than deaths from 60 other infectious diseases combined in 2013

- An estimated 2.3 million people were living with Hepatitis C between 2013 and 2016
  - Three-fourths were Baby Boomers, or those born between 1945 and 1965

- Hepatitis C and other infectious diseases are often-overlooked consequences of America’s opioid crisis
  - Hepatitis C infections have nearly tripled in recent years, with the largest increases among persons under 40, largely due to injection drug use
Eliminating Hepatitis C

- The public health surveillance system for Hepatitis C is **not as robust** as it is for other infectious diseases, such as HIV.

- **Accurate estimates of the burden of Hepatitis C infection in each state are essential** to inform policy, programmatic, and resource planning for elimination strategies.

- HepVu is a powerful tool to communicate the Hepatitis C epidemic in a clear and compelling way to **inform researchers and public health decision-makers’ prevention and care efforts**.
HepVu DATA AND SITE OVERVIEW
HepVu Maps

View data at the state-level, including:

- Hepatitis C prevalence estimates (2013-2016)
- Hepatitis C-related mortality data (2016)

Opioid maps:

- Opioid prescription rate (2017)
- Narcotic overdose mortality rate (2013-2016)
- Pain reliever misuse percent (2015-2016)
Hepatitis C Prevalence Estimation Data

- State-level burden of Hepatitis C infection informs policies, resource allocation, advocacy, and elimination efforts
- Prevalence of current infection (RNA)
  - Measured in nationally representative residential survey, National Health and Nutrition Examination Survey (NHANES)
  - In most states, it is challenging to measure directly from diagnoses reported to surveillance
- Statistical models allow combining national NHANES Hepatitis C prevalence with local information to yield state-level results
  - National Vital Statistics System (NVSS) mortality
  - American Community Survey (ACS) population sizes
Hepatitis C Prevalence, 2013-2016

West
10/13 states have prevalence above median

Appalachia
3/10 highest prevalence states
Number of People with Hepatitis C, 2013-2016

9 states comprise of 52% of all persons with Hepatitis C

Appalachia
5/10 states with highest number of infections

TN and AZ only states in top 10 prevalence and persons with HCV
Opioid Maps

Opioid Prescription Rate

Narcotic Overdose Mortality Rate

Pain Reliever Misuse Percent
Comparing Data
State Profiles

Local Data

View state profiles with Hepatitis C statistics, downloadable charts and local resources.

Local Data: Washington, DC

There are approximately 12,700 people living with Hepatitis C in Washington, DC.

Washington, DC Highlights

- Estimated Prevalence of Hepatitis C:
  - Estimated number of people living with Hepatitis C, 2013-2016: 12,700
  - Estimated rate of people living with Hepatitis C per 100,000: 2,340

- Reported Hepatitis C Mortality:
  - Number of deaths related to Hepatitis C in 2016: 95
  - Rate of deaths related to Hepatitis C per 100,000: 14
Deeper Look: Opioids

The opioid crisis is one of the greatest public health challenges facing the U.S., causing an unprecedented surge in drug overdose deaths, and fueling the rapid rise in new Hepatitis C infections from injection drug use in communities across the country.

As opioid abuse rates have skyrocketed, new Hepatitis C infections have also increased. Data on HepYu show that an estimated 2.3 million Americans were living with Hepatitis C between 2013 and 2016. Though the majority, or roughly three-fourths, of all infections were among Baby Boomers (those born between 1945 and 1965), there has been a spike in new Hepatitis C infections among younger Americans.

The number of new Hepatitis C infections more than tripled from 2010 to 2016, largely reflecting infections due to the rise in injection drug use. This has created a syndemic, in which the opioid and Hepatitis C epidemics are linked—with the burden of Hepatitis C being directly exacerbated by injection drug use.

Deeper Look: Opioids page presents an in-depth look at the opioid epidemic’s impact on Hepatitis C in the U.S.

Page includes resources, shareable infographics, related blogs, and a graphic illustrating the syndemic between Hepatitis C and injection drug use as a result of the opioid epidemic.
Shareable Resources and Future Research

- **Share:**
  - Infographics on Hepatitis B and C, and the opioid syndemic
  - Blogs from viral hepatitis and opioid experts

- **2019:**
  - 2013-2016 Hepatitis C prevalence estimates, stratified by race, age, and sex
  - Additional opioid indicators
  - Hepatitis Awareness Month and Testing Day infographics (May)
  - Ongoing blog series with experts
QUESTIONS?

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