

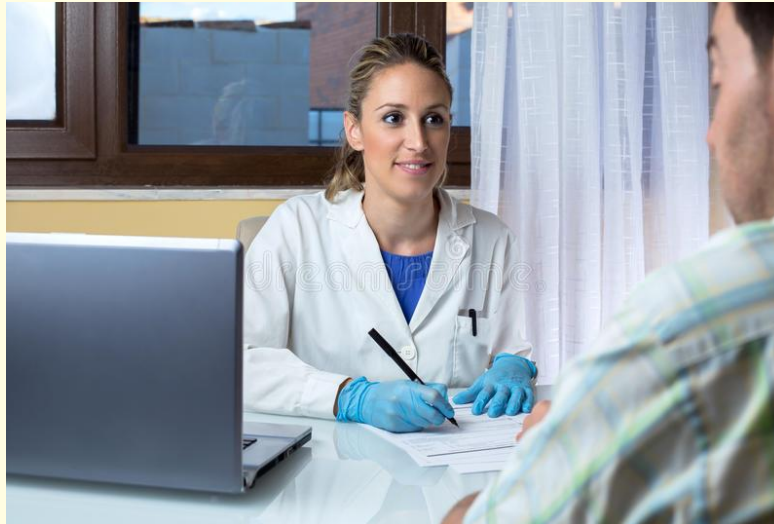
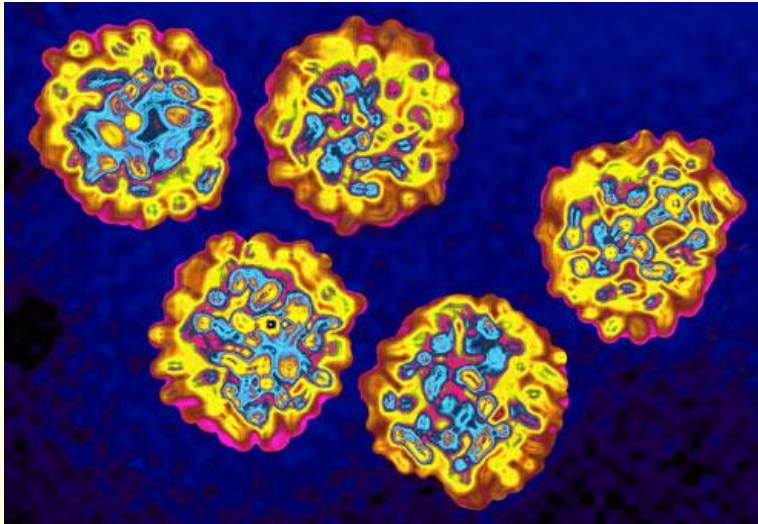
Hepatitis B and the Opioid Crisis in West Virginia

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Objectives

- Describe laws governing reporting communicable diseases
- Review the role of surveillance in case investigation
- Review data and burden of disease in WV
- Describe challenges and successes in dealing with hepatitis B in WV



Reportable Disease Rule

West Virginia Legislative Code of State Rule, 16-3-1; 64CSR7

What



Mandates the reporting of hepatitis B infections

Who



Health care providers, hospitals, clinics, laboratories

When



Within 24 hours of diagnosis or result

Where



The local health department

Hepatitis B Case Investigation Process

Reporting



Investigation



Surveillance



Notification

Required to report by law

- Commercial laboratories
- Providers
- State Public Health Lab
- Hospitals

Local Health Department

- Education and outreach
- Disease investigation
- Contact tracing and partner notification

State Health Department

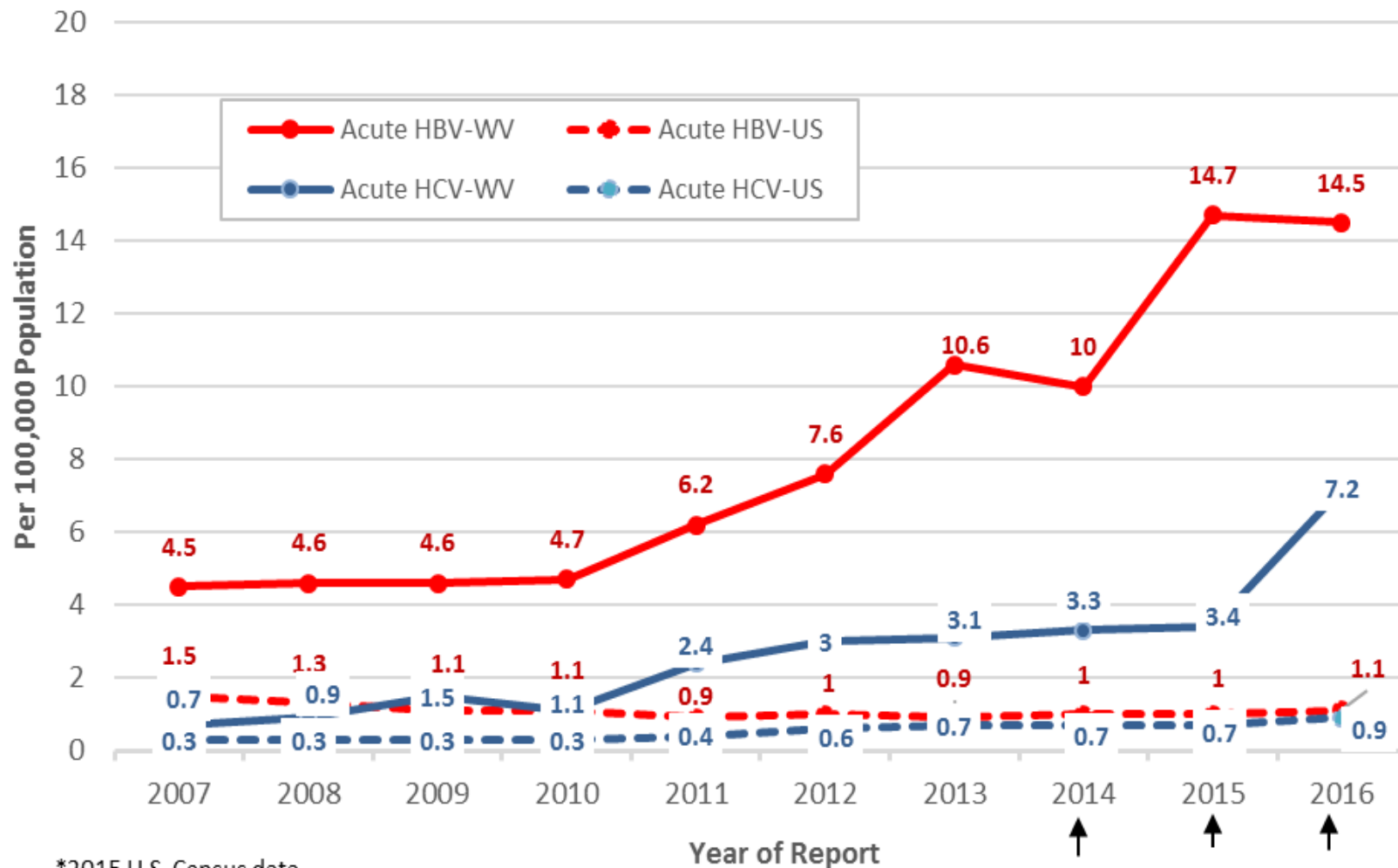
- Review cases for completeness and accuracy
- Report all cases to the CDC via the Nationally Notifiable Disease Surveillance System (NNDSS)
- Feedback disease surveillance findings to the public and stakeholders

Centers for Disease Control (CDC)

- Receives cases via NNDSS
- Summarizes HBV data nationally

Epidemiology of HBV in West Virginia

Acute HBV and Acute HCV Infections in WV vs the U.S., 2007-2016



*2015 U.S. Census data

** Division of Infectious Disease Epidemiology

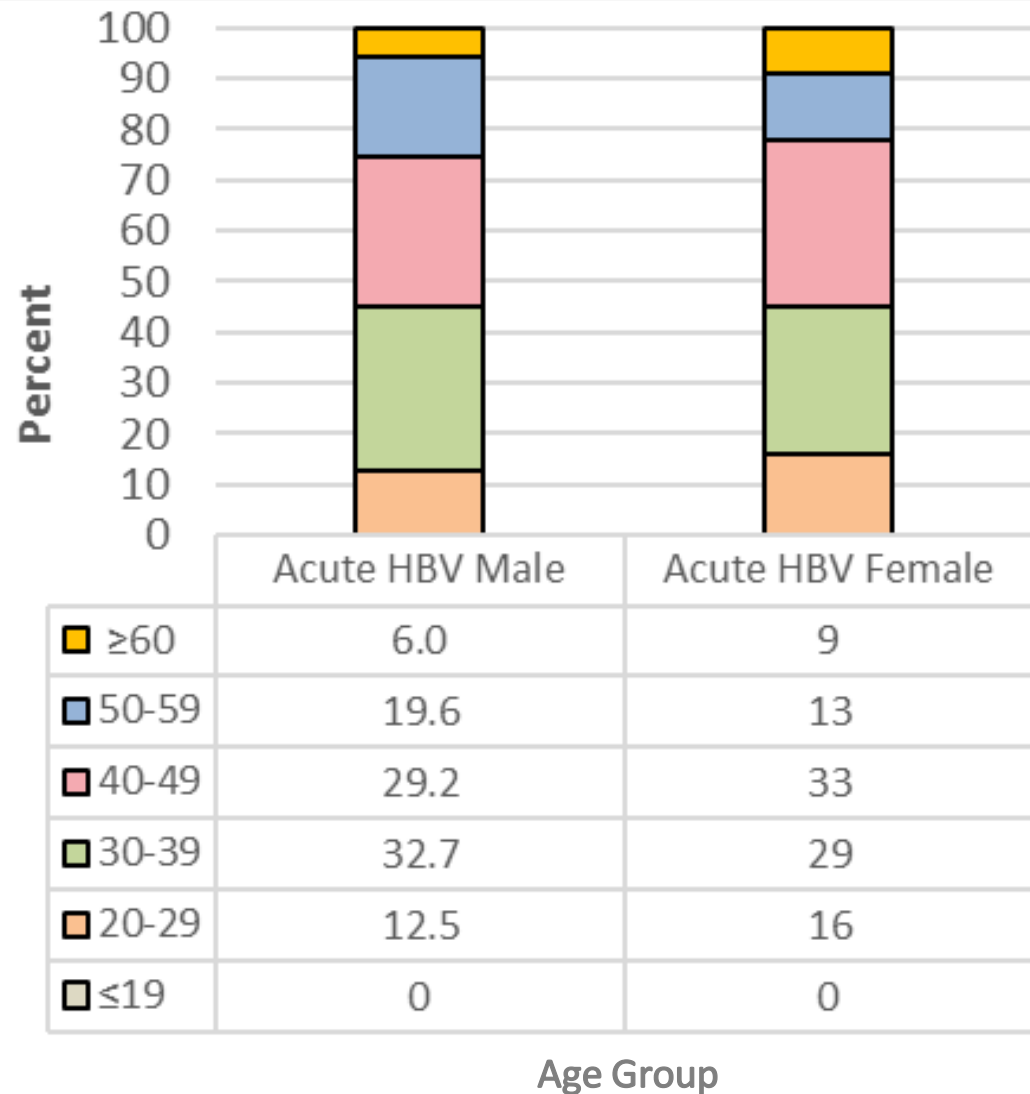
Hep B to DIDE**

Electronic lab reporting

Change case definition

Epidemiology of HBV in West Virginia (cont'd)

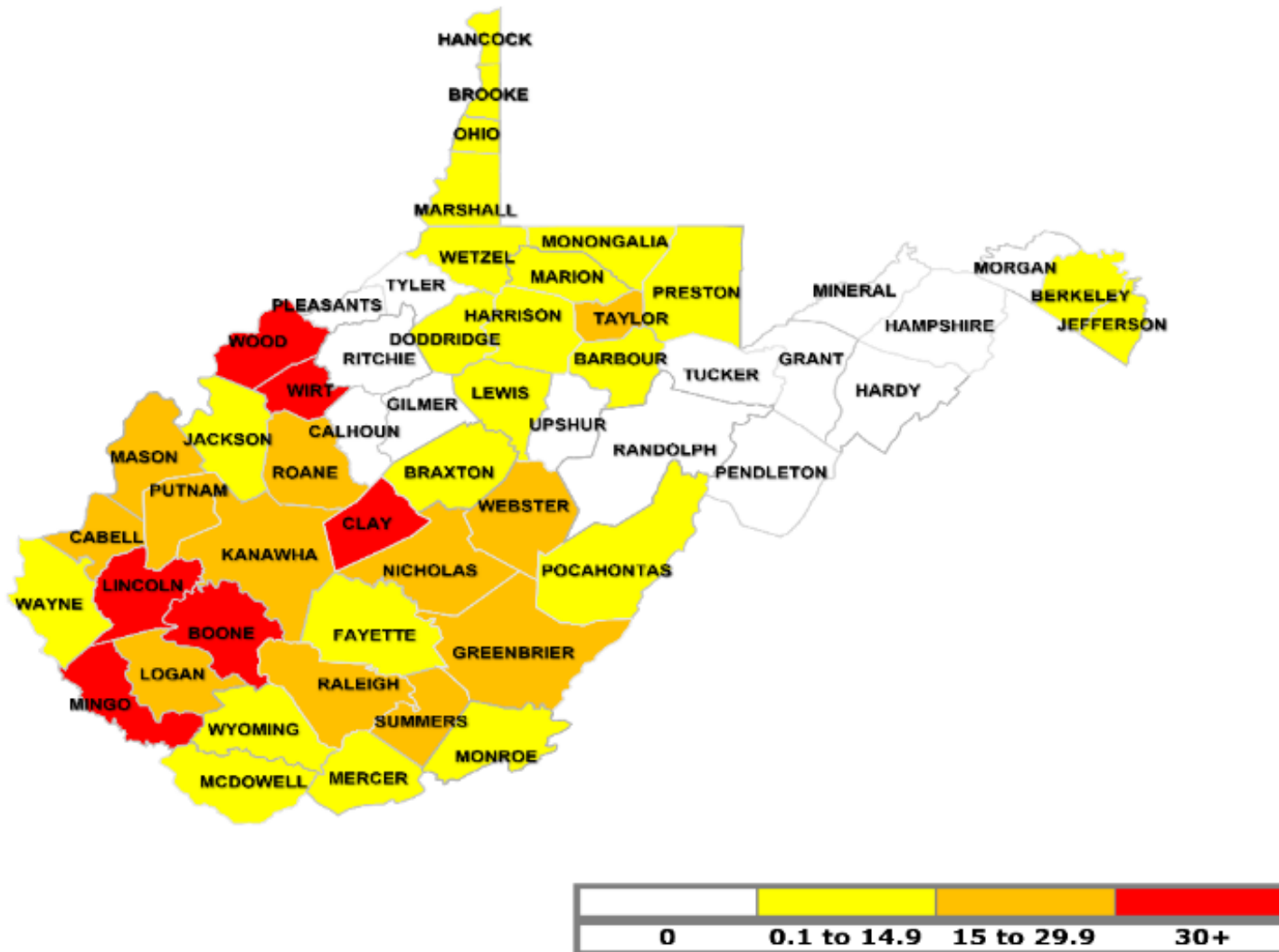
Distribution of Acute HBV by Age and Gender, WV, 2016



WV Demographics, 2015	Percent of Population
Total Population = 1,844,128	
Gender and Age	
Female	50.6
Male	49.4
Persons under 18 years	20.6
Persons 65 and over	18.2
Race	
White	93.6
Black/African American	3.6
Hispanic/Latino	1.5
Asian	0.8
Two or more races	1.6
Persons in poverty	18.0
Live in rural areas	44.0

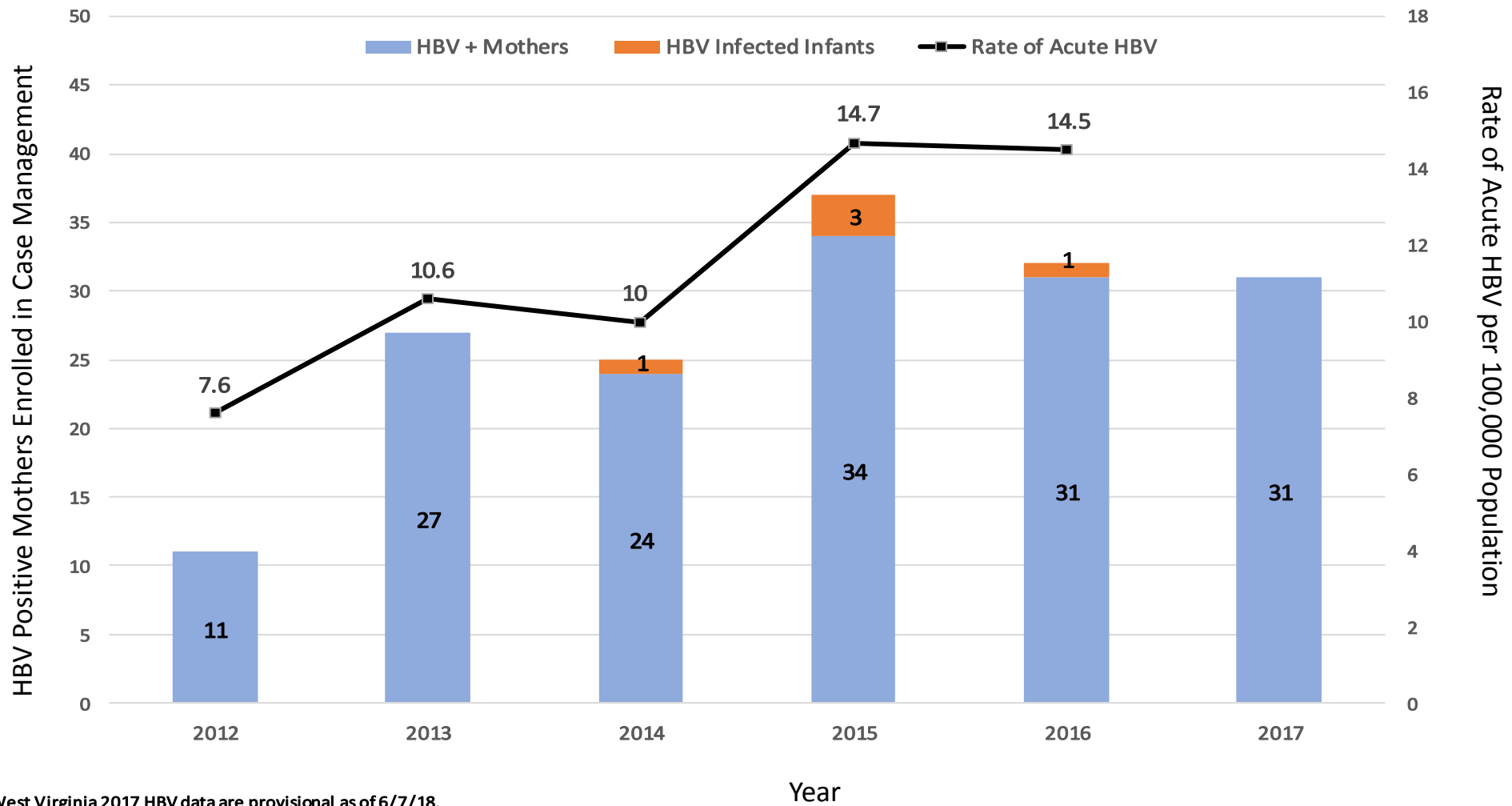
Epidemiology of HBV in West Virginia (cont'd)

The Rate of Acute Hepatitis B per 100,000 Population,
West Virginia - 2016 (n=268)



Epidemiology of HBV in West Virginia (cont'd)

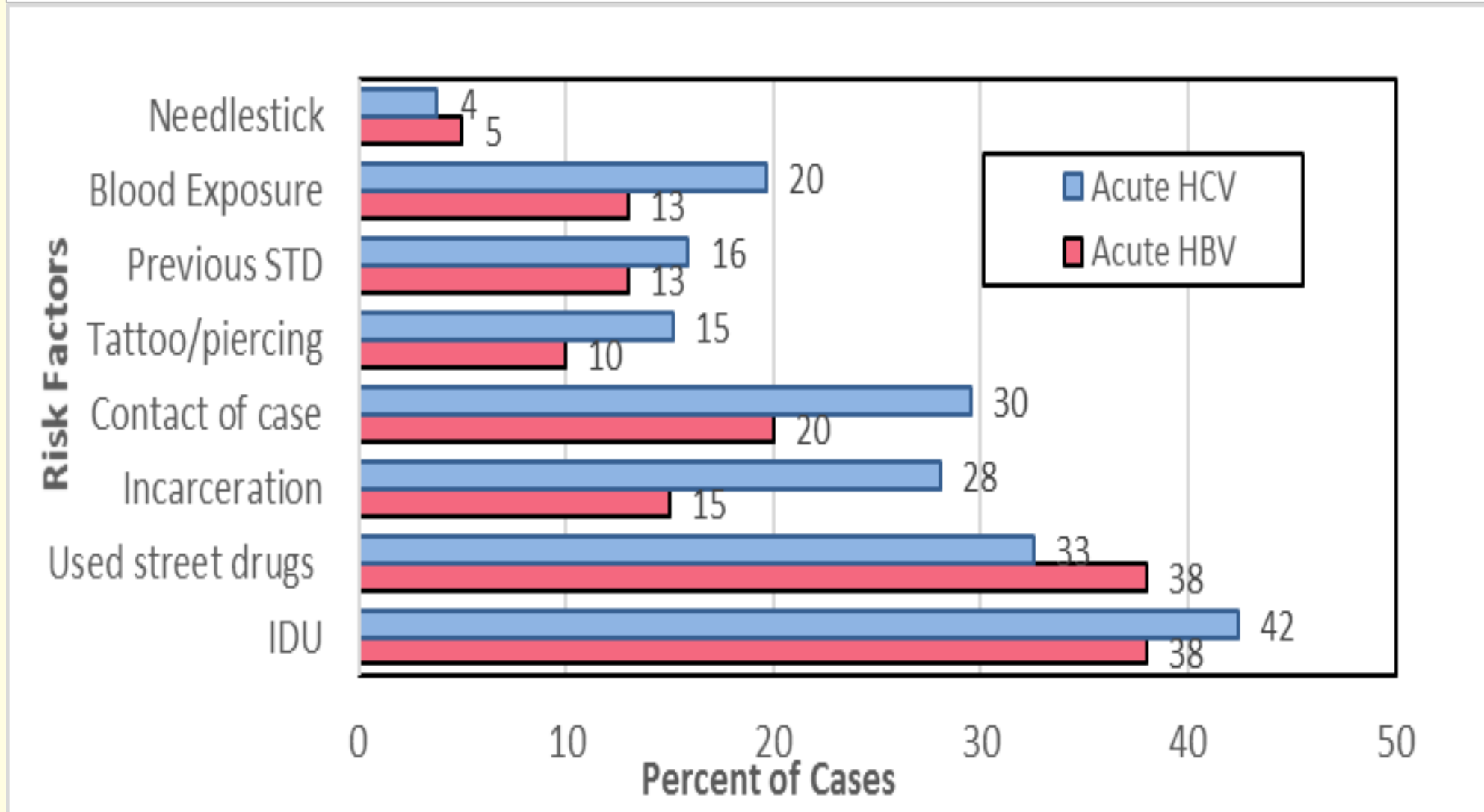
Perinatal HBV Infection Identified Among Infants vs Pregnant Mothers in Case Management, WV - 2012-2017*



*West Virginia 2017 HBV data are provisional as of 6/7/18.

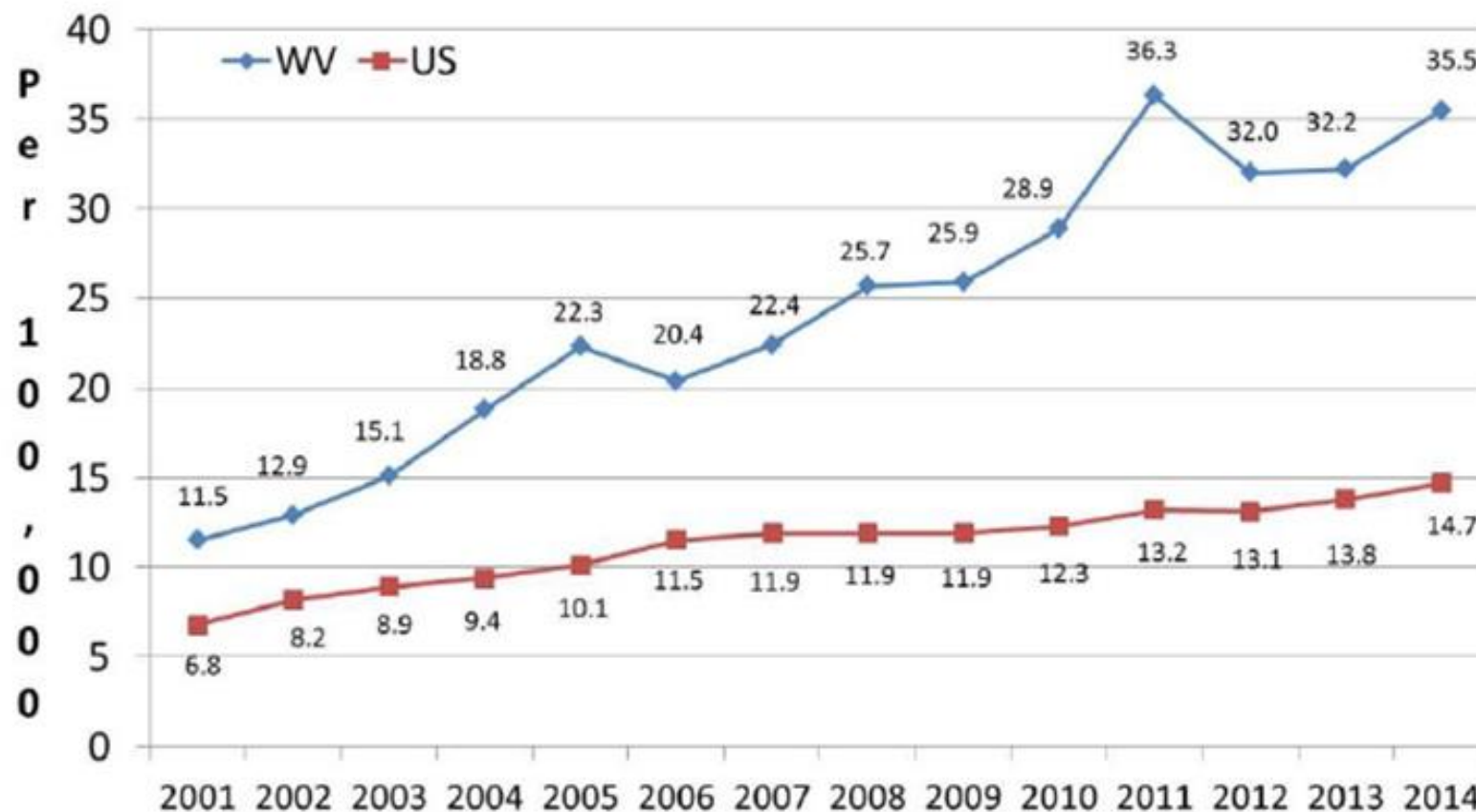
Epidemiology of HBV in West Virginia (cont'd)

Percent of Acute HBV and Acute HCV Cases with Risk Factors, WV, 2016



Drug Overdose Mortality Rate, WV

Age-Adjusted Resident Drug Overdose Mortality Rate, WV and US 2001-2014



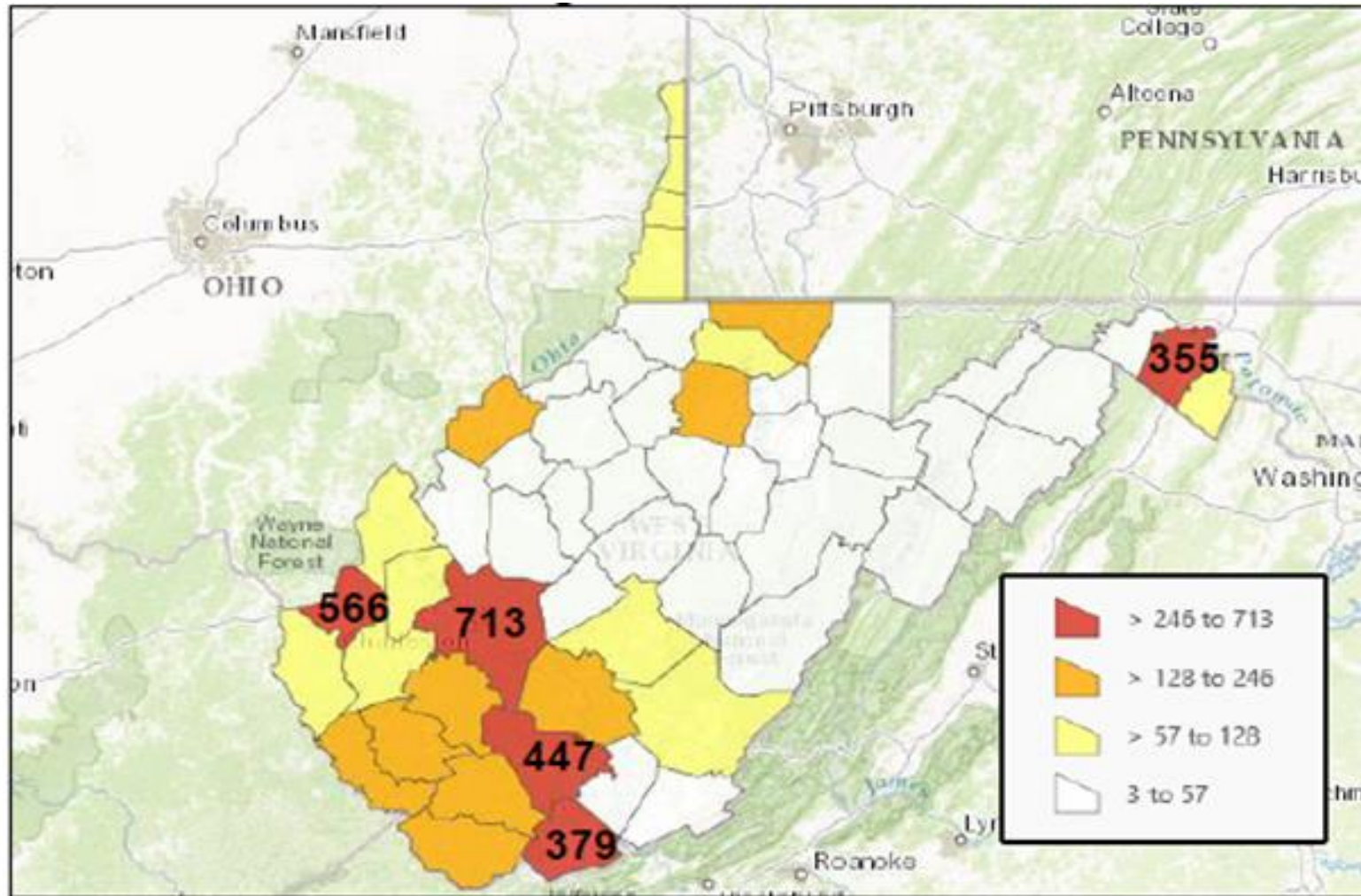
Data Source: WV Health Statistics Center, Vital Surveillance System and CDC Wonder

Rates are adjusted by age to the 2000 US Standard Million

Note: WV Rates displayed in this figure do not match CDC WONDER in 2005 and 2009 due to reporting error.

Fatal Drug Overdoses, WV

County-Level Distribution of Opioid-Related Overdose Deaths, WV, 2001-2015



Data Source: WV Health Statistics Center, Vital Statistics System 2015 Preliminary Data

Public Health Action Partners

- Division of Infectious Disease Epidemiology (DIDE)
- Regional Epidemiologists
- Local Health Departments
- Division of Immunization Services (DIS)
- Health Statistics Center (WVHSC)
- Division of STD, Hepatitis & HIV (DSHH)

Challenges

- Reporting pregnancy status on laboratory results
- High volume of lab reports
- Most people with hepatitis are asymptomatic
- Lost to Follow Up (LTFU) patients
- Those in jail must request to be tested

Successes

- Thorough case investigations
- Electronic Lab Reporting
- Investigation tools and website resources
- CDC viral hepatitis surveillance funding
- Two-dose vaccine
- WV has no religious exemption for vaccines
- State-wide registry for vaccinations

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