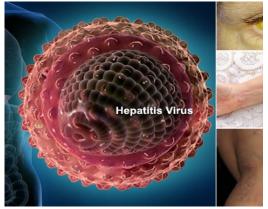
# Hepatitis B and the Opioid Crisis in West Virginia

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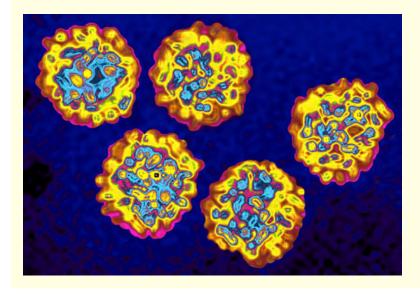




# Objectives



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



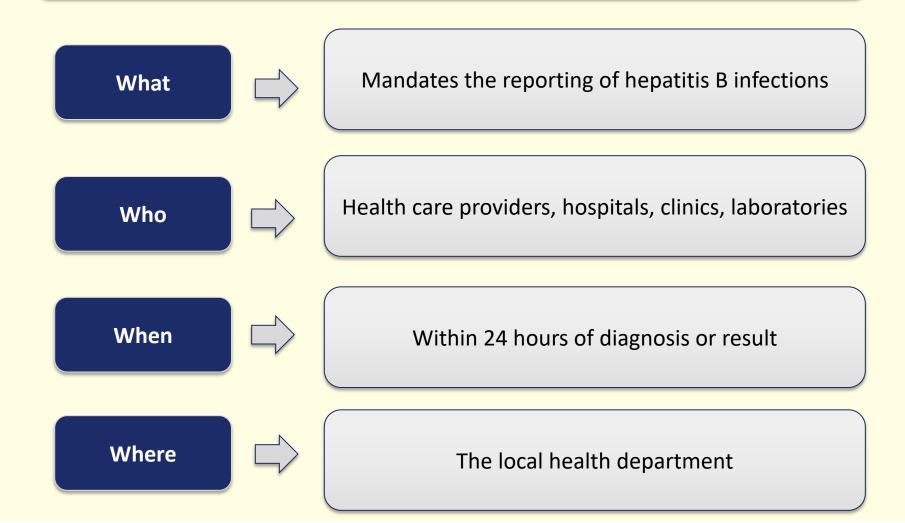




# Reportable Disease Rule



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



### 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 CDC via the Nationally
   Notifiable Disease Surveillance System (NNDSS)
- Feedback disease surveillance findings to the public and stakeholders

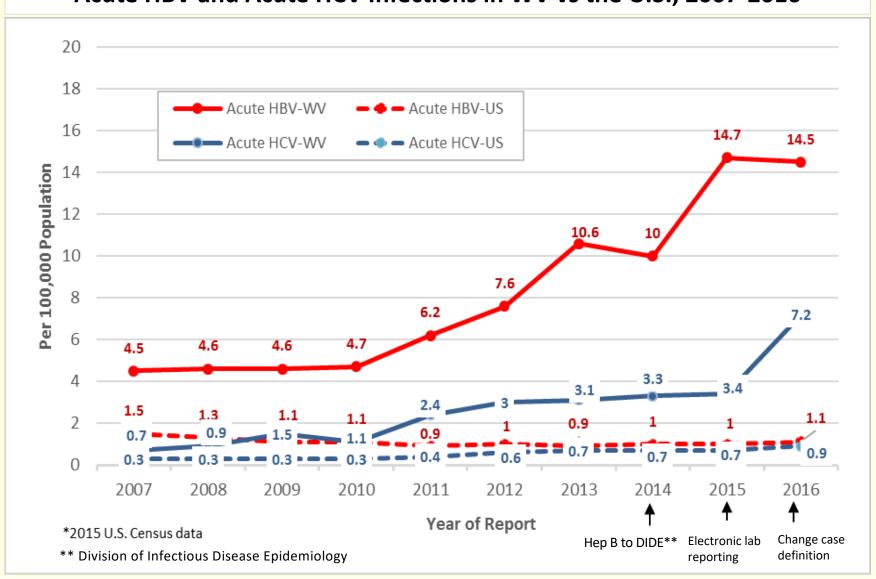
#### **Centers for Disease Control (CDC)**

- Receives cases via NNDSS
- Summarizes HBV data nationally

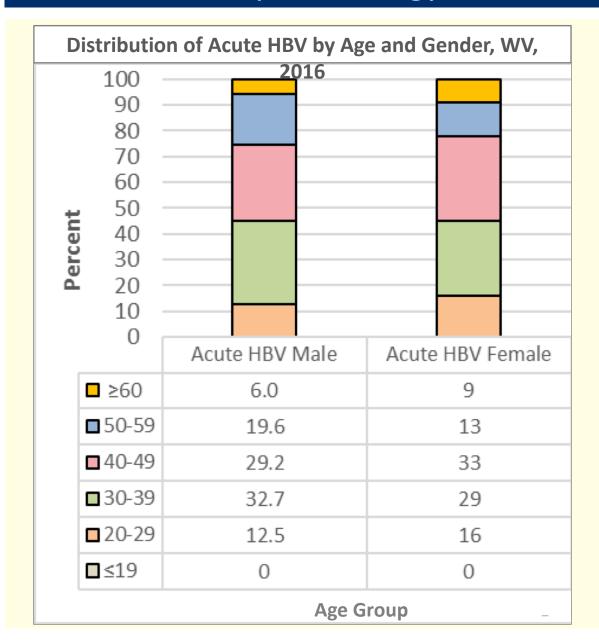
# Epidemiology of HBV in West Virginia



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



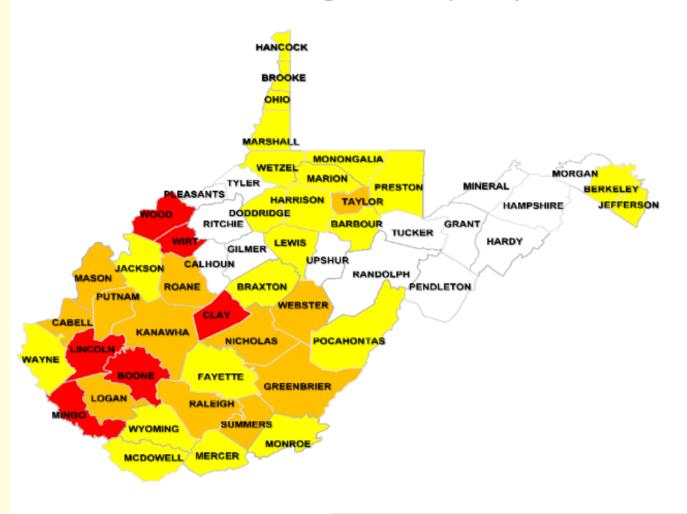




WV Demographics, 2015	Percent of
	Population
Total Population = 1,844,128	
Gender and Age	
Female	50.6
• Male	49.4
Persons under 18 years	20.6
Persons 65 and over	18.2
Race	
• White	93.6
Black/African American	3.6
Hispanic/Latino	1.5
• Asian	0.8
Two or more races	1.6
Persons in poverty	18.0
Live in rural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







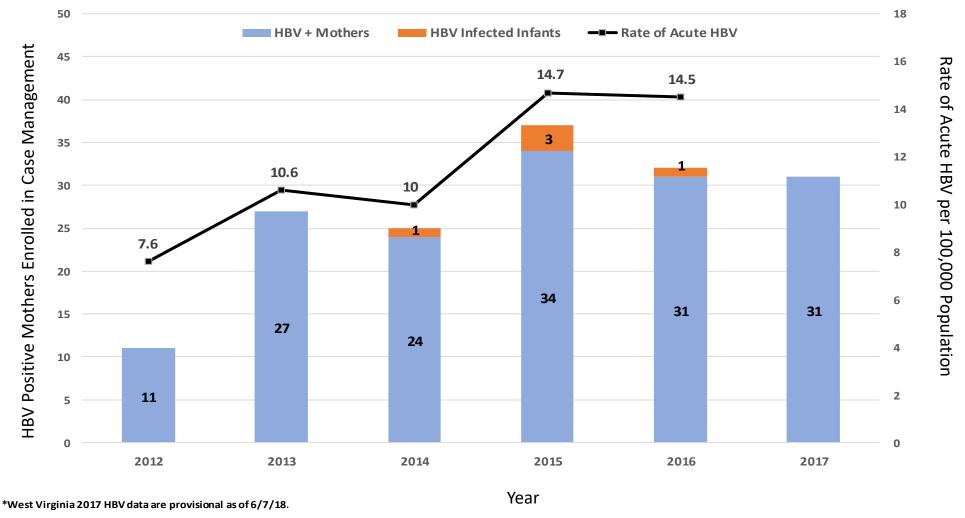
0

0.1 to 14.9 15 to 29.9

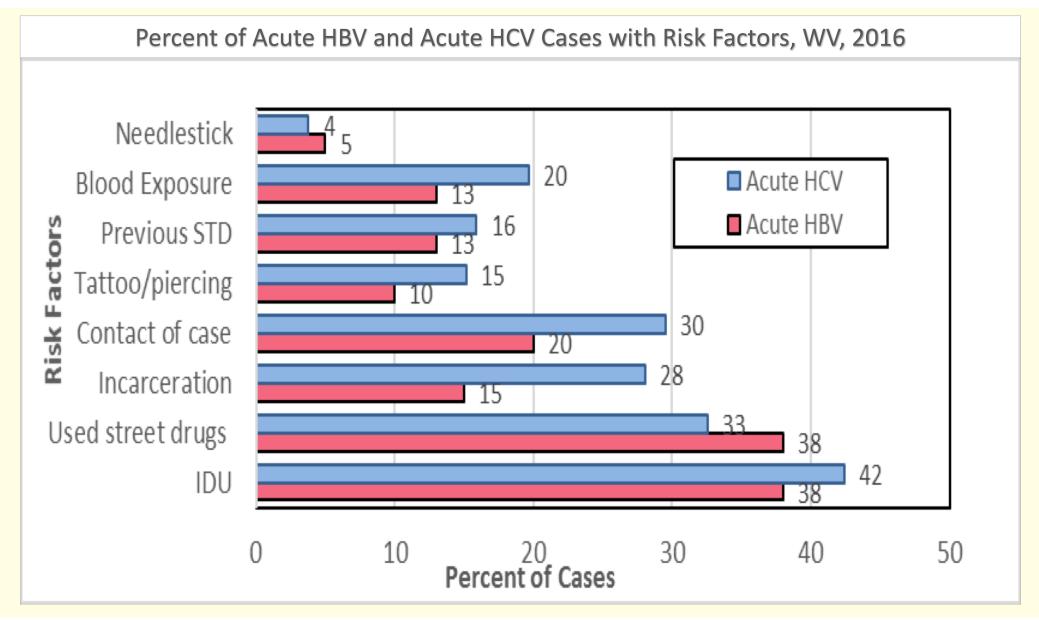
30+



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



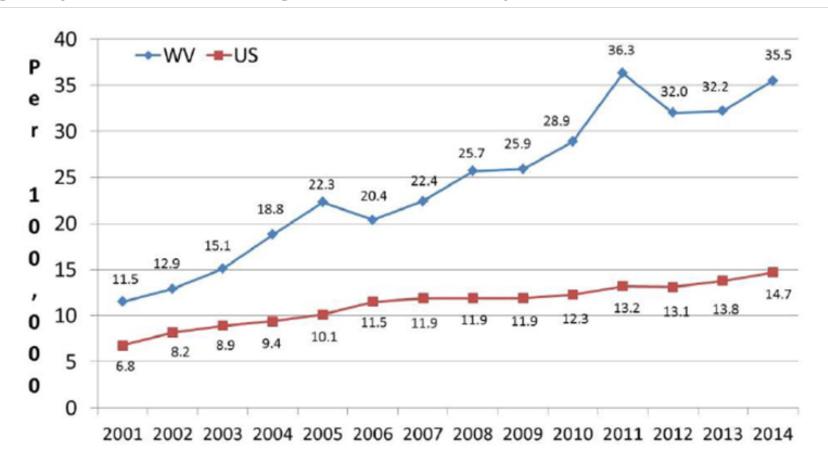




### Drug Overdose Mortality Rate, WV



### Age-Adjusted Resident Drug Overdose Mortality Rate, WV and US 2001-2004



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

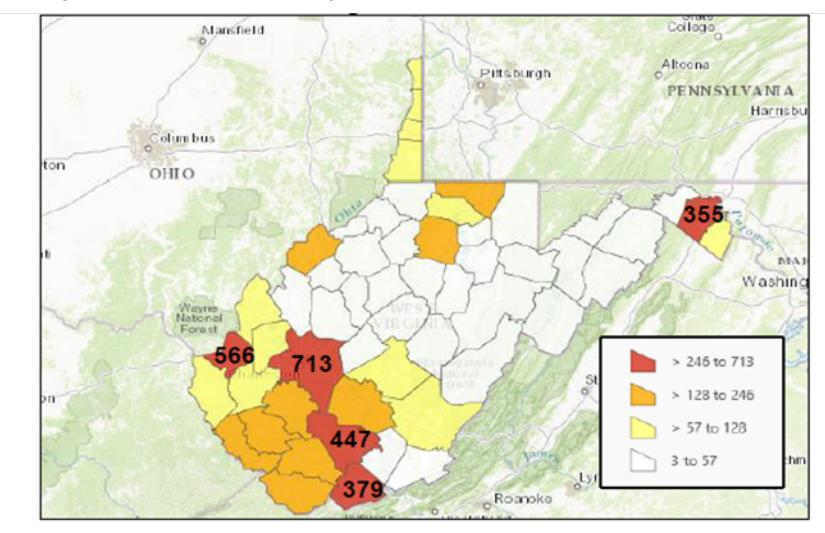
Rates are adjusted by age to the 2000 US Standard Million

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



### **Public Health Action Partners**



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

# Challenges and Successes in Surveillance



# 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

### Contact



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