

# Hepatitis C Program and Data Update

Amanda Wilburn, MPH

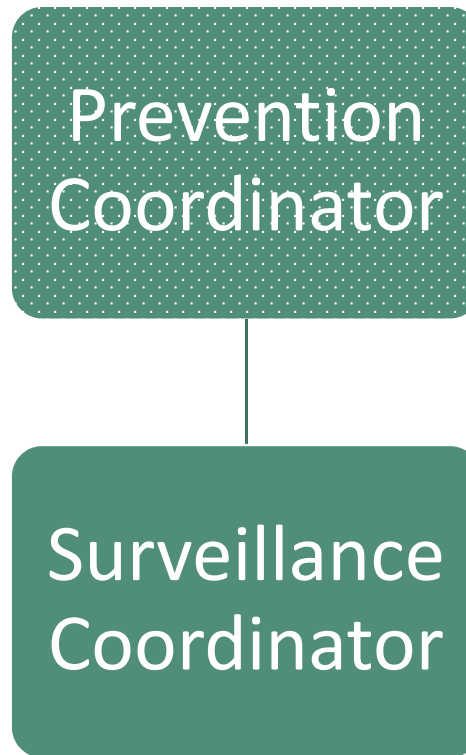
August 15, 2019



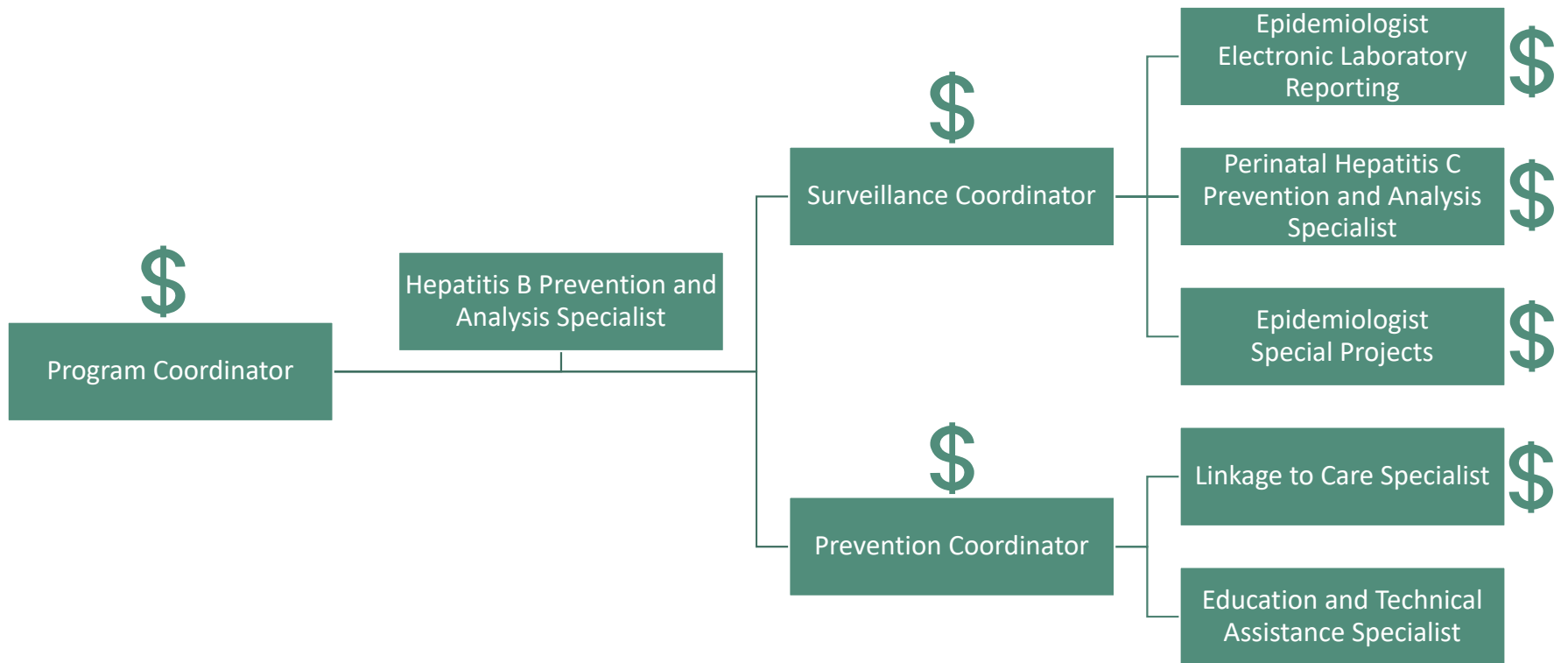
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Dr. Jeffrey D. Howard, *Commissioner*

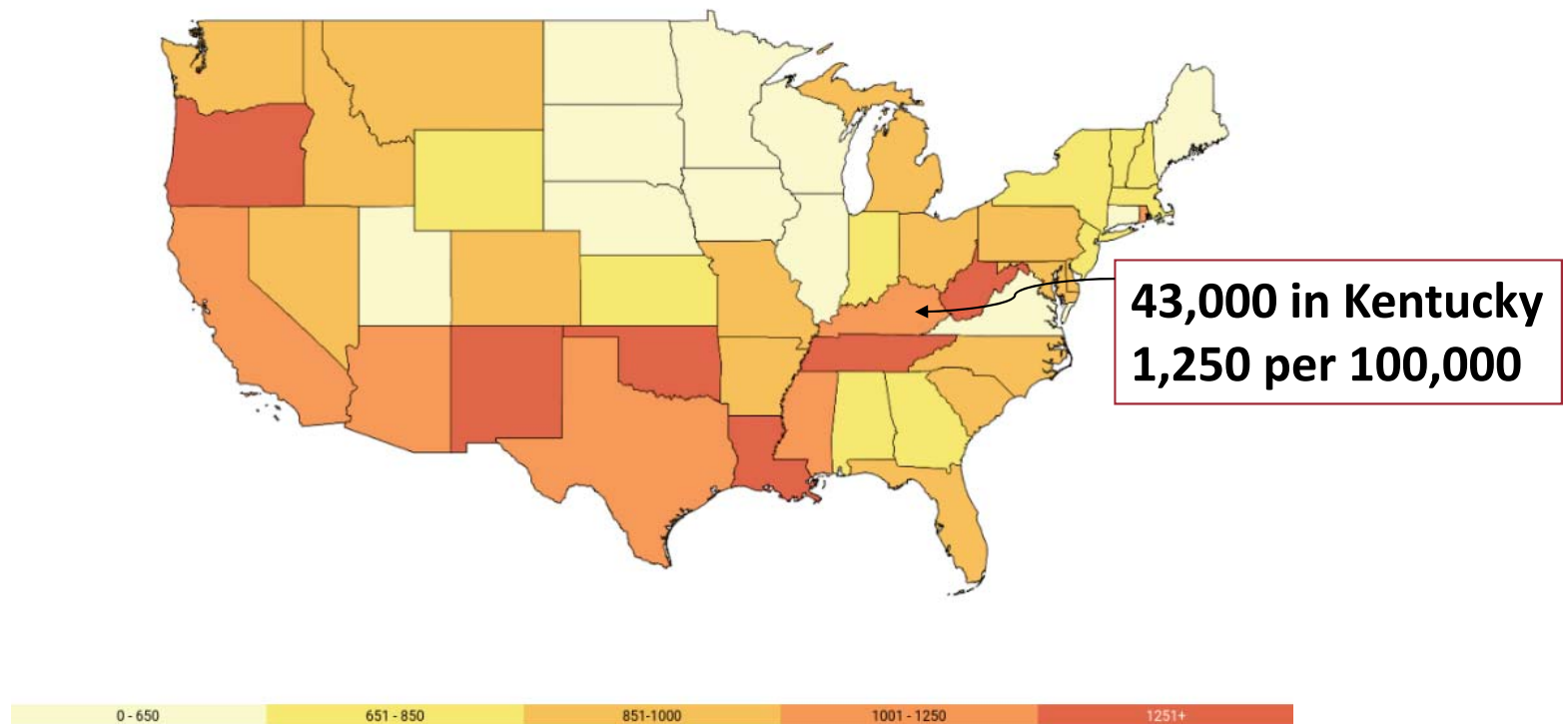
# Viral Hepatitis Program Overview



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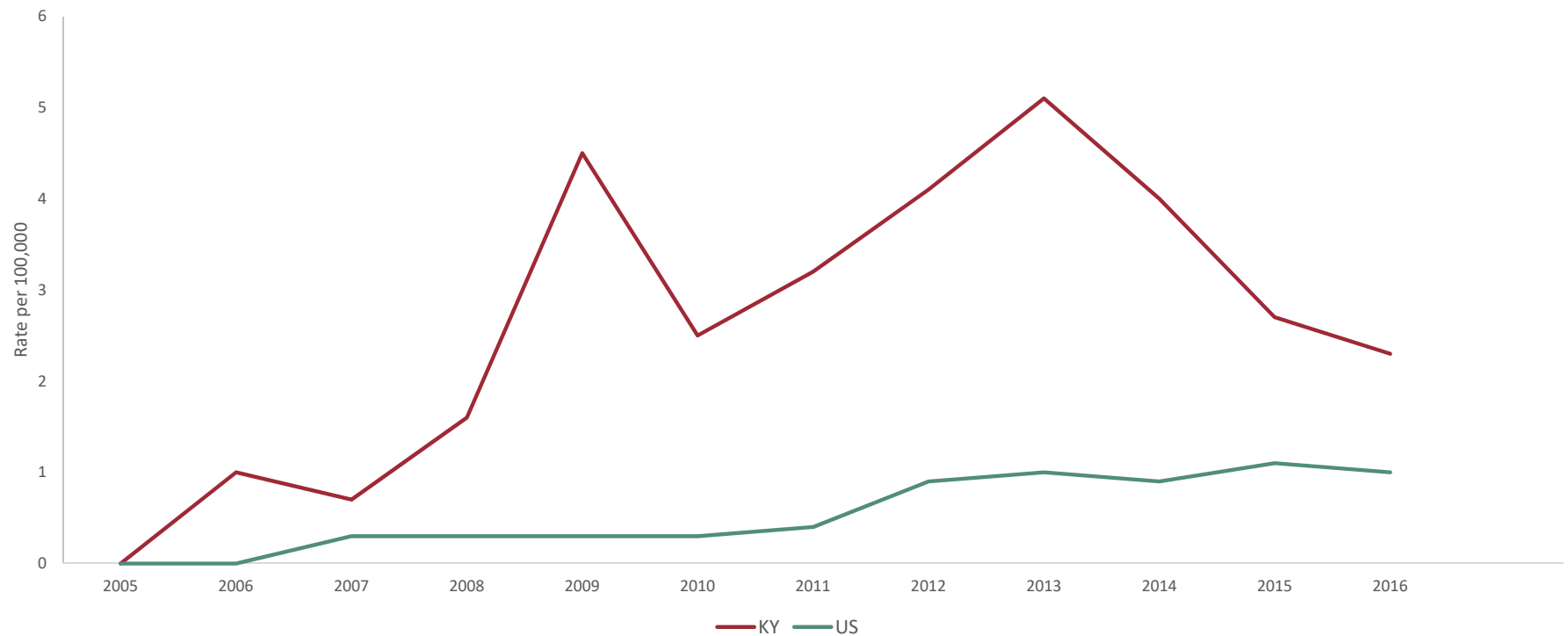


# Estimated Rate of People Living with Hepatitis C, 2016



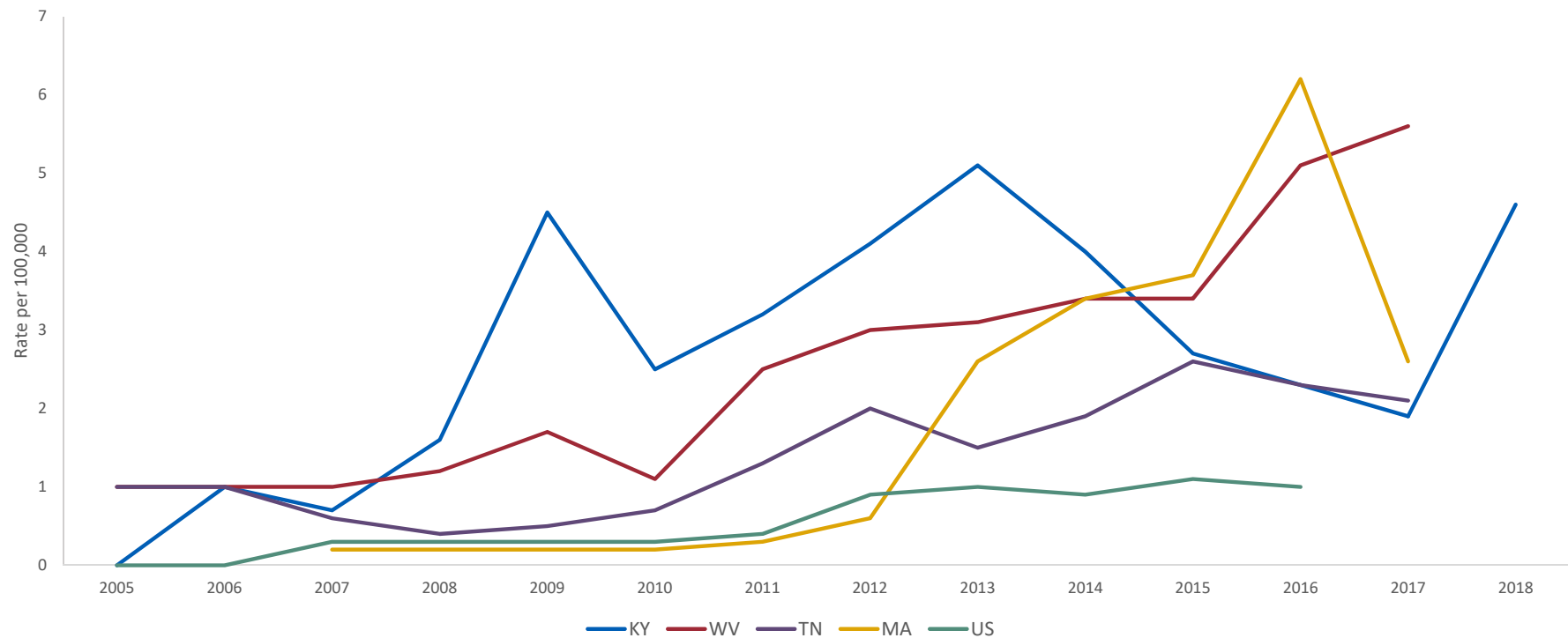
Rosenberg ES, Rosenthal EM, Hall EW, et al. Prevalence of Hepatitis C Virus Infection in US States and the District of Columbia, 2013 to 2016. JAMA Network Open. 2018;1(8):e186371. doi:10.1001/jamanetworkopen.2018.6371

# Reported Confirmed Acute Hepatitis C: Kentucky and US, 2005 - 2016



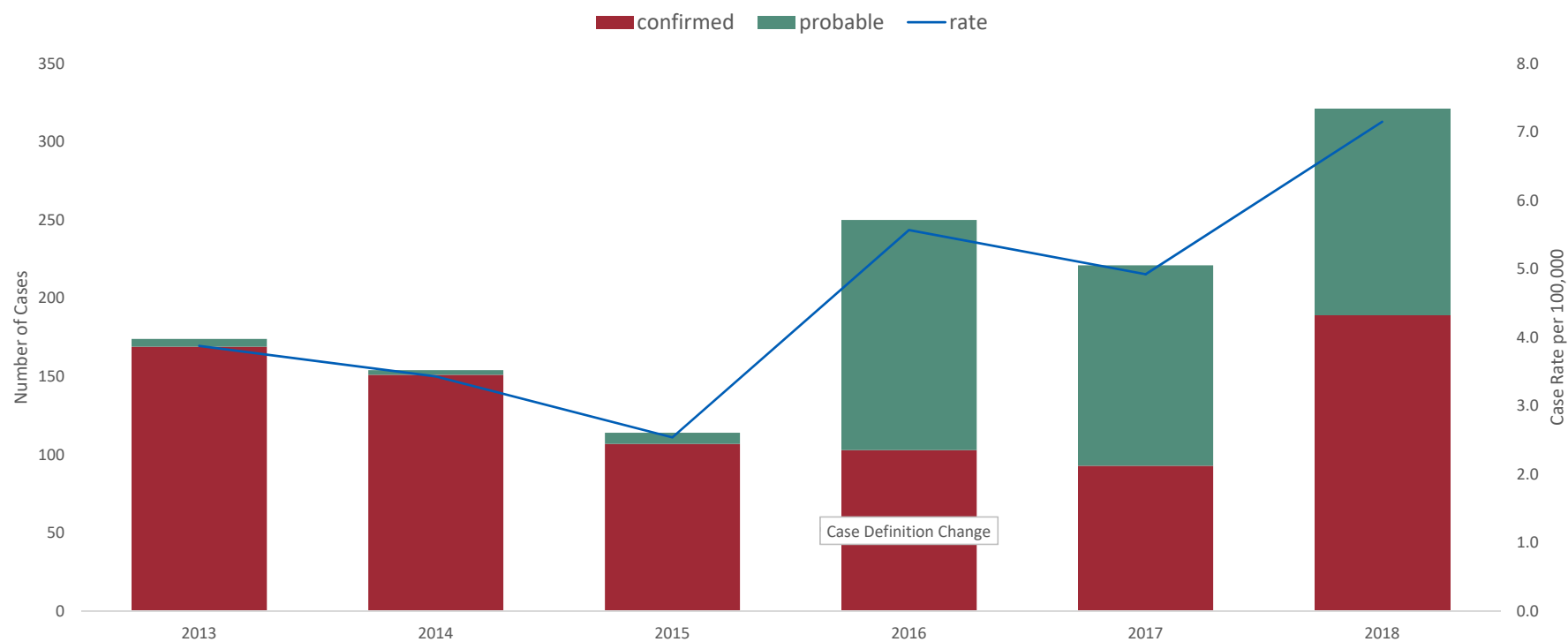
Surveillance for Viral Hepatitis – United States, 2016. Centers for Disease Control and Prevention.

# Reported Confirmed Acute Hepatitis C: Kentucky, US and High-Rate States, 2005 - 2018

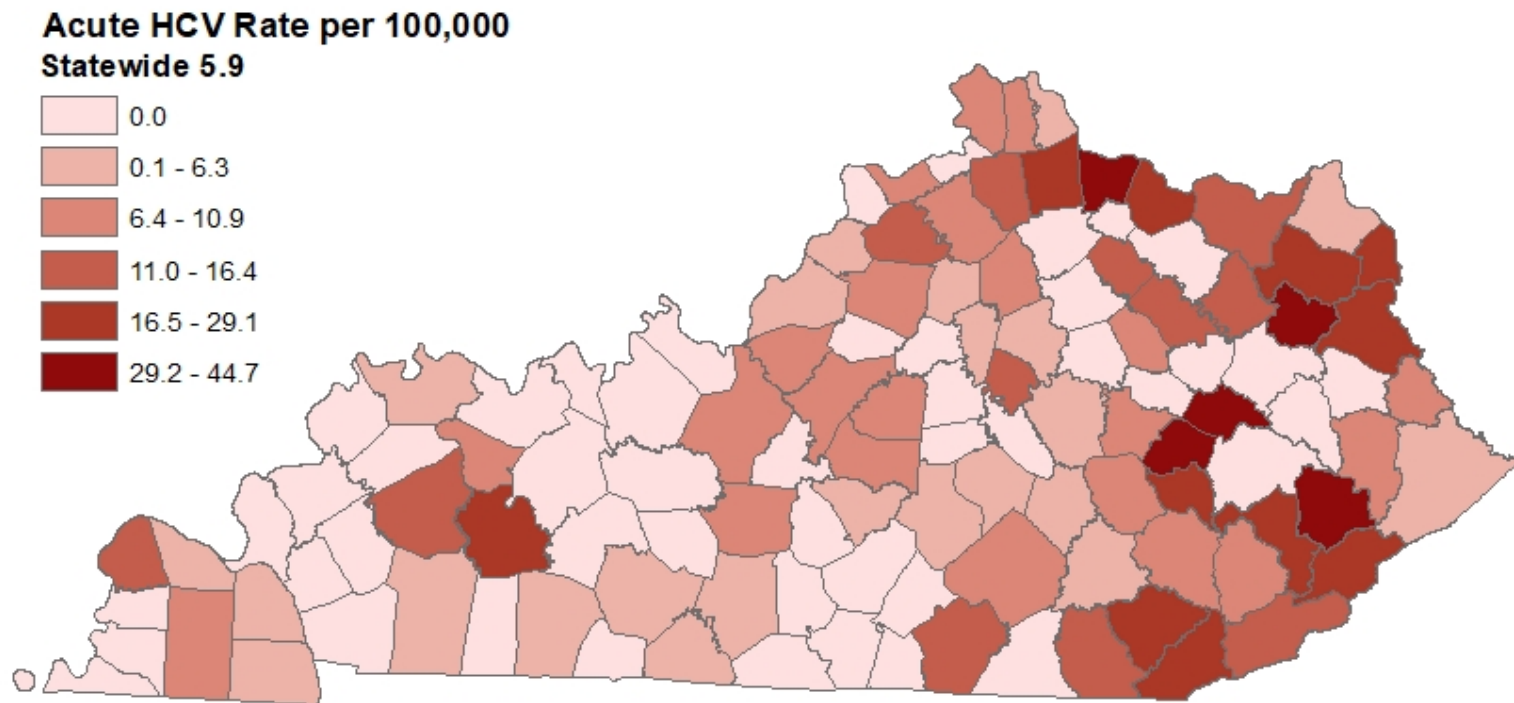


Surveillance for Viral Hepatitis – United States, 2016. Centers for Disease Control and Prevention.  
NEDSS  
West Virginia, Tennessee and Massachusetts Viral Hepatitis Programs

# Case Counts and Rates of Confirmed and Probable Acute HCV Infection, Kentucky 2013-2018



# Case Rates of Confirmed and Probable Acute HCV Infection by County, Kentucky, 2017



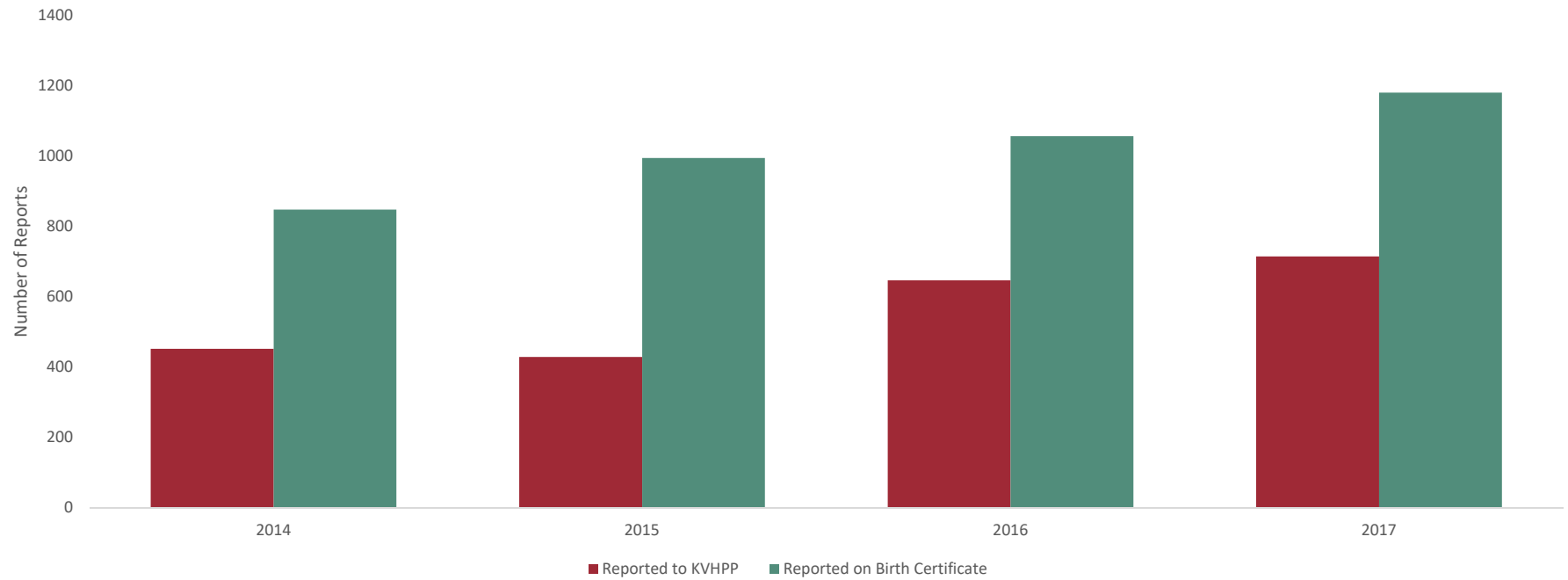


# Perinatal Hepatitis C

- 902 KAR 2:020 Reportable Disease Surveillance – amended February 2015
  - Hepatitis C infection in a pregnant woman
  - Hepatitis C infection in an infant or a child aged five years or less
  - Newborns born to Hepatitis C positive mothers at the time of delivery
- KRS 214.160 amended to establish that all pregnant women be tested for hepatitis C and recommend testing for children born from a pregnant woman who has a positive hepatitis C test result – July 2018

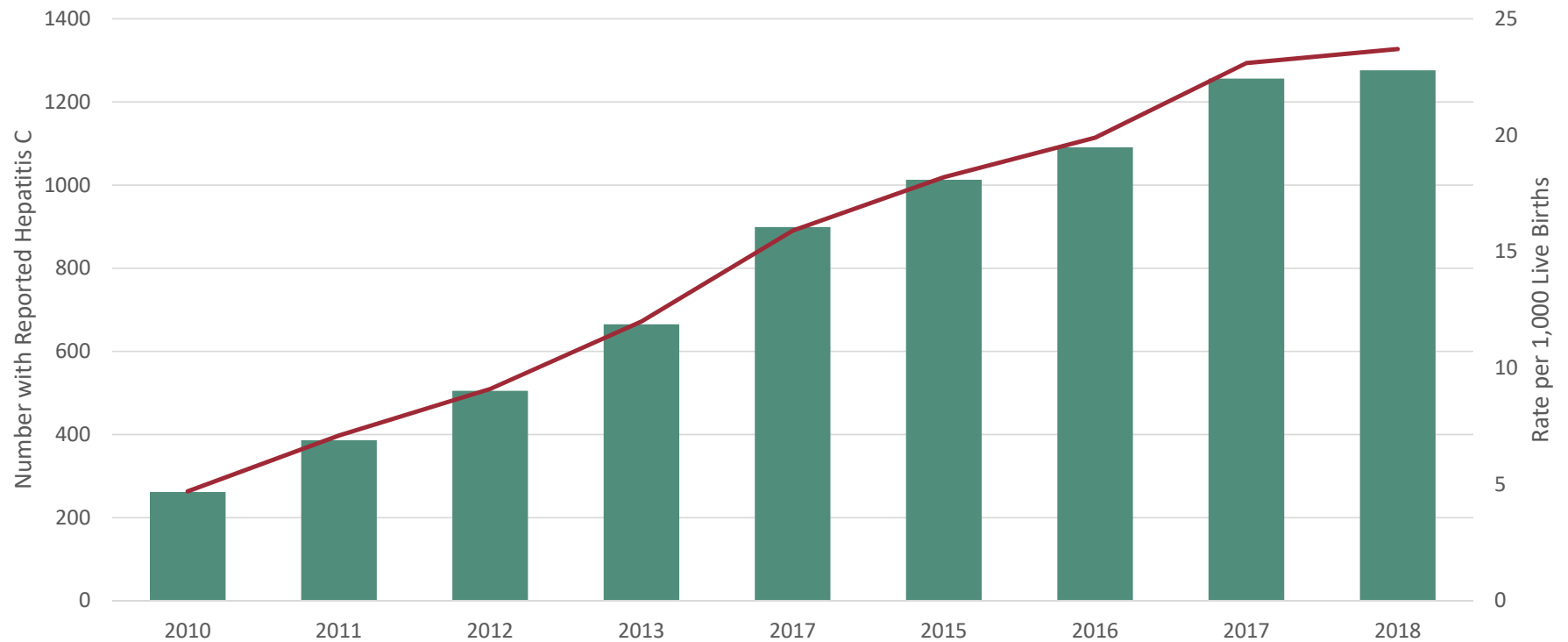
# Perinatal Hepatitis C Reporting Discrepancy

Hepatitis C Reports for Pregnant Women and Mothers in Kentucky by Reporting Source



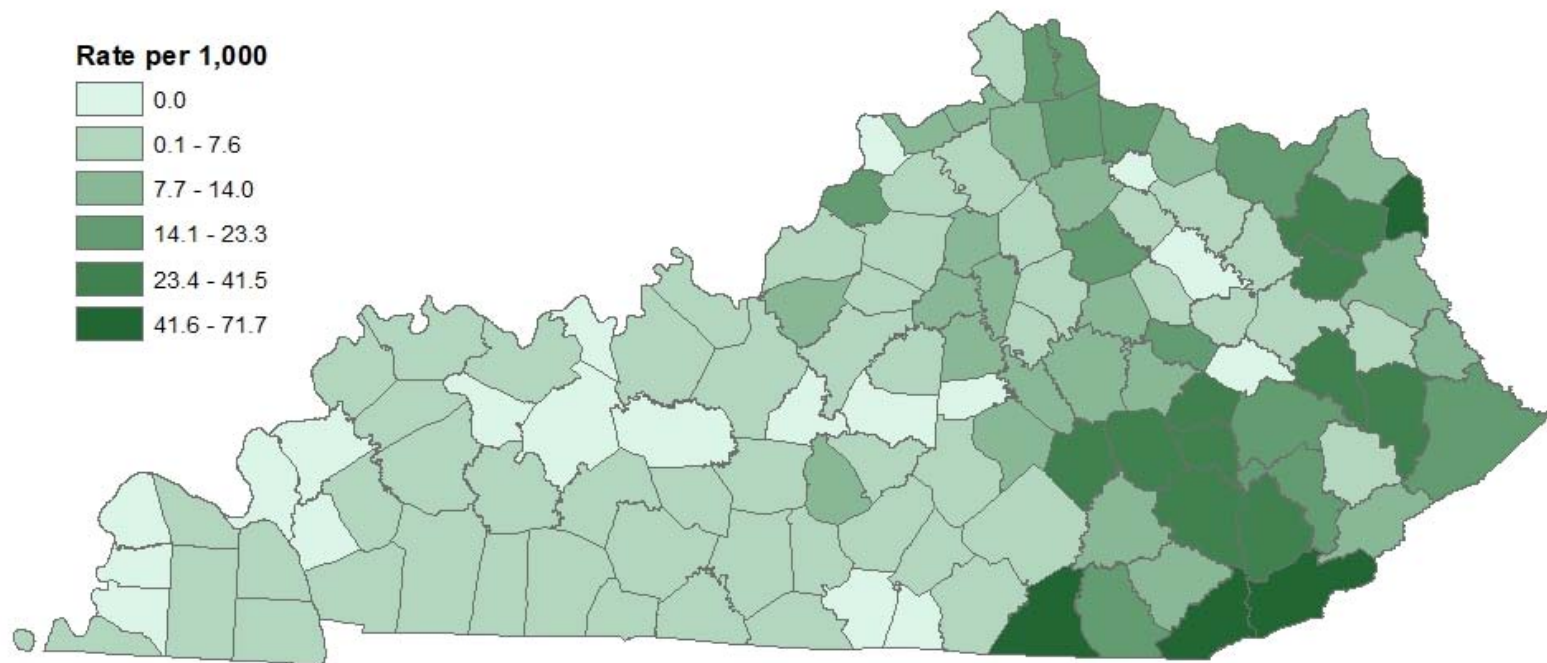
Perinatal Reports received by the Viral Hepatitis Program  
Hepatitis C Infection reported on Birth Certificate - Kentucky's Office of Vital Statistics

# Reported Hepatitis C Status of Mother among Kentucky Resident Births, 2010 - 2018



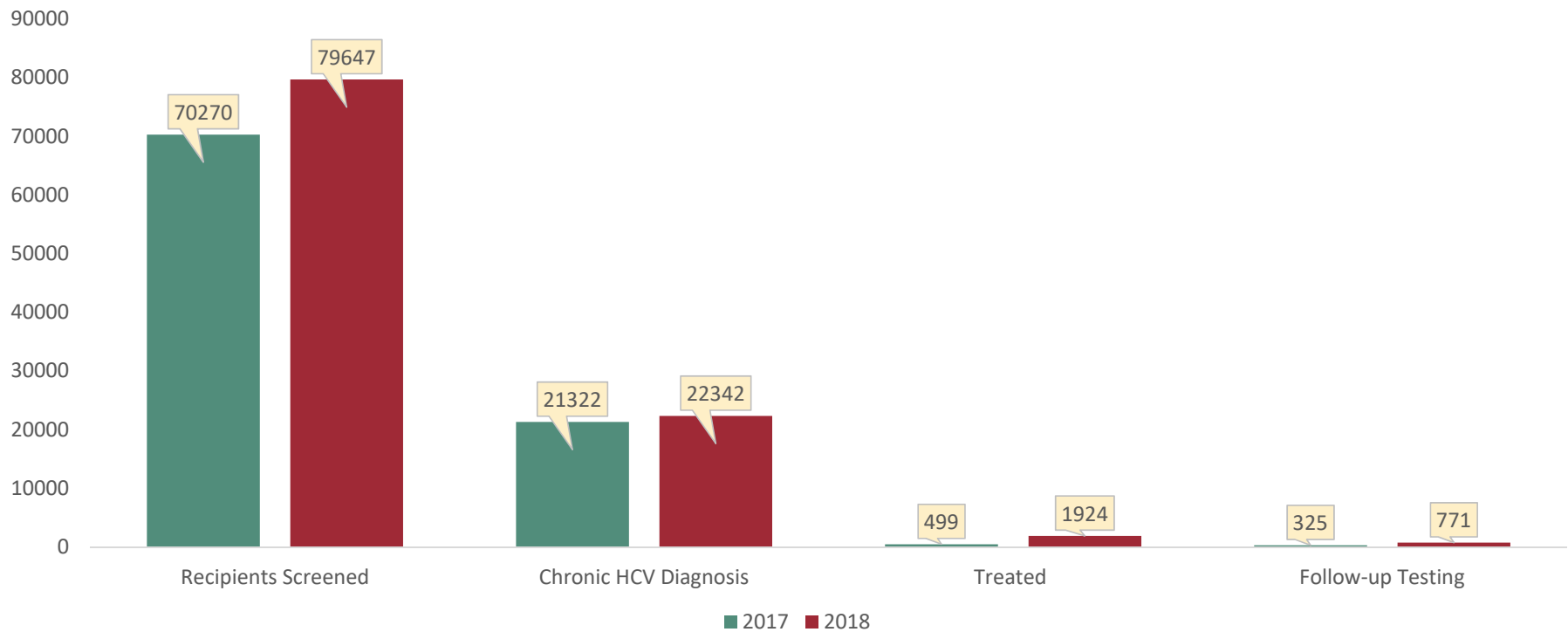
Hepatitis C Infection reported on Birth Certificate - Kentucky's Office of Vital Statistics

# Rate of Hepatitis C Infection among Pregnant Women per 1,000 Live Births, by County – Kentucky 2014-2016



Perinatal Reports received by the Viral Hepatitis Program  
Birth Certificate Records - Kentucky's Office of Vital Statistics

# Medicaid Recipients Tested and Treated for Hepatitis C, 2017 and 2018



# Electronic Laboratory Reporting

- 902 KAR 2:020 Reportable Disease Surveillance – amended October 1, 2016
- Hepatitis C laboratory tests results reportable, whether positive or negative
- Reported through the Kentucky Health Information Exchange (KHIE)
- Flows through National Electronic Disease Surveillance System (NEDSS)

# Electronic Laboratory Reporting

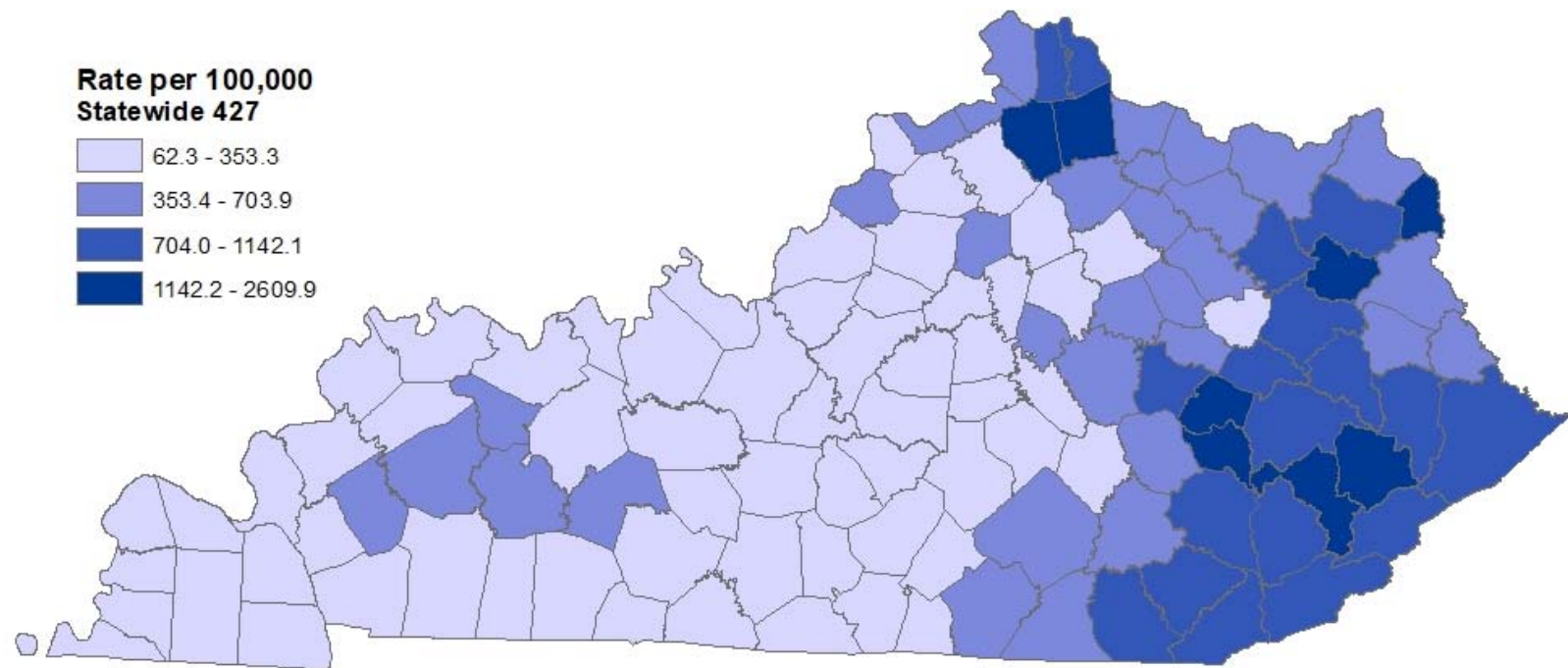
## OPPORTUNITIES

- Identify acute cases
- Identify gaps in confirmation testing
- Estimate prevalence
- Cascade of cure
- Reinfection

## LIMITATIONS

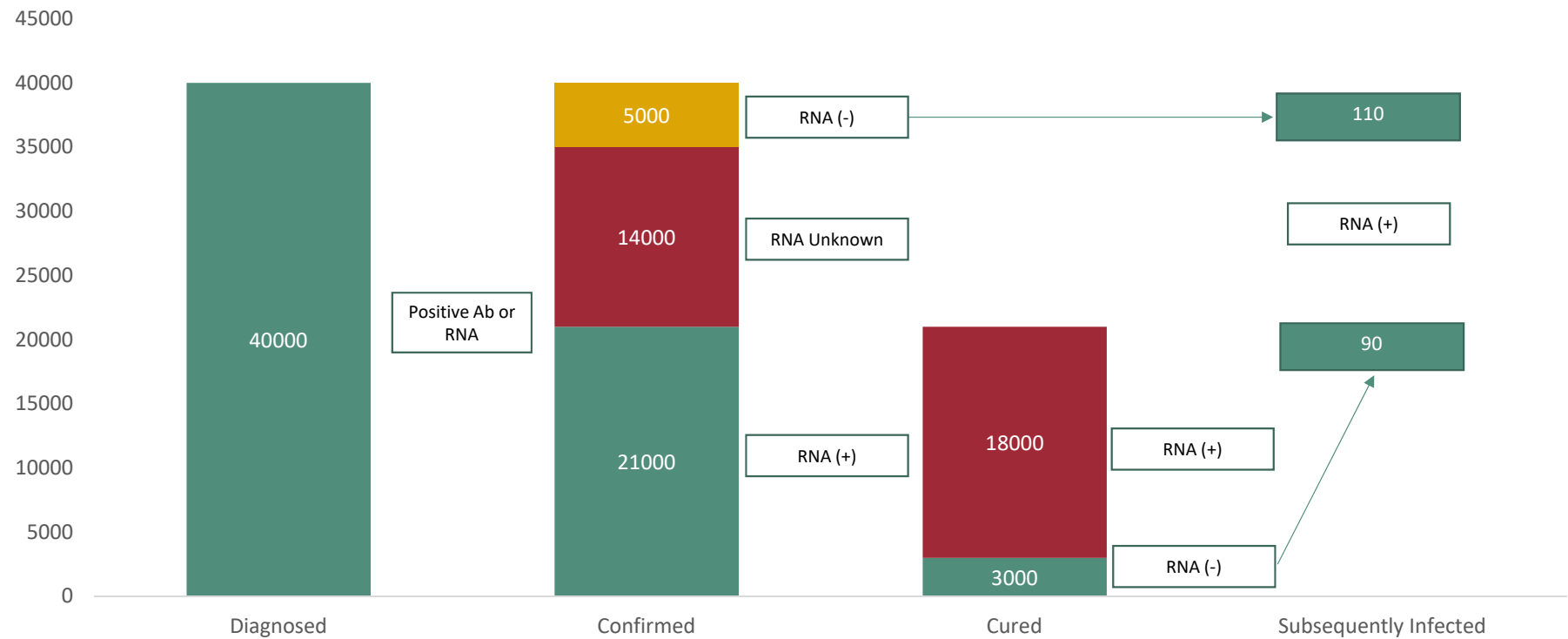
- Not all labs onboarded at once
- KHIE switched vendors – silent period
- Volume and capacity
- IT infrastructure

# Positive Confirmatory Hepatitis C Virus Results by County, January 2017 – June 2019





# Cascade of Cure – Goal of ELR EXAMPLE



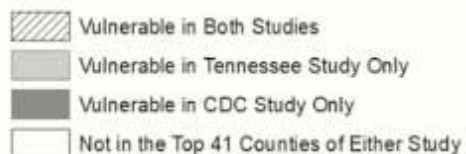
# CDA Foundation

- Non-profit specializing in the study of complex and poorly-understood diseases in order to provide countries with data and information to create and implement successful elimination strategies
- ASTHO funded
- Disease burden modeling for HCV in Kentucky
  - Viremic Infections
  - New HCV Infections
  - Continuum of Cure

# Vulnerability Assessment – Tennessee Example



### 41 Most Vulnerable Counties by Study



# Behavioral Risk Factor Surveillance System

- Hepatitis Module added to the 2019 Kentucky BRFSS Questionnaire
- Module created by CDC Division of Viral Hepatitis
- Hepatitis C
  - Told by Provider
  - Treated 2015 or later
  - Treated before 2015
  - Current infection
- Hepatitis B
  - Told by provider
  - Currently on treatment

# Thank you!

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**QUESTIONS?**



**Kentucky Public Health**  
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