

Call for Action: Hepatitis C in West Virginia

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Objectives

- Describe the epidemiology of Hepatitis C in WV
- Review Hepatitis C investigation and reporting in WV
- Describe Hepatitis C prevention and control efforts in WV

Facts about Hepatitis C

- Hepatitis C virus (HCV) infection is the most common chronic blood-borne infection in the United States
- An estimated 3.2 million persons are chronically infected
- Infection is most prevalent among those born during 1945-1965
- No vaccine against HCV infection exists

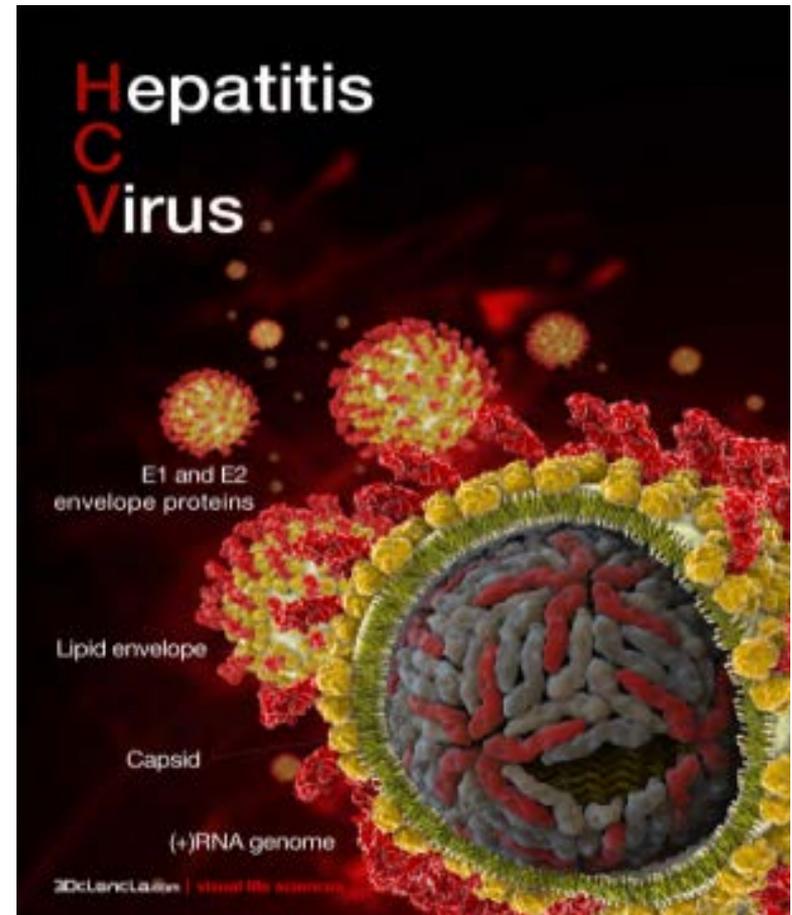
Ref :CDC

Hepatitis C virus infection

- **Acute Hepatitis C virus infection**
- **Past/Present infection (Chronic Hepatitis C virus infection)**

Etiology

- **Etiologic Agent** - RNA virus -genus (Hepacivirus) in the Flaviviridae family



Reservoir and Transmission

- **Reservoir** - found only in humans
- **Mode of Transmission** -transmitted by the parenteral route

Injection drug use is the most common means of transmission

HCV can also be spread **infrequently** through:

- Sex with an HCV-infected person
- Sharing personal items contaminated with infectious blood, such as razors or toothbrushes
- Health care procedures that involve invasive procedures
- Unclean tattooing and body piercing

Incubation and Infectious Periods

- **Incubation Period** – 2 wks to 6 months; average 45 days
- **Infectious Period** – 2 wks after exposure for an indefinite period of time

Hepatitis C Surveillance

WV

WV Legislative Rule 64-CSR-7 (Reportable Disease Rule)

Reportable Condition	WHO Reports	WHO to Report	WHEN to Report
Hepatitis C, Acute	Health Care Providers	WVDHHR	Within 1 week
Hepatitis C, past/present	Laboratories	WVDHHR	Within 1 week

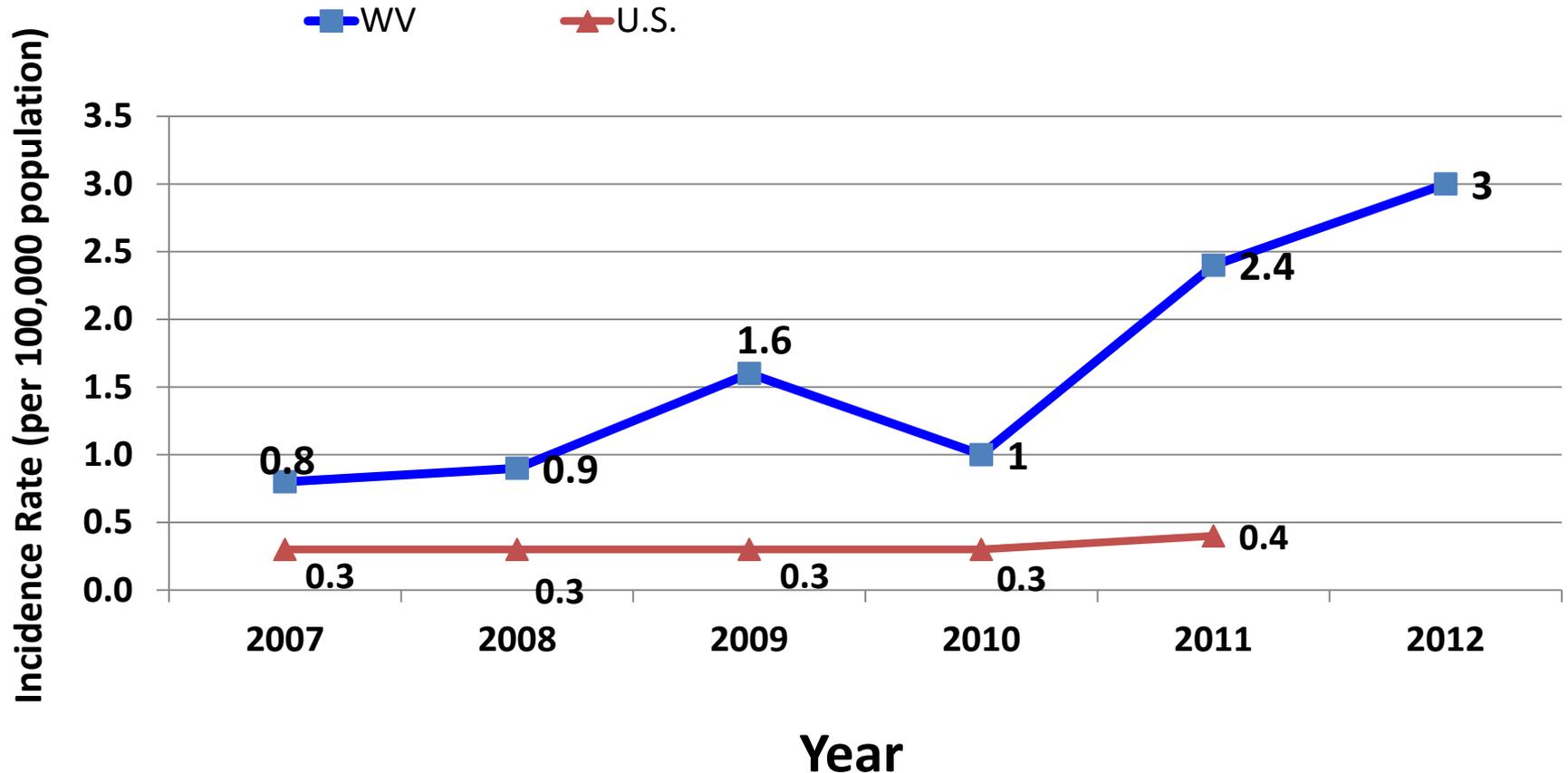
Case Investigation

Activity	Acute Hepatitis C Infection	Past or Present HCV Infection
Case Investigation	Yes, local health	No
Case Definitions	CDC	CDC
Type of Data	Clinical, lab, epidemiologic information	Laboratory information
Surveillance Systems	WVEDSS	WVEDSS
Data collection	Paper reporting- entered by LHD into WVEDSS; Electronic reports in few months	Paper reporting; Electronic reports in few months
Data Access	WVEDSS reports	WVEDSS reports

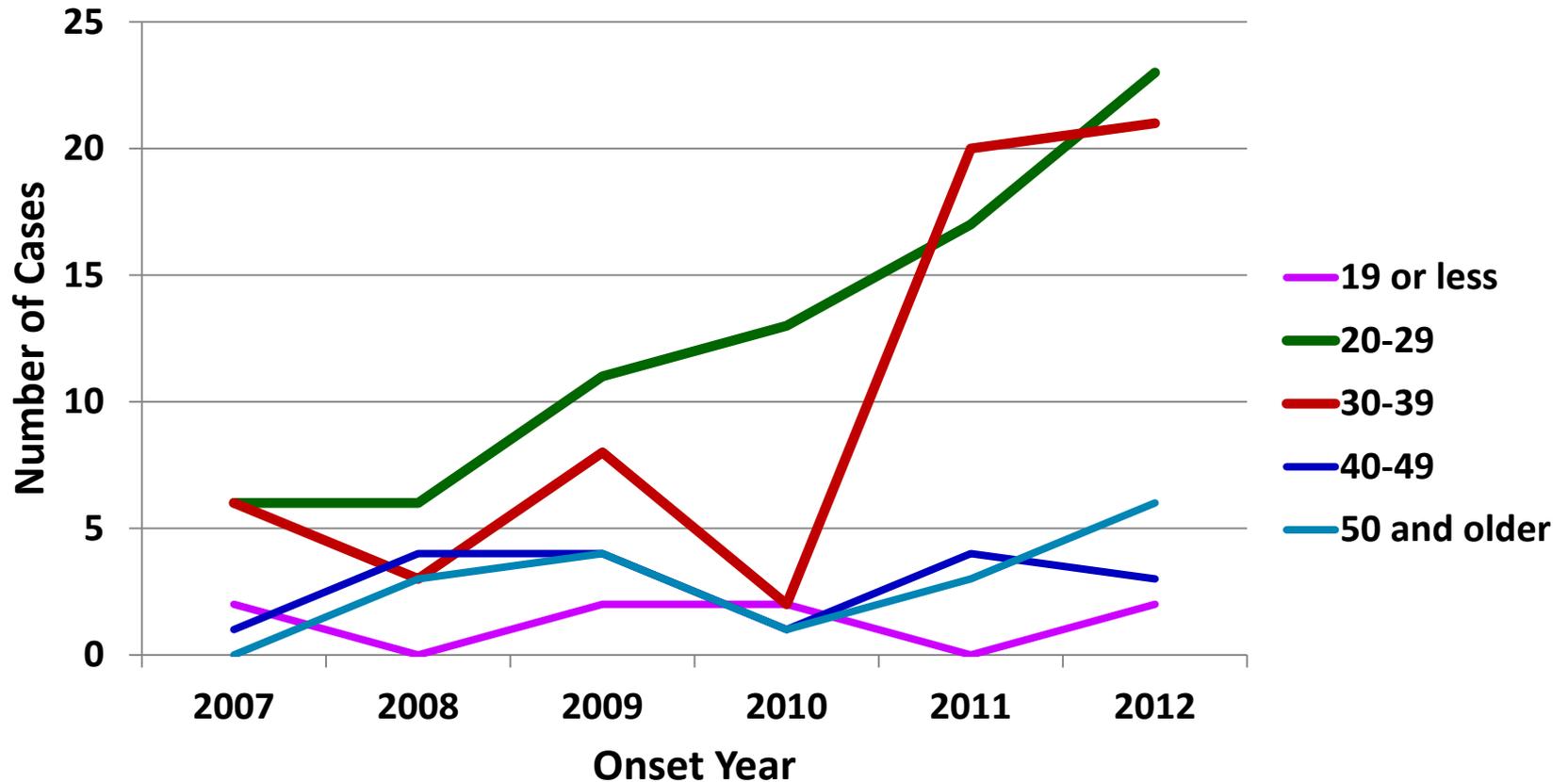
Descriptive Epidemiology

- 15 to 55 cases of acute HCV in WV (2007-2012)
- In 2011, WV had the 2nd highest incidence of acute HCV in the Nation.

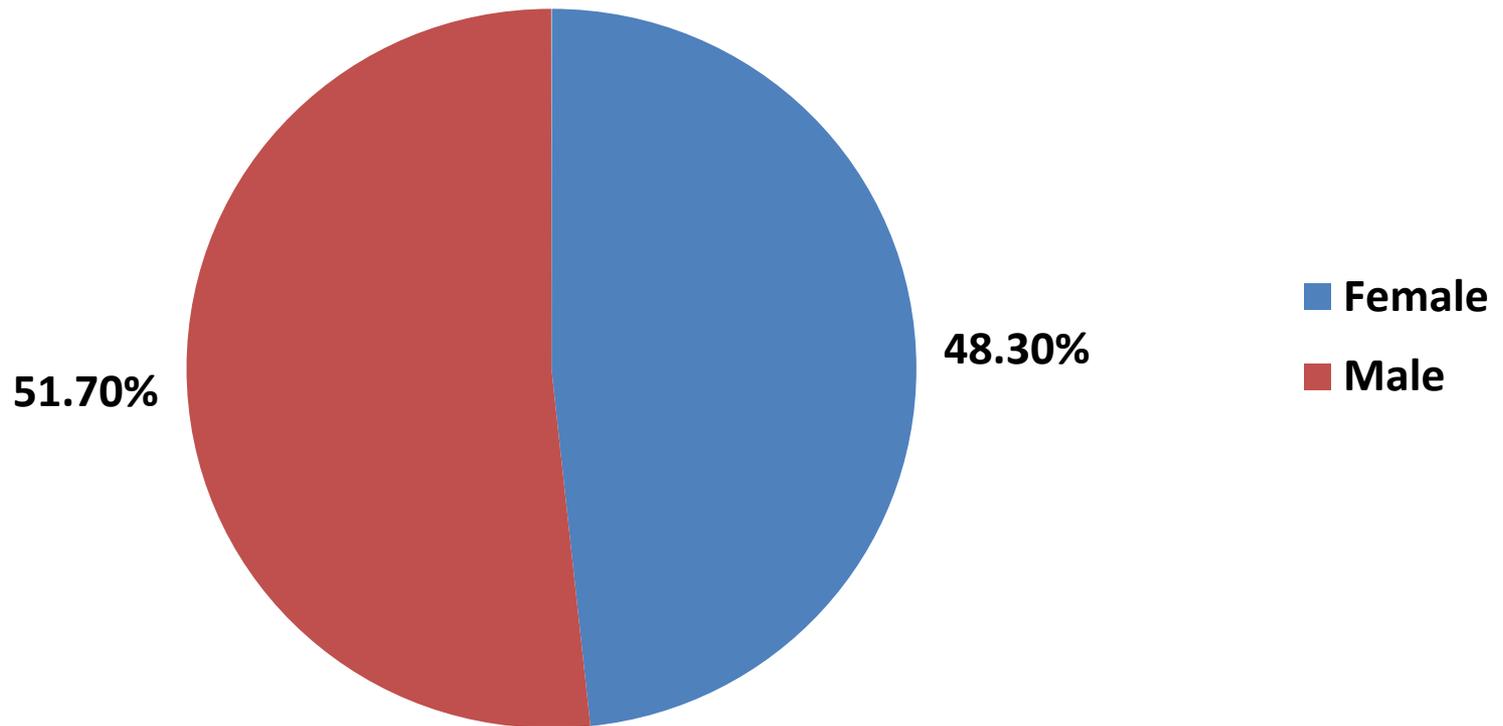
Incidence of acute Hepatitis C in WV (n=178) and in the US (2007-2012)



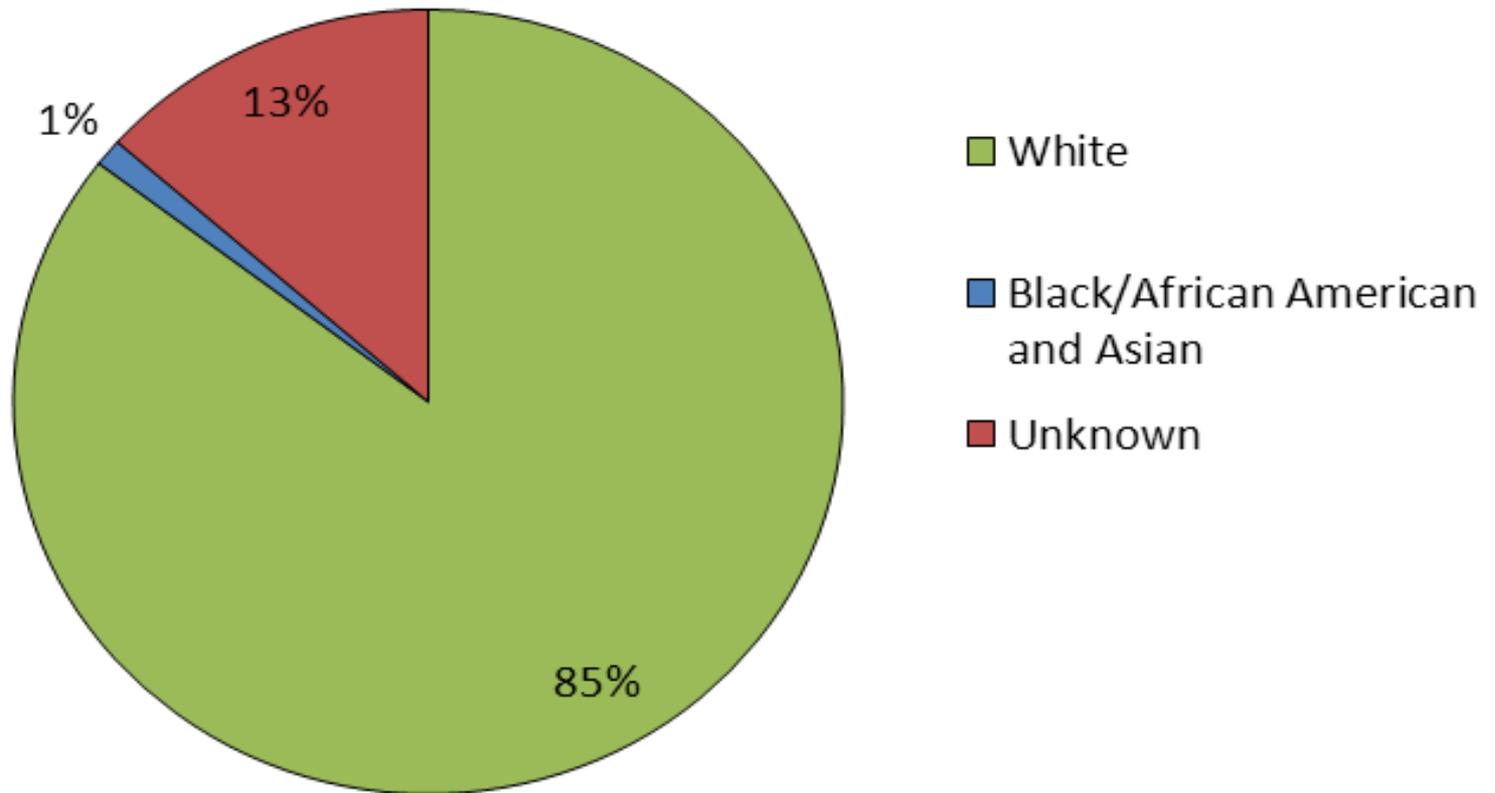
Acute Hepatitis C, by age group and onset year, West Virginia, 2007-2012 (n=178)



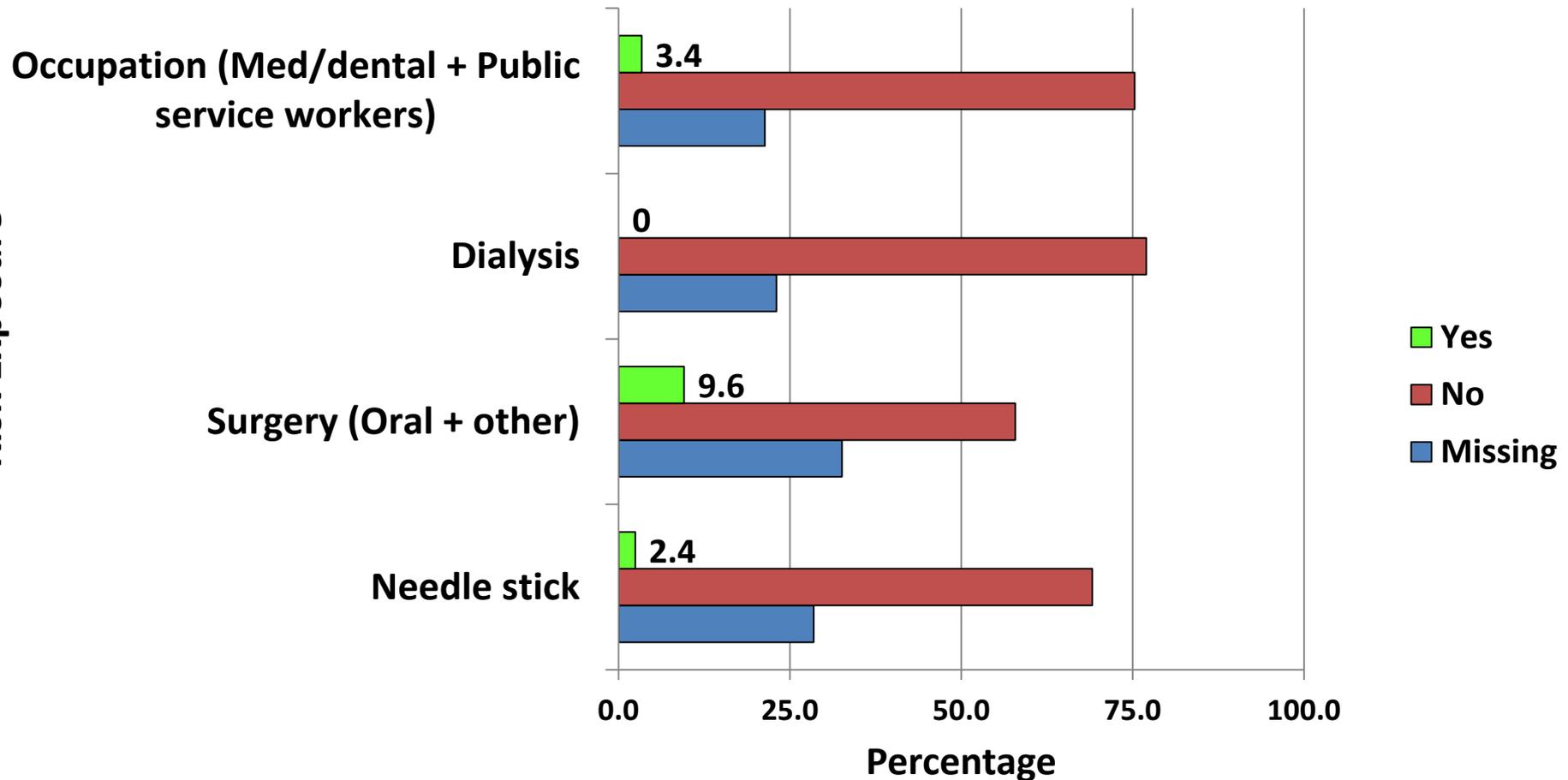
Acute Hepatitis C by gender, WV, 2007-2012 (n=178)



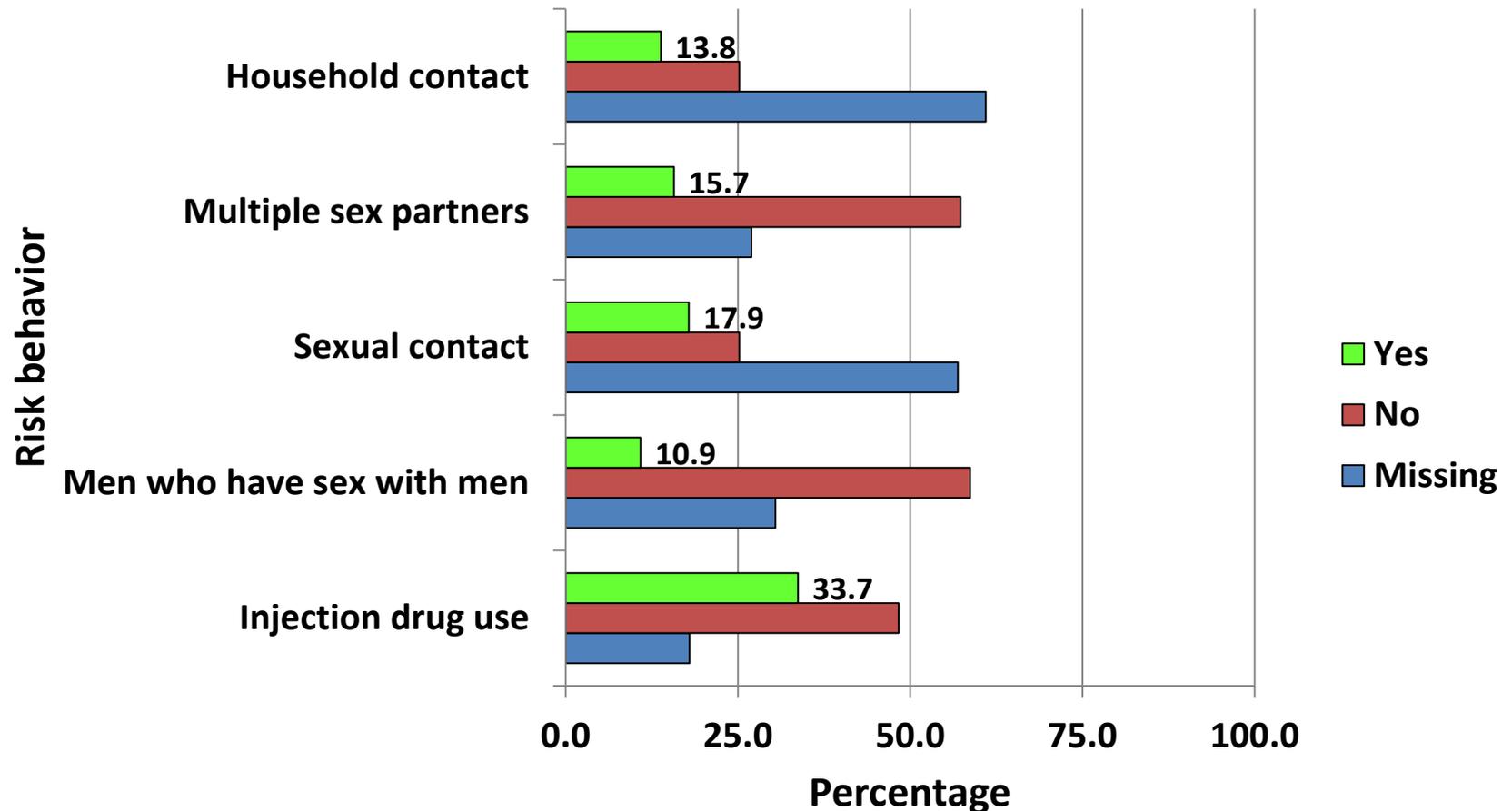
Acute Hepatitis C by race, WV, 2007-2012 (n=178)



Acute Hepatitis C reports, by reported risk exposure — WV, 2007-2012



Acute Hepatitis C reports, by reported risk behavior — WV, 2007-2012



Acute hepatitis C cases by county of residence, WV, Year of Onset 2007-2012 (n=178)

County of Residence	Number of Cases	% of Total
Logan	5	2.8%
Jefferson	6	3.4%
Kanawha	6	3.4%
Wyoming	9	5.1%
Raleigh	30	16.9%
Mercer	55	30.9%
Remaining Counties	67	37.6%
Total	178	100.0%

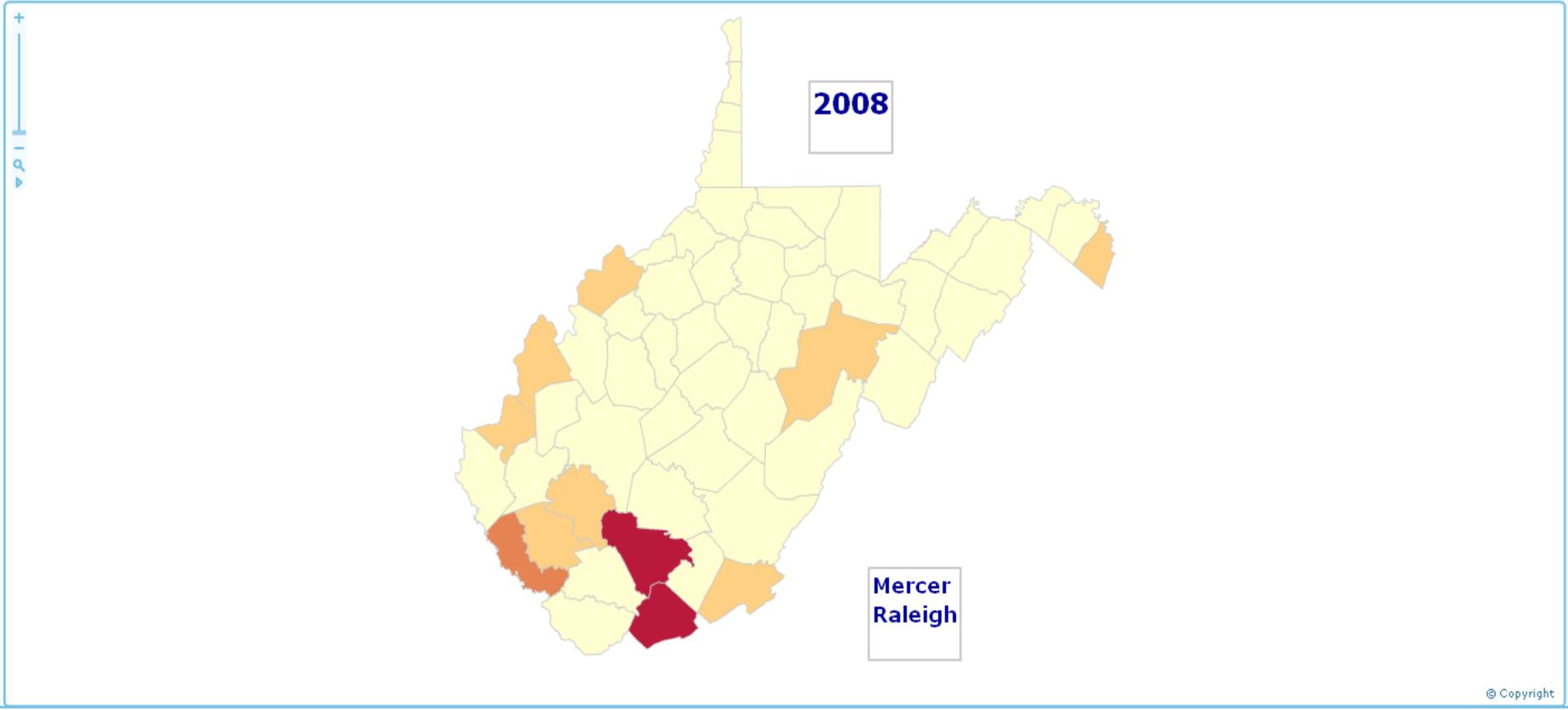
West Virginia Infectious Disease Surveillance 2007 - 2013

(Data Last Updated: October 24, 2013)



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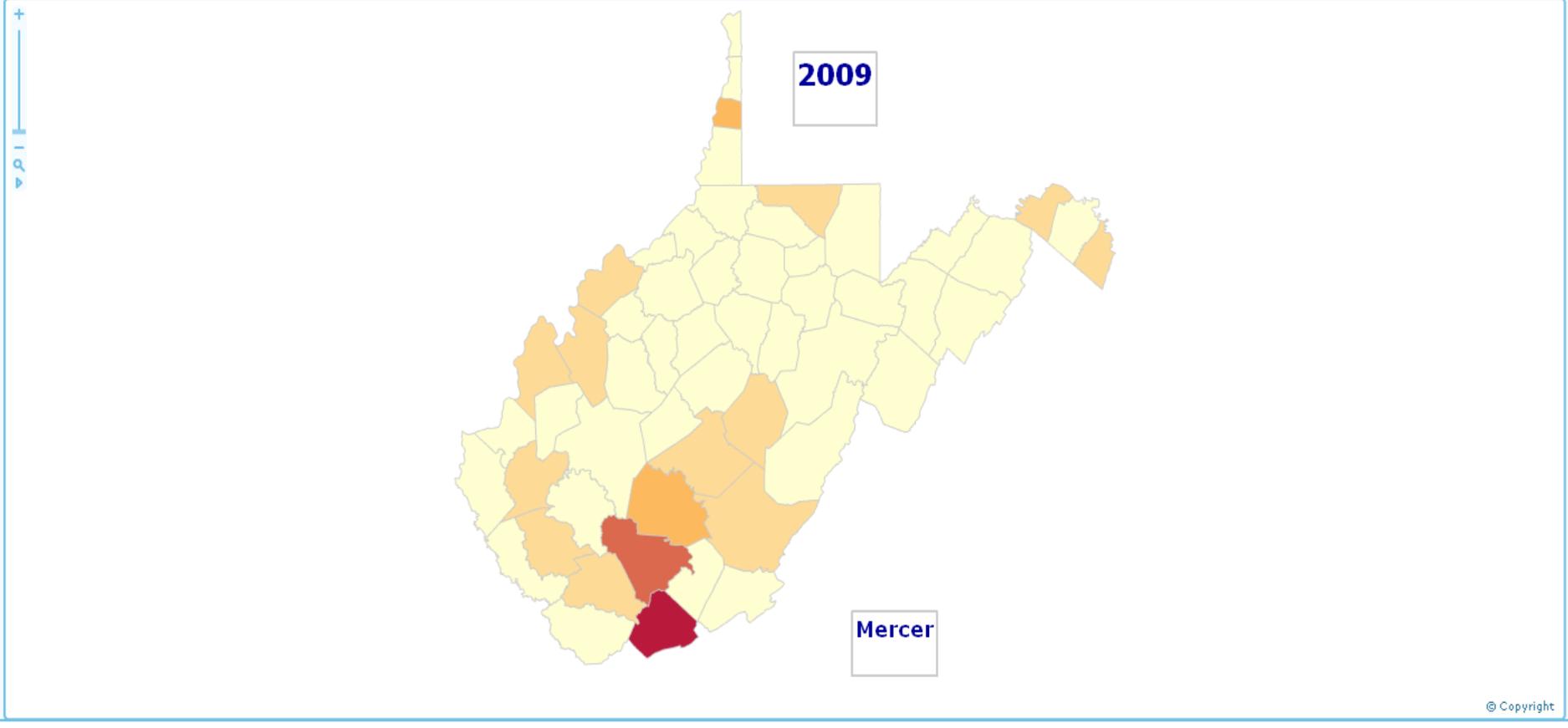
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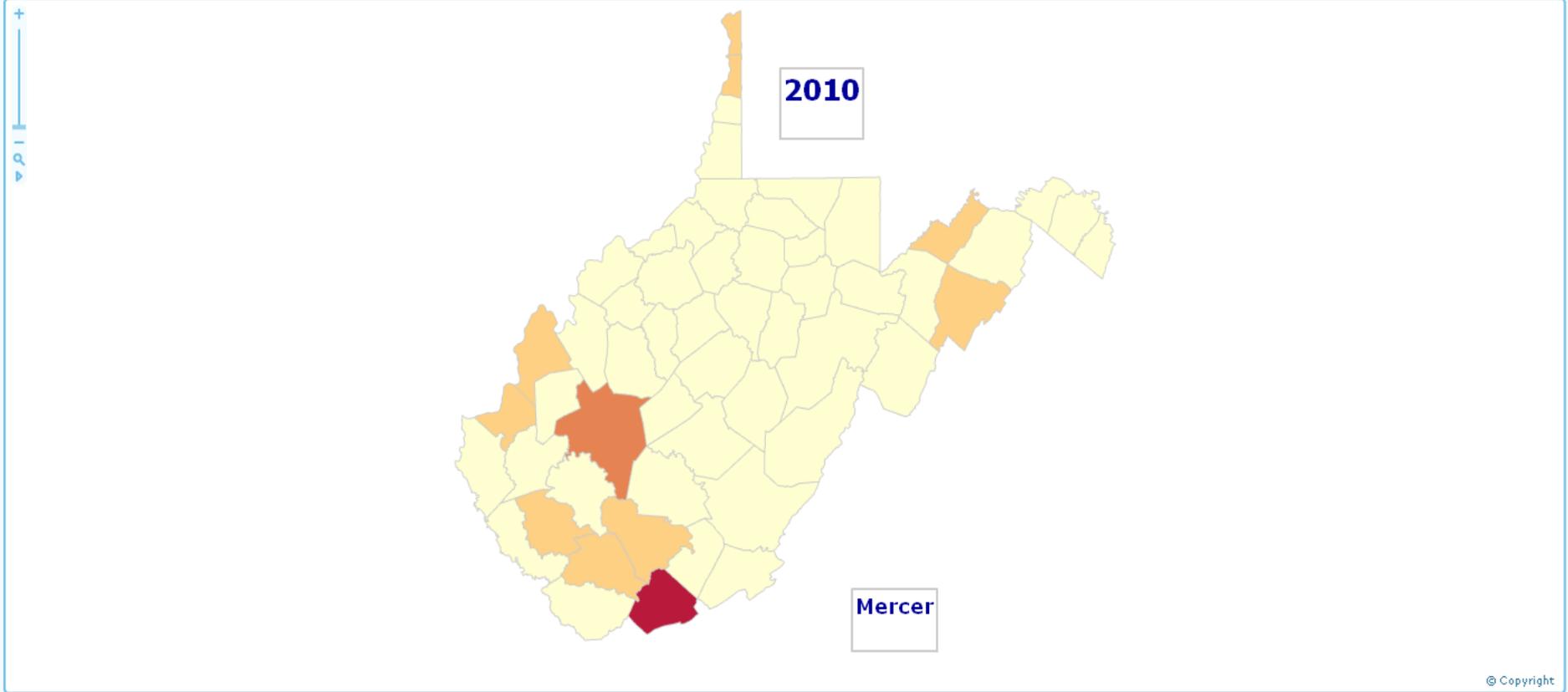
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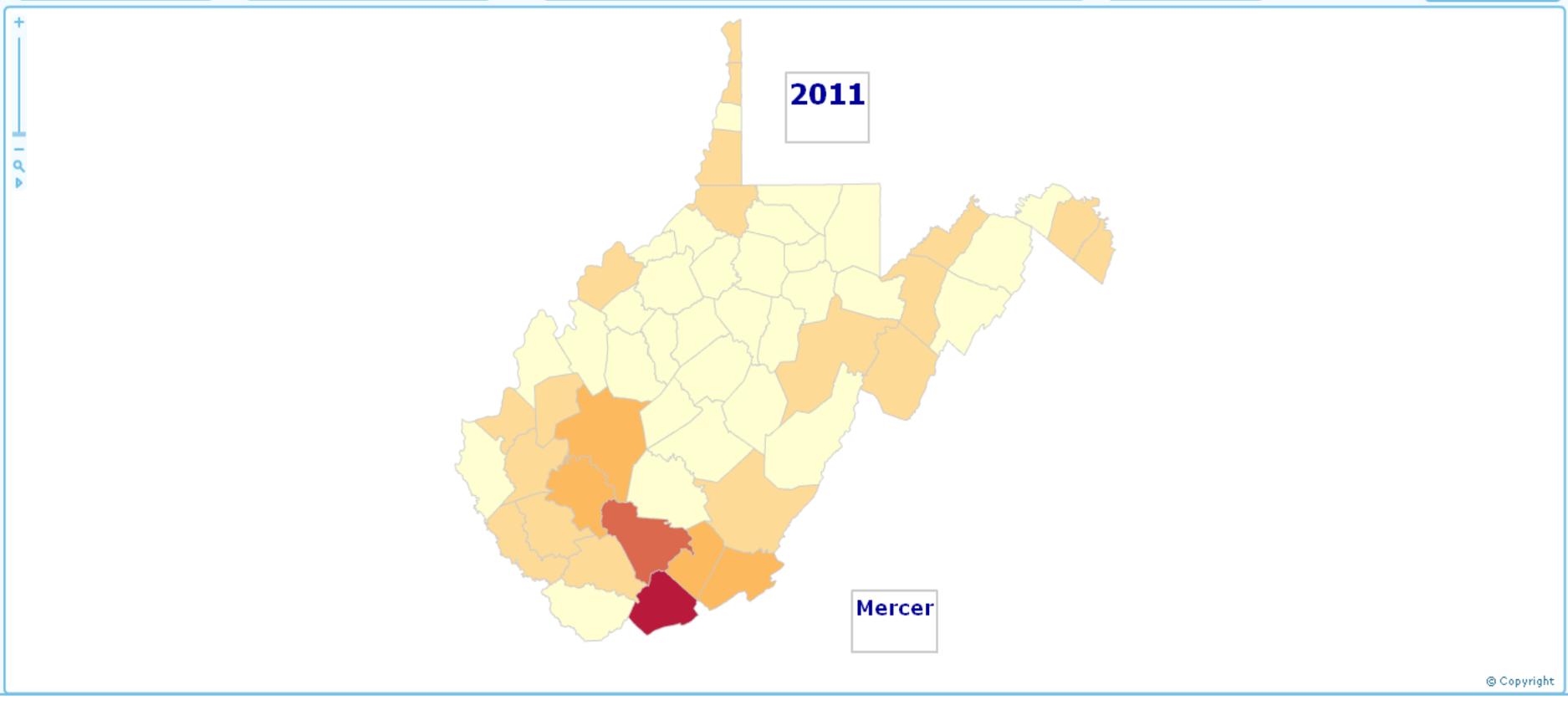
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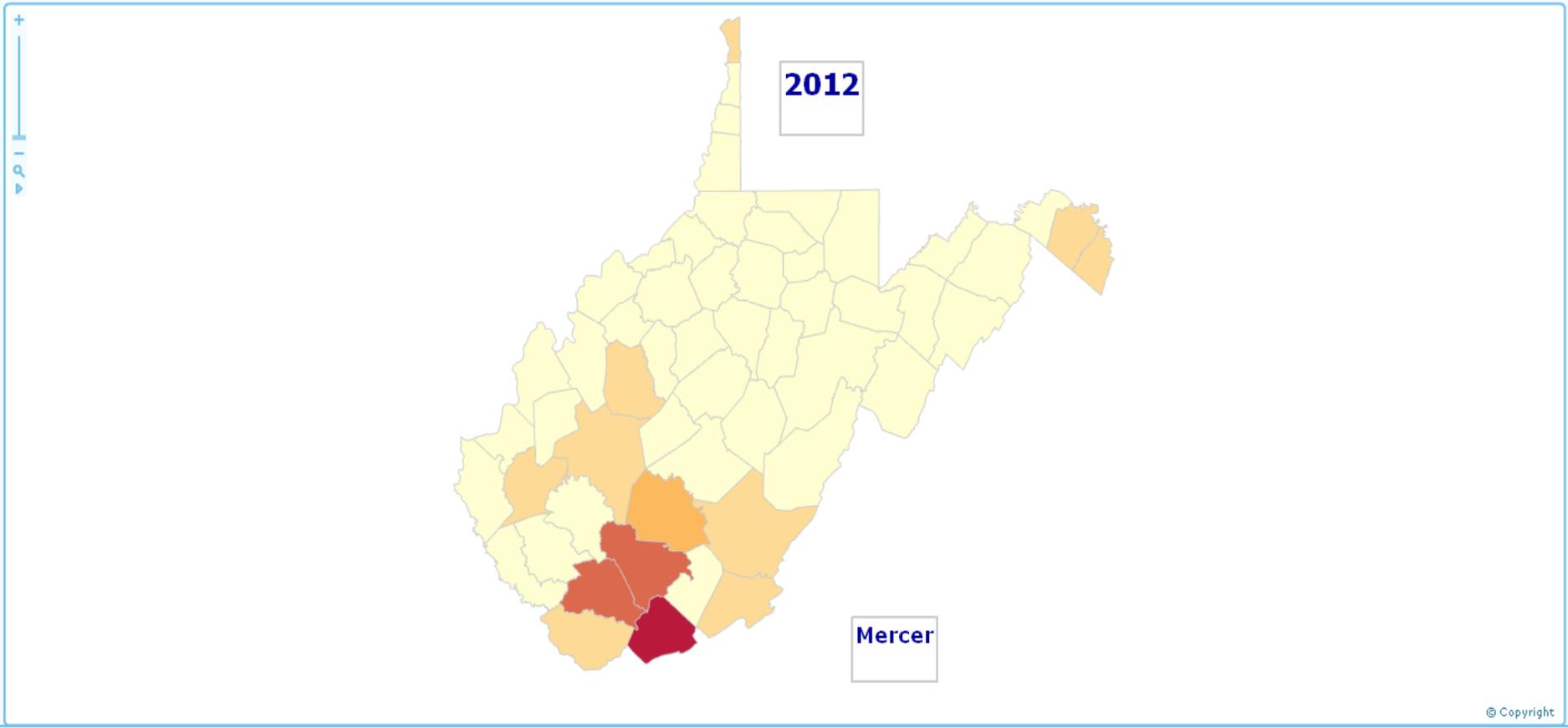
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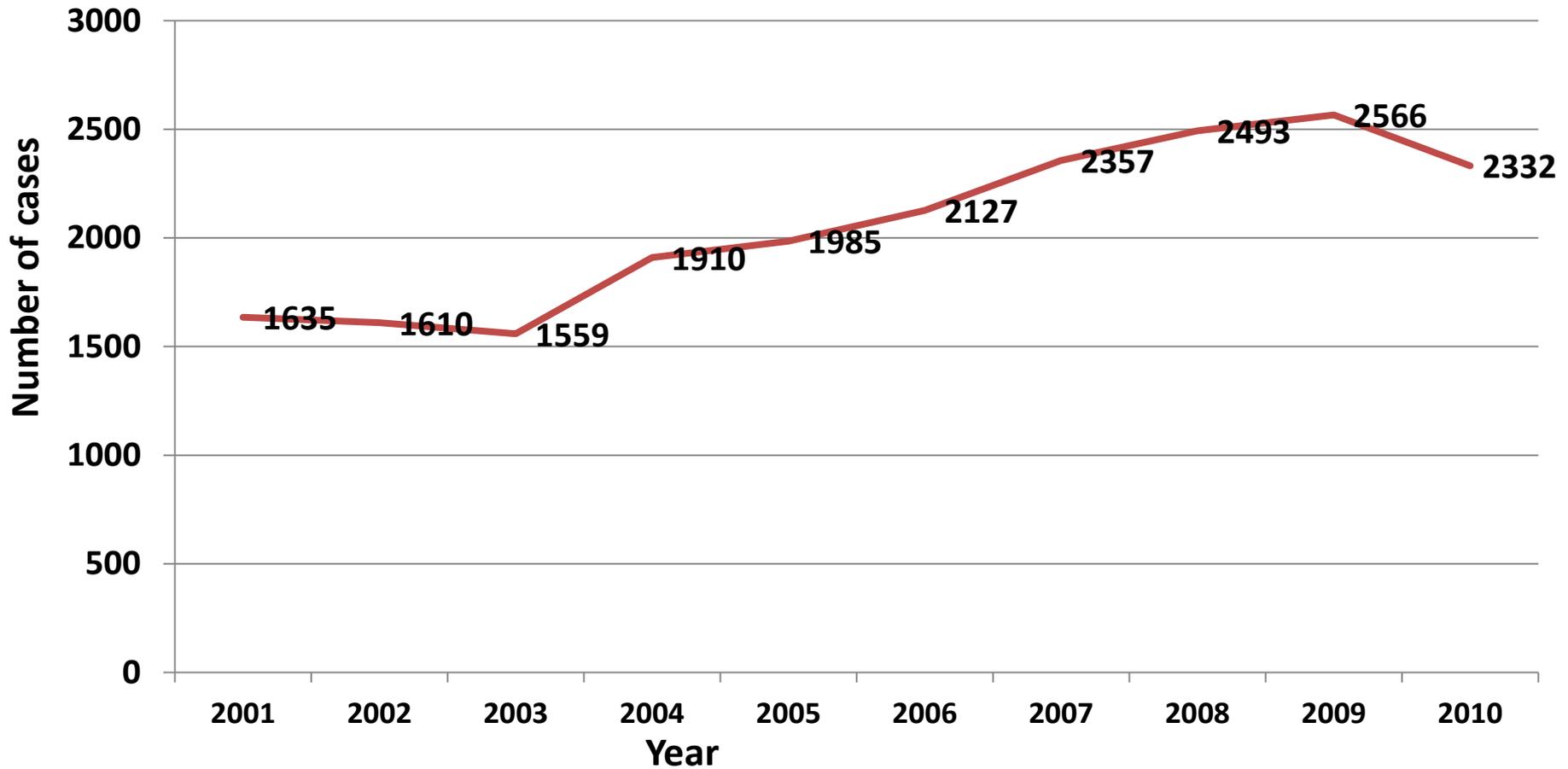
FAQ

Help

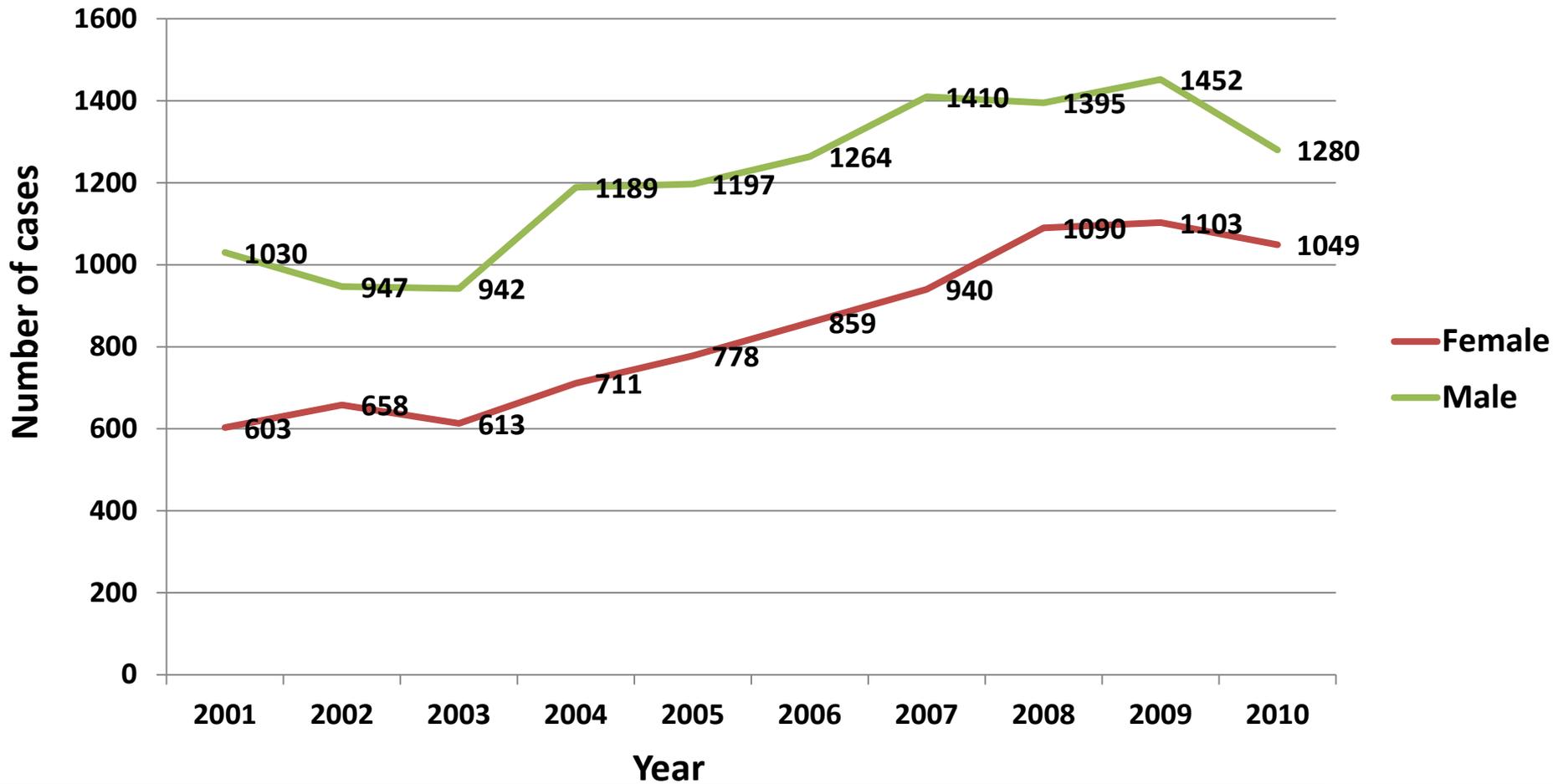


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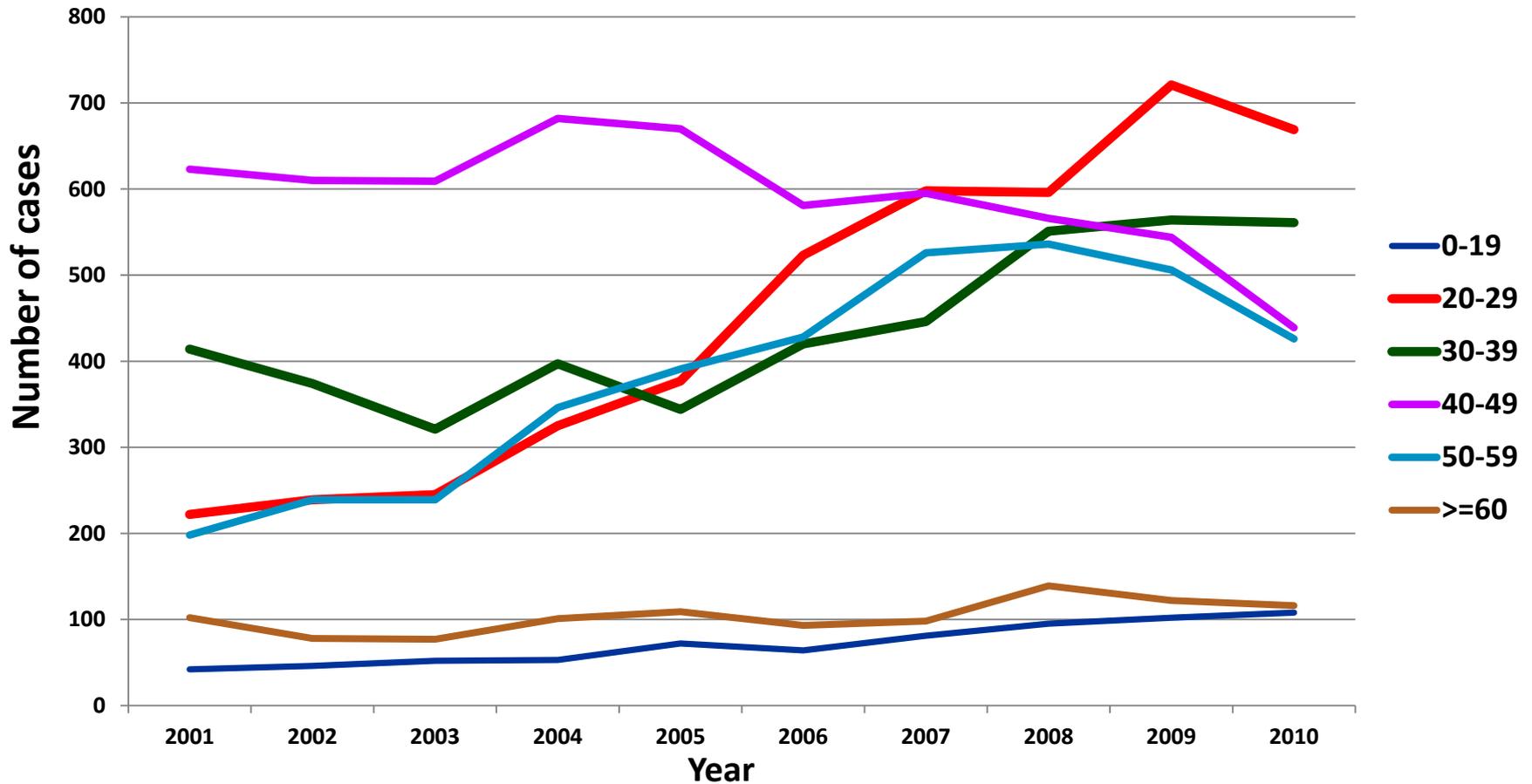
Reported number of Past/Present Hepatitis C cases - WV, 2001–2010 (n=20,574)



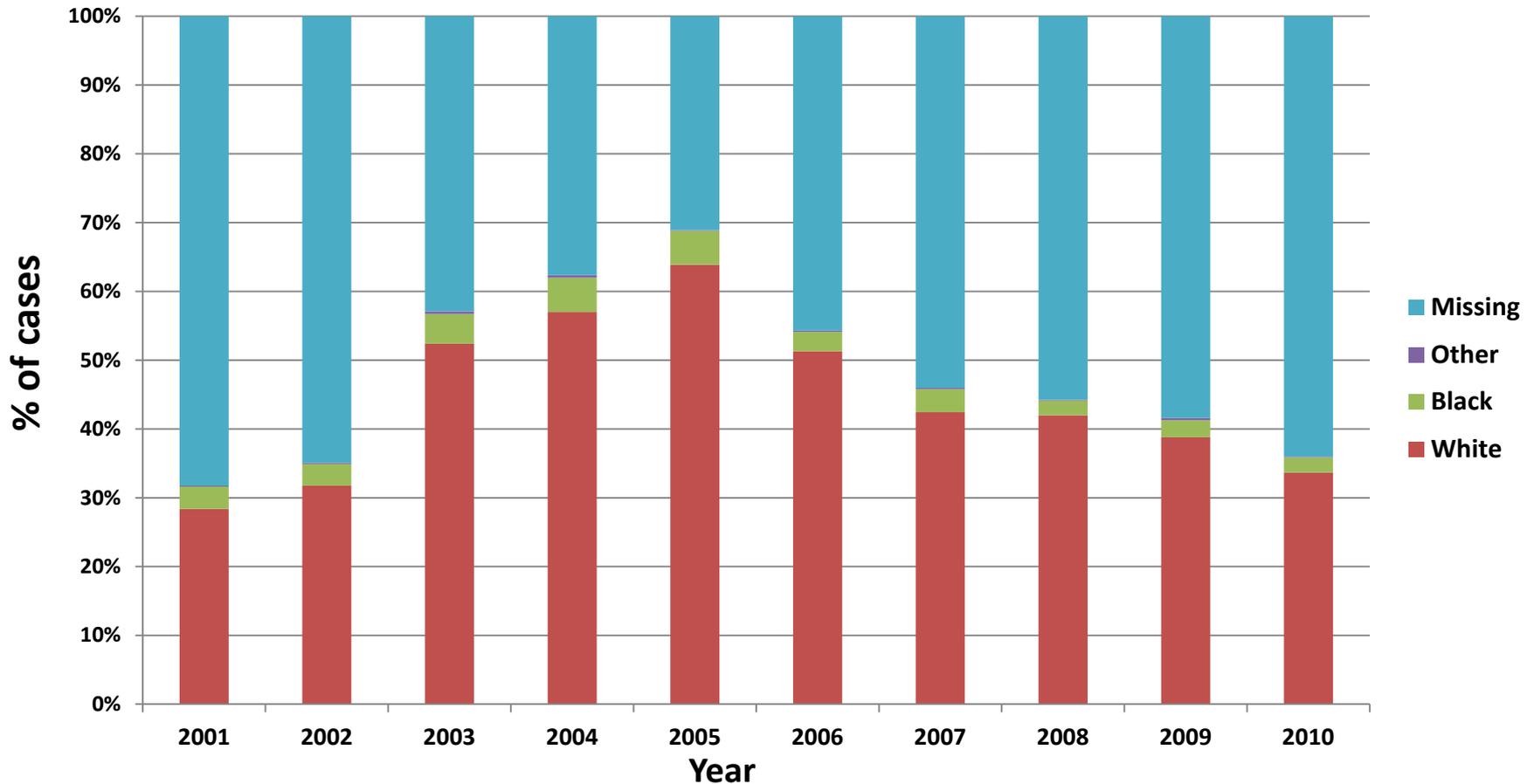
Past/Present Hepatitis C cases, by gender -WV, 2001–2010



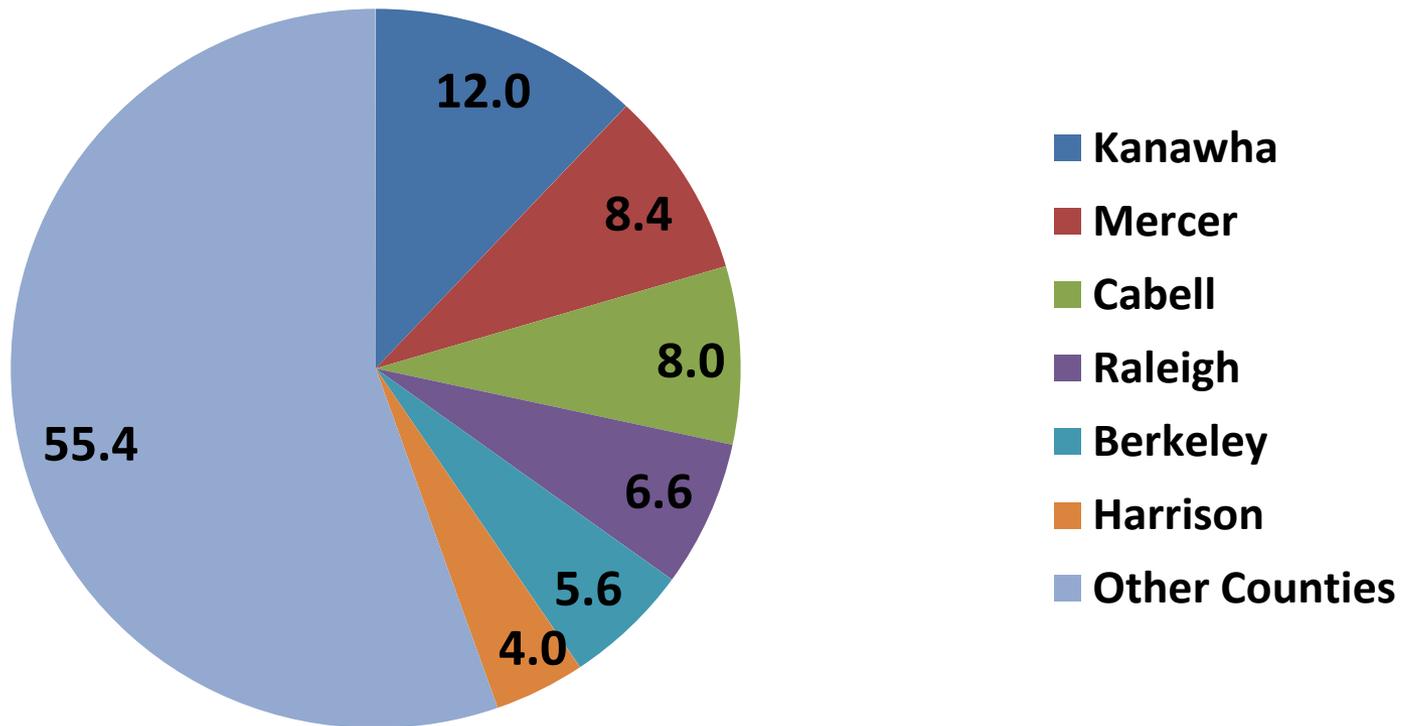
Past/Present Hepatitis C cases, by age group - WV, 2001–2010 (n=20,574)



Past/Present Hepatitis C cases, by race -WV, 2001–2010



Past/Present Hepatitis C cases by county of residence, WV, Report year 2001-2010



Disease Prevention and Control

- 1) Reduce the incidence - through community education and programs to prevent drug use, sharing of personal items such as razors, toothbrush, drug paraphernalia
- 2) Prevent nosocomial transmission - through effective infection control measures.
- 3) Prevent complications of hepatitis - education about hepatitis A and B vaccines, and consumption of alcohol
- 4) Prevent transmission –
 - through education of persons who have tested positive for hepatitis C.
 - through screening of blood and organ donors.
 - Universal precautions

Disease Prevention - WV

- Patient education
 - Local Health Nurses educate the patients about hepatitis C risk factors at the time of disease investigation
- Public education
 - WV DIDE epidemiologists and Regional epidemiologists regularly share data in meetings and conferences

Disease Prevention - WV

- **Viral Hepatitis Prevention Coordinator (VHPC)**
 - Free HCV testing in Opioid Treatment Programs
 - The VHPC also provides information to medical staff, educational systems and public on hepatitis prevention, counseling and referral
 - Authorized to permit indigent testing
- **Viral Hepatitis Working Group (VHWG)**
 - Free HBV and HCV testing at LHD-STD clinics
- **Health Home program**
 - Hepatitis C and Bipolar disease

