



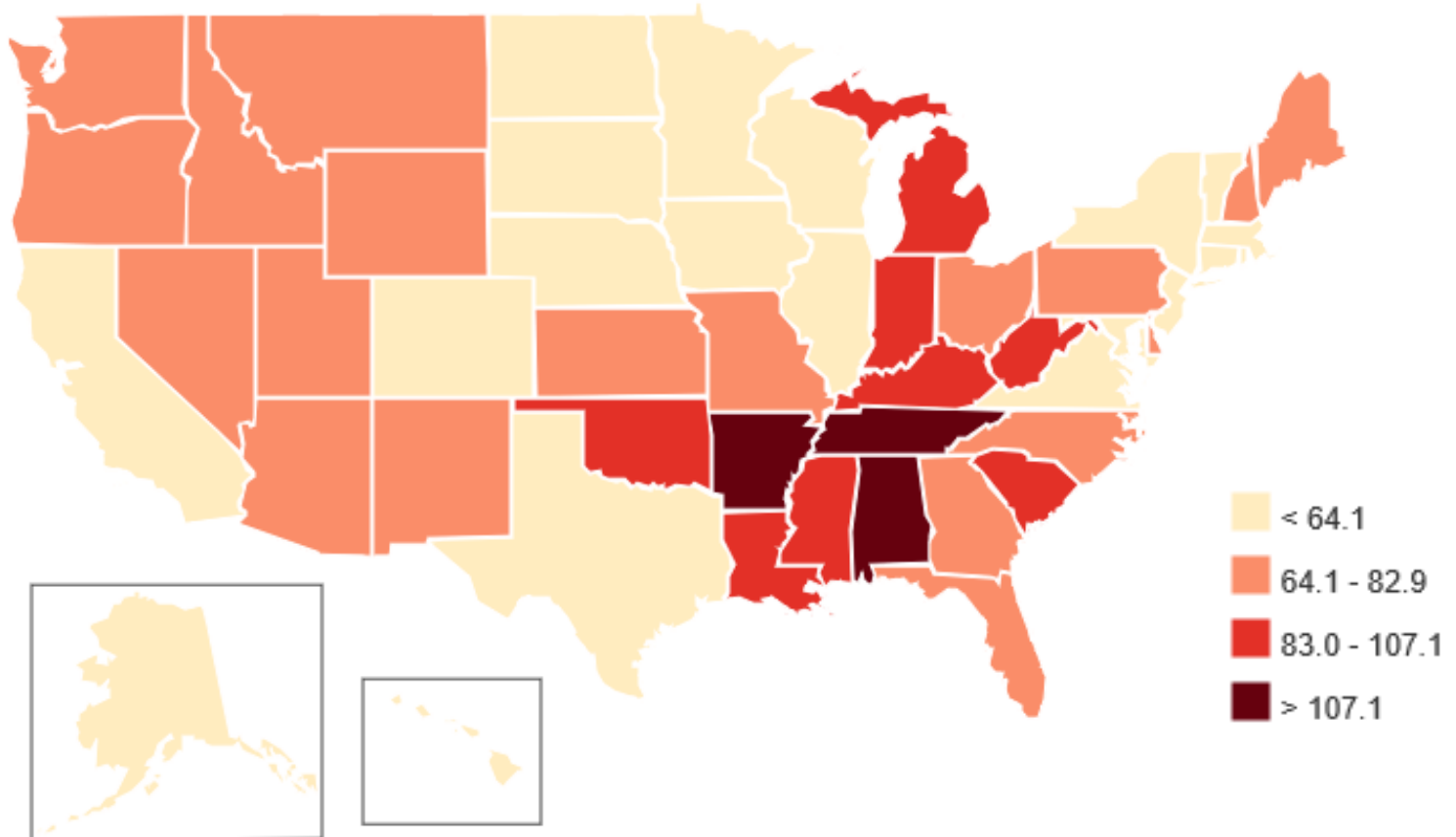
Hepatitis B in Tennessee

NASTAD & Hep B United Webinar: Hepatitis B & the Opioid Crisis

June 19, 2018

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U.S. Opioid Prescribing Rates per 100 U.S. Residents by State (2016)



Acute HBV Case Rates: U.S. and KY, TN, WV

FIGURE 1. Acute HBV infection by year – U.S. and KY, TN, WV (2006–2013)

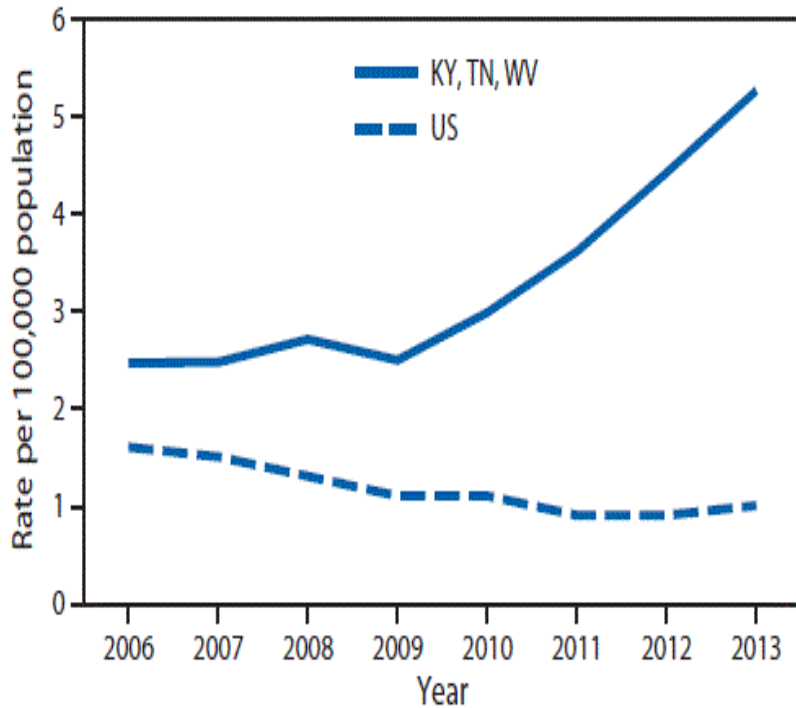
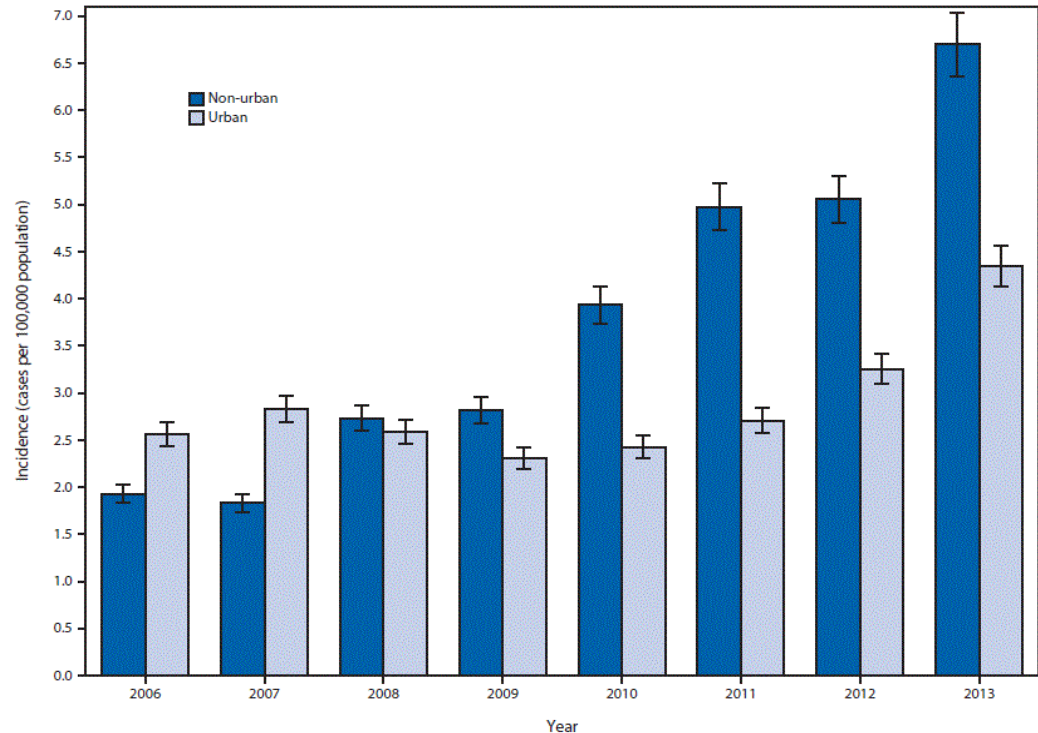
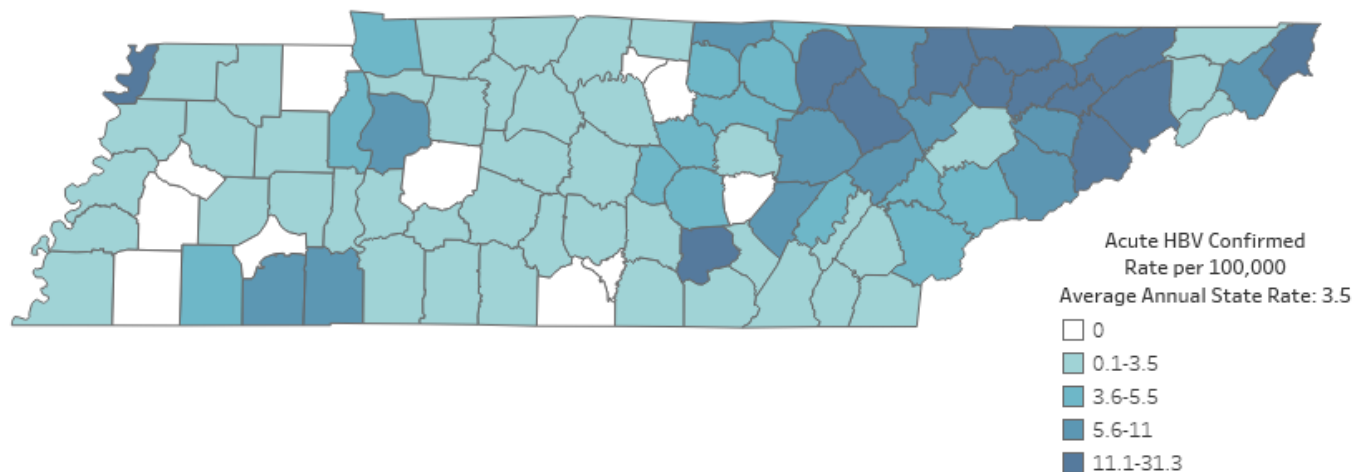


FIGURE 2. Acute HBV infection by urban/non-urban county of residence – KY, TN, WV (2006-2013)



Acute HBV Cases in TN

		<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
US	case rate*	0.9	1.0	0.9	1.1	1.0
	cases	2,895	3,050	2,953	3,370	3,218
TN	case rate*	3.7	4.0	3.5	3.7	3.1
	cases	240	262	232	243	204
	rank	3rd	3rd	3rd	2nd	3rd

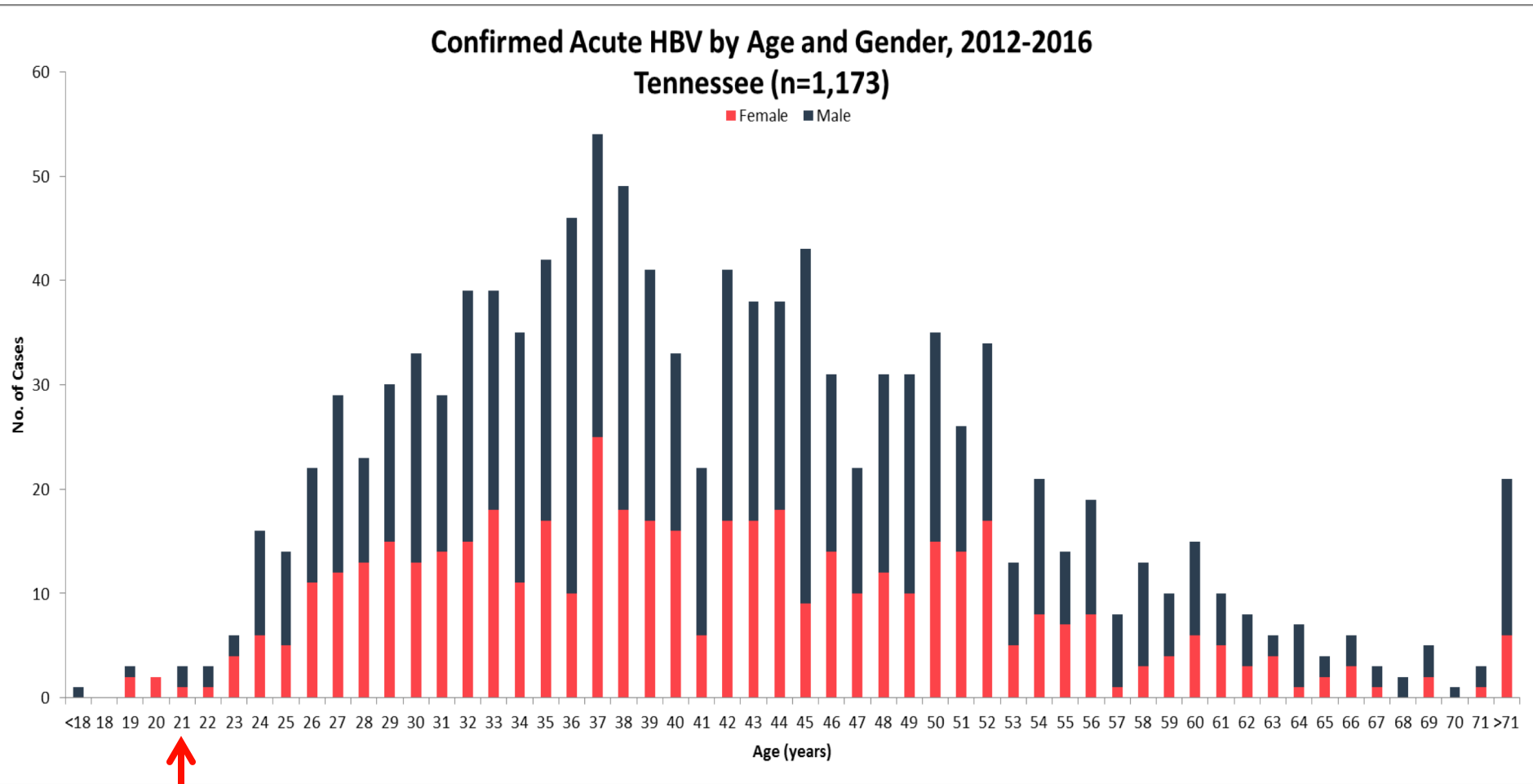


Acute HBV Cases in TN: Demographics

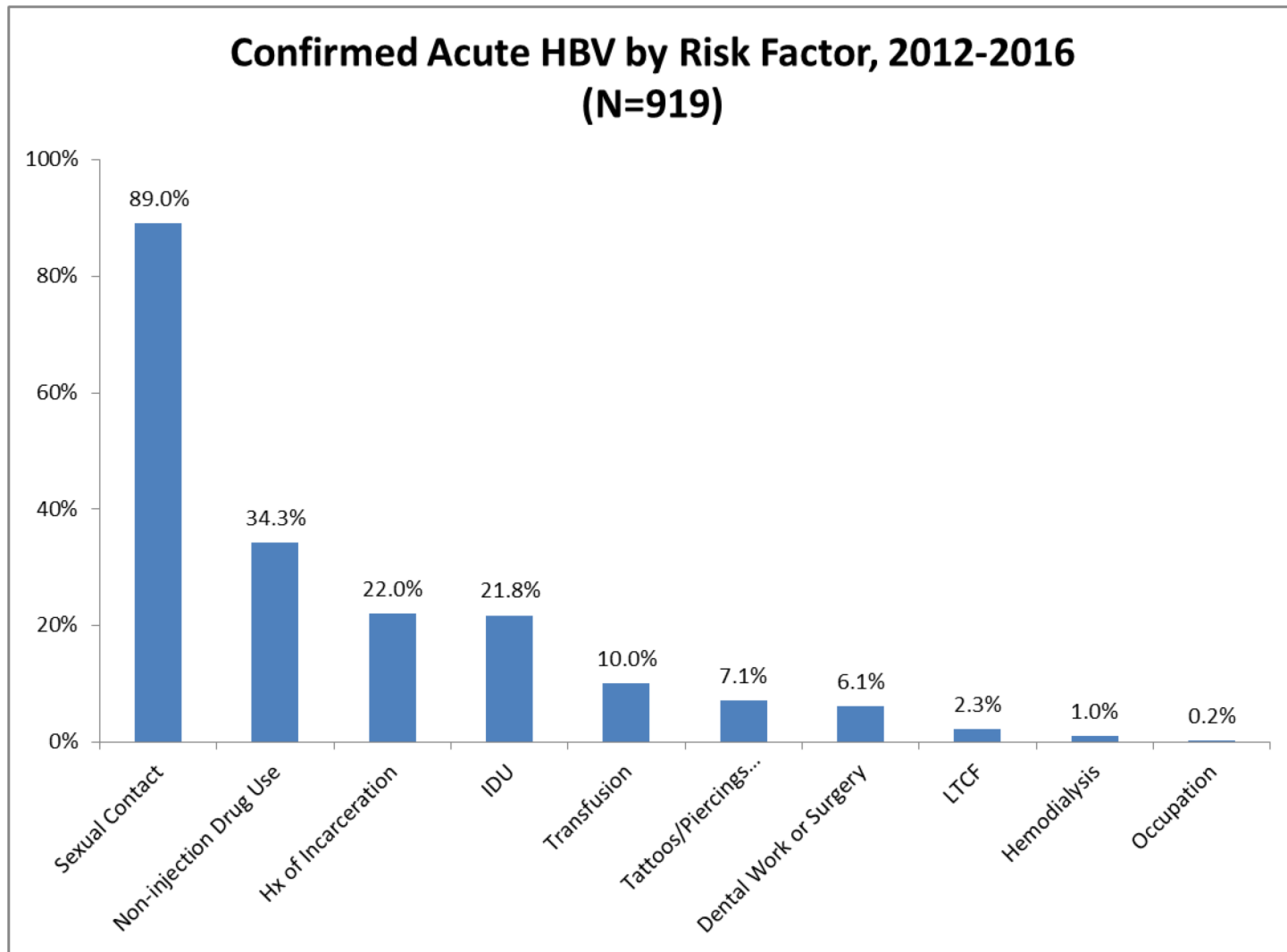
(2012–2016, n= 1,173)

- **Mean age:** 41.9 yrs
- **Gender**
 - Female = 40.4%
 - Male = 59.4%
 - Other / Unknown = 0.2%
- **Race / Ethnicity**
 - White, NH = 72.0%
 - Black, NH = 10.3%
 - Hispanic = 1.1%
 - Asian / Pacific Islander = 0.3%
 - Other = 2.2%
 - Unknown/Blank = 14.0%
- **Risk Factors**
 - At least 1 RF reported = 78.3%
 - No RFs reported = 21.7%

Acute HBV Cases in TN by Age & Gender



Acute HBV Cases in TN: Risk Factors



HBV Vaccination Funding in TN

- **Federal**

- Vaccines for children (VFC)

- Provide ACIP-recommended vaccines free of charge to eligible under-/uninsured children <19 yo

- 317 (limited supply for priority populations)

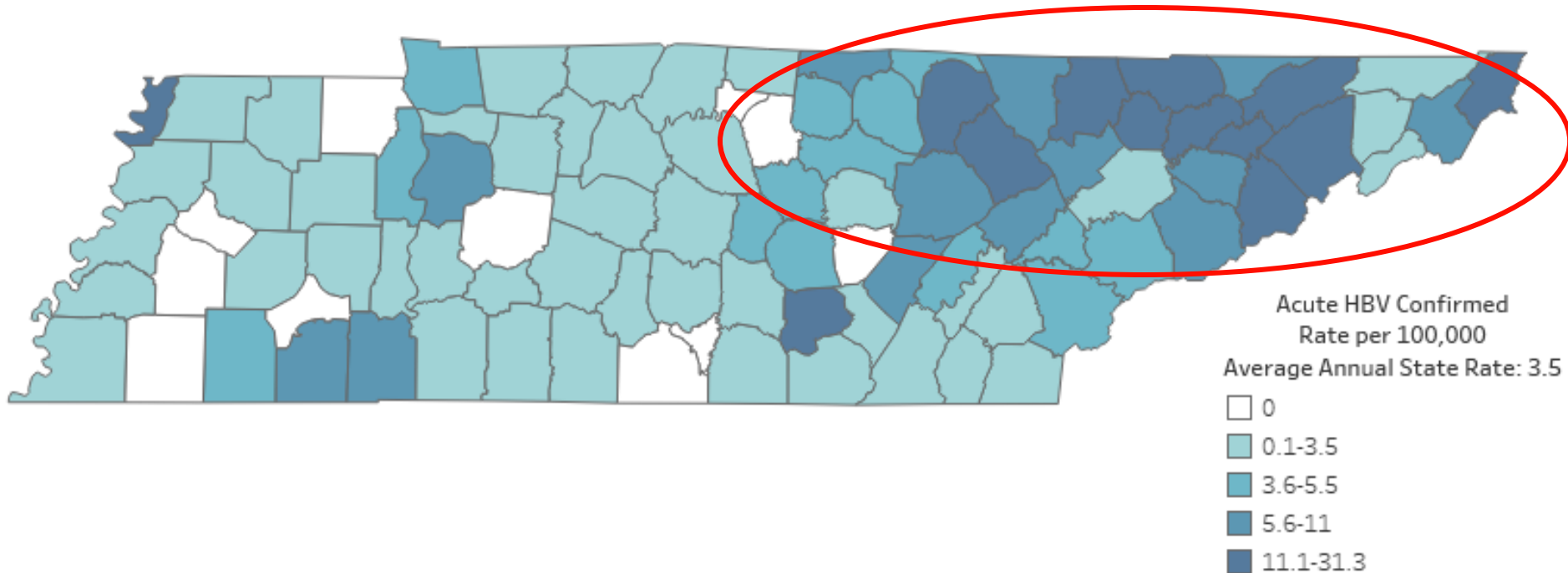
- Underinsured children not covered by VFC
 - Contacts of known HBV cases
 - Uninsured or underinsured at-risk adults
 - Outbreak response
 - Incarcerated individuals

- **Other**

- PPHF (2012 – 2015): Limited funding (HBV vaccination pilot in jails)
 - State: Limited funding to maintain jail program after 2015

Acute HBV Case Rates in TN by County

(2012-2016)



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HBV Vaccination Program Among Jail Inmates in TN

- **Goal**

- Reduce rates of acute HBV by providing HBV vaccination to previously unvaccinated at-risk adults

- **Methods**

- Focus on adults incarcerated in jails in PHRs w/ highest case rates
- Provide VH education & 3-dose HBV vaccine in 27 jails in NE TN

- **Results**

- (Sept '12 - Dec '17) 24,005 doses HBV vaccine administered
 - 51% (12,218) were 1st doses
 - 27% (6,558) were 2nd doses
 - 22% (5,229) were 3rd doses
- Recipients were predominantly male (67%) and NH-White (86%)
- From 2012 – 2016, rates acute HBV
 - 4 participating PHRs: ↓ 21.0% (8.1 to 6.4)
 - 9 other PHRs: ↓ 18.8% (1.6 to 1.3)

HBV Jail Vaccination Program in TN: Lessons Learned

- **Programmatic**
 - Feasible, well-accepted (PHRs, jail staff, inmates)
 - Modest budget (\$350,000 / yr)
 - Framework for valuable partnerships
 - HAV vaccine, HCV testing, linkages to services upon release
- **Improvements**
 - Avoid “boosters”
 - Introduced tablets during jail clinics (check immunization registry)
 - Limited immunizations to inmates born before 1991
 - Increase completion rates
 - Provided services within a network of jails
 - Provided case management of inmates upon release
- **Missed opportunities**
 - Combined HAV & HBV vaccination from the start

HBV Vaccination Program in TN: Next Steps

- **Jails**
 - Utilizing existing infrastructure to deliver HAV vaccine
 - Transitioning to 2-dose HBV vaccination
- **HDs**
 - Transitioning to 2-dose HBV vaccination strategy
 - STD clinic pilot (state funding)
 - Routine opt-out for all HD STD clients in NE TN
 - Born before 1991, not-pregnant, no prior HBV vaccine
 - Draw serology and administer first dose of 2-dose vaccine
 - Return in 4 wks for serology results and 2nd dose (as indicated)
 - Plan to evaluate utility of serology & 2-dose completion rates
- **Explore strategies to expand utilization of 317 supply for HBV vaccination among at-risk adults**



Thank You!

TDH VH Program

Programmatic

- Lindsey Sizemore

Surveillance

- Jennifer Black
- Heather Wingate

Prevention

- Cathy Goff

Clinical Services

- Kim Gill

HBV Jail Vaccine Team

- Rebecca Lakey
- Peggy Shover
- Kristen Pittman