# Local Health Department Response to Multistate Hepatitis A Outbreak

Bureau of Epidemiology & Infectious Diseases Shelby County Health Department 814 Jefferson Ave. Memphis TN 38105



#### **Overview**

- Discuss Hepatitis A
- Describe the Nationwide Outbreak 2016present
- Review the Shelby County experience
- Discuss potential control opportunities
- Things to consider

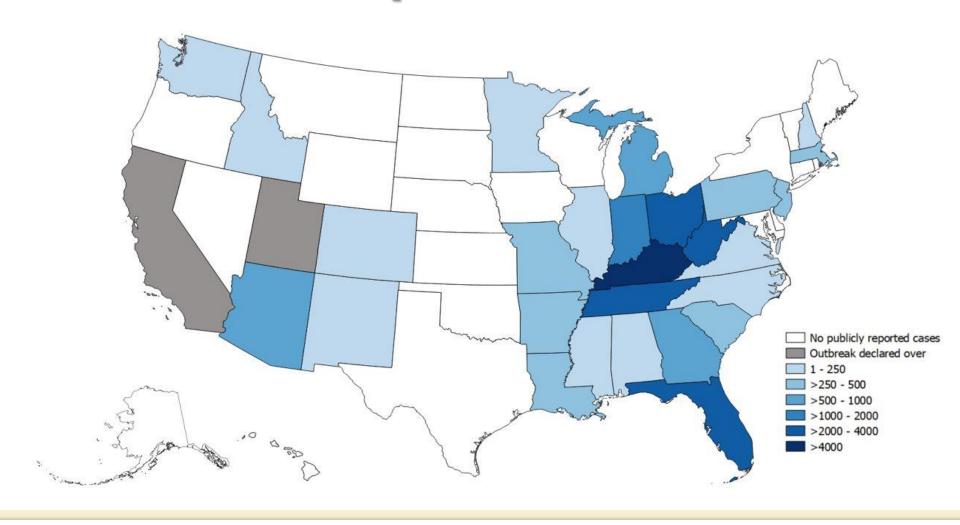


#### **Hepatitis A**

- Virus that causes inflammation of the liver
- Fecal-Oral route of transmission
- Gastroenteritis, fever, fatigue, abdominal pain, jaundice, dark urine
- Poor sanitary conditions promote transmission
- 30-50 day incubation period



# **National Hepatitis A Outbreak**





#### From the Centers for Disease Control

Since the outbreaks were first identified in 2016, 30 states have publicly reported:

Cases: 26,013

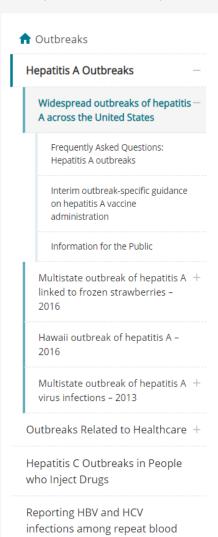
Hospitalizations: 15,643 (60%)

Deaths: 262

As of September 20, 2019



Viral Hepatitis > Outbreaks > Hepatitis A Outbreaks



donors

# Widespread person-to-person outbreaks of hepatitis A across the United States

When hearing about hepatitis A, many people think about contaminated food and water. However, in the United States, hepatitis A is more commonly spread from person to person. Since March 2017, CDC's Division of Viral Hepatitis (DVH) has been assisting multiple state and local health departments with hepatitis A outbreaks, spread through person-to-person contact.

#### The hepatitis A vaccine is the best way to prevent HAV infection

- The following groups are at highest risk for acquiring HAV infection or developing serious complications from HAV infection in these outbreaks and should be offered the hepatitis A vaccine in order to prevent or control an outbreak:
  - People who use drugs (injection or non-injection)
  - o People experiencing unstable housing or homelessness
  - Men who have sex with men (MSM)
  - o People who are currently or were recently incarcerated
  - People with chronic liver disease, including cirrhosis, hepatitis B, or hepatitis C
- One dose of single-antigen hepatitis A vaccine has been shown to control outbreaks of hepatitis A and provides up to 95% seroprotection in healthy individuals for up to 11 years.<sup>1,2</sup>
- Pre-vaccination serologic testing is not required to administer hepatitis A
  vaccine. Vaccinations should not be postponed if vaccination history cannot be
  obtained or records are unavailable.

CDC has provided outbreak-specific considerations for hepatitis A vaccine

#### At A Glance

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On This Page

CDC's Response

Postexposure Prophylaxis

HAV Specimen Requests

Additional Vaccination Information

**Professional Resources** 

**Educational Resources** 

Information for the Public



#### **Current Outbreak**

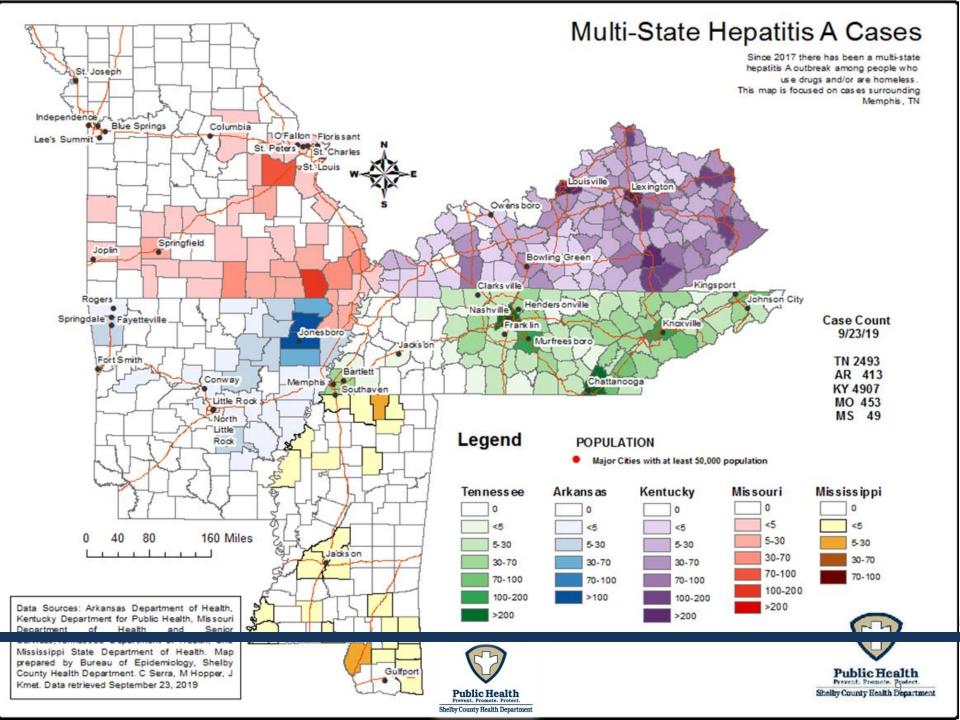
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- People experiencing unstable housing or homelessness
- Men who have sex with men (MSM)
- People who are currently or were recently incarcerated
- People with chronic liver disease, including cirrhosis, hepatitis B, or hepatitis C



# **State Comparisons**

	Cases	Deaths	Hospitalization	Date updated
TN	2447	17	60%	9/13
AR	411	Not reported	Not reported	Sep
МО	444	2	56%	9/10
KY	4902	61	48%	9/7
MS	46	0	63%	9/9

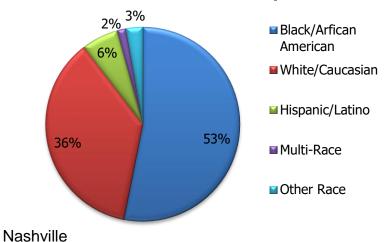


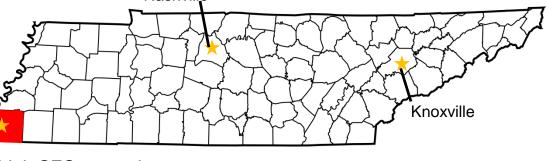


### **Shelby County, Tennessee**

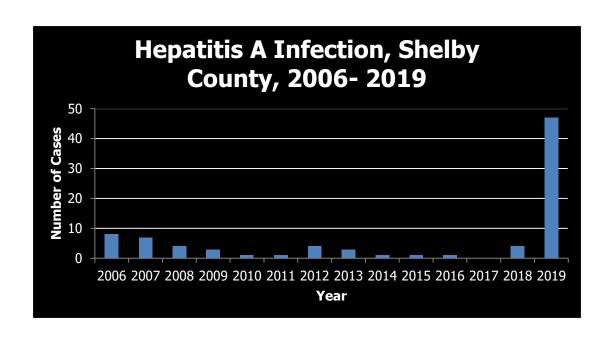
- Shelby County has the largest population of any TN County
  - o 2017 5-Yr ACS Population Estimate: 937,847
- Largest city in Shelby County is Memphis
  - 4 other cities: Bartlett, Germantown, Lakeland, Millington
  - 2 towns: Arlington, Collierville
  - 7 unincorporated communities: Barretville, Brunswick, Cordova, Eads, Ellendale, Fisherville, Rosemark
- Population is primarily Black/African American
- Median Household Income: \$49,647
- Unemployment Rate: 7%
- Population living below federal poverty level: 18.8%
- Shelby County is very diverse and contains both rural and urban areas, as well as low SES and high SES areas that differ quite a bit from each other.

#### 2017 5-Yr ACS Population Estimates by Race/Ethnicity





## **Shelby County, TN**



2019

47 cases, 1 death

83% hospitalization rate

#### 2019 Risk Factors:

Recreational Drug Use: 63%

Homeless: 36%

Recent Incarceration: 17%

No risk factors: 30%

#### **Co-infections:**

38% Hepatitis C 7% Hepatitis B

2% HIV

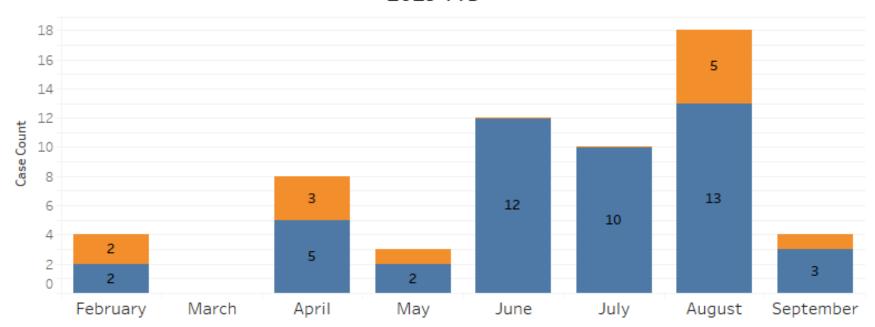


### **2019 Experience**

47 cases 83% hospitalization rate 12 non-resident cases

#### Hepatitis A Cases by Month in Shelby County

Residents and Non-Residents 2019 YTD





#### **Case Statistics**

- Age Range: 21 85 (38 median age)
- Sex: 55% Male 45% Female
- Race: 94% white 2% black 4%other
- Employment status:
  - only 12 cases report full time employment
  - 1 retired
  - other are unemployed or work part time
  - 3 healthcare workers
  - No food handlers



#### **Responding to Cases**

- Verify Symptoms and Laboratory Results
- Interview Patients regarding exposures and history
- Identify contacts
- Post-Exposure Prophylaxis
  - Vaccine
  - Immune Globulin





#### NJ food handler worked with hepatitis A infection; 27 confirmed sick, 1 dead

By News Desk on August 27, 2019

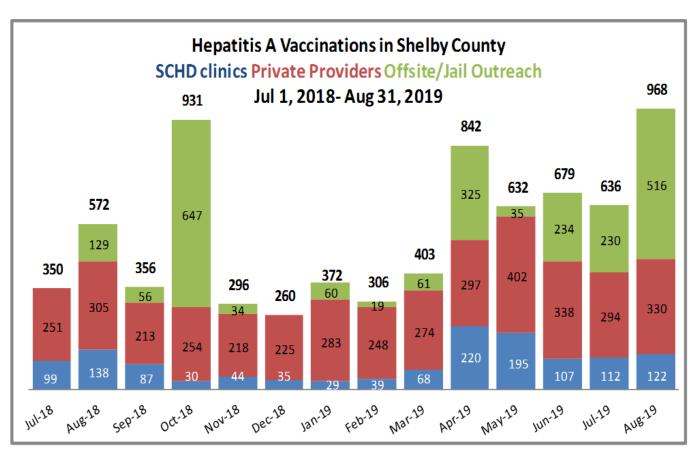
A food handler infected with hepatitis A who worked at New Jersey's Mendham Golf and Tennis Club is likely responsible for 27 illnesses including one death.







#### **Vaccination Efforts**



7,603 Total Vaccinations July 2018-Aug 2019

1,325 in SCHD Clinics 17% of the Total

3,932 by private Providers = 52%

**2,346 Jail Vaccine 31%** 



# **Strike Team**





#### **Other Outreach Activities**

- LPN administering vaccine at Corrections
- Local MOAs
- Memphis Area Prevention Coalition for Street Team for Overdose Prevention events
- TNHANs/ Press Releases
- Vaccine in emergency departments
- Handwashing Stations at public events
- Environmental Health inspections

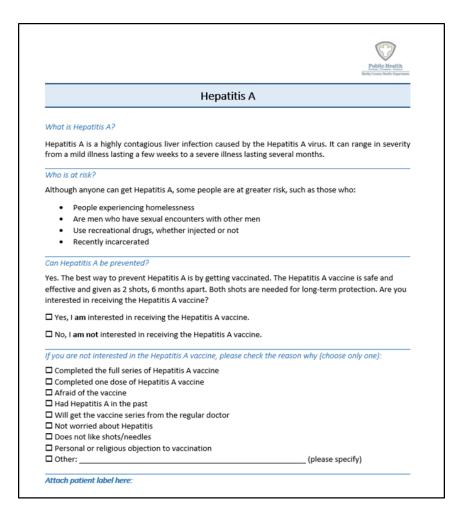


#### **Vaccination is the Best Prevention**

- Hepatitis A vaccine became a routine childhood immunization in 2006.
- People born before 2006 probably have not been vaccinated.
- In Tennessee so far there have been 1,647 cases, among which there have been 988 hospitalizations and 9 deaths.
- Memphis/Shelby region has a total of 11 confirmed cases of Hepatitis A in 2019, with hospitalization rate of 80%.
- In the national outbreak, people who use recreational substances, are homeless, or are men who have sex with men are at increased risk for Hepatitis A.
- ➤ Tennessee Department of Health recommends that all clients receiving testing and treatment for sexually transmitted infections (STIs) should be offered Hepatitis A vaccine.

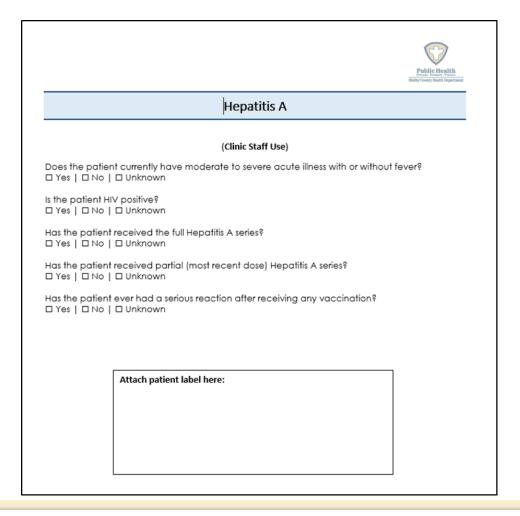


#### **Patient Consent Form**



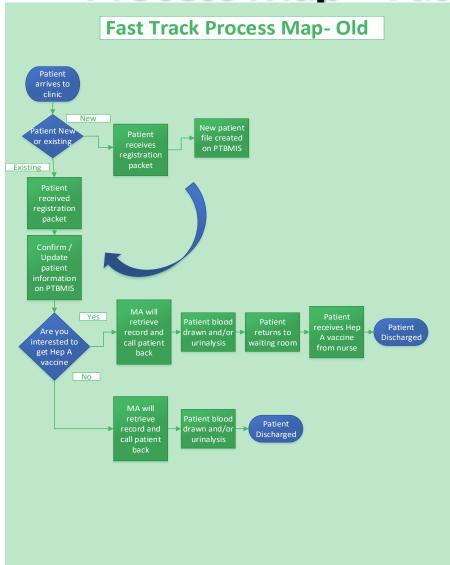


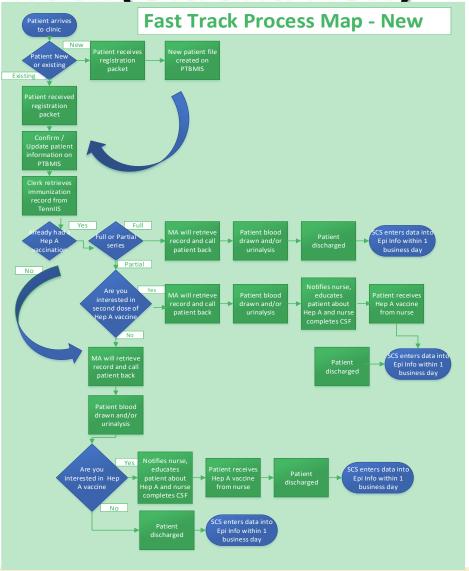
# **Hepatitis A Clinical Staff Form**





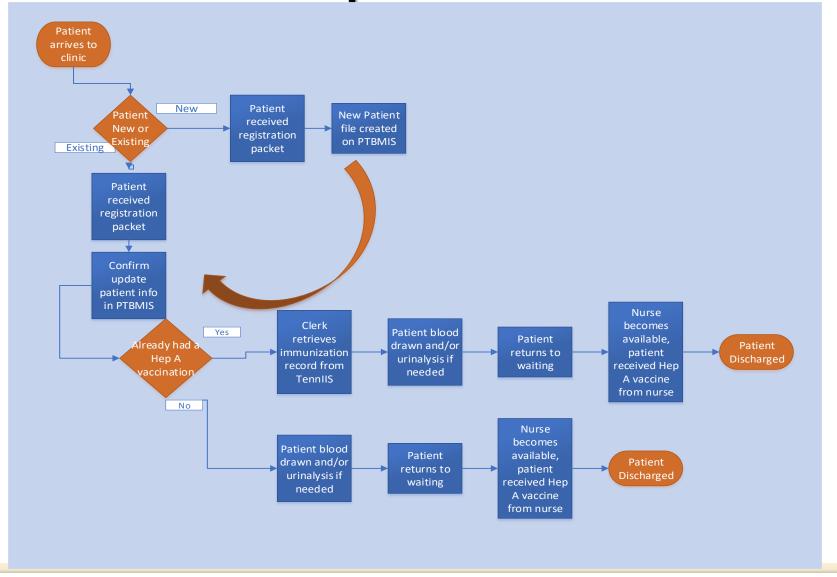
#### Process Map – Fast Track (Old and New)





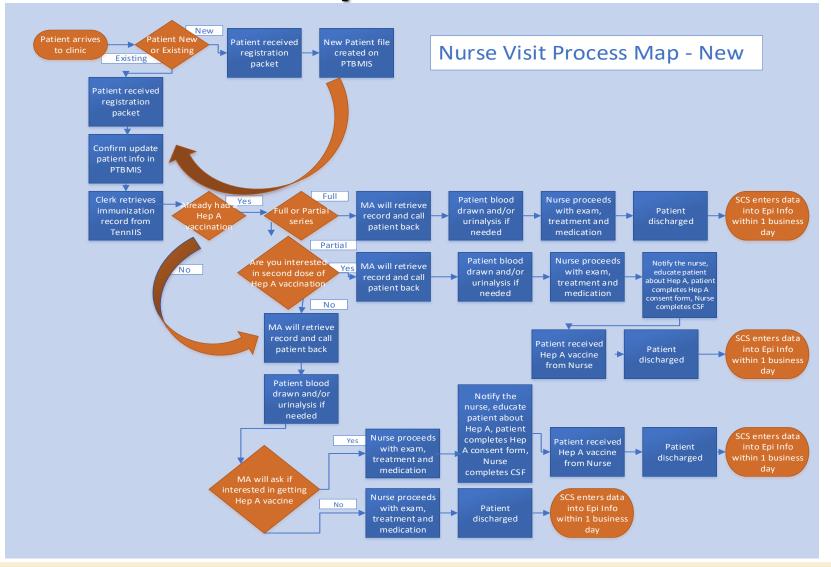


#### Process Map – Nurse Visit Old





#### Process Map – Nurse Visit New



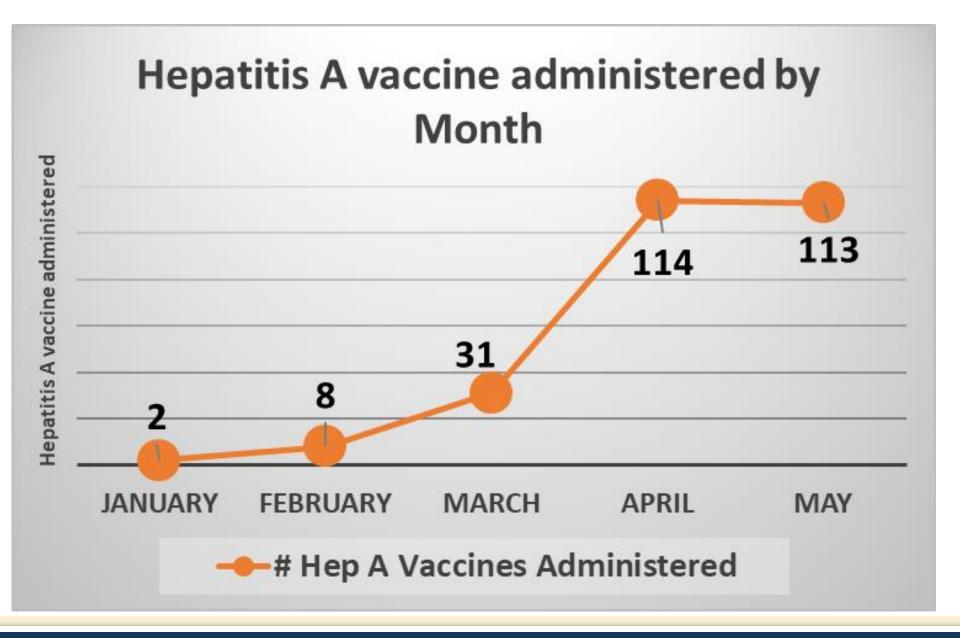


# When to ASK the patient about receiving their Hepatitis A Vaccination

ASK when...



- ✓ Scheduling the appointment
- ✓ Interviews with the patient
- ✓ After drawing labs
- ✓ During the clinic visit with the Nurse





### **Things to Consider**

- Outbreak is probably on its way to Texas
- Hospital Emergency Department surveillance may be the best opportunity to detect cases
- Vaccination in Jails and STD program clinics may be the most effective targeted vaccination venues
- Learn from Kentucky
- Recreational Substance Use is fueling spread



# **Questions?**



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