Butler County General Health District
Hepatitis A Outbreak Investigation Update (11/5/18)

Hepatitis A Cases
Butler County Residents, 2018

*Data is provisional – confirmed Hepatitis A cases are included in counts. Report reflects time period of the 2018 Ohio Hepatitis A Outbreak (Jan 2018 – Present), measured in MMWR week intervals, unless otherwise noted. Data accessed from the Ohio Disease Reporting System (ODRS) on 10/29/2018.

Total # of Confirmed Cases: 177*
Outbreak-Linked Cases: 146 (as of 11/5/18)
First Case Reported: 2/2/2018
Last Case Reported (so far): 11/2/2018
Age Range: 3-75

Figure 1. Confirmed Hepatitis A Cases by Date Reported
Butler County Residents, 2018

Note: Figure 1 shows all "confirmed" Hepatitis A cases in Butler County as of 11/5/18. Due to delays in receiving confirmatory lab/ genotyping results, classifications for cases are often changed from "suspected" to "confirmed" status with a delay, rendering weekly counts to potentially change between weekly update reports.

Figure 2. Outbreak-Linked Hepatitis A Cases by Facility of Diagnosis
Butler County Residents, 2018
Outbreak-Linked Hepatitis A Cases – Demographic Information
Butler County Residents, 2018
(as of 11/5/18)

Figure 3. Outbreak-Linked Hepatitis A Cases by City of Residence
Butler County Residents, 2018

<table>
<thead>
<tr>
<th>City of Residence</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hamilton</td>
<td>109</td>
</tr>
<tr>
<td>Middletown</td>
<td>11</td>
</tr>
<tr>
<td>Fairfield Twp</td>
<td>8</td>
</tr>
<tr>
<td>Fairfield</td>
<td>7</td>
</tr>
<tr>
<td>Oxford</td>
<td>3</td>
</tr>
<tr>
<td>Trenton</td>
<td>3</td>
</tr>
<tr>
<td>Liberty Township</td>
<td>2</td>
</tr>
<tr>
<td>Other Areas In Butler County</td>
<td>3</td>
</tr>
</tbody>
</table>

Figure 4. Outbreak-Linked Hepatitis A Cases by Gender
Butler County Residents, 2018

- Male: 64 (43.8%)
- Female: 82 (56.2%)

Figure 5. Outbreak-Linked Hepatitis A Cases by Age
Butler County Residents, 2018

<table>
<thead>
<tr>
<th>Age Range</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;25</td>
<td>8.9%</td>
</tr>
<tr>
<td>25-34</td>
<td>37.7%</td>
</tr>
<tr>
<td>35-44</td>
<td>32.2%</td>
</tr>
<tr>
<td>45+</td>
<td>21.2%</td>
</tr>
</tbody>
</table>

Figure 6. Outbreak-Linked Hepatitis A Cases by Hospitalization Status
Butler County Residents, 2018

<table>
<thead>
<tr>
<th>Hospitalized?</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>66.4%</td>
</tr>
<tr>
<td>No/Unknown</td>
<td>33.6%</td>
</tr>
</tbody>
</table>

Figure 7. Outbreak-Linked Hepatitis A Cases by High Risk Group History
Butler County Residents, 2018

<table>
<thead>
<tr>
<th>High Risk Group History?</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>91.8%</td>
</tr>
<tr>
<td>No/Unknown</td>
<td>8.2%</td>
</tr>
</tbody>
</table>

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ODH Update: Ohio Hepatitis A Outbreak Cases (November 5, 2018):

**ODRS Outbreak Title:** Hepatitis A Statewide Community Outbreak 2018

**Hepatitis A Outbreak Summary (November 5, 2018):**

- Number of cases: 813
- Illness onset range: 01/05/2018 - 10/29/2018
- Age range: 3-81 years
- Gender: 60% male
- Number of hospitalizations: 513 (63%)
- Number of deaths: 1
- Number of counties with cases: 57 (65%)

**Ohio Hepatitis A Outbreak Case Definition:**

**CLINICAL CRITERIA**

An acute illness with a discrete onset since January 1, 2018 of any sign or symptom consistent with acute viral hepatitis (e.g., fever, headache, malaise, anorexia, nausea, vomiting, diarrhea and abdominal pain), and either

- Jaundice, OR
- Elevated aspartate aminotransferase (AST) or alanine aminotransferase (ALT) levels (>200 IU/L)

**LABORATORY CRITERIA**

- Immunoglobulin M (IgM) antibody to hepatitis A virus (anti-HAV) positive, OR
- Nucleic acid amplification test (NAAT) for hepatitis A virus RNA positive (including PCR or genotype testing)

**CONFIRMED HEPATITIS A OUTBREAK CASE**

- A case with a specimen that matches the circulating outbreak strain (genotype 1B), OR
- A case that meets the clinical and laboratory criteria, OR
- A case that meets the clinical criteria and occurs in a person who has an epidemiologic link with a person who has laboratory-confirmed hepatitis A (i.e., household contact, drug partner or sexual contact with an infected person during the 15-50 days before the onset of symptoms)

**EXCLUSIONS**

A case will be excluded if any of the following conditions apply:

- In the absence of known risk factors (illicit drug use, men who have sex with men, homelessness, incarceration or domestic travel to an area with a known outbreak), any illness that occurs in a patient who reports travel to a country or U.S. territory with endemic hepatitis A during the 15-50 days before symptom onset, OR
- Specimen is identified as any genotype other than 1B, OR
- Specimen collected within four weeks of symptom onset is negative for HAV RNA, OR
- A more likely clinical explanation is available to account for clinical symptoms and laboratory findings

For more information, please call the Ohio Department of Health Bureau of Infectious Diseases at (614) 995-5599.

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Hepatitis A Outbreak Cases by County, Ohio, 2018

November 5, 2018

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Source: https://www.odh.ohio.gov/hepa

Please direct any questions/comments/concerns regarding this report to: Jonathan Yang MPH, MS, Epidemiologist (BCHD) – yangj@butlercountyohio.org / (513) 887-5248
What is Public Health Doing to Decrease the Number of Hepatitis A Cases in Butler County?

Every case is interviewed and all contacts are assisted to get vaccinated. In addition:

- **Vaccination**: 1323 vaccinations given to high risk groups by the three public health departments / districts in Butler County. Additional vaccinations have been given by providers and clinics.

- **Education**: 2697 information cards about sanitizing to prevent Hepatitis A given to restaurants, food service workers.

- **Policy Change**: 5 policy changes requested of healthcare and drug treatment providers, insurance companies, banks, restaurants.

- **Sanitation**: 2484 information cards about sanitizing to prevent Hepatitis A given to restaurants, food service workers.