Hepatitis A Outbreak Summit

March 13, 2019
1 - 2:30 pm: Clinical
3 - 4pm: Community Services
Clinical Session Agenda

- **Welcome and Introduction** – Paula Mandel, PCHD Deputy Director
  5 minutes
- **Local Hepatitis A Outbreak** – Mary Derby, Ph.D., Epidemiology Program Manager
  15 minutes
- **Clinical Interventions** – Kristin Robinson-Lund, Nurse Manager
  15 minutes
- **Sanitation Interventions** – David Ludwig, Consumer Health and Food Safety Manager
  10 minutes
- **Roundtable Discussion** – Mark Person, Community Mental Health & Addiction Program Manager
  45 minutes
Community Services Session Agenda

• **Welcome and Introduction** – *Paula Mandel, PCHD Deputy Director*
  5 minutes

• **Local Hepatitis A Outbreak** – *Mary Derby, Ph.D., Epidemiology Program Manager*
  15 minutes

• **Sanitation Interventions** – *David Ludwig, Consumer Health and Food Safety Manager*
  10 minutes

• **Roundtable Discussion** – *Gary Frucci, Environmental Health Supervisor*
  30 minutes
Welcome and Introduction

Paula Mandel
PCHD Deputy Director
Local Hepatitis A Outbreak

Mary Derby, Ph.D.,
Epidemiology Program Manager
Hepatitis A Overview

- Viral infection
- Vaccine-preventable
  - (case reduction since 1996 when vaccine made available)
- Treatment: supportive
- Transmission: fecal-oral
- Incubation period: 28-30 days (range 15-50)
Hepatitis A Overview

• Symptoms: fever, anorexia, malaise, nausea, vomiting, diarrhea, abdominal pain, jaundice, dark urine.

• Duration: typically several weeks (up to several months)

• Can be asymptomatic, especially in children
Role of PCHD Epidemiology

• **Receive suspect and positive laboratory reports:**
  • Providers: within 1 working day suspect or confirmed case
  • Laboratories: within 1 working day for positive results, submit disease panel results

• **Interview cases:**
  • Incubation period: where/how they could have been infected
  • Contagious period: potential close contacts that could have been infected
Role of PCHD Epidemiology

• **Implement prevention and control measures:**
  - Provide education to case and close contacts
  - Recommend Post Exposure Prophylaxis (PEP) to contacts within 14 days of exposure
Who is at increased risk of contracting hepatitis A?

- People with direct contact with someone with hepatitis A
- Travelers to countries where hepatitis A is common
- People who are experiencing homelessness
- Men who have sex with men (MSM)
- People who use drugs, both injection and non-injection drugs
- Household members or caregivers of a recent adoptee from countries where hepatitis A is common
- People with clotting factor disorders such as hemophilia
Hepatitis A Risk Assessment

1. Do you lack a permanent home?  
   - No  
   - Yes

2. Have you used illegal or illicit drugs?  
   - No  
   - Yes

3. Have you been in a correctional facility at any time since November 1, 2018?  
   - No  
   - Yes

4. Have you been told that you have hepatitis A?  
   - No  
   - Yes

5. Have you received the hepatitis A vaccine in the last 6 months?  
   - No  
   - Yes

If question 1, 2, or 3 = YES: Vaccine indicated
If question 5 = NO AND Question 1, 2, or 3 = YES: Vaccine indicated
If question 4 or 5 = YES: Vaccine NOT indicated

Tool created by Dr. Bethany Bruzzi and Kathleen McCasland, MT, MBA for BUMC South

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Pima County Outbreak (Nov 2018 – Feb 2019)

- Number of outbreak cases by collection date
- Number of investigated cases by notification date

Hepatitis A Trends

<table>
<thead>
<tr>
<th>Pima County Hepatitis A Cases by Year</th>
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<tbody>
<tr>
<td>2013</td>
<td>8</td>
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<td>2014</td>
<td>5</td>
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<td>2015</td>
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<td>2017</td>
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<td>2018</td>
<td>58</td>
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<tr>
<td>2019 YTD</td>
<td>89</td>
</tr>
</tbody>
</table>
Resources

Mary Derby
Mary.Derby@pima.gov

Pima County Epidemiology Phone Line
520-724-7797

www.pima.gov/hep-a
www.cdc.gov/hepatitis/hav/index.htm

www.pima.gov/health

Pima County Health Department
@PCHD
Pimacountyhealth

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Clinical Interventions

Kristin Robinson-Lund
Nurse Manager, North Clinic
Target and risk populations

Individuals who are experiencing:

- Homelessness
- Illicit drug use

Common exposure areas:

- Substance rehabilitation facilities
- Pima County Adult Detention Center
- Homeless shelters
- Public parks and areas
Post-exposure prophylaxis recommendations:

<table>
<thead>
<tr>
<th>Indication/Age group</th>
<th>Risk category/Health status</th>
<th>Hepatitis A vaccine</th>
<th>Immune globulin</th>
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<tbody>
<tr>
<td>&lt;12 mos</td>
<td>Healthy</td>
<td>No</td>
<td>0.1 mL/kg*</td>
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<tr>
<td>12 mos–40 yrs</td>
<td>Healthy</td>
<td>1 dose†</td>
<td>None</td>
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<tr>
<td>&gt;40 yrs</td>
<td>Healthy</td>
<td>1 dose†</td>
<td>0.1 mL/kg$</td>
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<tr>
<td>≥12 mos</td>
<td>Immunocompromised or chronic liver disease</td>
<td>1 dose†</td>
<td>0.1 mL/kg¶</td>
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<tr>
<td>≥12 mos</td>
<td>Vaccine contraindicated**</td>
<td>No</td>
<td>0.1 mL/kg</td>
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</table>
### Pre-exposure protection recommendations:

<table>
<thead>
<tr>
<th>Indication/Age group</th>
<th>Risk category/Health status</th>
<th>Hepatitis A vaccine</th>
<th>Immune globulin</th>
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<td>&lt;6 mos</td>
<td>Healthy</td>
<td>No</td>
<td>0.1–0.2 mL/kg §§</td>
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<td>6–11 mos</td>
<td>Healthy</td>
<td>1 dose¶¶</td>
<td>None</td>
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<tr>
<td>12 mos–40 yrs</td>
<td>Healthy</td>
<td>1 dose***</td>
<td>None</td>
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<tr>
<td>&gt;40 yrs</td>
<td>Healthy</td>
<td>1 dose***</td>
<td>0.1–0.2 mL/kg §§,†††</td>
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<td>All ages</td>
<td>Immunocompromised or chronic liver disease</td>
<td>1 dose***</td>
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<td>&gt;6 mos</td>
<td>Persons who elect not to receive vaccine or for whom vaccine is contraindicated**</td>
<td>No</td>
<td>0.1–0.2 mL/kg §§</td>
</tr>
</tbody>
</table>
Recommendation caveats

• † A second dose is not required for post exposure prophylaxis; however, for long-term immunity, the hepatitis A vaccination series should be completed with a second dose at least 6 months after the first dose.

• § The provider’s risk assessment should determine the need for immune globulin administration. If the provider’s risk assessment determines that both vaccine and immune globulin are warranted, Hep A vaccine and immune globulin should be administered simultaneously at different anatomic sites.

• ¶ Vaccine and immune globulin should be administered simultaneously at different anatomic sites. For more, visit: https://www.cdc.gov/mmwr/volumes/67/wr/mm6743a5.htm?s_cid=mm6743a5_w
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PCHD Community-Based Outreach and Prevention Response:

• Hepatitis A vaccination outreach clinics at partner locations
• Mobile clinics targeting public parks and areas where cases have been identified
• Environmental sanitation assessment
• Education in clinics
Ways you can protect your clients:

Education

A Healthy Pima County. Everyone. Everywhere. Every day.
Protect Yourself from Hepatitis A

There has been an increase in cases of an illness called Hepatitis A “hep A.”

Hep A is very easy to catch and can make you sick for a very long time. Some people who use drugs and/or are homeless have been hospitalized and have died from hep A.

Get Vaccinated!

Today: You have received the hep A vaccine today. Please return to a PCHD clinic or a healthcare provider in 6 months for a second dose.

Received: ____________________________

Get 2nd Dose: ____________________________

Soon: Visit one of our clinics to be vaccinated. The vaccine is a safe, fast shot given in the arm. You do not need to be able to pay.

South Clinic
1409 W Commerce Ct (Cardinal and Valencia)
734-7900

North Clinic
3550 N 1st Ave (1st and Prince)
734-3890

East Clinic
6920 E Broadway Blvd (Broadway and Kolb)
734-4660

What is Hepatitis A and Why Does it Matter if I Get It?

Hep A is caused by a virus (hepatitis A virus) that can easily spread from person-to-person. It can cause liver disease that can make you sick for several months. In some cases, people can die because of hep A. People who are homeless are at greater risk of getting this disease.

How does Hepatitis A spread?

- Touching objects or eating food that someone with hepatitis A infection handled
- Having sex with someone who has hepatitis A infection
- Sharing needles, pipes, or other items to take drugs

How can you prevent getting hepatitis A?

- Get two shots of Hepatitis A vaccine
- Wash hands with soap and water after using the bathroom, and before eating food
- Don’t have sex with someone who has hepatitis A infection
- Use your own towels, toothbrush & utensils
- Don’t share food, drinks, tools or smokes with other people

Visit www.pima.gov/hep-a for more information or call 724-7797 for more information or to book an appointment.

Pima County Health Department
3950 S. Country Club Rd., Tucson, AZ 85714 • 520-724-7770 • www.pima.gov/health
Wash Your Hands!
Stop the Spread of Germs

1. Start with warm or hot water
2. Use soap and make a lather
3. Rub and scrub thoroughly for 20 seconds. Scrub palms, back of hands, between fingers and under nails.
4. Rinse well
5. Dry hands thoroughly
6. Use a paper towel to shut off the faucet

¡Lávese Las Manos!
No Propague los Gérmenes

1. Inicie con agua tibia o agua caliente
2. Use jabón y genere espuma
3. Frote y estrique a fondo por 20 segundos – restrique las palmas, detalles de las manos, entre los dedos y debajo de las uñas.
4. Enjuague bien
5. Saque las manos completamente
6. Use una toalla de papel para cerrar el grifo
Ways you can protect your clients:

Intake screening and referral
- Arizona State Immunization Information System (ASIIS)

Vaccination
- Host a PCHD clinic or offer vaccine
Sanitation Interventions

David Ludwig
Consumer Health and Food Safety Manager
PCHD Consumer Health and Food Safety Efforts

• Providing hepatitis A prevention education to food permit holders
• Investigating suspected hepatitis A foodborne cases
• Conducting on-site environmental assessments in facilities associated with person confirmed to have hepatitis A
Handouts are being distributed to all food operations.

Important Information for Food Managers/Operators

There has been an increase in Hepatitis A

Some of these cases have been linked to food possibly served by fixed and mobile food establishments in Pima County.

Hepatitis A usually spreads when a person unknowingly ingests the virus from objects, food, or drinks contaminated by small, undetected amounts of stool from an infected person. Hepatitis A contamination of food, including frozen and undercooked food, can happen at any point, growing, harvesting, processing, handling, and even after cooking.

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Ways to prevent the spread of hepatitis A

Staff protection

• Food handlers, sanitation workers, and other professionals directly serving high risk individuals are recommended to receive the hepatitis A vaccine

• Use appropriate standard precautions – proper handwashing, gloves
Ways to prevent the spread of hepatitis A

Augment sanitation

• Use disinfectant products and procedures that are effective against hepatitis A

• Chlorine bleach at 5000ppm (1 + 2/3 cups bleach in 1 gallon water)

• Always use in a well ventilated space
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Date: ______________
Ways to prevent the spread of hepatitis A

Prevention Education and Resources

• Promote handwashing and sanitation

• Distribute information and hygiene kits
Education Materials

• Hepatitis A: Cleaning and Disinfection Guidance
• Protect Yourself From hepatitis A
• Wash Your Hands
Hepatitis A: Cleaning and Disinfection Guidance

What is Hepatitis A?
Hepatitis A is a liver infection caused by the hepatitis A virus, it is highly contagious and is usually transmitted by the fecal-oral route, either through person-to-person contact or consumption of contaminated food or water.

Contamination can occur when infected persons do not wash their hands properly after going to the bathroom and then touch other objects or food items.

Surfaces that are frequently touched should be cleaned and sanitized often:
- Roller Room Surfaces
- Light Switch Plates High Chairs
- Kitchen Surfaces
- Phones
- Tables and Chairs
- Door knobs
- Recreation Equipment
- Computer Keyboards
- Railings
- Wheelchairs and Walkers
- Remote Controls

Cleaning to Prevent the Spread of Hepatitis A

Use Effective Disinfectant Chemicals on Exposed Surfaces
- Choose bleach or the best way to killHAV. To create a 5,000 ppm solution mix 1 and 2/3 cups bleach to 1 gallon water.
- Mix and use the chlorine solution promptly.
- Allow 1 minute of contact time and then rinse with water.

- Replace bottles of opened bleach every 30 days.
- Discard any unused diluted materials.
- Use for stainless steel, food接触 contact items, tile floor, nonporous surfaces, counters, sinks, and toilets.

Other Disinfectants
To determine if a product is effective against hepatitis A, review the product label or specification sheet and ensure it states effective against HAV or norovirus.

A list of disinfectants identified as effective against HAV and norovirus is available at www.pima.gov/hep-a

Remember to:
- Wear gloves and protect your clothing.
- Use chemicals in well-ventilated areas.
- Avoid contact between incompatible chemicals.
- For surfaces that are corroded or damaged by bleach, use another product effective against HAV.

EVERYONE Should Practice Good Hand Washing and Hygiene

- Thoroughly wash hands with soap and water for at least 20 seconds.
- Before:
  - Engaging in food preparation and working with non-packaged food, clean equipment and utensils.
  - Put on disposable gloves to start working with food or patients.
- After:
  - Dispensing or serving food, or handling clean tableware and serving utensils in the food service area.

During
- Food prep, as often as necessary to remove dirt and contamination.
- Food prep when switching tasks and when switching between working with raw food and working with ready-to-eat food to prevent cross-contamination.

After
- Using the bathroom:
  - Coughing, sneezing, using a handshake, or disposable tissue, using tobacco, eating or drinking.
- Handling soiled equipment or utensils.
- Engaging in other activities that contaminate hands.

- Touching your own or another person’s bare human body parts.
- Ensure hand washing signs are posted in the appropriate locations.

Cleaning Spills of Vomit or Feces
- Block-off area immediately.
- Put on personal protective equipment, including two sets of gloves, masks and gowns.
- Clean up visible debris using disposable absorbent material (paper towels, absorbent pads, etc).
- Discard soiled items carefully in a leak-proof plastic bag.
- Disinfect area and objects surrounding the contamination with an appropriate disinfectant effective against HAV.
- Take off outer set of gloves, gown, and mask, in that order, and discard before exiting contaminated area.
- Place discarded PPE in a leak-proof plastic bag.
- Wear the inner set of gloves, transport bag to a secure trash container, and do not allow the bag to come into contact with clothing.
- Thoroughly wash your hands after handling any contaminated material, trash or waste.

Surface Specific Tips

Toys
- Toys that enter a child’s mouth must be disinfected, rinsed thoroughly, and air dried or run through a dishwasher at the highest temperature setting.
- Remove visible debris on softer toys that have been soiled and launder at the highest temperature setting. Discard if necessary.

Linens, Clothing, Textiles
- Keep contaminated and uncleaned items separate.
- Wash in a pre-wash cycle, then use a regular wash cycle with detergent, and dry at the highest temperature setting.

Food Surfaces
- After disinfection, rinse food prep area with water.
- Prevent chemical contact with food during cleaning.
- Secure chemicals away from food after cleaning.

Medical Equipment
- Use for infected patients should either be dedicated to that room or be thoroughly disinfected upon removal from the room.
- Selection of cleaning agent should be consistent with the equipment manufacturer’s recommendations.

Contact the Health Department if you need help or have questions about this guidance:
(520) 724-7908 for food establishments or operations.
(520) 724-7779 for general questions about hepatitis A.
Visit: www.pima.gov/hep-a

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How does Hepatitis A spread?

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- Sharing needles, pipes, or other items to take drugs

How can you prevent getting hepatitis A?

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- Don’t have sex with someone who has hepatitis A infection
- Use your own towels, toothbrush & utensils
- Don’t share food, drinks, tools or smokes with other people

Call 724-7797 for more information or go to www.pima.gov/hep-a

What are the symptoms if I get hepatitis A?

- Fever
- Fatigue
- Nausea
- Loss of appetite
- Jaundice—Yellowing of the eyes or skin
- Stomach pain
- Diarrhea
- Vomiting
- Dark urine, pale stools

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**Wash Your Hands!**

**Stop Spreading Germs**

1. **Start with warm or hot water**
2. **Use soap and make a lather**
3. **Rub and scrub thoroughly for 10-15 seconds. Scrub palms, back of hands, between fingers and under nails.**
4. **Rinse well**
5. **Dry hands thoroughly**
6. **Use a paper towel to shut off the faucet**

**¡Lávese Las Manos!**

**No Propague los Gérmenes**

1. **Inicia con agua tibia o agua caliente**
2. **Use jabón y genera espuma**
3. **Frote y rínguelo a fondo por 10 a 15 segundos – rínguelo las palmas, detrás de las manos, entre los dedos y debajo de las uñas.**
4. **Enjuague bien**
5. **Seque las manos completamente**
6. **Use una toalla de papel para cerrar el grifo**

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Resources

David Ludwig
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www.cdc.gov/hepatitis/hav/index.htm
Roundtable Discussion

Mark Person

Community Mental Health & Addiction Program Manager
Thank you!