



HEALTH ADVISORY:
Hepatitis A Outbreaks in California; Prevention Recommendations

TO: All Sonoma County Health Care Providers
FROM: Karen Milman MD MPH, Health Officer
DATE: September 28, 2017
CC: PLEASE SHARE WITH ALL MEDICAL STAFF

ACTIONS REQUESTED:

- **Identify and immediately vaccinate non-HAV-immune patients who are:**
 - a. **Homeless, OR**
 - b. Meet ACIP recommendations for routine HAV vaccine, including:
 - i. **Injection or non-injection drug use**
 - ii. Chronic liver disease, including infection with hepatitis B or C
 - iii. Men who have sex with men
 - iv. Anyone seeking protection from HAV.
- If you provide off site medical care to homeless individuals, add hepatitis A vaccination to your care services.**
- When you provide hepatitis A vaccination, make sure to **record it in the California Immunization Registry (CAIR)** to assist with tracking of when next doses are due. Also follow-up with your clients to ensure they get the remaining doses.
- Serological testing for HAV immunity is NOT recommended as screening before vaccination; instead, vaccinate those for whom you lack a record of serologic immunity or completed immunization.
- Use monovalent HAV vaccine OR combined hepatitis A/B vaccine. However, note the 1st dose of monovalent HAV vaccine provides fuller protection than the 1st dose of combined hepatitis A/B vaccine, and is preferred for outbreak prevention if follow up is uncertain.
- Also please **provide** to clients **basic hepatitis A** information including transmission routes and prevention: See our flier at: <http://sonomacounty.ca.gov/Health/Services/Hepatitis-A/> .
- **Suspect acute hepatitis A** in homeless and/or drug-using individuals who present with consistent symptoms (abdominal pain, nausea, vomiting, fever, jaundice and significant elevation in LFTs). **Confirm** by obtaining a complete viral hepatitis serology panel.
 - **Report cases** of symptomatic, lab-confirmed hepatitis A infections by phone to Sonoma County Disease Control at 707.565.4566 while the patient is still at the healthcare facility so individuals can be interviewed and are not lost to follow-up. After hours, follow instructions to contact the on-call Health Officer.
 - Work with your institution's occupational health provider and with Sonoma County Disease Control to provide post-exposure prophylaxis to non-immune exposed individuals.

SITUATION:

Currently, we have no outbreak associated cases of hepatitis A in Sonoma County. However, several California counties (San Diego, Santa Cruz, and Los Angeles) are reporting outbreaks of genotype IB strains of hepatitis A virus (HAV) among individuals who are homeless and/or using illicit drugs. Additional California counties, Arizona and Utah are reporting cases associated with the outbreaks. As

of September 20, 2017, the California Department of Public Health (CDPH) reports 526 confirmed cases and 16 deaths since November 2016. Additional case-patients are under investigation and awaiting CDC genotyping results. The outbreak is being spread person-to-person and through contact with environments contaminated by feces and is not associated with a contaminated food product. Counties with outbreaks have faced many challenges ending the spread of infection. In Sonoma County we have an opportunity to prevent an outbreak through immunization, rapid recognition and response to initial cases and education about prevention through basic hygiene.

CLINICAL:

HAV is a highly infectious enteric virus that multiplies in the liver and is shed in the feces. HAV is a vaccine-preventable illness that can range in severity from a mild illness lasting a few weeks to a severe illness lasting several months or even death. The incubation period ranges from 15 to 50 days with a mean of 28 days. Symptoms include nausea, vomiting, diarrhea, anorexia, fever, malaise, dark urine, light-colored stool, and abdominal pain. A complete viral hepatitis serology panel is recommended in symptomatic patients. Serological testing for HAV infection is not recommended in asymptomatic individuals or as screening before vaccination.

TRANSMISSION and PREVENTION:

HAV is transmitted person-to-person and via food, water, or surfaces contaminated with feces. Most immunocompetent adults shed virus in the stool and are infectious from two weeks before through one week after the onset of jaundice. The primary strategies for outbreak control are vaccination and improving access to sanitation. Persons in Sonoma County are considered to be at risk of HAV infection at this time if they are a) homeless or b) using or may be using illicit drugs of any type (injection or non-injection), and if they are not already immune by means of completed vaccination (2 doses of monovalent HAV vaccine or 3 doses of combined hepatitis A/B vaccine) or serology (total hepatitis A antibody positive).

California children have been recommended to receive hepatitis A vaccine since 1999. Therefore some young adults in the risk population may have been vaccinated and their immunization histories may be found in CAIR.

Health care workers who may have contact with suspected hepatitis A cases, and who lack HAV immunity or vaccination, should consider obtaining HAV immunization through their employer or health plan.

Post-exposure prophylaxis (PEP) with HAV vaccine (or in some cases, IM immune globulin) is effective in non-HAV-immune persons exposed to HAV in the prior 2 weeks:

<https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/Immunization/HepatitisA-IGPEPGuidance.pdf>

VACCINE ACCESS:

For both managed care and fee for service members, Medi-Cal covers hepatitis A vaccine without prior authorization both in providers' offices and at network pharmacies. For providers that have access to federally funded (317) vaccine, it should be used for the highest risk populations (persons who are homeless and/or use illicit drugs). Whenever feasible, non-317 vaccine supplies should be used, and insurance should be billed.

Hepatitis B (HBV) vaccine is also recommended for injection drug users who are not known to be immune. A complete vaccination series is needed for full protection.

RESOURCES:

CDPH: HAV page – <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/Hepatitis-A.aspx>

CDC: 2017 Adult Immunization Schedule –<https://www.cdc.gov/vaccines/schedules/hcp/adult.html>

Hepatitis A Q&A for Health Professionals –<https://www.cdc.gov/hepatitis/hav/havfaq.htm>