

California Department of Public Health Healthcare-Associated Hepatitis B and C (HBV/HCV) Investigation Quicksheet Algorithm



If case had at least one healthcare encounter during the exposure period: 3,4

Collect detailed information on each encounter and facility to determine if there were any percutaneous procedures, such as:

- Injections
- Infusions
- Podiatry in long-term care settings
- Assisted glucose monitoring

Save any blood samples if available

Step 3:

Review and report to CDPH suspected healthcare-associated acute HBV or HCV¹

- Notify CDPH
 Healthcare-Associated
 Infections (HAI)
 Program
- Submit case report form to CDPH Immunization Branch (IZB). IZB will compare facilities against database.
- If status of sexual and/or household contacts is unclear, test contacts
- If contacts not infected, obtain blood specimen and proceed to step 4

Step 1:

Confirm that the case definition is met for acute HCV or HBV. 1, 2

Step 2:

Interview case patient to identify traditional, healthcare, and other risk factors during the exposure period: 1,2

- HBV 45-160 days
- HCV 2 weeks-6 months

Provide education to patients and their contacts about disease and transmission risk.

Step 4:

Further assess healthcare encounters during incubation period, paying special attention to high risk or "red flag," procedures or facilities. Consult with the HAI Program. ^{3,4}

If multiple healthcare settings visited, go to step 4A then 4B

Step 4A: When multiple

healthcare settings are

additional investigation

Prior complaints

Types of procedures

Timing of procedures

Settings and procedures

where outbreaks have

been documented 4

identified, prioritize

based on:

If single healthcare setting visited, go directly to 4B

If traditional risk factors were identified, such as:

- Multiple sexual partners or high-risk sexual partners
- Illegal drug use
- Having a household contact with HBV

Identify other possible risk factors:

- Accidents involving blood exposure
- Occupation
- Cosmetic (e.g., tattoo, manicure/pedicure)

Hepatitis cases with no healthcare encounters are assisted by CDPH Immunization Branch (IZB) only. Submit case report form to IZB. 1,2

Step 4B: Recommended steps to investigate single and priority healthcare settings:

- Gather information on types of services provided by facility
- Review records for the index patient, including invasive procedures, dates, and staff involved
- Perform onsite visit if necessary
- Review infection control policies and procedures
- Obtain list(s) of patients seen during the same time period as index
- Identify additional cases through record review and registry match
- Consider notification of appropriate regulatory authorities

Step 5:

Respond based on assessment findings, in consultation with the HAI Program ³

- If unsafe practices identified, (e.g. syringe reuse) immediately advise the facility to correct their actions
- Depending on findings, additional steps might include: patient notification, targeted lookback, genotyping/viral sequencing of cases and possible sources, reporting to authorities

References

¹Refer to the Immunization Branch's CDPH Acute Hepatitis B and C Public Health Investigation 'Quicksheet' for instructions on non-healthcare and healthcare-associated hepatitis investigation instructions: (https://www.cdph.ca.gov/HealthInfo/discond/Documents/AcuteHepatitisBCquicksheet.pdf)

² Report acute hepatitis B and C cases on the CDPH <u>case report form</u>: (https://www.cdph.ca.gov/pubsforms/forms/CtrldForms/cdph8703.pdf)

³ Refer to the <u>CDC Guide</u> for Investigating Healthcare-Associated Hepatitis for the full list of steps to take during an investigation: (http://www.cdc.gov/hepatitis/outbreaks/hea lthcareinvestigationguide.htm)

⁴ "Red Flags" for Suspecting Healthcare Acquisition of HBV or HCV

- Sentinel events, such as seroconversion in a dialysis patient or frequent blood donor
- Patient age ≥ 50 with acute HBV/HCV and no traditional risk factors
- Setting types where prior hepatitis outbreaks have occurred, for example:
 - Outpatient settings where frequent injections or infusions are administered (e.g. ambulatory surgery centers, oncology clinics, pain management clinics, long-term care settings, or outpatient dialysis centers)
 - Settings that provide assistance with multiple patients for blood glucose monitoring (e.g., long-term care facilities or assisted-living facilities)
- Facility or clinic associated with a prior case of acute HBV/HCV
- Previous report or complaint submitted about a healthcare provider or clinic regarding unsafe injection practice

Additional Resources

CDC infection control <u>resources</u> for outpatient settings include:

- Infection prevention guide and checklist for outpatient settings
- outpatient policy options worksheet
- basic infection control plan for outpatient oncology settings

(http://www.cdc.gov/HAI/settings/outpatient/outpatient-settings.html)

CDC viral hepatitis healthcare-associated outbreaks resources include:

- Healthcare investigation checklist
- healthcare investigation guide
- healthcare investigation letter
- the healthcare notification testing toolkit (http://www.cdc.gov/hepatitis/outbreaks/inde x.htm)

CDC <u>injection safety</u> resources can be found at: (http://www.cdc.gov/injectionsafety/index.htm l)

CDC blood glucose monitoring and insulin safety tips can be found at: (http://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html)