HEPATITIS B

NON-IMMEDIATE NOTIFICATION

EPIDEMIOLOGY PROGRAM

Event Name:	HEPB
Event Time Period:	Lifelong immunity

ACUTE

Clinical Criteria (CSTE 2023):	In the absence of a more likely, alternative diagnosis*, acute onset or new detection of at least one of the following: jaundice, total bilirubin > 3.0mg/dL, or elevated serum alanine aminotransferase (ALT) levels > 200 IU/L.							
	reactivation,	e diagnoses may include evidence of acute liver disease due to other causes or advanced liver disease due to hepatitis B pre-existing chronic HBV infection, other causes including alcohol exposure, other viral hepatitis, hemochromatosis, or						
		own to produce false positives of hepatitis B surface antigen, etc.						
CSTE Event	Acute Confirmed	• Detection of HBsAg* AND detection of IgM anti-HBc, or						
Classification (2023):	• Detection of HBeAg AND detection of IgM anti-HBc, or							
	• Detection of HBV DNA** AND detection of IgM anti-HBc, or							
		• Detection of HBsAg,* HBeAg, or HBV DNA within 12 months (365 days) of a negative HBsAg test						
		result. (i.e., HBsAg seroconversion)						
		OR						
		A case that meets clinical criteria and:						
		• Detection of HBV surface antigen (HBsAg)* AND IgM antibody to HBV core antigen (IgM anti-HBc) test not done or result not available, OR						
		• Detection of HBV DNA** AND IgM anti-HBc test not done or result not available						
		* If information on HBsAg test method is available and HBsAg confirmatory neutralization was performed as recommended, HBsAg positive by confirmatory neutralization.						
	** DNA detection by nucleic acid test, including qualitative, quantitative, or genotype testing							
	Acute	A case that meets clinical criteria and:						
Probable		• Detection of IgM anti-HBc, AND						
		• Negative or not done for HBsAg, HBV DNA, or HBeAg						
Massachusetts Event	Acute	Same as CSTE definition						
Classification (2024):	Confirmed							
	Acute	Same as CSTE definition						
	Probable							
	Acute	Positive IgM antibody to hepatitis B core antigen (IgM anti-HBc) that does not meet the confirmed or						
	Suspect	probable acute case definition.						
	Acute Revoked	Any case that does not meet the confirmed, probable or suspect acute case definition.						

PERINATAL

Clinical Presentation	Perinatal HBV infection in a child \leq 24 months of age may range from asymptomatic to fulminant hepatitis.					
(CSTE 2017):						
CSTE Event	Confirmed	<i>firmed</i> Child born in the US to a HBV-infected mother and positive for HBsAg at ≥ 1 month of age and ≤ 24				
Classification (2017):		months of age OR positive for HBeAg or HBV DNA ≥ 9 months of age and ≤ 24 months of age.				
	Probable	Child born in the US and positive for HBsAg at ≥ 1 month of age and ≤ 24 months of age OR positive for				
		HBeAg or HBV DNA \geq 9 months of age and \leq 24 months of age, but whose mother's hepatitis B status is				
		unknown (i.e. epidemiologic linkage not present).				
Massachusetts Event	Follows CSTE definition					
Classification (2017):						

CHRONIC

HKUNIC						
Clinical Description (CDC 2023):	Persons with HBV infection may be asymptomatic or symptomatic.					
CSTE Event Classification (2023):	Confirmed Chronic Probable Chronic	 Detection of HBsAg* in two clinical specimens taken ≥ 6 months apart, OR Detection of HBeAg in two clinical specimens taken ≥ 6 months apart, OR Detection of [HBsAg* OR HBeAg] AND total anti-HBc, OR Detection of HBsAg* AND HBeAg, OR Detection of HBV DNA** ** If information on HBsAg test method is available and HBsAg confirmatory neutralization was performed as recommended, HBsAg positive by confirmatory neutralization. ** DNA detection by nucleic acid test, including qualitative, quantitative, or genotype testing Detection of [HBsAg* OR HBeAg] AND IgM anti-HBc test negative, not done, or result not available 				
Massachusetts Event Classification (2013):	Confirmed Chronic Probable Chronic Suspect Chronic	Same as CSTE definition Same as CSTE definition Anti-HBc IgM antibody positive that does not otherwise meet the confirmed or revoked case definition				
	Revoked	 In an individual who has not had at least 2 positive HBV tests* at least 6 months apart, any of the following: Recent documented vaccination (<=1 month prior to positive HBsAg) Negative HBsAg confirmation/neutralization results for the same specimen as a reported positive HBsAg Two negative HBsAg >=24 hours apart Two negative HBV DNA tests at least one month apart in a person NOT on treatment Negative HBV DNA in a person NOT on treatment AND any of the following: negative HBsAg, positive anti-HBs, negative anti-HBc Negative HBsAg AND positive anti-HBs AND negative anti-HBc 				
		* Includes any combination of HBsAg, HBeAg, and HBV DNA.				

Note: If any other viral hepatitis results are included (for Hepatitis A, C, D or E) refer to the appropriate CCM for guidance on how to enter. Any Hepatitis B negative test results should be entered into an existing Hepatitis B event only. If ALT or Bilirubin are available, enter in the Lab Section.

Report Type	Test Type	Source	Result	New report?	Data Entry		
Laboratory report	Hepatitis B core IgM antibody	Serum/	Positive	Yes	New event		
	OR HBc-IgM OR	Blood			SUSPECT		
	Hepatitis Bc Ab, IgM, P/S OR			No	Same event		
	Hepatitis B core AB (IgM)				Consult "Interpreting Hepatitis B		
G 1	W D : 41 V M AG	D: G O	1		Laboratory Results" table for status		
Select:	Hep B virus core Ab.IgM ACno			1			
Laboratory report	Total anti-HBc OR	Serum/	Positive	Yes	New event		
	Hepatitis B core OR anti-HBc	Blood			SUSPECT		
	OR Hepatitis Bc Ab, IgG &			No	Consult "Interpreting Hepatitis B		
	IgM, P/S				Laboratory Results" table for status		
Select:	Hep B virus core Ab: ACnc: Pt:	Ser: Ord:					
Laboratory report	Genotyping	Serum/	Letter value	Yes	New event		
		Blood			Consult "Interpreting Hepatitis B		
					Laboratory Results" table for status		
				No	Same event		
					Consult "Interpreting Hepatitis B		
					Laboratory Results" table for status		
Select:	Hep B virus genotype: Prid: Pt: Ser/Plas: Nom: Probe. Amp. Tar						
Laboratory report	HBsAg OR	Serum/	Positive	Yes	New event		
	HBAg OR	Blood			Consult "Interpreting Hepatitis B		
					Laboratory Results" table for status		
				No	Same event		
					Consult "Interpreting Hepatitis B		
					Laboratory Results" table for status		
Select:	Hep B virus surface Ag: ACnc: Pt: Ser: Ord:						

Note: If any other viral hepatitis results are included (for Hepatitis A, C, D or E) refer to the appropriate CCM for guidance on how to enter. Any Hepatitis B negative test results should be entered into an existing Hepatitis B event only. If ALT or Bilirubin are available, enter in the Lab Section.

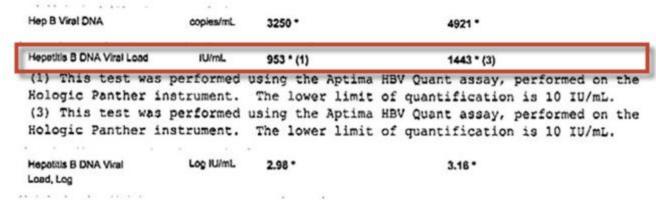
Report Type	Test Type	Source	Result	New report?	Data Entry			
Laboratory report	HBsAg Neutralization OR HBsAg Confirmation	Serum/ Blood	Positive	Yes	New event Consult "Interpreting Hepatitis B Laboratory Results" table for status			
				No	Same event Consult "Interpreting Hepatitis B Laboratory Results" table for status			
Select:	Hep B virus surface Ag: ACnc: Pt:	Ser: Ord: No	eut:					
Laboratory report	HBe Ag OR Hepatitis B virus little E Ag (EIA, RIBA or other test)	Serum/ Blood	Positive	Yes	New event Consult "Interpreting Hepatitis B Laboratory Results" table for status			
				No	Same event Consult "Interpreting Hepatitis B Laboratory Results" table for status			
Select (EIA):	Hep B virus little e Ag: ACnc: Pt: Ser: Ord: EIA							
Select (RIA):	Hep B virus little e Ag: ACnc: Pt: S							
Laboratory report	HBeAb OR Hepatitis B virus little E Ab(EIA, RIBA or other test)	Serum/ Blood	Positive	Yes	Do NOT create a new event. Enter these results only with an existing event.			
				No	Same event			
Select:	Hep B virus little e Ab: Acnc: Pt: Ser: Qn:							
Laboratory report	rRNA (ribosomal RNA)	Serum/	Positive	Yes	New event			
		Blood			Consult "Interpreting Hepatitis B Laboratory Results" table for status			
				No	Same event Consult "Interpreting Hepatitis B Laboratory Results" table for status			
Select:	Hep B virus rRNA: ACnc: Pt: xxx: Ord: Probe							

Note: If any other viral hepatitis results are included (for Hepatitis A, C, D or E) refer to the appropriate CCM for guidance on how to enter. Any Hepatitis B negative test results should be entered into an existing Hepatitis B event only. If ALT or Bilirubin are available, enter in the Lab Section.

Report Type	Test Type	Source	Result	New report?	Data Entry	
Laboratory report	PCR for HBV DNA OR Hepatitis B Viral DNA OR RT-PCR OR Viral load **	Serum/ Blood	Results may be numeric, positive, negative or trace. Select "trace" if the numeric result appears negative (e.g., shown as <20) but a comment or interpretation is included stating that the virus was detected but could not be quantified. Refer to SOP: HEPATITIS NUMERIC PCR TEST INTERPRETATIONS	Yes	New event Consult "Interpreting Hepatitis B Laboratory Results" table for status	
				No	Same event Consult "Interpreting Hepatitis B Laboratory Results" table for status	
Select		l				
(quantitative or						
numeric results):	Hepatitis B virus DNA : ACnc : Pt : Ser/Plas : Qn: Probe.Amp.Tar					
Select (qualitative result only):	Hep B virus DNA: ACnc: Pt: xxx: Ord: Probe.Amp.Tar					
Laboratory report	Hepatitis B Surface antibody OR HBsAb	Serum/ Blood	Results may be numeric (ex. <10), positive or negative	Yes	Do NOT create a new event. Enter these results only with an existing event.	
				No	Same event	
Select (qualitative	HBV surface Ab Ser Ql					
result only):						
Select	Hep B virus surface Ab: Acnc: Pt: Ser: Qn					
(quantitative or						
numeric results):						

Data entry notes

** If a single HBV PCR/DNA result is reported with multiple reference ranges, see example below, enter the IU/mL value.



When entering results from Eurofins/VRL labs:

Ultrio Elite test results noted as non-discriminatory mean that the sample tested positive for HBV/HCV/HIV but this particular assay does not differentiate between the three viruses. It's a screening test done to see if further testing is warranted. Positive non-discriminatory results will be followed up by specific tests for each of the three viruses. These may include repeat Ultrio Elite tests with discriminatory results or tests for HBV core Ab, HBV surface antigen and HCV antibody. Do not enter any results noted as "non-discriminatory".