Report of hepatitis B - Please use this form for reporting LAB CONFIRMED hepatitis B

Fax completed form to 905-940-4541

Health Care Provider	
information:	
(Name, Address, Phone, Fax)	
Client information:	
(Name, Sex, DOB, Phone,	
Address, Language)	
Diagnosis Ensure all Asute and Undetermined clier	nts are retested in 6 months for all HBV markers, including HBsAg, anti- HBs
and anti-HBc	its are recested in 6 months for an nov markers, including nosag, anti- nos
☐ Chronic hepatitis B - HBsAg positive >	6 months
	IgM test: ☐ Negative ☐ Positive – date (yy/mm/dd):
·	If positive, please fax lab slip
IF this is a confirmed or suspected acut	e hepatitis B case, contact Public Health immediately
	Ag, anti-HBs, and anti-HBc in 6 months from initial positive HBsAg
☐ Resolved infection - Client is not infect	•
	munized (Hepatitis B antigenemia) or other
Traise positive Gheric was recently init	Hamzea (Hepaticis 2 antigenerma) of other
Reasons for Testing	
☐ Routine screening ☐ Contact tracin	ng \square Immigration screening \square Insurance Application
☐ Prenatal – EDD (yy/mm/dd):	
Symptoms	
Was client symptomatic? \square No \square Ye	es - anti-HBc IgM testing recommended
· ·	ptom(s): Onset date (yy/mm/dd):
, ,	· · · · · · · · · · · · · · · · · · ·
Assessment of Risk Factors	
Medical Risk Factors	
\square Client born to a case or carrier	\square Dialysis recipient
\square Born in an endemic country - specify:	When: Where:
\square Received blood or blood products	☐ Invasive medical/surgical procedures
When: Where:	When: Where:
\square Partially/Incompletely immunized	☐ Invasive medical/surgical procedures
☐ Organ/tissue transplant	When:Where:
When:Where:	Unimmunized
$\hfill\Box$ Co-Diagnosis/Co-infection with existin	
Specify:	Other:
☐ ON PrEP	

Public Health

4261 Highway 7 East, Suites B6-9, Unionville ON L3R 9W6 1-877-464-9675 ● TTY 1-866-512-6228 ● Fax 905-940-4541 www.york.ca/sexualhealth



Behavioural Risk Fact	ors					
□Acupuncture		☐ Other perso	nal services – Specify	/ :		
When:	Where:	\square Piercing				
☐ Contact is HIV positive	/e	☐ Shared drug	g use equipment			
☐Contact is hepatitis B positive		☐ Shared pers	☐ Shared personal items, e.g. toothbrush, razorblades			
☐ Correctional facility		☐ Sex worker				
☐ Electrolysis		☐ Sex with opp	oosite sex			
When:	Where:	☐ Sex with san	ne sex			
\square Fighting, biting, bloo	d brother	☐ Tattoo				
\square High risk sexual activ	rity	☐ Travel/live in	n country where hep	atitis B is endemic		
\square Homeless/underhou	sed	When:	Wh	nere:		
☐ Inhalation drug use		□ Unknown				
\square Injection drug use		☐ Other:	☐ Other:			
☐ Intranasal drug use						
☐ Occupational exposu	re to potentially hepatiti	s B				
contaminated body f	luids					
Education/ Follow-up				□ Syphilis h teaching? □No □Ye		
		ii nepatitis b statas ana	provided with heart	ir teaching.		
 Discussing what Discussing regu Informing client Discussing the a If applicable, ad recommendation 2. Has the client been	to have household/sexu the HBV is and how it is tran lar follow up with Health not to donate blood, orgonial available free hepatitis A id lyise client to refer to the ons/restrictions referred to a specialist?	nsmitted – preventions, Care Provider gans, tissue or semen immunization for client ir professional college f	precautions and incl and free hepatitis B for further infection r	immunization for contacts eporting and any practice		
3. Would you like a he	patitis B education packa	ige sent to the client?	□ No □ Yes – if yes	s: \square English \square Chinese		
Comments:						

To order free hepatitis A vaccine (available to persons who have chronic liver disease; including hepatitis C, injection drug users and men who have sex with men) for this client, or free hepatitis B vaccine for this client's household contact(s) and sexual contact(s), please fax vaccine order form to (905) 830-0578. If you are a health care provider who practices outside of York Region, please order your hepatitis B vaccine through your vaccine provider.

Serology Testing Markers for Hepatitis B

Stage	HBsAg	Anti-HBc Total (IgG + IgM)	Anti-HBc IgM	HBeAg	Hepatitis B viral DNA	Anti-HBs
Acute (early)	+	+	+	+	+	-
Acute (resolving)	+	+	+	-	-	-
Chronic	+	+	-	+/-	+/-	-
Resolved/Immune	-	+	N/A	-	-	+/-*
Vaccinated	-	-	N/A	-	-	+* ^β

^{*} In some patients, anti-HBs may decline over time and become undetectable.

Significance of HBV Serological Markers

			
HBsAg	First marker of HBV infection to appear, 1 to 3 weeks before symptoms		
	 Presence indicates person is infectious 		
(surface antigen)	When present with anti-HBc IgM, may indicate acute infection		
	 Persistence >6 months indicates chronic infection 	on	
	 Disappears with resolution of acute infection 		
Anti-HBc Total	Appears around time of symptom onset		
(total core antibody –	Lifelong marker of past infection regardless of whether patient is immune or a chronic carrier		
IgM and IgG)	Does not indicate immunity		
18.11 4.14 1807	 Present only in those who have acquired natural infection and does not appear after vaccination 		
Isolated antibody to	Possible Interpretations:	Possible Options to Consider:	
hepatitis B core	1) The client is in the "window phase" of an acute	→ Test for anti-HBc IgM and/or repeat	
(appears in the absence of	infection	testing in several weeks	
other positive markers)	2) Chronic infection with HBsAg that is escaping	\ (
Rarely occurs; most	detection due to mutated virus or low level of circulating surface antigen	→ Test for HBV DNA (PCR)	
common in		→ Give a challenge dose of vaccine and	
immunocompromised	3) A remote resolved infection	test for antibodies in 1 month	
people and those	4) This way has a false manitive test we will	→ Retest in 6 months or give 3 doses of	
co-infected with HIV or HCV	4) This may be a false positive test result	vaccine and test for antibodies	
Anti-HBc IgM	Marker of recent acute infection		
(core antibody - IgM)	May persist for up to 6-12 months before becoming undetectable		
(**************************************	 May be the only marker during window period when HBsAg is undetectable but before 		
	anti-HBs appears		
IID - A -	May reappear in a chronic carrier during a flare (reactivation of virus) Agreement the before surpostores.		
HBeAg	Appears shortly before symptoms	an anaka an alamania infantian	
(e-antigen)	Detectable during active viral replication in eith	er acute or chronic injection	
(e-antigen)	Indicates high infectivity		
	Persistence >6 months indicates chronic infection		
HBV DNA	A direct measure of the hepatitis B virus in the blood		
Anti-HBs (surface	 Appears 1 to 3 months after immunization or resolution from acute infection 		
antibody)	Indicates immunity to HBV infection		
	 If present with positive HBsAg; the person is considered infectious 		
Anti-HBe	Appears within a few weeks of loss of HBeAg		
	 Indicates a decline in infectivity and corresponds to resolution of infection 		
(e-antibody)	Could also indicate active infection with a mutant strain of virus that does not induce		
'''	production of "e" antigen		

^β About 5-10% of people will not respond to the vaccine or do not produce protective levels of antibody post-vaccination (i.e., ≥10 IU/ml). Reference: *Primary Care Management of Hepatitis B – Quick Reference*, Public Health Agency of Canada, 2013