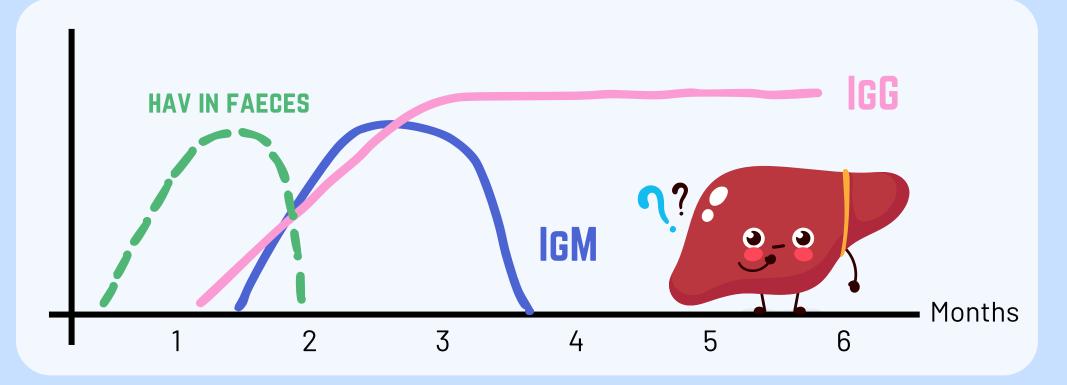


HEPATITIS SEROLOGY

MUM MS

HAV SEROLOGY



- Anti-HAV IgM: acute hepatitis A infection
- Anti-HAV IgG: immunity to hepatitis A from past infection or vaccination

TOTAL ANTI-HAV	ANTI-HAV IgM	INTERPRETATION	
+	+	Current infection, recent infection, or recent vaccination	
+	Previous infection or vaccination		
-	_	Not infected ie. susceptible	

HBV SEROLOGY

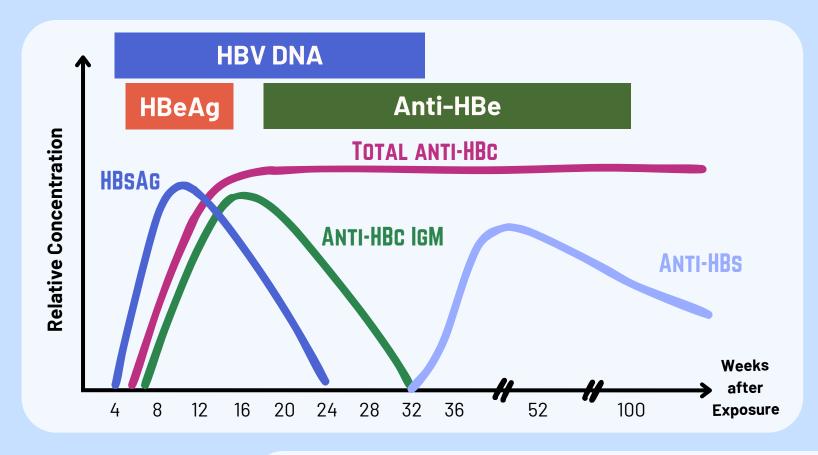
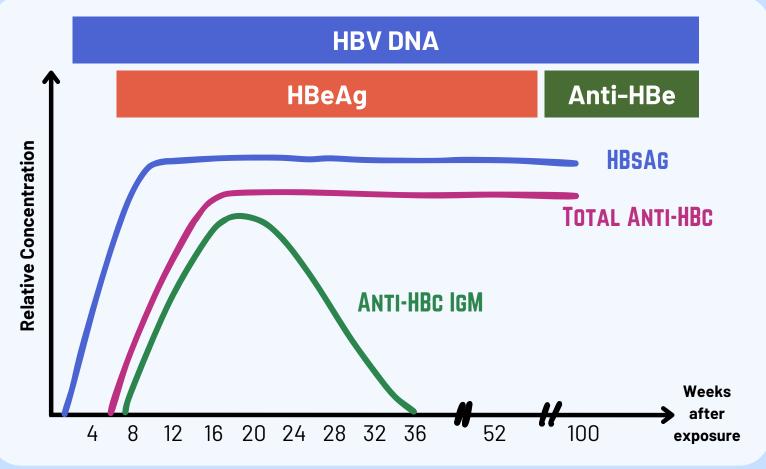


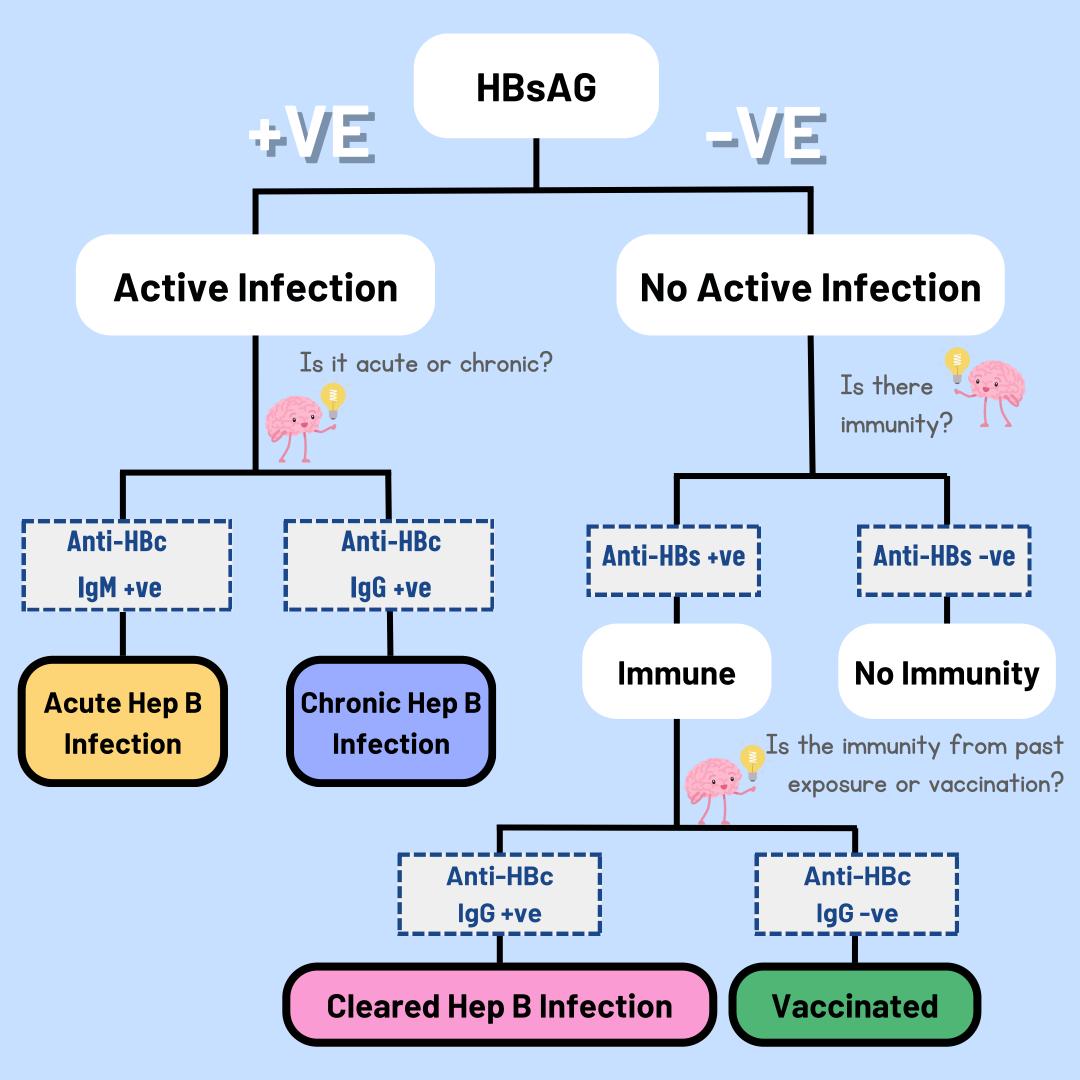
Table I
Typical serologic
course of acute
Hepatits B to
recovery

Table 2
Typical
serologic course
of progression
to chronic
Hepatitis B



HBV SEROLOGY

HBsAG	Acute HBV infectionChronic HBV infection	
Anti-HBs	Immunity from past exposureImmunity from vaccination	
Anti-HBc lgM	Acute HBV infection	
Anti-HBc lgG	Immunity from past exposure	
Total Anti-HBc	 Natural infection (current / past exposure) 	
HBeAG	 Virus replicating → high infectivity 	
HBV DNA	 Acute HBV infection Chronic HBV infection (if detectable for ≥6 months) 	

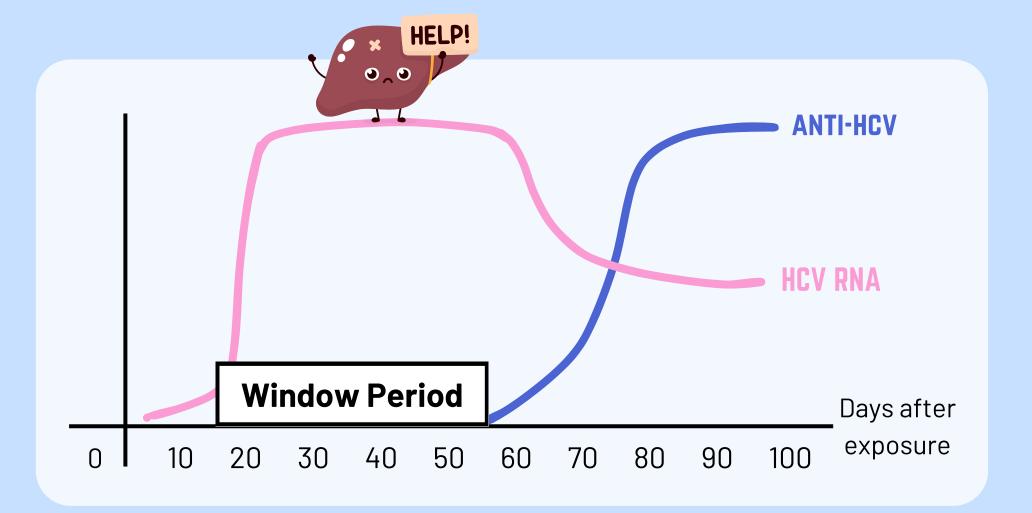




SUMMARY

	HBsAG	Anti-HBs	Total Anti-HBc	Anti-HBc IgM	HBV DNA
Acute HBV Infection	+		♣ (IgM)	+	+
Chronic HBV Infection	+		♣ (IgG)		+
Recovered from past infection & immune		+	♣ (IgG)		
Immunity from vaccination	_	+			

HCV SEROLOGY



Anti-HCV	HCV RNA	INTERPRETATION
+		Current HCV infection, or past HCV infection that has resolved Recommend testing for HCV RNA to identify current infection
+	+	Current HCV infection
+	_	Cleared HCV infection Natural clearance/successful treatment

LET'S TRY THIS QUESTION

COMMENT YOUR ANSWERS BELOW!

A patient has abnormal levels of liver enzymes and the following other laboratory findings when screened for Hepatitis B virus (HBV) infection:

Hepatitis B surface antigen
Antibody to Hepatitis B surface antigen
IgG antibody to Hepatitis B core antigen
IgM antibody to Hepatitis B core antigen
Hepatitis B e antigen
HBV DNA

Negative
Positive
Positive
Negative
Negative

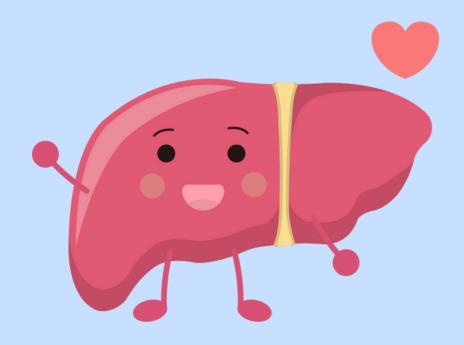
Undetected

Which of the following is the most likely diagnosis?

- A. Acute HBV infection
- **B. Chronic HBV infection**
- C. Immunity from previous HBV immunisation
- D. Immunity from previous HBV infection



WE HOPE THIS HELPS!



FOLLOW US!

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MUM IMS

REFERENCES



- 1. MIMS medical microbiology
- 2.CDC

<u>https://www.cdc.gov/hepatitis/statistics/surveillanceguidance/HepatitisA.htm</u>

3.CDC

<u>https://www.cdc.gov/hepatitis/statistics/surveillanceguidance/HepatitisB.htm</u>

4.CDC

<u>https://www.cdc.gov/hepatitis/statistics/surveillanceguidance/HepatitisC.htm</u>

- 5.CDC
 - <u>https://www.cdc.gov/hepatitis/statistics/Surveillance</u> <u>Guidance/Appendices.htm#Appendix-B</u>
- 6. Y2S1 viral hepatitis slides by Dr Amreeta

