

ashm DECISION MAKING IN HEPATITIS B



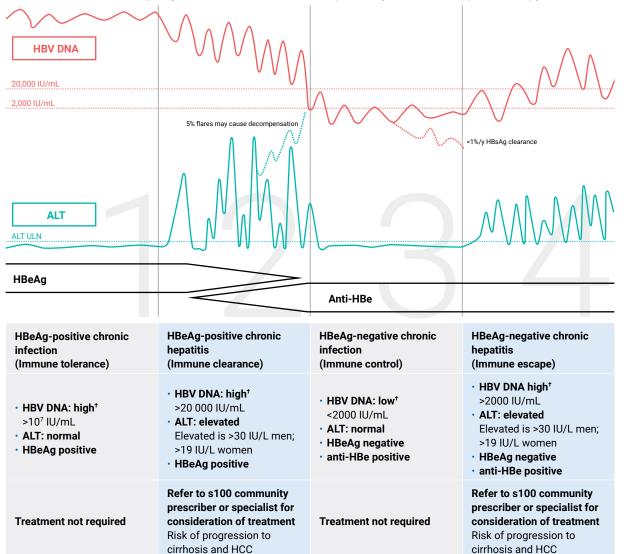
When to test	2 Order tests	3 Interpre	et serviog	9	4 Initial assessment if HBsAg positiv
People who should be offered testing: People born in intermediate or high prevalence country (offer interpreter) Aboriginal and Torres Strait Islander peoples	To determine hepatitis B status, order 3 tests. Request: • HBsAg	HBsAg anti-HBc anti-HBs	positive positive negative	Chronic HBV Infection Progress to step 4	 Baseline screening to assess phase of disease: HBeAg and anti-HBe HBV DNA (quantitative) Full blood count
Patients undergoing chemotherapy or immunosuppressive therapy (risk of reactivation) Pregnant women Infants and children born to mothers who have HBV (>9 months)	 (hepatitis B surface antigen) anti-HBc (hepatitis B core antibody) anti-HBs (hepatitis B surface antibody) If acute HBV is suspected (through recent risk, presentation, or both), anti-HBc IgM can also be ordered. 	HBsAg anti-HBc anti-HBc IgM* anti-HBs	positive positive positive negative	Acute HBV Infection * (high titre) Progress to step 4	 LFT, INR and alpha fetoprotein (AFP) Liver ultrasound Refer to graph on next page to determine phase of disease:
People with clinical presentation of liver disease and/or elevated ALT/AFP of unknown aetiology Health professionals who perform exposure prone procedures Partner/household/sexual contacts of people with acute or chronic HBV People who have ever injected drugs		HBsAg anti-HBc anti-HBs	negative negative negative	Susceptible or non-immune When there is no documented history of completed vaccination, then vaccination is recommended [†]	 In addition: Test for HAV, HCV, HDV and HIV to check for co-infection. Discuss vaccination if susceptible to HA and discuss transmission and prevention of BBVs. Screen household contacts and sexual partners for HBsAg, anti-HBs and anti-HBc, then vaccinate if susceptible to infection. Vaccination is recommended for all high-risk groups and is provided free in many cases. Contact your local Health Department for details. Assess liver fibrosis – cirrhotic status: Signs of cirrhosis Non-invasive assessment of fibrosis: Serum biomarkers such as APRI (1.0 or less, cirrhosis unlikely)[‡] FibroScan assessment if available
Men who have sex with men People with multiple sex partners People in custodial settings or who have ever been in custodial settings People with HIV or hepatitis C, or both		HBsAg anti-HBc anti-HBs	negative positive positive	Immune due to resolved infection Record result and consider family screening	
People with Fiv of hepatitis C, of both Patients undergoing dialysis Sex workers People initiating HIV pre-exposure prophylaxis (PrEP) Additionally, testing should be offered to anyone	you can determine susceptibility, immunity through vaccination or past infection, or current	HBsAg anti-HBc anti-HBs	negative negative positive	Immune due to hepatitis B vaccination No action required	
Vhen gaining informed consent before testing, liscuss: Need for an interpreter Reason for testing Personal implications of a positive test result Availability of treatment	infection. All 3 tests are Medicare rebatable simultaneously. Write '? chronic hepatitis B' or similar on the request slip.	HBsAg anti-HBc anti-HBs	negative positive negative	Various possibilities, including: distant resolved infection, recovering from acute HBV, false positive, 'occult' HBV Refer to <u>bpositive.org.au</u> for more details	 (>12.5 kPa consistent with cirrhosis) REFER TO OR DISCUSS WITH A SPECIALIST IF: Severe exacerbation (or acute HBV) Co-infection with HIV, HCV, or HDV Cirrhosis is present or like

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[©]−HBV

5 Assess phase of infection



Patients with CHB must be regularly re-evaluated to determine which phase they are in and managed accordingly.

⁺ Medicare covers HBV DNA testing once per year for patients not on treatment and 4 times per year for patient on treatment.











6 Provide ongoing monitoring

Regular monitoring is required to identify virological response, resistance and hepatitis flares, and to encourage adherence.

Indication	Monitoring specific to phase	PLUS, monitoring for all phases
HBeAg-positive chronic infection (Immune tolerance)	 Liver function tests (6-monthly) HBV DNA (12-monthly)[†] HBeAg and anti-HBe (6-12 monthly) Assess for liver fibrosis (12-monthly) 	 Periodic review of household contacts and sexual partners where appropriate If indicated (see below): HCC surveillance
HBeAg-negative chronic infection (Immune control)	 Liver function tests (6-monthly) HBV DNA (12-monthly)[†] Assess for liver fibrosis (12-monthly) 	
On treatment HBeAg-negative chronic hepatitis (Immune escape) HBeAg-positive chronic hepatitis (Immune clearance)	 3-monthly for the first year, then 6-monthly: Liver and renal function tests HBV DNA[†] Serum phosphate if on tenofovir disoproxil fumarate (TDF) In addition: If HBeAg positive at baseline: HBeAg/anti-HBe (6-12 monthly) If HBV DNA undetectable: HBsAg/ anti-HBs (12 monthly) If cirrhotic: FBE and INR (3-monthly for the first year, then 6 monthly) Also assess adherence to treatment every review. 	
	ars with a family legree relative). <i>veillance 10</i> <i>case in a family.</i> people ≥ 50 years • Aboriginal and Torres people with high risk for years.^ • Asian -Pacific males ≥	Strait Islander Strait Islander eatures ≥ 40 40 years

* These surveillance guidelines are based on the Clinical Practice Guidelines for HCC Surveillance for people at high risk in Australia (Cancer Council, April 2023). Alternative guidelines are offered in the Australian recommendations for the management of hepatocellular carcinoma: a consensus statement (GESA). "Such as confirmed or likely high risk HBV genotype. Genotype testing is not routinely offered and not subsidised through the Medicare Benefits Schedule.