# Management of Adult Patients with Chronic Hepatitis B (CHB) in Primary Care - Summary

Clinical assessment

## Initial assessment and triage of CHB patients

#### **Initial Assessment**

- History
- Physical examination
- Baseline blood tests
- Non-invasive tests for liver fibrosis (e.g. AST-to-platelet ratio (APRI), Fibrosis-4 index (FIB-4) and transient elastography)
- Consider liver ultrasonography (USG)

Having conditions requiring referral to hepatology?

Refer to **hepatology** 

Counselling

• Reinforce the importance

of lifelong monitoring

• Promote a healthy diet

Advise on preventive

measures against HBV

and lifestyle

transmission

Assess the **need for antiviral** and advise monitoring frequency

## **Indications for antiviral treatment**

Yes

No

- CHB patients with advanced fibrosis (liver stiffness measurement (LSM) > 9 kPa), cirrhosis, decompensated liver disease, or HCC; and detectable HBV DNA
- CHB patients with **elevated ALT** (> upper limit of normal (ULN) [ i.e. 35 U/L for males and 25 U/L for females]) and HBV DNA > 2000 IU/mL, regardless of HBeAg status
- Pre-emptive treatment for patients on anti-cancer chemotherapy or **immunosuppressive therapy** at risk of hepatitis B reactivation
- **Transplant patients** with hepatitis B infection
- **Pregnant women** with HBV DNA > 200,000 IU/mL

#### Subgroups of CHB patients requiring hepatology care



Patients with **complications** of CHB



Patients with **concurrent liver conditions** 



Patients with **liver lesions** 



- Co-infection with HCV or HIV
- Pregnant women with high viral load
- Patients on immunosuppressive therapy at risk of HBV reactivation

Please refer to Management of Adult Patients with Chronic Hepatitis B in Primary Care (September 2023) for details, which is accessible at www.hepatitis.gov.hk.

## Monitoring of CHB patients

Regular monitoring is **necessary** for all patients with CHB, which consists of the following:

<ul> <li>Signs and symptoms of decompensation</li> <li>Laboratory investigations</li> </ul>			
Test	Testing interval	Remarks	
Liver function test (LFT)	Every 6 months	Every 3 – 6 months for HBeAg+ patients not yet on treatment	
Alpha-fetoprotein (AFP)	Every 6 months		
HBV DNA	Every 6 - 12 months	Every 6 months during the 1st year of treatment, then yearly	
APRI	Yearly	Derived from complete blood count test and AST from LFT	
HBeAg and anti-HBe (for HBeAg+ve patients)	Yearly until HBeAg seroconversion		
HBsAg (for HBeAg-ve patients)	Yearly		
Renal function test (RFT), including eGFR (for patients on treatment)	Every 6 months	With serum phosphate if on tenofovir	

Note: Adjust monitoring interval according to stage of disease and need for antiviral

#### **HCC** surveillance

	Patients with family history of HCC Women over 50 years of age	<u>Мо</u> • А • С
Other criteria for referral from primary care to hepatology	Stratification of CHB patients & bidirectional referral	
<ul> <li>Unexplained deranged liver function</li> <li>Severe acute hepatitis / acute-on-chronic liver failure</li> <li>Virological breakthrough in patients receiving antiviral treatment</li> <li>Abnormal AFP</li> </ul>	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	

- Evaluate **need for antiviral treatment** if not yet on treatment > Start treatment if fulfill indications Monitor adherence if on treatment Review need for **specialist referral**  Consider periodic non-invasive test for assessment of **liver fibrosis** (e.g. transient elastography) Recommend hepatocellular carcinoma (HCC) surveillance with
  - **USG** in patients at increased risk

#### dalities

AFP should be performed every 6 months; **and** JSG of the liver, preferably every 6 months, hould be recommended

> Criteria for referral from hepatology to primary care

CHB patients with stable liver conditions over the past year Absence of symptoms and signs of advanced liver disease and Normal ALT and AFP, or stably elevated ALT (< 3x ULN) after exclusion of other causes and > No change in antiviral medication and Absence of advanced fibrosis (LSM < 9 kPa)</p> with fibrosis assessment within 3 years