

Treating Hepatitis B: Hepatitis B Foundation Position Statement

Hepatitis B Foundation takes the position that all people living with chronic hepatitis B and having any detectable hepatitis B viral DNA in the blood^a, should be considered eligible and offered treatment with currently available therapeutics, if ANY one of the following criteria is met:

1. They have a family history of cirrhosis or HCC;
2. They are older than 30 years of age^b;
3. They request treatment^c;
4. They have evidence of liver inflammation or liver damage^d;
5. They have co-morbidities or other risk factors that support treatment^e.

*statement notes a,b,c,d,e follow on page 3.

The position statement is intended to buttress the position of other expert organizations, promote the delivery of patient-centered care, simplify and help close current gaps in treatment, and ultimately achieve hepatitis B elimination equitably.

The statement reflects real-world situations where treatment decisions may be influenced by environment, circumstances, and resources. Critically, this statement brings the patient voice and community experience to the table – while remaining supported by science and expert opinion.

Statement Commentary

In 2022, the HBF convened a workshop of 32 experts to consider to what extent, if any, the current standard of care for managing chronic hepatitis B should be modified. The group consisted of hepatologists, primary care practitioners, infectious disease specialists, virologists, public health professionals, and people living with hepatitis B. The consensus was that an expansion of the treatment guidelines should be considered. The HBF developed this position statement in response to that workshop, and consulted over 50 experts clinicians, scientists, and people with lived experience in the crafting of this statement. Those supporting the position are signatories (below).

During development of this statement, there were many opinions regarding specific criteria for treatment eligibility. This included age (thoughts on changing or removing the lower age limit), HBV DNA level (thoughts on changing criteria to HBV DNA >2,000 IU/mL), and the roles of HBeAg, ALT and genotype in treatment eligibility. There was much discussion especially around the acceptable level of HBV DNA to offer antiviral treatment. Ultimately, the decision to include any detectable HBV DNA (versus HBV DNA >2,000 IU/mL) reflects the majority opinion, and the scientific evidence that any viral replication seen in a blood sample reflects increased viral activity taking place in the liver¹.



This HBF position statement is largely consistent with the 2023 published guidelines from the China Medical Association², (who used the current body of published literature to make their recommendations, deemed “B” level), as well as our experience with patients and providers.

More background regarding some of the basis of these positions can be found in Roma et al³ and Wong et al⁴.

This statement is not meant to be prescriptive. The statement does not posit that individuals with any detectable HBV DNA should start antivirals based on this recommendation alone. The statement is intended to open up the possibility of treatment initiation for more individuals, based on simple factors related to risk, and removing the need for sometimes hard-to-access tests. When there is access to the full range of tests to stratify risk, those should, of course, be used.

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Statement Notes

a. Viral DNA

- If DNA testing is not available, treatment decisions can rely upon other factors such as age, family history, medical status, comorbidities and/or patient preference.
- This is intended to be sensitive and responsive to the difference needs and resources of global communities. Comprehensive evaluation with additional lab tests and investigations to assess risk (i.e. genotype, mutations, viral load) are not discouraged if accessible and not a burden to patients. More nuanced risk assessment can be made according to other guidelines/guidance, but this position statement provides a broader, more inclusive approach to hepatitis B.

- In places where there is little access to birth dose and no access to viral load testing, decisions should err on the side of treating pregnant people.
- b. Age
 - In communities where liver cancer occurs in younger people with chronic hepatitis B, and in regions or communities where pediatric prevalence remains relatively high, treatment can be initiated at younger ages, if agreed upon by the provider and patient.
 - In regions where the majority genotype is associated with increased incidence of HCC, treatment should be considered at earlier ages, though we understand that genotyping is less available in low- and middle-income countries.
- c. Patient Preference
 - In all circumstances, patient preference must be considered. Patient preference to be treated, or not to be treated, should be respected.
 - Treatment should be based on shared decision making between providers and patients, who should have flexibility to make treatment decisions based upon the specific circumstances in their situation.
 - Patients should be fully informed about risk of progression, treatment criteria, and reasons they are being considered for treatment. This information should be conferred in a way that is reflective of the patient’s health literacy and culture.
 - Patients should be fully informed about the importance of following treatment protocol, to work towards improving long-term antiviral adherence.
 - The idea of treatment as prevention – both to prevent liver cancer and to prevent transmission of HBV to others can be used to guide treatment decisions. This should coincide messaging and reassurance about vaccination as the most effective transmission prevention tool. In the development of this position statement, there was some concern about including language on “treatment as prevention,” but the majority felt that this statement was important to include.
- d. Liver Damage
 - Evidence of liver inflammation, including mild inflammation reflective of elevated ALT, or liver damage, including advanced fibrosis or cirrhosis.
- e. Co-infection/superinfection with HIV, HCV, or HDV should be a strong consideration for treatment at any HBV DNA level.

References

1. Pierra Rouviere C, Dousson CB, Tavis JE. HBV replication inhibitors. *Antiviral Res.* 2020 Jul;179:104815.
2. You H, Wang F, Li T, et al. Guidelines for the Prevention and Treatment of Chronic Hepatitis B (version 2022). *J Clin Transl Hepatol.* 2023;11(6):1425-1442.
3. Roma, K., Hsu, M., Khattak, A. and Gish, R., 2023. Evidence-Based Strategies for Micro-elimination of Chronic Hepatitis B Virus Infection. *Current Hepatology Reports*, 22(3), pp.118-129.
4. Wong, R.J., Kaufman, H.W., Niles, J.K., Kapoor, H. and Gish, R.G., 2023. Simplifying treatment criteria in chronic hepatitis B: reducing barriers to elimination. *Clinical Infectious Diseases*, 76(3), pp.e791-e800.