

# American Society of Clinical Oncology Provisional Clinical Opinion: Chronic Hepatitis B Virus Infection Screening in Patients Receiving Cytotoxic Chemotherapy for Treatment of Malignant Diseases

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## ABSTRACT

### Purpose

An American Society of Clinical Oncology (ASCO) provisional clinical opinion (PCO) offers timely clinical direction to ASCO's membership following publication or presentation of potentially practice-changing information. This PCO addresses recommendations for chronic hepatitis B virus (HBV) infection screening in patients receiving cytotoxic or immunosuppressive chemotherapy for treatment of malignant diseases.

### Clinical Context

The Centers for Disease Control and Prevention (CDC) issued Recommendations for Identification and Public Health Management of Persons with Chronic Hepatitis B Virus Infection, recommending screening for hepatitis B infection (hepatitis B surface antigen [HBsAg], antihepatitis B core antigen [anti-HBc], and antibodies to HBsAg [anti-HBs]) for "persons receiving cytotoxic or immunosuppressive therapy (eg, chemotherapy for malignant diseases...)."

### Provisional Clinical Opinion

**The evidence is insufficient to determine the net benefits and harms of routine screening for chronic HBV infection in individuals with cancer who are about to receive cytotoxic or immunosuppressive therapy or who are already receiving therapy. Individuals with cancer who undergo certain cytotoxic or immunosuppressive therapies and have HBV infection or prior exposure to HBV may be at elevated risk of liver failure from HBV reactivation. As such, HBV screening requires clinical judgment. Physicians may consider screening patients belonging to groups at heightened risk for chronic HBV infection or if highly immunosuppressive therapy is planned. Highly immunosuppressive treatments include, but are not limited to, hematopoietic cell transplantation and regimens including rituximab. Screening based on a high risk of prior HBV exposure or risk of reactivation due to planned therapeutic regimens should include testing for HBsAg as a serologic marker for HBV infection. In some populations, testing for anti-HBc should also be considered. There is no evidence to support serologic testing for anti-HBs in this context. When evidence for chronic HBV infection is found, antiviral therapy before and throughout the course of chemotherapy may be considered to reduce the risk of HBV reactivation, although evidence from controlled trials of this approach is limited. Screening and/or treating HBV infection should not delay the initiation of chemotherapy.**

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