

Effectiveness of drugs to prevent hepatitis among patients receiving chemotherapy

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Among patients with lymphoma undergoing a certain type of chemotherapy, receiving the antiviral drug entecavir resulted in a lower incidence of hepatitis B virus (HBV)-related hepatitis and HBV reactivation, compared with the antiviral drug lamivudine, according to a study in the December 17 issue of JAMA.

Hepatitis B virus reactivation is a well-documented chemotherapy complication, with diverse manifestations including life-threatening liver failure, as well as delays in chemotherapy or premature termination, all of which can jeopardize clinical outcomes. The reported incidence of HBV reactivation in patients seropositive for the hepatitis needed to determine whether all patients B surface antigen undergoing chemotherapy is 26 percent to 53 percent. This HBV reactivation risk exists for patients with lymphoma treated with chemotherapies containing the drug rituximab. An optimal approach to prevention of HBV reactivation has not been determined, according to background information in the article.

He Huang, M.D., of the Sun Yat-sen University Cancer Center, Guangzhou, China, and colleagues randomly assigned 121 patients seropositive for the hepatitis B surface antigen with untreated diffuse large B-cell lymphoma receiving chemotherapy treatment with rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisone (R-CHOP) to either entecavir (n = 61)or lamivudine (n = 60). Patients received these drugs beginning 1 week before the initiation of R-CHOP treatment to 6 months after completion of chemotherapy. The study was conducted from February 2008 through December 2012 at 10 medical centers in China. This trial was a substudy of a parent study designed to compare a 3-week with a 2-week R-CHOP chemotherapy regimen for untreated diffuse large B-cell lymphoma.

The date of last patient follow-up was May 25, 2013. The researchers found that the rates were significantly lower for the entecavir group vs the

lamivudine group for hepatitis (8.2 percent vs 23.3 percent), HBV-related hepatitis (0 percent vs 13.3 percent), HBV reactivation (6.6 percent vs 30 percent), delayed hepatitis B (0 percent vs 8.3 percent), and chemotherapy disruption (1.6 percent vs 18.3 percent).

Of the patients in the entecavir group, 24.6 percent experienced treatment-related adverse events, compared to 30.0 percent of patients in the lamivudine group.

The authors note that because entecavir is more expensive than lamivudine, further studies are seropositive for the hepatitis B surface antigen who receive rituximab-based immunosuppressive therapy should be given entecavir to prevent HBV flares and to determine which patients will benefit most from entecavir prophylaxis.

"If replicated, these findings support the use of entecavir in these patients."

Jeremy S. Abramson, M.D., and Raymond T. Chung, M.D., of Massachusetts General Hospital, Boston, comment on the findings of this study in an accompanying editorial.

"For HBV carriers as well as patients with cleared HBV infection, entecavir prophylaxis can be recommended to reduce the rate of HBV reactivation and hepatitis. For patients unable to receive antiviral prophylaxis, HBV DNA viral loads must be closely monitored during and after completion of chemotherapy. A more nuanced approach may be possible, in which patients at low risk for HBV reactivation can be identified and preferentially followed up with surveillance alone, such as those who are seropositive for both the core antibody and surface antibody. The answer to this question warrants ongoing investigation, as does the definition of the optimal duration of prophylactic antiviral therapy. The screening for



and management of patients infected with HBV who receive chemotherapy should be viewed as nothing less than optimal care of <u>patients</u> with lymphoma."

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