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Seroprevalence and risk factors of Hepatitis delta virus in chronic Hepatitis B virus infection in Tajikistan

Ramazanova Zamira and Dustov Abdusamad

Institute of Gastroenterology Ministry of Health and Social Protection, Tajikistan

Hepatitis delta virus (HDV) infection results in more severe and even fulminant form of hepatitis B in co-infected cases. This study was designed to estimate the prevalence of anti-HDV positivity and the associated risk factors in patients with chronic hepatitis B virus infection in Tajikistan. In this cross-sectional study a total of 440 consecutive patients with chronic hepatitis B virus (HBV) infection attending the Institute Gastroenterology of the Ministry of Health, Republic of Tajikistan clinic from 2014 to 2017 were included. We performed test for HDV serum marker, using commercially available enzyme-linked immunosorbent assay kit. Patients were split into two groups according to their HDV antibody status as HDV positive or negative. The collected data were coded, and the statistical analyses were conducted. 440 patients with various forms of chronic HBV-related liver diseases enrolled in the study. 200 (45.5%) patients were carrier for HBV. 196 (44.5%) patients had chronic active hepatitis and 44 (10%) patients suffered from cirrhosis. Anti-HDV was demonstrated in 75 patients (17%). The prevalence of HDV was 7%, 16.3% and 65.9% in carriers, patients with chronic active hepatitis and cirrhosis, respectively. HDV infection is still an important public health problem in Tajikistan and appears a major cause of progression of liver disease induced by HBV.

Recent Publications:

1. Husa P, Linhartova A, Nemecek V, Husova L. Hepatitis D. *Acta Virol.* 2005;49(4):219-25.
2. Govindarajan S, Chin KP, Redeker AG, Peters RL. Fulminant B viral hepatitis: role of delta agent. *Gastroenterology.* 1984;86(6):1417-20.
3. Rizzetto M, Canese MG, Aricò S, Crivelli O, Trepo C, Bonino F, Verme G. Immunofluorescence detection of new antigen-antibody system (delta/anti-delta) associated to hepatitis B virus in liver and in serum of HBsAg carriers. *Gut.* 1977;18(12):997-1003.
4. Hughes SA, Wedemeyer H, Harrison PM. Hepatitis delta virus. *Lancet* 2011 Apr 19
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Biography

Ramazanova Zamira is of age 63 years from Institute of Gastroenterology of the Republic of Tajikistan. She works at the Department of virology, Institute of Gastroenterology of the Republic of Tajikistan. She has published more than 30 papers in reputed journals.

dustovsamad@gmail.co