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Hepatitis B virus pre-S/S variants in liver diseases

Chen BF. HBV pre-S/S mutants

Bing-Fang Chen

Abstract

Chronic hepatitis B is a global health problem. The clinical outcomes of chronic hepatitis B infection include asymptomatic carrier state, chronic hepatitis (CH), liver cirrhosis (LC), and hepatocellular carcinoma (HCC). Because of the spontaneous error rate inherent to viral reverse transcriptase, the hepatitis B virus (HBV) genome evolves during the course of infection under the antiviral pressure of host immunity. The clinical significance of pre-S/S variants has become increasingly recognized in patients with chronic HBV infection. Pre-S/S

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is composed of three forms of HBsAg sharing 226 amino acids at the C-terminus: the large (coded using the preS1/S2/S gene), middle (the preS2/S gene), and small (the S gene) envelope proteins.

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The emergence and takeover of hepatitis B virus (HBV) variants carrying mutation(s) in the preS/S genomic region is a fairly frequent event that may occur Although experimental studies definitively confirming the suspected role of preS2-defective HBV in the pathogenesis of the acute liver failure are still lacking, it is ...

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Background & Aims: This longitudinal study investigated the interactions and roles of hepatitis B virus (HBV) genotypes, pre-S deletions, and core promoter and precore mutations on the progression of liver disease in hepatitis B e antigen (HBeAg)-negative patients. Methods: A total of 141 HBeAg-negative patients without ...

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S and much more frequently preS HBV mutants have been found in association with different, severe forms of acute and chronic liver disease, including fulminant hepatitis (FH), fibrosing cholestatic hepatitis (FCH) and cirrhosis. Actually, emergence and selection of preS variants is a fairly common event in HBV chronically ...

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It has been reported that hepatitis B virus (HBV) mutants carrying mutations in the pre-S region can be found in infected patients. ... We therefore investigated the correlation of the HBV pre-S mutation with clinical manifestation of liver diseases as well as the association with HBV genotypes in various geographic regions, ...

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