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Impact of Viral Hepatitis on Apo- and Lipoprotein Status in Blood

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Abstract

Objectives: To investigate the effect of viral hepatitis on serum levels of apo- and lipoproteins in different forms of liver diseases.

Materials and Methods: One hundred and thirty adult patients and 100 healthy age- and gender-matched control individuals participated in this study. Patients were grouped according to four types of liver disease: acute viral hepatitis, chronic active hepatitis (CAH), cirrhosis of the liver and fulminant hepatic failure.

Results: Hepatitis B virus, C virus and E virus (HEV) infections were recorded in different combinations in these patients, but viral infections of hepatitis A and D were not seen in any of the patient groups. The results of lipo- and apoprotein analysis showed different patterns. The low-density lipoprotein value was high in the CAH group. In the other three groups, low-density lipoprotein level was comparable to the control value. The high-density lipoprotein level ($p = 0.02$) was significantly low in all groups except in the cirrhosis group. Apo-A was significantly reduced in the acute viral hepatitis and fulminant hepatic failure groups, whereas Apo-B level was low in the CAH and cirrhosis groups. The lipoprotein (a) level in these groups was low, compared to control. **Conclusion:** No apparent relationship was observed between etiological viruses and ensuing changes in lipid/lipoprotein profile.

Keywords: Hepatitis Apoprotein High-density lipoprotein Lipoprotein (a) Low-density lipoprotein

References: Tandon BN, Gandhi BM, Joshi YK, Gupta H, Irshad M: Subclinical hepatitis A in north Indian children. Lancet 1984;11:335–336.