

Lipid profile V/s. Severity of Cirrhosis: A Child Pugh (CP) Score Based Study

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ABSTRACT

As it is already known that assessment of prognosis in liver cirrhosis, is currently done by Child–Pugh and Model for End-Stage Liver Disease (MELD) scores. Liver plays a vital role in synthesis, storage and metabolism of lipids. Synthesis, storage and metabolism of lipids is affected with development of cirrhosis. The important lipids in human are cholesterol, high density lipoproteins, very low density lipoproteins, low density lipoproteins and triglycerides. It is reasonable to expect an abnormal lipid profile in those with severe liver dysfunction. Hence the aim of this study was to find out of lipid profile in patients with liver cirrhosis and its correlation with severity of cirrhosis.

A brief history was taken and per abdomen examination was done of all Suspected Patients. Ultrasonography (USG) abdomen was also done to look for cirrhotic changes in the liver. A Prospective cross sectional study was done on 50 patients with cirrhosis of liver. We also did Liver function test (LFT) and Serum Fasting Lipid Profile. Child pugh scoring was done in all cirrhotic patients. Severity of liver cirrhosis by child pugh score was correlated with serum lipid profile of cirrhotic patients. Mean serum total cholesterol (TC), Low density lipoprotein(LDL), Very low density lipoprotein(VLDL), High density lipoprotein (HDL) and Triglyceride (TGs) were lower in patients with cirrhosis of liver. Serum lipid progressively decreased with increasing severity of cirrhosis by child pugh score. Except Low density lipoprotein LDL, all the four parameters (High density lipoprotein HDL, Triglyceride, total cholesterol and Very low density lipoprotein VLDL) had statistically significant association with the severity of cirrhosis by child pugh class, while Low density lipoprotein (LDL) had not statistically significant association with severity of cirrhosis.