



TITLE: Relation between 25-hydroxy vitamin D level in blood and liver dysfunction in chronic hepatitis C patients

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ABSTRACT

Context: Vitamin D regulates the expression of over 200 different genes and it has also effect in treatment of asthma, type-1 diabetes mellitus also decrease the risk of developing cancers. The prevalence of Vitamin D insufficiency has been estimated to range from a minimum of about 50% to a maximum of perhaps 75% or greater. The aim of this study is to assess the relation between serum 25-hydroxy Vitamin D level and liver dysfunction in chronic hepatitis c patients.

Patients and Methods: This cross sectional case controlled study was conducted on 90 Patients were divided into 3 groups according to Child Pugh Score: (30) Patients with Child score (A). (30) Patients with Child score (B). (30) Patients with Child score (C) with FIB4 score calculation.

Results: The Vitamin D level was significantly decreased as the Child classification increasing from A to C. Also the vitamin D level in patients with Child A-C was significantly decreased when compared to healthy individuals (p-value= 0.001).

As regards, the correlation between vitamin D levels and degree of liver fibrosis has shown significant negative correlation between vitamin D level and the liver fibrosis score using FIB4 scoring (P-value = 0.002).

Conclusion: Vitamin D deficiency is present in patients with chronic liver disease, in view of the increasingly recognized beneficial effects of adequate levels of Vitamin D, measurement of 25OH Vitamin D levels and treatment of it may be considered as part of the overall management of patients with HCV cirrhotic patients.

Key Words: Vitamin D – Hepatitis C patients – Vitamin D insufficiency.

Key Messages: Our findings raise the question whether testing for and treating vitamin D deficiency may improve liver function and outcome in cirrhotic patients. The potential use of serum 25OH vitamin D level as a non-invasive marker of liver fibrosis.

BIOGRAPHY

Mohamed Sherif has completed his PHD of internal medicine at the age of 34 years from Tanta University, Egypt. Vice president of Tanta Teaching Hospital, has many publications and poster presentations at international conferences

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