

Serum omentin and vaspin levels in cirrhotic patients with and without portal vein thrombosis

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1 What did this study explore?

Our study investigated relationship between omentin and vaspin levels in cirrhotic patients with hemostatic parameters, metabolic abnormalities, cirrhosis severity and etiology.

2 How did the authors perform all experiments?

All of our study was conducted in Chair and Department of Gastroenterology and Hepatology with agreement of local bioethic comitee.

3 How did the authors process all experimental data?

Data was processed into a database form which all statistical analysis was made.

4 How did the authors deal with the pre-study hypothesis?

Basic hypothesis was confronted with outcomes of our study. Prothrombin levels were significantly increased in patients with PVT ($p=0.01$). The TRAP test results were significantly lower in the PVT group ($p=0.003$). No significant differences in adipokines serum levels were found regarding the etiology or severity of liver cirrhosis assessed according to the Child-Pugh or MELD scores. There was a significant increase in the TRAP ($p=0.03$), ASPI ($p=0.001$) and RISTO high-test ($p=0.02$) results in patients with lower MELD scores. Serum omentin and vaspin levels were significantly down-regulated in patients without insulin resistance ($p=0.03$; $p=0.02$, respectively). A positive relationship between omentin and vaspin levels were found both when all of the patients were analyzed ($r=0.41$; $p=0.01$) and among those with PVT ($r=0.94$; $p<0.001$).

5 What are the novel findings of this study?

Serum omentin levels are increased in patients with PVT. Cirrhosis origin and grade do not affect omentin and vaspin levels. The analyzed adipokines do not influence platelet activity.