

In this study, 35 patients with fatty liver were included, Also, 20 healthy individuals were subjected to this study as control group.

It was found that all patients with fatty liver significantly have increased levels of triglyceride and cholesterol where as there was no significant in increasing of uric acid levels.

Besides, AMP deaminase was also studied .It was observed that enzyme activity was increased significantly in all patients with fatty liver when compared with control group.

Metformin was also used at different concentrations to show its *in vitro* effect on enzyme activity. It was seen that metformin had reduced AMP deaminase activities at 5 mM and 10 mM of Metformin where as the activity was entirely overcome above 20 mM .