

The Relation Between Generalized Anxiety Disorder with Blood Liver Enzymes Activity and Lipid Profile Among Ninevah Medical College Students (Case Control Study)

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ABSTRACT

Generalized Anxiety Disorder, liver diseases and atherosclerosis are common problems requiring measures for controlling them. To find possible relation between Generalized Anxiety Disorder among Ninevah Medical College students with the risk of atherosclerosis and liver diseases development. The study, conducted from February to December 2024, involved Ninevah Medical College students in Mosul, Iraq, who were divided into two groups according to the Diagnostic and Statistical Manual of Mental Disorders, control and patient with generalized anxiety disorder, both had negative drug and medical history, including psychiatric problems, which may cause their symptoms or fit with the differential diagnosis. Morning fasting venous blood sample was collected from all for measuring total cholesterol, triglycerides, high density lipoprotein-cholesterol levels, as well as the activities of liver enzymes alanine transaminase, aspartate transaminase, and alkaline phosphatase on automated cobas 6000 machine. Low density lipoprotein-cholesterol, atherogenic index of plasma and atherogenic coefficient were calculated. Statistical analysis was done using Minitab Data analysis. Among patient group, significant elevation of total cholesterol, low density lipoprotein cholesterol and alanine transaminase values. Positive significant correlation was exist between total cholesterol with alanine transaminase, low density lipoprotein, and triglycerides as well as between the number of diagnostic parameters with total cholesterol, low density lipoprotein cholesterol, triglycerides, atherogenic index of plasma, atherogenic coefficient, and alanine transaminase. Patient with generalized anxiety disorder may have increased risk for coronary vascular and liver diseases development and the controlling of disease may help to reduce these risks.

Keywords: Atherosclerosis, Generalized Anxiety Disorder, Lipid profile, and Liver diseases.

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