

Cognitive Impairment in Elderly Depressed and Dementia Patients in Relation to Plasma Lipid Concentrations

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Abstract

Background: Cognitive dysfunctions may be related to changes in lipid profile.

Methods: studied subjects consisted of two groups: Group A consisted of 60 patients subdivided in to two subgroups: 30 patients that have currently dementia and 30 patients that have depressive disorders. Group B (Control group):30 normal persons matched with the patients group in age, sex, education, socio demographic and economic status. They were subjected to the following: Psychological assessment that included the Geriatric Depression Scale (GDS), Wechsler Memory Scale – Revised (WMS-R) short form and plasma lipid concentration assessment (Overnight fasting blood was collected from each participant by standard venipuncture).**Results:** The finding of the study clarified that demented patients showed more statistically significant impairment in cognitive functions than depressed patients regarding Wechsler memory scale-revised. The mean of the Blood cholesterol level, LDL and HDL in depressed group are significantly higher than demented and control groups.**Conclusions:** There is a relation between cognitive impairment in depressed and dementia patients and plasma lipid concentration.

Keywords: Plasma lipid; Cognitive impairment; Depressed; Dementia.

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