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Cholesterol Levels in Patients with Chronic Lymphocytic Leukemia

Irfan Yavasoglu M.D.^a ... Zahit Bolaman M.D.^a [Show more](#)<https://doi.org/10.1016/j.jnma.2016.11.006>[Get rights and content](#)

Abstract

Low cholesterol levels may be accompanied by solid tumors or hematological malignancies such as multiple myeloma. Decreased cholesterol levels have been reported in some experimental studies about chronic lymphocytic leukemia (CLL). It may be associated with tumoral cell metabolism. Herein, we examine blood lipid profiles of patients with newly diagnosed CLL (284 male, 276 female, mean age 64 ± 11 years) as defined by National Cancer Institute criteria. The control group consisted of 71 healthy subjects with mean age 55 ± 9 years (28 male, 43 females). 60% of patients with Binet A, while 25% were Binet C. Decreased levels of total cholesterol, high density lipoprotein (HDL) and low density lipoprotein (LDL) were observed in patients with CLL than control group ($p < 0,001$). There was no statistical significance between CLL and control group for triglycerides (TG) and very low density lipoprotein (VLDL), also between HDL-C, VLDL, TG and grades. Cholesterol may be metabolized by abnormal lymphocytes in CLL patients.

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Keywords

Blood lipid profiles; Cholesterol levels; Chronic lymphocytic leukemia

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