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Statistical Analysis of ZAP-70 And CD38 Expression in Chronic B-cell Leukemia Patients

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Chronic lymphocytic leukemia (CLL) cells with unmutated immunoglobulin heavy chain gene (U-IGHV) differs from those with mutated IGHV (M-IGHV) in the expression levels of a relatively small subset of genes. It is observed heterogeneous clinical behavior of patients with chronic lymphocytic leukemia according to gene expression profile: a) indolent disease and a lack of disease-related complications for a long period; b) progressive and/or symptomatic disease which requires therapy relatively soon after the diagnosis. Most clinically relevant markers, which can be used as a surrogate marker for expression of U-IGHV are zeta-chain associated protein of 70 kDa (ZAP-70) and CD38. The aim of our study is to evaluate whether expression profiles of these markers differ in different countries. Based on our results we concluded that ZAP-70 and CD38 have differential expression.

Key words: CLL, U-IGHV, M-IGHV, ZAP-70.