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Detection of Philadelphia Chromosome in Patients with Chronic Myeloid Leukemia from the Prešov Region in Slovakia (1995-2004)

I. Boroòová I. Bernasovský and J. Bernasovská

Department of Biology Faculty of Humanities and Natural Science University of Prešov, Prešov Slovac Republic
E-mail: boronova@unipo.sk

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ABSTRACT The present paper reports the cytogenetic examinations on detection of Philadelphia chromosome performed in patients with CML in the Prešov region in 1995-2004. The results of cytogenetic examinations on 72 samples of bone marrow cells in pacients with suspected diagnosis of CML have been analyzed.. Philadelphia chromosome in bone marrow cells of patients with suspected diagnosis CML in the Prešov region (1995-2004) was detected in 944% of cases. In one patient a complex translocation involing chromosomes 8 9 and 22 was identified. One patient has showed extra numerical and structural chromosomal aberrations. Mosaic karyotype of the Ph chromosome was found in 59% of cases**.** The results of cytogenetic analyses confirm diagnostic and prognostic significance of Philadelphia chromosome in patients with clinical diagnosis CML. Conventional cytogenetic analysis remain the standard method for purposes of diagnosis monitoring of the therapeutic response and minimal residual disease in patients with chronic myeloid leukemia.