

IL-4, IL-10 and TNF- α profile in north-eastern Ukrainian HIV-1 infected individuals with different level of immunodeficiency

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Cytokines play an important role in controlling the homeostasis of the immune system in HIV infection. But currently issues of pathogenesis mechanisms and characteristics of the disease cannot find a unique solution. The measurement cytokines in plasma in patients with HIV may provide additional information to complement prognostic markers and understand disease procession. Aim of the present study was to determine the IL-4, IL-10 and TNF- α profiles in plasma of north-eastern Ukrainian HIV-1 infected individuals with different CD4 T-cell levels. We used a immunoassay method to measure IL-4, IL-10, TNF- α in plasma of 118 HIV-1 infected people among whom there were 80 (67.8%) men and 38 (32.2%) women aged (32.61 \pm 0.87) years, who were treated in Sumy Region Clinical Infectious Diseases Hospital (Sumy, Ukraine). Patients were divided into groups depending on the levels of CD4 T lymphocytes. Group I included 52 people with T-helper cellcounts \geq 350 cells/ μ L, group II included 66 patients with T-helper cell counts \leq 200 cells/ μ L. Comparison group consisted of 30 similar sex and age normal healthy individuals.

Biography

Anna Piddubna is an assistant Professor of Infectious Diseases and Epidemiology Department of Sumy State University, secretary of the Association of Infectious Disease Specialists in Sumy region, member of the Association of Infectious Disease Specialists in Ukraine. She got her B.Sc. in medicine, and M.Sc. in infectious diseases at Sumy State University. Dr. Anna Piddubna is working on her Ph.D. thesis on the topic "Immunogenetic changes in HIV infected, clinical and epidemiological features of HIV infection in north-eastern region of Ukraine". She has published more than 12 papers in scientific journals.