The diagnostic value of serum concentration and urinary excretion of some cytokines in the manifest hypothyroidism

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The research goal was to study serum concentrations of proinflammatory cytokines IL-1β, IL-6, IL-8, anti-inflammatory cytokine IL-10 and VEGF in blood serum of 80 patients with clinical hypothyroidism. Estimation of kidneys’ function included study of urinary excretion of chemokines MCP-1 and RANTES. It was revealed that autoimmune hypothyroidism affects the balance between Th1 and Th2 type cytokines, which might play an important role in the development and progression of autoimmune disease. Our data suggest an increase in the blood level of IL-6 and the level of urinary excretion of pro-inflammatory cytokines MCP-1 in patients with autoimmune thyroiditis. (Cytokines and Inflammation. 2012. Vol. 11. № 2. P. 58–62.)

Key words: thyroid hormones, autoimmune thyroiditis, cytokines.