Changes of proinflammatory cytokine serum levels in acute shigellosis patients treated with systemic enzyme therapy

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Clinical and laboratory parameters including changes in levels of serum proinflammatory cytokines (IL-6 and TNFα) were studied in 78 adult patients with acute shigellosis. Some of the patients (n = 35) received combination therapy with systemic enzyme Wobenzym. During the clinical manifestation phase of acute shigellosis 31% of patients showed to have more than 4-fold increase in serum TNFα level, and 83% — over 3.5-fold increase in IL-6 level. The level of IL-6 and the severity of colitis syndrome appeared to be in inverse correlation. An increase in IL-6 concentration by 25% was detected in patients receiving standard treatment for shigellosis (excluding Wobenzym). Administration of Wobenzym in combination treatment of acute shigellosis helped the levels of IL-6 to remain constant which reduced the duration of colitis clinical manifestations. (Cytokines and Inflammation. 2012. Vol. 11. № 1. P. 114–118.)

Key words: acute shigellosis, TNFalpha, IL-6, Wobenzym.