Influence of bile sorption on the dynamics of tumor necrosis factor α in blood serum and bile in patients with tumors of biliopancreatoduodenal zone

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The aim was to investigate the influence of bile sorption on the dynamics of TNFα in blood serum and bile. We have investigated 73 patients with obstructive jaundice associated with malignant tumors of biliopancreatoduodenal zone. Concentrations of TNFα were investigated by ELISA in blood serum and bile before and after external bile duct drainage. Application of bile sorption (BS) (with enterosorbent AU-K — activated charcoal) led to a decrease in TNFα concentration from an initial level by 82.5% in serum and by 90.6% in bile. In control group, TNFα concentration in serum after external bile duct drainage decreased by 62.7% and 82.2% in serum, correspondingly. Thus, application of BS by means of AU-K increases TNF biliary excretion and reduces endogenous intoxication in patients. (Cytokines and Inflammation. 2012. Vol. 11. № 2. P. 119–122.)

Key words: mechanical jaundice, TNF-alpha, bile sorption, activated charcoal.