
ROLE OF SPIRULIN DERIVATE DRUG IN THE DYNAMICS OF CHRONIC HEPATITIS B AND C

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Background and Aims: T-cell immunoregulatory cytokines influence the persistence of hepatitis C and B virus (HCV, HBV) chronic infection and the extent of liver damage. Th1 cytokines positively correlate with hepatic inflammation in HBV and HCV chronic infection. The aim of this study was to evaluate the biochemical, haematological parameters and profile of Th1/Th2 cytokines in HCV and HBV hepatitis before and after treatment with BioR (spirulin derivate drug).

Methods: The study included 42 patients with chronic viral hepatitis. Following the aim the establishment of the viral hepatitis etiology it was decided to define the markers of the viral hepatitis, the antibodies anti HCV total, anti HCV IgM, HbsAg, anti HBs, anti HBc total and IgM, as well as to identify the alcohol consumption through use of different questionnaires. The immunoenzymatic assay has been used to study the interleukins 1, 10 and TNF- α . Patients included in the study have been administered the injection solution of BioR, 1.0 ml intramuscular, daily, during 10 days.

Results: Our study has indicated that patients with HCV show a real amelioration of hemoglobin ($P < 0.05$), and of lymphocyte levels ($P < 0.05$) compared to patients with HBV. In result of the application of a therapy with BioR an evident diminution of cytolysis (ALT, AST) takes place both in patients with HBV ($P < 0.05$) and in the ones with HCV ($P < 0.05$). It has been also proven that BioR reduces gamma GTP in HCV ($P < 0.05$) compared to with HBV ($P > 0.05$). It has shown that a treatment with BioR brings about the stimulation of production of IL 10, TNF alpha in patients with HCV and HBV.

Conclusion: We consider this action a key mechanism of this preparate with antiviral effect, and we recommend it for treatment of persons with viral hepatitis.

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