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Chronic hepatitis c: research of topical biochemical aspects in patients

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Summary: 80 patients with chronic hepatitis C were examined. Non-invasive evaluation of the necro-inflammatory process of the liver was performed using ActiTest. It is revealed that with high necro-inflammatory activity of the liver, the most likely are changes of such biochemical parameters as γ -glutamyltranspeptidase, alanine aminotransferase, haptoglobin, apolipoprotein A1, alpha2-macroglobulin.

Keywords: necro-inflammatory process, chronic hepatitis C.

According to WHO, in 2019, 71 million patients were diagnosed with chronic hepatitis C (CHC) [1]. Among patients with chronic HCV infection, the risk of developing cirrhosis in the next 20 years is between 15 and 30 percent. In 2016, approximately 399,000 people died from hepatitis C, mainly from liver cirrhosis and hepatocellular carcinoma. So, WHO considers viral hepatitis as an urgent problem of today and plans to reduce new infections by 90 % and mortality from viral hepatitis by 65 % by 2030 [1]. The determining factor in the pathogenesis of chronic liver pathology of different etiology is the progression of inflammatory and fibrotic processes [2]. Assessment of the degree of necro-inflammatory process is very important, it allows: to evaluate the possibility of progression

of the disease [3], to improve the quality of treatment (at present, a vaccine for hepatitis C does not exist). Laboratory diagnostics of liver fibrosis and necro-inflammatory activity at the present stage is aimed at the use of non-invasive serological mar [4].

The goal: determination of the role of serum markers of the necro-inflammatory process of the liver as criteria for the degree of activity of chronic hepatitis C.

Materials and methods. 80 patients with CHC were examined. There were 36 men and 44 women with a mean age of $38,47 \pm 2,43$ years. Non-invasive assessment of the necro-inflammatory process of the liver was performed using ActiTest – a system of biochemical parameters of the blood, which deter-

Table 1.

Biochemical parameters of serum in patients with CHC depending on the stage of necro-inflammatory process of liver A ($M \pm m$)

Indicators	A0 (n0=15)	A1 (n1=21)	A2 (n2=11)	A3 (n3=33)	Control group (n=30)
Alpha2-macroglobulin, g / l	2,11±0,14	2,04±0,18	2,43±0,24	2,89±0,18 p2<0,05	2,10±0,45
Haptoglobin, g / l	1,03±0,12	1,19±0,14	1,11±0,13	0,73±0,09 p2<0,05	1,10±0,45
Apolipoprotein A1, g / l	1,64±0,08	1,59±0,08	1,46±0,07	1,41±0,04 p3<0,05	1,65±0,30
Bilirubin total, μ mol/l	9,93±1,52	11,10±1,26	11,8±2,27	12,70±1,0	14,50±3,0
GGTP, ED / l	27,87±4,21	55,05±10,0	45,45±10	112,8±15 p1<0,05 p4<0,05	33,0±14,0
ALT, ED / l	30,07±1,70	53,84±2,68 p3<0,05 p4<0,05	73,45±4,1 p2<0,05 p3<0,05 p4<0,05	202,7±22 p1<0,05 p4<0,05	41,5±4,25

Note: p1 – compared to A0-A3; p2 – compared to A1; p3 – compared to A0; p4 – compared with the control group.

mines the activity of γ -glutamyltranspeptidase (GGTP) and alanine aminotransferase (ALT), the content of alpha2-macroglobulin, total bilirubin, haptoglobin and apolipoprotein A1. Evaluation of viral necrotic-inflammatory activity was performed using the METAVIR scale, according to which the degree of activity is evaluated integrally (taking into account the intensity of periportal and lobular necrosis) and provides the following gradations of activity (A): stage A1- minimal necro-inflammatory activity, stage A2 – moderate necro-inflammatory activity, stage A3 – high necro-inflammatory activity, stage A0 – non-inflammatory activity. The control group included 30 healthy donors. The etiology of the disease was confirmed by the detection of antibodies to HCV by enzyme-linked immunosorbent assay, RNA-HCV by the polymerase chain reaction method.

Results and its discussion. Usage of the METAVIR scale with the help of ActiTest revealed the absence of necro-inflammatory activity in 15 patients, minimal necro-inflammatory activity in 21 patients, moderate non-inflammatory activity was diagnosed in 11 patients, high necro-inflammatory activity was obtained in 33 patients with chronic hepatitis C. The results obtained in the study of biochemi-

cal parameters in patients with CHC with regard to the stage of necro-inflammatory process of the liver are presented in Table 1.

It is revealed that in patients with CHC with minimal level of necro-inflammatory activity (stage A1), alanine aminotransferase activity is significantly higher than in patients of the control group and when necro-inflammatory activity was absent (stage A0). In patients with stage A2 moderate necro-inflammatory activity), alanine aminotransferase activity was observed to be significantly higher compared to control values and in patients who lacked activity of the necro-inflammatory process (stage A0) or were minimal (stage A1). In patients with CHC who have stage A3 high necro-inflammatory activity), significant changes in all biochemical parameters have been observed, which has been investigated. At stage A3, the activity of γ -glutamyltranspeptidase and alanine aminotransferase was found to be significantly increased in comparison with the control group and the data of patients who had no or minimal or moderate necro-inflammatory activity. In patients with CHC with high levels of necro-inflammatory activity, the content of apolipoprotein A1 was found to be significantly lower compared to patients, in whom necro-inflam-

matory activity was absent (stage A0). In the examined patients with stage A3, the level of haptoglobin was investigated to be significantly reduced compared to patients with non-inflammatory activity that was minimal (stage A1). The content of alpha2-macroglobulin in patients with chronic hepatitis C with stage A3 high necro-inflammatory activity) was significantly increased compared to patients, whose necro-inflammatory activity was minimal (stage A1).

Conclusion. Patients with chronic hepatitis C revealed with high necro-inflammatory activity of the liver the most pronounced changes in biochemical parameters (γ -glutamyltranspeptidase, alanine aminotransferase, haptoglobin, apolipoprotein A1, alpha2-macroglobulin).

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