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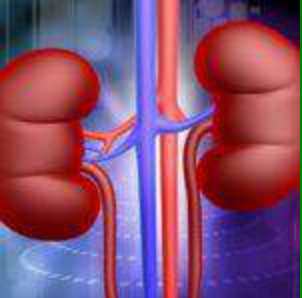
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ANTIOXIDANT THERAPY AS AN ELEMENT OF PATHOGENETIC CORRECTION OF HEPATORENAL DYSFUNCTION IN PATIENTS WITH CHRONIC HEPATITIS

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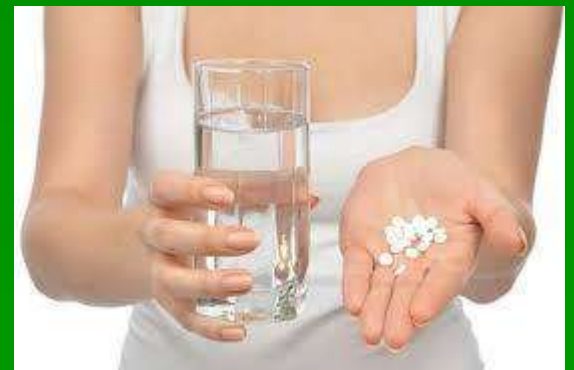
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- In patients with chronic hepatitis (CH) in the period of exacerbation the development of edema-ascites syndrome is possible.
- It should be borne in mind that in the emergence of water-electrolyte imbalance plays not only hypoproteinemia, but also changes in the function of the kidneys.
- Today there is no doubt that in the pathogenesis of the progression of liver diseases of different etiologies, a significant role belongs to the free radical processes (FRP).

Purpose of the work

- To study the effectiveness of the use of the drug Hepaval for the correction of free radical processes in patients with chronic hepatitis and hepatorenal dysfunction.



Material and methods

- 27 patients with low-active CH of non-viral etiology with disease duration from 3 to 6 years, 20 practically healthy people was examined
- The functional state of the kidneys was studied under conditions of 12-hour spontaneous diuresis and when conducting a water load for 2 hour
- FRP were assessed by the level of malonic aldehyde in the blood (MA), the antioxidant defense system by the level of restored glutathione (RG).
- In the course of treatment the 2 groups were singled out: the control received standard treatment for 20 days, the main one — in addition, Hepaval, containing reduced glutathione, 1 capsule 2 times a day.

Results of the study

In conditions of spontaneous diuresis, the specific gravity of urine decreased (up to $1013 \pm 1,22$; $p < 0.05$), and the glomerular filtration rate (GFR) significantly decreased by 1,33 times (the norm $132,7 \pm 13,44$ ml/min).

Changes in the ion-regulating function of the kidneys manifested themselves in a tendency to a decrease in sodium concentration in the urine with a significant decrease in its plasma concentration ($p < 0,05$).

Results of the study

- When conducting a water load, diuresis was significantly reduced, GFR decreased by 3 times ($p < 0,05$) relative to the group of healthy.
- If in healthy people the excretion of sodium increased by 50% in relation to spontaneous diuresis, then it significantly decreased with CH.

Results of the study

- *The intensification of FRP in terms of the increase in MA blood by 1,45 times ($p < 0,05$) and the reduction of the antioxidant defense system to reduce the level of HB by 25% ($p < 0,05$) were established.*
- *Correlation analysis showed the relationship between the MA indicator in the blood and the GF ($r = -0,56$, $p < 0,05$).*
- *Despite positive changes in the function of the kidneys under conditions of spontaneous diuresis when Gepoval was included in the treatment regimens, under conditions of water load, GFR did not reach normal values, although it significantly increased by 38%.*

Conclusions



- Thus, the use of the drug Hepaval in complex treatment of chronic hepatitis with hepatorenal dysfunction is promising due to the influence on the general pathogenetic mechanisms of disease progression and requires a little study.