

Modern Concepts on Various Factors Affecting Liver Tissue

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Abstract: The liver is considered a vital organ in the body, and more than 700 functions have been studied so far. But due to the influence of various factors on the liver tissue, liver function disorders occur. This article presents the current understanding of the various factors affecting liver tissue.

Keywords: liver, hepatocyte, morphology, function, factors.

Relevance of the study. The liver parenchyma concentration determines the speed and efficiency of the immune response, which is also triggered by the interaction of several types of cells, so even a small decrease in the concentration causes a significant decrease in the immune response. The mechanisms that regulate the volume of liver tissue depend on many factors: the intensity of inflammatory and regenerative processes, the activity of connective tissue and the immune system. Cytokines and adhesive molecules play an important role in lymphocyte recruitment, inflammation, and immune response. Settlement or migration, like classical migration, is a complex process with specific tissue properties. The specific properties of the tissue involved in migration, i.e., antigens, are widely distributed and give a signal determined by various chemokines [4].

Hepatocyte cells are a structurally operative structure, and it is a rapid subsystem that provides the ability of tissues to change and the ability to adapt to environmental conditions. There are evidences that indicate hepatocyte activity in triggering proliferation, which supports any morphogenetic processes and determines the nature of cell sorting [3].

It can be noted that hepatocytes control over the constancy of the number of cells, focus on their death and proliferation, have the ability to limit and eliminate the proliferation of cells. Controlling the processes of cell differentiation, lymphocytes regulate homeostasis and determine the structural integrity of the body, ensuring their preservation and quality essence [7].

It should be noted that histologists distinguish about two hundred types of cells in vertebrates. There is a requirement that the same differentiated cells of the same type can be non-equivalent in different parts of the organism. This suggests the possibility of more tissue-specific hepatocytes, various subpopulations of proliferation regulators performing special morphogenetic functions in the organism [4].

Specific features of the morpho-genepathology of liver tissues observed in lymphocyte donors in healthy animals are described. It consists not only of transmitting a signal about the damage of one or another organ, activating the signals of their recovery, but also of gradually reproducing the picture of the restoration of the organ in the place of the donor in the recipient. For example, under the influence of various factors that cause anemia in rats (hypoxia for 6 hours at an altitude of 7000 m, exposure to phenylhydrazine when the chemical cobalt is injected), qualitative recovery of the recipients was shown in each case, which induced morphogenetically active lymphocytes. It has been shown that donor lymphoid cells, once infused into normal recipients after blood loss, give them all the morphological features that distinguish reparative erythropoiesis from physiological erythropoiesis. Also, these cells increase the properties of toxic anemia caused by the introduction of sodium marsenite in mice [6].

One type of stressor load (load) created different dynamics of changes in the content of neurotransmitters and neuropeptides in different structures of the brain in stable (active) and stress-adapted (passive) rats, i.e. interruption and continuity of responses to diffuse lymphoid forms. Despite

the one-of-a-kind nature of the response of lymphoid structures, their reaction in the group of active rats was less pronounced than in passive animals.

Acute emotional stress showed a sharp decrease in the number of small lymphocytes and plasma cells, which are associated with the performance of the effector functions of humoral and cell vaporization of the immune system. In passive rats, the number of macrophages and destructively transformed cells increased. Today, activation of "trustworthy" lymphocytes is also associated with macrophages, in addition to the activity of destruction [5].

Among the parenchymatous organs, liver cells occupy a special place, and today their role in the formation of the immune response, participation in lymphocytopoiesis, and their activity as a member of lymphocyte recirculation and digestion are considered very important.

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