

# **CORRECTION OF HEMATOSIS SYSTEM DISORDERS INDUCED BY EXPERIMENTAL HYPOTHYROIDISM AND CRYOPRESERVED CORD BLOOD PREPARATIONS**

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**Summary.** Decrease of thyroid hormones level manifesting due to hypothyroidism leads to sustained pathology of hematosi system, development of anemia and leukopenia. Herewith the research aim was an experimental investigation of effect of cryopreserved human cord blood (HCB) preparation as transfusion material for correction of anemia and leukopenia caused by insufficiency of thyroid hormones. We used cell and cell-free HCB preparations, this enables to determine the effect of certain cord blood components (cells and plasma cytokines) on hematosi regeneration in experimental animals with mercasolil model of hypothyroidism and stimulation by their thyroid hormone-producing function suppressed by mercasolil. One may conclude that the treatment effect of therapy with cord blood preparations consists in different influences, involvement of hematosi cells into reparation of recipient's damaged tissue should be considered as the main one.

***Keywords:*** *hematosi, thyroid hormones, hypothyroidism, cord blood.*