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**FEATURES OF CHANGES OF HIGHER NERVOUS PERFORMANCE INDICATORS
ON STRESS INFLUENCE IN PRELIMINARY GAMMA- RADIATION-EXPOSED OF RATS**

Studies of active avoidance behavioral reactions (shuttle box) changes under exposure of stress (foot-shock) in the rats preliminary exposed to single total γ -radiation at doses of 0.5 and 1.0 Gy gave the following results. Reactions of conditioned behavior indices to stress are individual, but in general they are characterized by significant direct effect of activation, which could be followed by depression during time period after stress application. Effects of stress in the rats previously exposed at the dose of 1.0 Gy exceed those in the animals both directly after stress application and during the time periods without stress. Interaction between factors of ionizing radiation and stress were found for the tested indices at the dose of 1.0 Gy. Rats exposed at the dose of 0.5 Gy increase of direct response to stressing was not found, but it was evident in delayed responses.

Keywords: ionizing radiation, stress, rats' behavior.