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**INVESTIGATION OF  $^{131}\text{I}$  KINETICS IN THE RATS ORGANISM AFTER A SINGLE INTAKE**

Kinetics of  $^{131}\text{I}$  in the organism of the laboratory rats is investigated after a single intake of various activities of isotopes. The isotope content is measured in different organs and tissues. Half-life of  $^{131}\text{I}$  has been determined. The specifics of the accumulation and excretion of the isotope from organism are discussed.

*Keywords:* radionuclides, isotopes of iodine, thyroid hormones, metabolism, accumulation, excretion.