## INFLUENCE OF INTERNAL EXPOSURE ON THE MORPHOFUNCTIONAL CHARACTERISTICS OF HYPOTHALAMUS, PITUITARY AND ADRENAL GLAND

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The phase changes in morphofunctional states of hypothalamus, pituitary, cortex and medulla of adrenal gland of rats, which for a long time (9 mounth) were fed a <sup>137</sup>Cs diary, were determined. At early stages of experiment (7 - 30 days) the enhancing of morphofunctional and secretory activity of cells of hypothalamus, pituitary, cortex and medulla of adrenal gland cells, were observed (total absorbed doses of 0,3 sGy). After 9 months (total absorbed doses of 3,0 sGy) in cells of hypothalamus, pituitary, cortex and medulla of adrenal gland the progressions of dystrophic-destructive changes of intracellular structures with the sings of decreasing of morphofunctional and secretory activities were determined. It is necessary to underline, that the sings of intracellular reparative regeneration, were observed in a small part of cells against the background of presence of dystrophic-destructive changes. In spite of the processes of intracellular reparative regeneration which were observed 9 months later after exposure, the completely renewing of morphofunctional and secretory activities in cells of hypothalamus, pituitary, cortex and medulla of adrenal gland's cells were absent.