

MODIFYING EFFECT OF HYPOKINETIC STRESS ON CHANGE PAIN SENSITIVITY OF RAT (Part 2)

Chuyan E. N., Zayachnikova T. V., Ravaeva M. Yu., Mironyuk I. S., Birukova E. A.

*V. I. Vernadsky Crimean Federal University, Simferopol, Crimea, Russian Federation
E-mail: m-ravaeva@rambler.ru*

Modifying action of a hypokinetic stress is investigated on change of behavioral phenomena in rats with experimentally induced tonic somatic, visceral, acute heat pain and electrical stimulation.

It is shown that at adaptation of rats to short hypokinetic to a stress (the first – the sixth days) increase in resistance to painful factors is noted that is expressed in reduction of duration of painful reactions, and long restriction of mobility (the seventh – the ninth days) leads to reduction of resistance to painful factors that is shown in increase in duration of painful reactions.

Thus, the hypokinetic stress changes behavioural reactions at rats as at action of painful stresses (in «formalin» and «acetic» tests), and painful sensitivity at the threshold level in tests of «a hot plate» and electrostimulation that demonstrates the modifying action of a gipokineziya on painful sensitivity of animals regardless of the nature of a painful irritant.

However, the modifying effect of a hypokinetic stress on painful sensitivity at rats in experimental painful tests depends on mobility restriction duration. At the same time change of painful sensitivity (reduction and increase) of animals at a hypokinetic stress can serve as criterion of transition of an eustress to a distress.

Keywords: hypokinetic stress, behavioral reactions, tonic pain, visceral pain, acute thermal pain, electrical stimulation.

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