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Effect of unilateral trauma of the sciatic nerve on characteristics of motor and reflex responses of paired gastrocnemius muscles | Vliianie odnostoronnei travmy sedalishchnogo nerva na kharakteristiki motornykh i reflektornykh otvetov parnykh ikronozhnykh myshts krysy.

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Abstract

The influence of unilateral n. ischiadicus lesion of conductivity on the electromyographic characteristics of the rat gastrocnemius muscles was investigated. The lesion was made by n. ischiadicus crushing. Motor and reflex gastrocnemius muscles' responses caused by n. ischiadicus stimulation (single impulses of various intensity and 0.3 ms duration) were estimated on broken and symmetric hind-limb before and 1, 5, 10, 20 and 30 days after the nerve crushing. Considerable changes of threshold and amplitude of the registered gastrocnemius muscle responses were observed ipsi- and contralaterally. It is suggested that the central dependence of processes arising in the motor centres of symmetric gastrocnemius muscles, follows unilateral n. ischiadicus lesion.
