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International Journal of Physiology and Pathophysiology

ISSN Print: 2155-014X
ISSN Online: 2155-0158

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Volumes:

- (a) Volume 8, 2017
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 - Issue 3
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DOI: 10.1615/IntJPhysPathophys.v7.i2.10
pages 97-104

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ABSTRACT
We analyzed the functional status of the dorsal roots of the spinal cord in experimental diabetes mellitus (DM) by examining the action potential (AP) parameters, namely, threshold, chronaxie and dynamics of the dorsal root excitability. An increase in the threshold for excitation 1.5 times ($P < 0.001$) and a decrease in the amplitude of action potential by 21.7% ($P < 0.05$) have been revealed when compared to the control animals. A significant increase in the response to the 2nd stimulus was also observed when applying the paired stimuli to the sciatic nerve in animals with experimental DM. When applying the stimuli of increasing intensity, amplitude of action potential in animals of the experimental group decreased significantly. It has been concluded that hyperglycemia makes adjustments to the processes of excitability and refractoriness in the afferent fibers of the spinal cord.

KEY WORDS: diabetes mellitus, diabetic neuropathy, dorsal root of the spinal cord

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