PRELIMINARY COMMUNICATION

EFFECT OF TOPIRAMATE ON MECHANICAL ALLODYnia IN NEUROPATHIC PAIN MODEL IN RATS

Anna Wieczorkiewicz-P³aza1, Pawe³ P³aza1, Ryszard Maciejewski1, Miroslaw Czuczwar2, Krzysztof Przesmycki2,##

1Department of Human Anatomy, Skabiszewski Medical University, Spokojna 1, PL 20-074 Lublin, Poland, 
2Second University Department of Anaesthesiology and Intensive Therapy, Skabiszewski Medical University, 
Staszica 16, PL 20-081 Lublin, Poland

Effect of topiramate on mechanical alldynia in neuropathic pain model in rats. 
A. WIECZORKIEWICZ-PŁAZA, P. PŁAZA, R. MACIEJEWSKI, M. CZUCZWAR, 

Topiramate, unlike gabapentin, lamotrigine and tiagabine, resembles phenytoin and 
carbamazepine since it had been used as an antinociceptive drug in empirical treatment of 
neuropathic pain in humans, before its systemic and planned research was conducted in 
animal models of pain. Chronic administration of topiramate, at the dose of 50 mg/kg/day, 
significantly diminished the mechanical sensitivity and shortened the period of allodynia 
in the Seltzer mononeuropathy model in rats.

Key words: topiramate, alldynia, neuropathic pain, Seltzer model

## correspondence: antest2@paracelm.am.lublin.pl