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Effect of Electroacupuncture on Neuropathic Pain in Rats with CCI Model

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Neuropathic pain is due to neuronal damage on the somatosensory system and that can induce spontaneous pain intractable to the treatment. Chronic constriction injury (CCI)-induced neuropathic pain rat model is the most similar to neuropathic pain in human. Therefore, we established a CCI model by using 4-0 chromic gut loose ligated on the nerve proximal to the trifurcations of right sciatic nerve in Sprague-Dawley rats. 2 Hz and 15 Hz electro acupuncture (EA) was applied at bilateral L4 and L6 of Hua TuoJia Ji points (EX-B2) and right Zusanli (ST36) and Shangjuxu (ST37), respectively to investigate the effect of EA on neuropathic pain. Results indicated that 2 Hz EA and 15 Hz EA at bilateral L4 and L6 of EX-B2 could ameliorate neuropathic pain and also could increase the levels of GABA_A receptors of spinal cord; EA at right ST36-ST37 also could relief neuropathic pain and also could reduce cerebral cortical transient receptor potential vanilloid type 4 (TRVP4) expression. Therefore, spinal segmental effect plays a crucial role.

Biography:

Ching-Liang Hsieh graduated from the School of Chinese Medicine, China Medical University (CMU), Taiwan, in 1978, he received Ph.D. degree from Kyushu University, Japan (1995) and Ph.D. degree of Guangzhou Chinese Medicine University, China (2004). He is a Western medicine doctor and also is a Chinese medicine doctor. Currently, he is professor at Graduate Institute of Integrated Medicine, CMU. He had previously worked as Vice Dean of the College of Chinese Medicine, the director of the School of Chinese Medicine, Graduate Institute of Chinese Medical Science, Acupuncture Science and Integrated Medicine, Acupuncture Research Center and Research Center for Chinese and Acupuncture at CMU and deputy superintendent at CMU Hospital.