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## The treatment of pain syndromes by dynamic electroneurostimulation

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Dynamic electroneurostimulation (DENS) is a method of electroacupuncture. DENS is applied as the main method in complex treatment of 56 patients (main group) with dorsalgias of different localizations caused by radicular and reflex syndromes (from 23 to 73 years old, female - 32, male - 24). The disease duration was from 1 to 25 years. The electrotherapy was applied together with pharmacotherapy. The patients were exposed to an auricular diagnostics. In the first 1 - 2 procedures the exposure was made in threshold behavior of stimulation intensity. From the 3 - 4 procedures the exposure intensity was elevated to the sub - painful sensations. The duration of the exposure on one zone was from 1 to 3 - 5 minutes, general time of the procedure - 20 minutes, course of treatment - 10 - 15 procedures. The cliniconeurological examination revealed 28 patients had radicular syndromes and 27 patients had reflex syndromes. 23 patients showed the sensitivity disorders as hypesthesia, paresthesia, hyperesthesia. 10 patients showed the locomotive disorders as a paresis of concerned muscle groups. The tension symptoms are revealed in 22 patients. In patients with reflex syndromes the musculotonic manifestations were leading. When palpating the paravertebral muscles, in all the patients the trigger points were found. The tension symptoms were defined in 7 patients. After the treatment, all the patients showed a positive dynamics; state of health improved, sleep normalized, pain syndrome decreased. In group of patients who received the psychological examination, 18 patients presented the positive therapeutic effect. The marked effect was observed already after the first procedure of DENS, but it was unstable. Persistent elimination of the pain syndrome was found after 3 - 4 procedures in patients with reflex syndromes and after 7 - 8 procedures in patients with radicular syndromes. The regression of neurological symptoms in patients with reflex syndromes was observed in the second week of treatment, in patients with radicular syndromes - the third week of treatment. The control group (n=9) showed the regression of the pain syndrome and the rest of neurological symptoms significantly later, in most cases - after 5 - 6 weeks. The most effective treatment regimen is found to be the combined auricular - corporeal influence.

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## Transmission electron microscopic examination of acupuncture point L1 4 (HEGU)

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It is well known that the HEGU is the richest receptor point in acupuncture. In this study, we aimed to examine the ultrastructure of this point and we discussed the ultrastructural findings of this region with the control group. The study was performed in 10 patients. In seven of these patients, the HEGU point was activated and in the rest three of them no activation was done to this point and they were accepted as the control group. All the skin biopsies obtained from the patients were prepared according to routine transmission electron microscopic tissue preparation technique and their ultrathin sections were taken by an ultramicrotome. Following the staining of the tissue sections with uranyl acetate and lead citrate, they were examined under a transmission electron microscope. In the transmission electron microscopic examination of the skin biopsies obtained from the study group; the epidermal cells, junctional complexes, basal membrane, dermal layer and hypodermis were found to be normal ultrastructurally and they did not show any ultrastructural difference, when compared with the biopsy specimens of three control patients.

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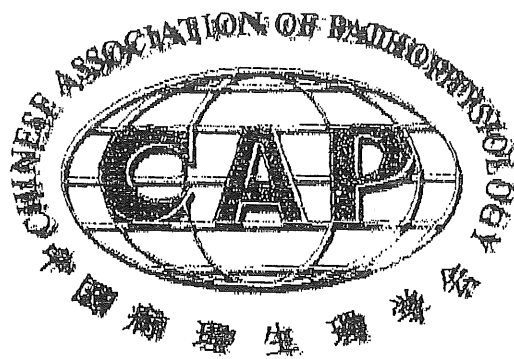
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