Facial Nerve Neuropathy

HELIUM-NEON LASERTHERAPY IN TREATMENT OF FACIAL NERVE NEUROPATHY

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Facial nerve damage is the result of different factors influence and it appears at the background of ischemia anoxia. Elimination of a local pathologically fixed ergothroimages ischemia condition with the help of helium-neon laser therapy (FTNLT) has been conducted taking into consideration initial vegetative pattern of patients. It allowed to adjust treatment methods based on laser effect individually for every patient. Mimic muscles function restoration in the course of treatment had begun after 5 treatment sessions with HNLT and matched vegetative status normalization as well as reofaciogram, ultrasound Dopplerography of temporal and ophthalmic arteries and general conjunctive index. Thus, HNLT is a gentle corrector of vegetative homeostasis and sanogenic mechanisms. It allows to synchronize local and cerebral hemodynamics rhythms and trigger reparative regeneration of the facial nerve.

[Laser therapy and cryomassage in rehabilitation of patients with facial nerve neuropathy]

[Article in Russian]

Maslovskaia SG, Gusarova SA, Gorbunov FE, Strel'tsova EN.

Cryomassage and its combination with low-intensity infra-red laser radiation have been introduced as a novel treatment of facial nerve neuropathy (FNN) in 32 patients. Electrophysiological investigations (facial thermography, classical electrodiagnosis, electromyography of the mimic muscles) and clinical data including those of long-term follow-up show that neither cryomassage nor infra-red laser radiation studied promote transformation of facial tissues in FNN patients. Use of the above factors is effective in a preclinical stage of forming contracture of the mimic muscles. Special techniques of application of local hypothermia and laser radiation can be used in multimodality treatment of both the established contracture and sluggish paresis of the facial muscles