

TRENAR® PORTABLE ELECTRONIC DEVICES COMPLEX FOR MOTOR FUNCTION AND SPEECH RESTORATION



Areas of Application

TRENAR® bioinformational technology is designed to restore motor function after severe diseases of central and peripheral nervous system (stroke, facial nerve neuritis, cerebral palsy, etc.), trauma, postoperative complications and speech after stroke

Specification

The technology uses 2 portable electronic devices. TRENAR-01: 2 channels for electrical stimulation, rectangular radio impulses 10–180 Hz, basic frequency 5 kHz, maximum current 50 mA, 1 channel for EMG-signal record 30–300 μ V; TRENAR-02: 2 channels for electrical stimulation, rectangular impulses 40–200 Hz, maximum current 50 mA, 2 channels for EMG-signal record 10–300 μ V

Advantages

Unlike the existing technologies, TRENAR® uses a set of techniques (programmed, threshold electrical stimulation, biofeedback), programs (artificially synthesized, based on work of healthy muscles), which enables to activate additional reserves for motor function and speech restoration, to involve the patient in treatment process, to organize individual treatment plan, and to raise the effectiveness of rehabilitation. The technology functional range exceeds the known domestic and foreign analogs



Motor function training after stroke using Donor program (based on healthy muscles)

Stage of Development. Suggestion for Commercialization

IRL7, TRL8
Supply, guarantee service,
and staff training, upon request



Motor function training after stroke using Threshold stimulation program

IPR Protection

IPR3

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