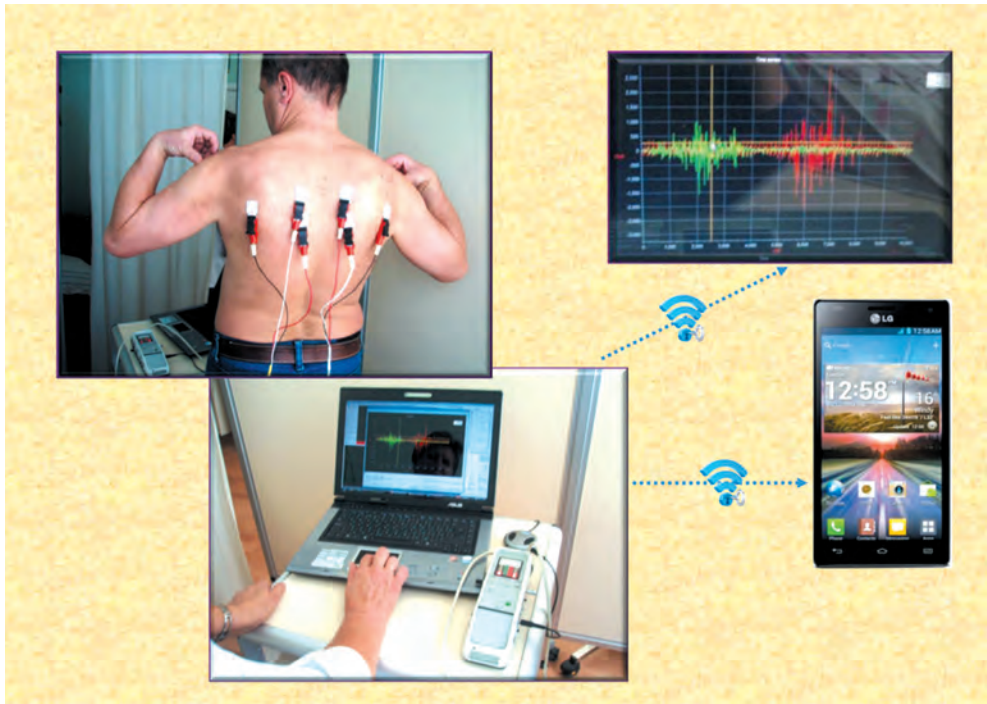# MIOBALANCECOR HARDWARE AND SOFTWARE COMPLEX FOR DIAGNOSIS AND CORRECTION OF POSTURE DISORDERS

Correction of back muscle tone asymmetry based on EMG signal monitoring

Areas of Application

The device is designed for quick diagnosis and correction of balance muscle activity, including symmetric back muscles tone in scoliosis, for tracking and correction of posture disorders. Can be used at clinical institutions, schools, universities, offices, and at home

Stage of Development. Suggestion for Commercialization

IRL3, TRL4
Seeking partners for financial support of industrial production of the complex

IPR Protection

IPR1, IPR2

Specification

The diagnosis and correction of posture disorders are based on biofeedback (BFB) and mioelectrostimulation. The device has 2 channels for perception and analysis (in PC structure) of electromyography (EMG) signals of symmetrical muscles and 2 channels for mioelectrostimulation using original programs

Advantages

The device has no counterparts. *MioBalanceCor* uses original programs for correction of posture based on mioelectrostimulation. In the case of posture disorders, using these programs, selective electrical stimulation of muscles is carried out in order to reduce scoliosis and to strengthen muscle corset

Contact Information

Maia I. Vovk, International Research and Training Center for Information Technologies and Systems of the NAS of Ukraine and the Ministry of Education and Science of Ukraine; +38 067 770 52 61, e-mail: dep140@irtc.org.ua