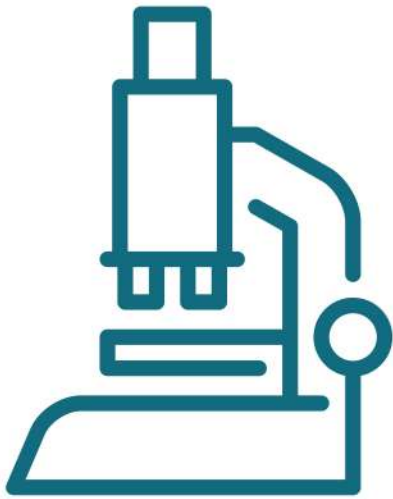


KHARKIV NATIONAL MEDICAL UNIVERSITY

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BIOMEDICAL SCIENCES





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PHYSICAL STIMULATION OF REPARATIVE OSTEOGENESIS

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One of the methods of reparation induction by using physical phenomenons is Low Intensity Pulsed Ultrasound (LIPUS). The method works by creation of pulsed sound waves with low intensity that produce micromechanical tensions at the fracture area. These enforcements become stresses and stimulate a variety of changes at the level of cells and molecules that facilitate osteogenesis, reduce inflammation not only on bone tissue, but also cartilage and tendon. LIPUS predominantly recommended for patients with long bone fractures, performed osteotomies and with aggravating diseases, which hinder proper recovery.



In a recent large study, LIPUS was shown to be an effective therapy for fresh long bone fractures or non-union fractures. The main drawback is that the treatment takes a very long time: the average duration of exposure is 5 months for 20 minutes a day.

An interesting 2014 meta-analysis was performed to compare LIPUS with electrical stimulation in the context of fracture healing.

In patients with a fresh fracture, the study demonstrated a prospective but insignificant benefit of LIPUS at 6 months.

In patients with an un-united or chronic fracture, electrical stimulation also had a small but predicted effect after 3 months in compare with standard treatment.

Electrical stimulation (EStim) method is based at the theory that mechanical tension, applied to the bone, generates electrical potentials with different polarity. Compression creates electronegative potentials that increase organization of bone tissue. Stretching, on the contrary, leads to the emergence of electropositivity, which activate the process of bone resorption.

In theory, the generation of an electric field at the area of injury should enhance bone formation.

Analyzing several level A1 researches, the authors found out that electromagnetic stimulation accelerated regeneration of non-union fractures by an average of 76%.

Extracorporeal shock wave therapy (ESWT) is non-invasive method that uses pressure waves to treat various ailments of bones. During treatment, the applicator produces shock waves, which are single high-amplitude acoustic waves generated by electrohydraulic, electromagnetic or piezoelectric methods. Mechanical force delivering to the tissues through high force waves like through electrical power in previous method.

In animal experiments, these waves have a biological effect, generating free radicals and oxygen radicals, which leads to the formation of a number of biological growth factors and accelerates reparative processes.



Zelle et al. did a systematic research work of the impact of ESWT on the treatment of chronic fractures and non-united fractures. In 10 studies involving 924 patients, the efficacy rate was 76%.

The authors concluded that extracorporeal shock wave therapy can stimulate the healing process in chronic bone fractures and non-unions.



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