



ELECTROTHERAPEUTIC DEVICE FOR ADULTS AND CHILDREN

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How Does It Work?

The Interferential Electrotherapeutic Device utilizes a unique method known as interferential therapy. By generating low-frequency electrical currents and delivering them deep into the affected tissues, this device provides targeted pain relief and promotes faster healing. Unlike traditional electrotherapy devices, interferential therapy maximizes treatment efficiency by using two slightly different frequencies that intersect within the body, creating a powerful “interference” effect.

One of the key advantages of this device is its non-invasive nature. It offers a painless treatment option without the need for needles, surgical procedures, or medication. This makes it an excellent choice for patients of all ages, from children to the elderly, as it minimizes the risk of side effects or complications.

The Interferential Electrotherapeutic Device is immensely versatile, with applications ranging from acute and chronic pain management to accelerated tissue repair. It has proven effective in treating conditions such as arthritis, back and neck pain, sports injuries, muscle strains, and postoperative rehabilitation. By stimulating blood circulation and promoting the release of endorphins, interferential therapy not only relieves pain but also enhances the body’s natural healing mechanisms.

How does electrotherapy work on the body?

When applying electric current, the sensitive receptors in the skin register a tingling sensation that increases in proportion to the intensity of the current.

Electrotherapy can be used in all types of pathology:

degenerative and post-traumatic joint diseases

abarticular rheumatic diseases (muscles, tendons, fascia, and synovium)

peripheral nerve diseases (traumatic injuries and their sequelae)

abarticular inflammations

Electromyography and stimulation add value to physical therapy, and thus fast results are obtained. It is used for the recovery of hypotonic muscles from any joint (talus-valgus leg, genus-valgus, genus-recurvatum, coxa antetorsa, scapulohumeral subluxation).

Electrotherapy for children

Over time, electrotherapy has proven to be an effective solution for the bones, cartilage, ligaments, tendons, and various cells of our body that are positively influenced by electricity.



In the pediatric medical recovery department, electrotherapy is used to stimulate the hypotonic skeletal muscles, producing strong, well-supported muscle contractions. Electrotherapy consists of using an electric current to stimulate the tissues in order to cure various diseases or recover certain lost functions of the body.

Duration of electrotherapy treatment: Patients are recommended 3 series of 10 electrotherapy sessions, with a break between series of 3 weeks, the duration of one session being 30 minutes.

The specialists of the pediatric medical recovery department use multiple electrotherapy procedures: direct electric current and alternating electric current, these being in turn divided into low, medium, and high-frequency currents, with the help of the Chattanooga equipment.

Electrotherapy for adults

Using electrical currents to alleviate pain and inflammation, interference therapy (or interferential electrotherapy) is a noninvasive form of physical therapy. The method employs two or three sets of intermediate frequency currents of changing frequencies applied to the afflicted area. This creates an “**interference**” pattern, which produces an interference current at a low frequency within the body.

Pain is relieved, and inflammation is decreased because this current stimulates nearby neurons and muscles. Musculoskeletal issues like postoperative pain and sports injuries respond well to interference therapy. We call using interference current to treat illness “interference therapy.”



Conclusion

This innovative device is designed with convenience and ease of use in mind. Its compact and lightweight design allows for portability, enabling patients to receive treatment wherever they are most comfortable. With adjustable settings and pre-set programs, it can be customized.