

NMP

ULTRASOUND-GUIDE
PERCUTANEOUS NEUROMODULATION



WHAT IS NMP PERCUTANEOUS NEUROMODULATION?

It is a minimally invasive neuromodulation technique, which works on the peripheral nervous system with the application of a low frequency current near the nervous system. The objective is to electrically stimulate the peripheral nerve and modulate the abnormal behavior of the neural pathway caused by the disease. Thanks to this we improve the good muscular functioning achieving mainly analgesia.

HOW IS IT APPLIED?

Ultrasound-guided percutaneous neuromodulation (NMP) is a minimally invasive technique that consists of introducing needles in the vicinity of the peripheral nerve by applying a series of electrical currents (PENS or PENS BURST type) through a medical device, which allows adjusting different parameters such as: frequency, pulse width and intensity, obtaining an electrical signal in a selective and effective way.



The application of the needle must be performed ultrasound-guided in order to be precise and safe during the needle insertion process after treatment.



Bipolar Needle



EPTE Bipolar System

“Percutaneous neuromodulation NMP, a technique to address the peripheral nervous system.”

WHAT IS THE OBJECTIVE OF THIS PERCUTANEOUS NEUROMODULATION TECHNIQUE?

The versatility of the technique allows the health professional to work at the peripheral nervous system level. Through nerve stimulation, the aim is to modulate the abnormal behavior of the neural pathway caused by the ailment, reducing pain and improving neuromotor control.

NMP BENEFITS



NMP APPLICATION FIELDS

Neuromodulation opens a new treatment model within electrostimulation both at peripheral and minimally invasive level with the NMP technique or at central and non-invasive level as would be the tDCS technique. Neuromodulation becomes an alternative treatment with great medical evidence for different ailments and pathologies.

- Treatment of acute and chronic pain of musculoskeletal origin: spine, postoperative, neuropathic, chronic cervical of myofascial origin, TMJ, among others.
- Restore the function of the nervous system, peripherally and centrally.
- It improves neuromuscular function, muscle recruitment patterns as well as motor control.