

new ONE

THERAPY **IN** MOTION



LESS WEIGHT, MORE POWER

newONE

The system



*Cart optional

newONE is about to become the ideal tool for rehabilitation therapists who still want to use the traditional tecar therapy techniques that have already been widely tested for years on the market, but who are also seeking new methods of treatment for the well-being of their patients.

The collaboration between medicine and high-tech has created new tools that are able to make the body healthier and more efficient.

newONE was born after years of research and study in the field of physical medicine, with the help of the latest technology and modern electronics.

The newONE system has been designed with the express purpose of promoting the development of energy within biological tissue to activate tissue repair, after removing the inflammation by eliminating the chemical factors that determine it. **(T.E.CA.R. therapy * - Resistive and Capacitive Energy Transfer)** is the application of an energy transmission system based on radio-frequency, applied to the human body as a method that is able to generate and use the quality and the quantity of energy accumulated by the body for therapeutic purposes.

newONE owes its effectiveness to the combination of the proposed energies that, cleverly associated integrate and enhance the treatment.

Capacitive and resistive handpieces that are easy to handle, suitable for diathermic massage and that may be associated with automatic therapies (free operator mode with adhesive electrodes).

This innovative method allows to rapidly obtain the desired results, which are long lasting and non-invasive.

newONE



T.E.C.A.R. THERAPY

It is a technique that uses the physical principle of the high-frequency condensor, creating an electromagnetic field between active and negative electrodes. It involves the human body in a hyperactivity of movement through the current of electrolytic charges within the body. All of these elements work when the circuits are closed, creating an electric differential that generates energy and creates a movement of charges equal to the number of pulses emitted by the generator.

The electric differential is measured like a voltage generator. The human body is a second-type electric armour and has the function of conductor with variable resistors from surface to depth.

The ability to quantify the absorbed energy in Joules / cm² allows the operator to use a proper energy dosage adapted to the type and severity of the disease, with the typical selectivity of the emission frequency, enabling the execution of a protocol that is now objective instead of subjective.

Three fundamental effects are thus obtained:

- greater effectiveness, with an optimal dose of energy.
- absence of significant side effects and certainty of outcome, avoiding the overdose of energy.
- innovative technology that sets different parameters on the use and application of physical principles of radiofrequency applied to the body for a therapeutic process.

Low, Medium, High levels of the Tecar therapy - Effects

At the low energetic level, cell biostimulation occurs without endothermic dissipation. At the medium level there is an increase in temperature (not induced by the transfer of heat like in other radiant energy therapies). At the high level there is a greater vasodilation with a natural increase of the hemolymphatic flow.

The energy levels can be adjusted and customized on the basis of the symptoms and the patient's response. The use of these different operating modes can be modified depending on the diagnostics and the objectives. A rapid functional recovery is noticed in 3 essential and synergic actions:

- Powerful analgesic action, to act on the nerve endings.
- Draining effect on the tissues, through the mobilization of electrolytes and control micro-circulation.
- Strong peripheral stimulation at the functional circulatory level, thanks to an increase in endogenous temperature.



Energy levels

Low (Athermy)

- Increased consumption of oxygen.
- Analgesic action.
- Cell biostimulation with low endothermic dissipation.

Medium (Homeothermy)

- Increased intracellular energy activation.
- Decontracting action.
- and precapillary microhyperemia with an increase in oxygen request.

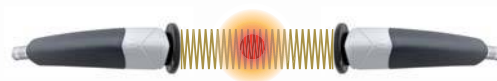
High (Hyperthermia)

- Increase of the flow velocity and the perfusion of blood (vasodilation and hypothermia).
- Inhibits oedema.
- Acceleration of lymphatic drainage.

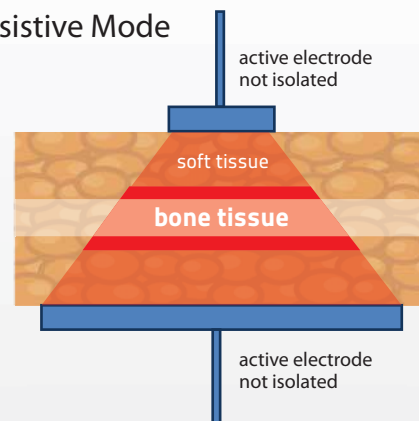


How it works

The Tecar therapy works in depth (it does not transmit radiation from the outside but draws electric charges from the body tissues) generating endogenous thermal energy.



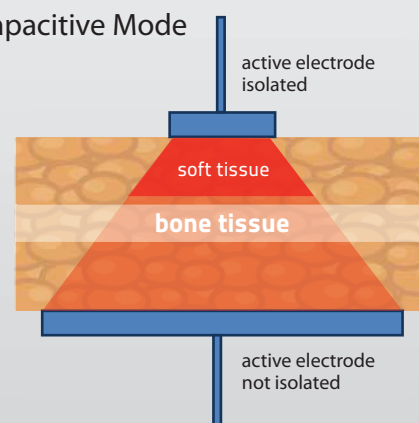
Resistive Mode



The point of concentration of the charge is in the most "resistive" area of the biological tissue interposed between the active electrode and the passive reference electrode. The highest amount of electric charges are concentrated on the tendons, ligaments or bones.

The surface of the active electrode is usually inferior to that of the passive / reference electrode.

Capacitive Mode



The charge concentration area is created in the vicinity of the isolated active electrode.

The surface of the active electrode is inferior to that of the passive / reference electrode

Applications

Acute traumatic injuries, Rachialgia, Consequences of fractures, Arthropathies from autoimmune diseases, Myalgia, Articular deficiency, degenerative articular disease Radial styloiditis, Carpal tunnel syndrome, Rhizarthrosis, Epicondylitis, Golfer's elbow, Rotator cuff syndrome, Retractable capsulitis, Subacromial impingement syndrome, Cervicalgia, Cervicobrachialgia, Low back pain, Lumbosciatica, Coxofemoral periarthritis, Coxalgia / Coxarthrosis, Adductors pathologies, Gonarthrosis, Patellar tendinitis, Baker's cysts, Tibiotarsial distortion, Achilles tendinitis, Plantar fasciitis, Metatarsalgia. In postsurgical rehabilitation programs (e.g. : arthroprosthetic surgery)



newONE is a useful tool in sport world to reduce and prevent the incidence of injuries during athletic preparation phases.

This need is strongly felt in the field of sports medicine to deal with the problems of athletes, often subjected to biomechanical and articular overload due to a greater number of workouts that are increasingly pressing.



Brera Medical's Tecar therapy systems have been chosen by professional teams of different sports:



Benefits for patients

- Painless therapy, with comfortable feeling.
- Immediate functional improvement (in the first 24 hours).
- Therapy cost more interesting than for other applications.
- Secured treatment with no side effect.
- Some precautions should be taken in patients who use pacemakers, in people with no sensitivity to temperature and in pregnant women.

Benefits for physical therapists and rehabilitation centres.

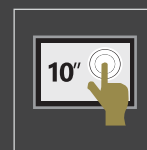
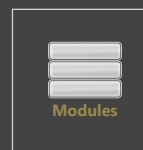
- **newONE** is multifunctional for treatments in the areas of rehabilitation, neurology, pain management, sports medicine, physiotherapy.
- Grants an exclusive service for the treatment of pain for your patients / clients.
- Integrates well with other therapies.
- Has an automatic without operator function.
- More power with 200W RF.
- Improved and intuitive software with touch screen.
- New functional and ergonomic handpiece for a grip that helps the work of the physiotherapist.
- The Tecar therapy with **newONE** meets the many expectations of your patients. It is currently used in many countries around the world. In Italy, many clinical practices, hospitals, associations and sports teams have very successfully adopted its use.
- Approximately 3,5 Kg weight, easy to carry for home therapy with supplied backpack and modular for several therapy choices.



THERAPY
INMOTION

Why choose **newONE**

50% less weight
70% more power



Easy Use

Latest generation colour 10" touch screen.
New management software approach for
prompt and user-friendly therapies.

newONE

8  RF-RESISTIVE

9  10 



1 Power Control
Control and selection of energy to be used. Watt and energy indicator in two different hands.

2 Watt
Selection of the desired power (cruise mode management, active "4" APC).

3 Time
Selection and control of the treatment time.

4 APC (adaptive power control)
On / off button for adaptive power control.

5 Selection buttons
Regulation (1 - 2 - 3) and navigation buttons.

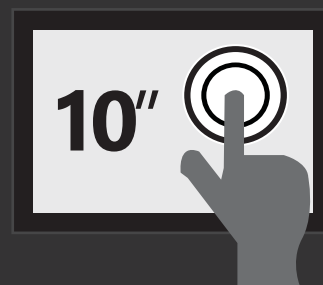
6 Pedal
On / off button of the foot pedal function for enabling energy.

7 Start / Stop
Start / stop therapy button. Off button in the absence of connected knobs.

8 Handpieces
Indicator of connected accessory. (handpieces connected message).

9 Configuration
Button for service parameters management.

10 Info (help)
Button to display a guide for using newONE.



newhandpiece



Usability

Usability Study and development of a new Universal handpiece.
Lightweight, Ergonomic, Functional.

Ergonomic

The new design of the handpiece was elaborated in accordance with the massage and traditional grip therapeutic styles.



Functional

Universal quick coupling handpiece that modulates the energy delivered automatically thanks to its particular geometry and allows to treat surfaces of varied extension with a single electrode, both Resistive and Capacitive.

Technical specifications

Supply	110 - 240 V~ (± 10%) - 50/60 Hz
Consumption	1,65A@230Vac
Safety Class	Class I type BF
Dimensions	Controller 270x250x90 mm Module RF 270x85x170 mm
Weight	About 3,5 Kg
Handpieces	RF Resistive and Capacitive - Static 3D

RADIOFREQUENCY

RF Mode	Monopolar
Frequency RF	500 kHz ±5%
Power RF	00W ±10% @ 47 ohm
Max output power	Up to 96 Vrms @ 47Ω

CONTACT US NOW
+39 0974 19.36.516

info@breramedical.com



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MADE IN ITALY

Loc. Terzerie Z.I. - 84061 Ogliastro Cilento (SA)
www.breramedical.com