

DIATHERMY

It is a form of endogenous thermotherapy that uses heat for therapeutic aims, especially in case of pain and muscular diseases. The term "endogenous" refers to the fact that this technology transfers an appropriate quantity of energy able to stimulate the production of heat to biological substrate. This "biocompatible" energy supplied to various tissues explains thus its therapeutic action with some synergic effects, among which:

- Increase of microcirculation • Vasodilation • Increase of internal temperature

Moreover, the endogenous heat determines a selective BIOSTIMULATION on atrophic tissues triggering physiological responses of improvement. This technology, provided with a radiofrequency digital generator, allows the setting of two frequencies (500KHz and 1MHz) via software so as to be more selective about depth of action.

The technology is equipped with an intraoral transducer that allows to treat the internal muscles (eg Pterigoidei) selectively with low dosages.

According to the actual needs of the patient, acting at a "software level", this technology allows one to vary and modulate different operating modes:

- Capacitive • Resistive • Monopolar • Bipolar

The above is aimed at achieving the strong compliance of the patient who undergoes therapy without pain.

ELECTROPORATION

System for non-invasive transdermal transfer of allopathic or homeopathic or homotoxicological active ingredients or platelet-rich plasma (PRP). The application of a particular electrical impulse on a biological surface causes a temporary increase of tissue permeability. This allows transcutaneous absorption of active ingredients with controlled released and predefined depths. A higher concentration is achieved only on target districts, with lower systemic absorption and a subsequent decrease in "toxicity".

Practically it is a "virtual" syringe that is able to inject the active ingredient specifically where it is needed.

ABLATIVE RADIOFREQUENCY

Minimally invasive method that uses a resistive Ablative Radiofrequency. This technology uses a transducer provided with a thin needle generating micro-discharges able to vaporize target tissues (ablative effect); this is a monopolar method that does not present a visible reference electrode.

SUPPLIED

- N.01 power cable
- N.01 elastic band
- N.01 TMJ transducer
- N.01 small district diathermy transducer
- N.01 big district diathermy transducer
- N.01 intraoral diathermy transducer
- N.01 steel plate
- N.01 steel plate cable
- N.01 cable for electroporation
- N.01 electroporation transducer
- N.01 deer plate electroporation
- N.01 Ablative Radiofrequency transducer
- N.05 single-patient needles

TECHNICAL SPECIFICATIONS

- Power supply 100÷240 V, 50÷60 Hz
- Max power consumption 450 W
- Electrical safety class II BF
- IP Protection rating IP40
- Max RF output power 150 W @ 50 ohm
- RF Emission Frequency 500 MHz, 1000kHz settable from software
- Capacitive/Resistive emission type
- Monopolar / Bipolar functions
- Max electroporation voltage 120 V @1000 ohm
- Freq. Electroporation impulses 1÷3000 Hz settable from software
- Complex electroporation wave form settable from software
- 10.1" colour touch screen with embedded PC
- Operating temperature 0÷40 °C
- Operating humidity 30÷75% without condensation
- Dimensions L 45 x H 96 x D 41 cm
- Weight 7 kg

PLUS

Feedback of the impedance of the treated area to adapt treatment parameters to the patient's individual conditions.

Option of setting two frequencies via software: 500 kHz for deeper pathologies and 1 MHz for more superficial pathologies.

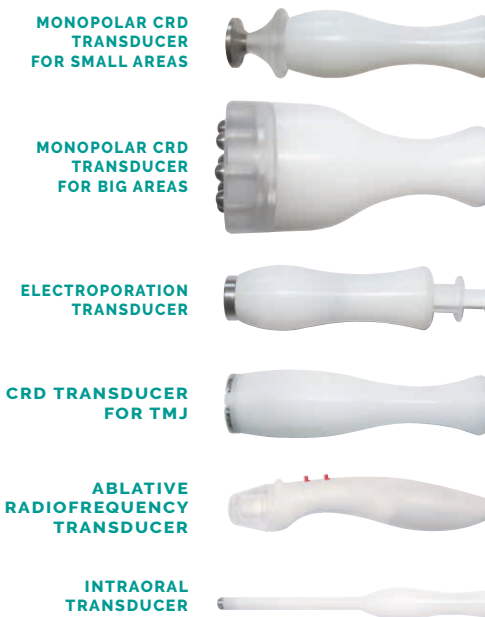
Option of setting monopolar or bipolar mode via software without changing transducers.

Option of setting capacitive or resistive mode via software without changing transducers.

Capacitive transducer without epoxy coating.

All of the parameters are displayed on a generously-sized 10.1" colour touch screen.

The software is set up according to the Friendly Human-Machine Interface [FHMI] concept to make it intuitive and user-friendly.



Equipment certified as MEDICAL DEVICE in compliance with directive 2007/47/EC amending directive 93/42/EC

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VELVET TMJ FULL

The effective technology for the treatment of stomatognathic system pathologies and of physiotherapeutic indications of the whole body



VELVET
TMJ FULL



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VELVET TMJ FULL is the district technology with capacitive and resistive diathermy, electroporation and ablative radiofrequency. The device can be used in daily dental practice, for the treatment of TMJ disorders, in oral micro-surgery operations and in the treatment of pathologies in the physiotherapy field

AIMS	<ul style="list-style-type: none"> • Biostimulation of the healing process to allow a speedy recovery with a consequent reactivation of the function and an immediate disappearance of the pain • Effective and fast treatment of painful inflammatory, osteoarticular, degenerative and muscular disorders such as arthrosis, lumbago, sciatica and temporomandibular dysfunctions
ADVANTAGES	<ul style="list-style-type: none"> • No administration of anti-inflammatory medications through a systemic way but only a district way with a transdermal vehiculation through electroporation • Preset programs for the stomatognathic system, osteoarticular and muscular disorders. • Short term recovery of a good functionality (about 6/10 sessions in 4 or 5 weeks)

APPLICATION FIELDS

All tissues of the stomatognathic system and nearby structures	Microcirculation	Muscles
Bones	Legaments	Mucosa

PHYSIOTHERAPY

Velvet TMJ Full effectively and rapidly treats pathologies of knees, shoulders, hips, ankles, vertebral column, hands and muscles, as well as painful inflammatory, degenerative osteoarticular and muscular disorders such as arthrosis, low back pain and sciatica.

From the first application, tissue stimulation already produces a significant reduction of the symptomatology, increases blood circulation and oxygen tension in the treated area, generates vasodilation, reduces muscle contractures, facilitates the reabsorption of oedemas.

THERAPEUTIC INDICATIONS

DAILY CLINICAL PHYSIOTHERAPY PRACTICE

ARTHROSIS	SCIATICA
LUMBAGO	OTHER OSTEOARTICULAR, LIGAMENTAL, TENDINOUS PATHOLOGIES

STOMATOGNATHIC SYSTEM AND TMD

The “good medicine” concept, aimed at increasingly careful and demanding patients, is being developed through a technology that can be used daily to solve various dental issues (from the conservative ones to prosthesis, from surgery to periodontology).

Velvet TMJ Full represents the painless and non-invasive solution able to treat all tissues of the stomatognathic system and temporomandibular dysfunctions. In this case, the purpose of the treatment is to decompress joints, to relax muscles, and to contribute to the repositioning of the mandible. This technology creates optimal conditions for the healing and adaptation process.

THERAPEUTIC INDICATIONS

DAILY CLINICAL DENTAL PRACTICE

ALL ACUTE OR CHRONIC ODONTOGENIC PAINFUL FORMS AND NOT
OROCERVIC FACIAL PAINS
POST FRACTURE BONE CONSOLIDATION
OEDEMA AND TUMEFACTION (ODONTOGENIC AND NOT, POST SURGERY, TRAUMA OR TMD)
TRISMUS AND MUSCLE CONTRACTURES (POST-ABSCESS)
TRIGEMINAL NEURALGIA

TMJ INTRACAPSULAR DYSFUNCTIONS

REDUCIBLE CONDYLE-DISC-TEMPORAL CLICKING OR INCOORDINATION
REDUCIBLE CONDYLE-DISC-TEMPORAL LOCK OR INCOORDINATION
DEGENERATIVE PROCESSES (ARTHROSIS, REACTIVE ARTHRITIS)
INFLAMMATORY PATHOLOGIES (SYNOVITIS, CAPSULITIS, INFLAMMATION OF BILAMINAR LIGAMENT)

TMJ EXTRACAPSULAR DYSFUNCTIONS

SUBLUXATION
MUSCLE TENSION MASTICATORY MUSCLE PAIN
FACIAL TRAUMA WITH MANDIBULAR INVOLVEMENT
INFLAMMATORY PATHOLOGIES (TEMPORAL TENDINITIS, CORONOID INFLAMMATION)

ORAL CAVITY MICROSURGERY

Ablative Radiofrequency limited to superficial layers; it represents the evolution of mini-invasive surgery featuring extreme selectiveness on the target tissues and offering the possibility of also acting on small blood vessels, thereby:

- minimising pain during operation;
- immediate micro-coagulation of the treated area with small blood loss.
- • no sequelae from burns caused by non-consistency in the electrical impedance of the treated tissues
- minimising stress to the tissues surrounding the target, thanks to lower operating temperatures compared to traditional radio scalpels.
- possibility of carrying out the operation in an outpatient clinic.

The treatment is managed by a software that controls and stabilises the flow of energy delivered to the patient, achieving:

- reduction of the energy transferred to the patient.
- reduction of post-operative recovery times.
- functioning without reference electrode.

THERAPEUTIC INDICATIONS

MICRO-SURGICAL PRACTICE WITH ABLATIVE RADIOFREQUENC

MUCOCELE / FIBROMA / EPULIS REMOVAL
CLINICAL CROWN LENGHTENING
FRENECTOMY / FRENULOPLASTY
GINGIVECTOMY / GINGIVOPLASTY
WART REMOVAL
CHERRY ANGIOMAS REMOVAL
GUM BLEACHING
HERPES SIMPLEX TREATMENT