



**GREEN  
MEDICAL**  
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**TCARE™**

**Cellular regeneration therapy**

The **GPS Pathways for Rehabilitation™** concept allows clinicians to combine different treatment modalities in order to get the best out of each modality. Treatments are faster, more efficient and effective as each modality complements and increases effectiveness of the other.



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# **TCARE™**

## **Cellular regeneration therapy**

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“

*Chinesport designed and developed the TCare in close co-operation with leading experts that have many years of experience in their respective fields.*

*I'm convinced we reached our goal in designing a device that can bring great benefits to wide spectrum of patients, featured by quality and performance.*

*Our TCare stands at the forefront of CRET technology, yet remain accessible, easy-to-use and a sensible choice for any practice.*

”



**Angelo Snidero**  
President - Chinesport, Italy



## Clinical testimonial



### **Alice Zelco** **TCARE Therapy Master Trainer**

Bachelor in Physiotherapy

Italian National Team, field hockey

*Italy*

“I’ve been involved in professional sports since starting my career in physiotherapy. For several years I’ve been working with the Italian national field hockey team. To get athletes quickly back to peak performance, it is imperative that we immediately and efficiently cope with the various issues they have. I need a device that ensures cellular recovery and maintains vascular homeostasis. In conjunction with my rehabilitation know-how, the device should immediately rebalance the physiological state of tissues. TCare is the answer for me. It allows me to solve a variety of problems; from tendinopathies, to trauma to muscle and hard tissues, even regaining range of motion in specific movement patterns. This is possible by being able to administer TCare treatments during fascial manipulation and joint mobilisation. TCare has proven to be a winning device when it comes to solving musculoskeletal issues. I successfully treat postural problems that are often caused by tissue trauma and swelling. Even in a single treatment session I notice improvements in posture.”



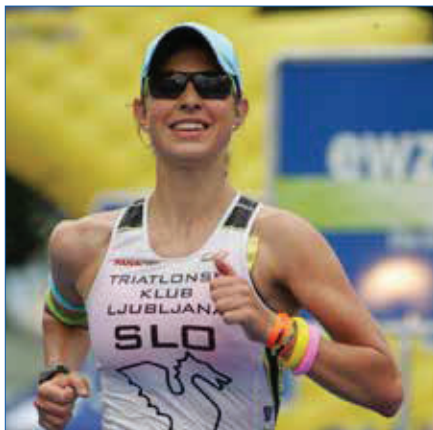
### **Stef Harley** **Senior physiotherapist**

Owner Synovia Physiotherapy

*Slovenia*

“Because of the ability to use TCare in so many different situations, we use it practically in every treatment session we do in our practice. It is very simple to use and, clean and maintain. During treatments you can switch quickly through different handpieces and modalities, and adjust settings. We really like the way we can integrate TCare into other techniques such as manual and exercise therapy. Patients generally also really like the feeling of TCare treatments particularly those with really painful conditions. It is actually hard to imagine being without our TCare; thankfully it just keeps on going and going, even after so many years.”

## Patient testimonial



### Karla Oblak Extreme Triathlete

Master in Yoga Therapy for Sports

Blogger, [www.karlaoblak.com](http://www.karlaoblak.com)

Slovenia

“I competed in many extreme triathlon races in my triathlon career (Austria Extreme triathlon, StoneBrixia Man, ICON triathlon, Italy Man, ...). My first race was Austria Extreme triathlon where I came first women and 19th overall. That was the sign that extreme races are the right format for me, a combination of body endurance and mind power.

Competing in the 2017 Stone Brixia Man extreme triathlon was one of the most extreme challenges I have taken on in my career as a triathlete. We swam 3,9 km in Lago d'Iseo, cycled 190 km over the Passo di Mortirolo and up the Passo Gavia and then ran a full marathon covering almost 3000 m height difference. I prepared for this event for many months ahead. At one point I sustained an **over-use injury in my foot**. While it was a relatively small injury it meant that I could not run or cycle at all without pain. It was a big set back in my training. Thankfully my physiotherapist had the solution for me. We worked intensively with **TCare** to reduce the pain and inflammation. After an intensive couple of weeks of therapy, I was ready for full-on training again.

TCare really did make a huge difference. My physio used it in many different ways. First I hardly felt anything during the treatments; he told me he was working on cellular regeneration and pain modulation. But after the treatments I did feel a difference. After a few days we started using the TCare more actively during mobilisations, friction treatment and strengthening exercises. Now I could feel a heating sensation in different areas where the TCare was applied. It felt really great and comfortable. I am really grateful that my physio choose to have TCare in his practice. It has helped me a lot on many other occasions too; I now also enjoy **recovery treatments** after races with the **TCare and Mi.TO. therapeutic table**. I can only recommend people to try it and feel the effects almost immediately.”

Karla organizes yoga retreats and active vacations in Slovenia and Croatia. For more information visit [www.vitasana.si](http://www.vitasana.si)

Designed with you in mind

1



## ALL WITHIN EASY REACH

TCare's carefully designed console safely holds all essential accessories so that everything is within easy reach for you during treatments. Don't run the risk of dropping sensitive handpieces!

2



## SIMPLE TOUCH OF A BUTTON

The front panel includes all controls in an easy overview-able configuration. At a simple touch of a button you can change treatment parameters without an unnecessary hassle.

3



## EASILY ADAPT TO ANY THERAPEUTIC SITUATION

A complete range of capacitive and resistive handpiece lie within easy reach. You can change handpiece sizes easily to adapt to anatomical topography and remain effective and efficient at all times.

4



## CREAM OF THE CROP

Patented Roll-On handpiece ensure economical and efficient distribution of conductive cream. No more greasy, slippery hands during treatments!

5



## KEEP AN EYE ON PARAMETERS AT ALL TIMES

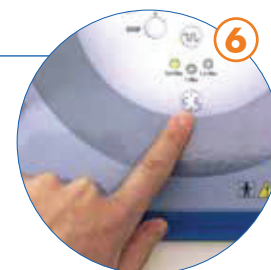
The carefully designed lay-out of the front panel allows you to easily see all essential treatment parameters during your treatments. When needed just change parameters at the touch of a button.





## SELECTIVE TISSUE TREATMENTS

Capacitive and resistive modes of operation allow you to determine which tissues you will focus your treatments on to gain better therapeutic effects.



## MORE FREQUENCIES, MORE OPTIONS

Three frequencies allow you to manage the depth and intensity of your treatments.



## MAXIMUM HYGIENE FOR YOUR PATIENTS

Roll-On inserts allow you to keep hygiene at a maximum. Patients can now have their own personalised Roll-On insert for the duration of the entire therapy.



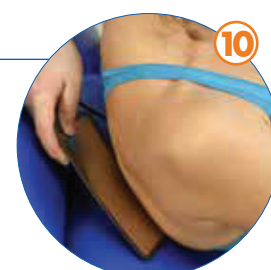
## EASY CLEANING

The entire console surface is easy to clean without risking the damage you can do to sensitive touchscreens and controls.



## MORE COMFORT FOR YOUR PATIENTS

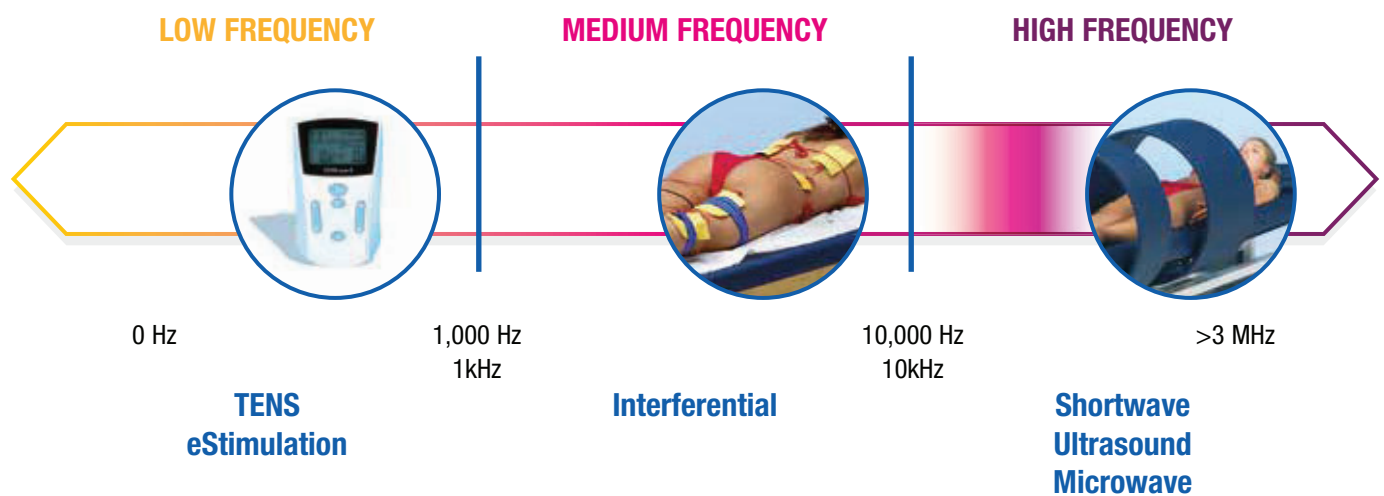
The flexible, smaller passive plate with protected edge, allows it to adapt to the patient's anatomy to increase comfort during treatments. More over it is easily cleaned and reused, without having the cost of expensive consumables.



## How does TCare work?

TCare is a Capacitive Resistive Energy Transfer or CRET device. It delivers radiofrequency energy that passes between an active and passive electrode to generate therapeutic effects in the body. One of these effects is generating heat and therefore CRET can be considered as a form of thermotherapy. Within the spectrum of electrophysiological modalities that are commonly used in physiotherapy and rehabilitation, CRET is also known as diathermy which literally means “to heat up”. A big and essential difference between conventional short wave diathermy (SWD) and CRET is the frequency or wavelengths of the radiowaves that are used. Conventional SWD uses frequencies of 13.56 MHz, 27.12 MHz or 40.68 MHz, whereas our TCare uses much smaller frequencies of 0.8 MHz, 1.0 MHz or 1.2 MHz. The effects on cells and tissue of TCare are therefore quite different.

## Chinesport's modality continuum



*Within the spectrum of chinesport devices, our tcare takes a unique position in the lower end of the high frequency range of devices. This makes tcare very compatible with other forms of electrophysiological therapies since it complements their therapeutic effects.*

Chinesport's TCare is a monopolar CRET device. This means that we make use of separate active and passive electrodes during treatments. The distance between these electrodes can be very large. For example, the patient can stand on the passive electrode with one foot and hold the active electrode in the opposite hand in functional treatments for shoulder injuries. The effects of monopolar devices reach much deeper structures, such as joints and deep musculature, than bipolar radiofrequency devices.



As a form of thermotherapy CRET produces 3 different effects in tissues. Firstly, it increases tissue temperature which increases soft tissue extensibility and consequently increases muscle flexibility and reduces muscle tension and spasm. Secondly, as tissue temperature rises, vasodilatation will occur. This improves general blood circulation which produces an influx of nutrients, thus promoting tissue repair and healing. Thirdly, as circulation improves hypoxic conditions in damaged tissues are reversed. This halts the production and release of pain-creating substances, thus having a positive effect on pain, spasm, joint contracture and reducing tissue fibrosis.

It is important to understand that CRET provides non-thermal, as well as thermal effects. Ionization of tissue molecules will cause physiological oscillations that create vibratory energy. Part of this energy will lead to endogenous heat production in the tissues. This will lead to vascularisation in the tissues and eventually with increasing temperature to hyper-activation. But some of the energy is used to directly increase cell metabolism through and increase ATP and ADP synthesis. The latter influences the cell membrane and receptors. This phenomenon improves cellular regeneration and modulates pain sensations. The ratio between thermal and non-thermal effects depends largely on the electrical properties or impedance of specific tissues and the condition of these tissues, i.e. whether they are injured or not. CRET treatments can therefore be very selective.

### Thermal and non-thermal effects



#### Biostimulation

- No temperature increase in tissue
- Stimulates metabolism and lymphatic drainage
- Suited for acute, inflammatory processes



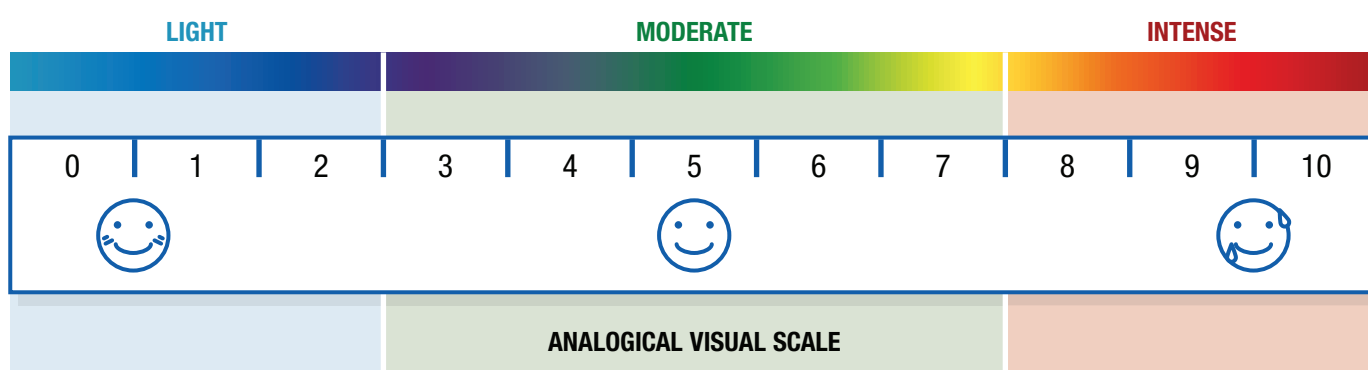
#### Vascularisation

- Mild temperature increase due to increased micro-circulation
- Increases drainage, now also venous; improves tissue oxygenation and tissue metabolism
- Suited for subacute, healing processes

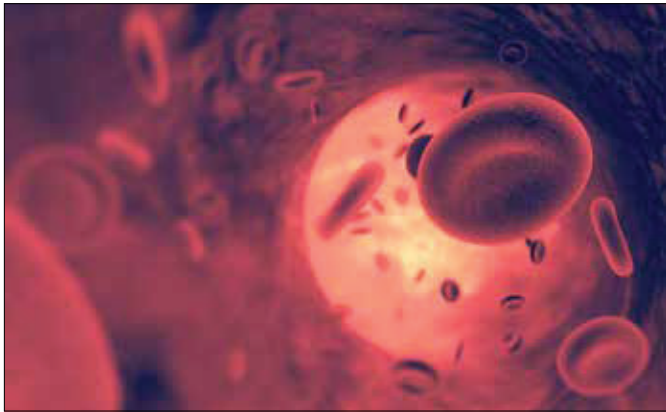


#### Hyperactivation

- High thermal effects
- Further increase in haemodynamic flow; vasodilatation
- Reduces tissue tensions; increases tissue compliance
- Chronic processes and regeneration



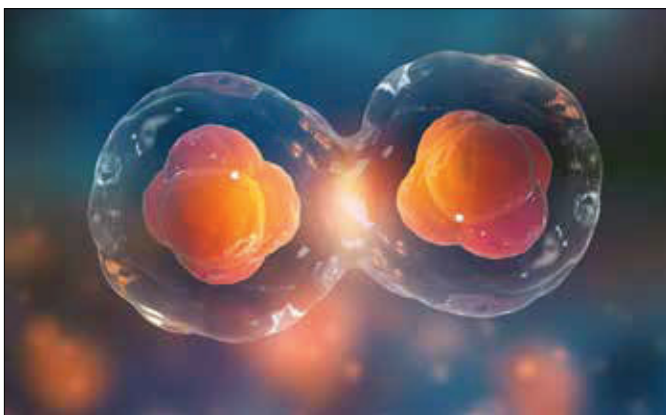
## What are the effects of a TCare treatment



### **INCREASES ARTERIAL FLOW**

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Increases arterial flow to improve nutrient and oxygen supply to cells and stimulate cellular regeneration.



### **INCREASES CELLULAR METABOLISM**

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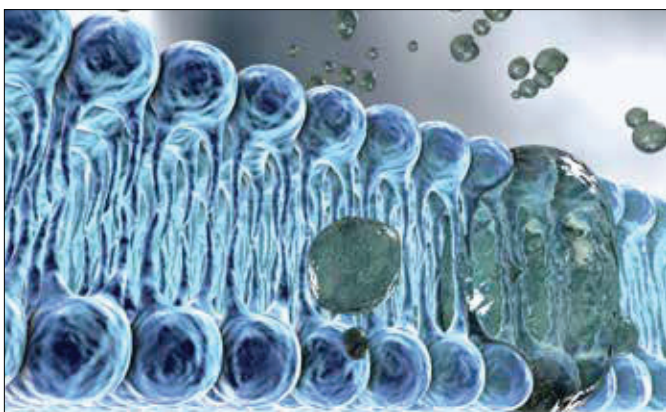
Increases cellular metabolism through various physiological pathways and internal temperature to stimulate cell growth and proliferation and maintain homeostasis.



### **BOOSTS INTRACELLULAR ENERGY TRANSFER**

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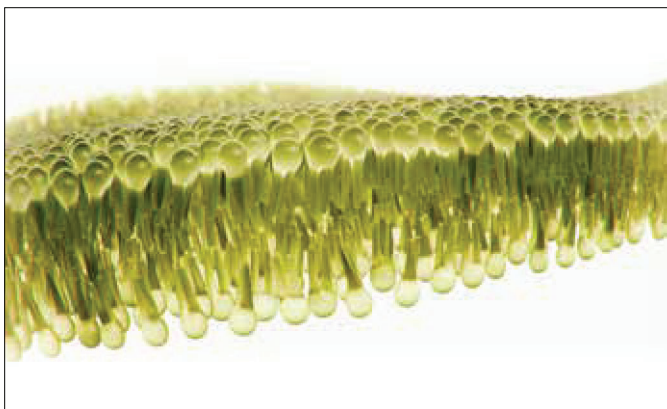
Boosts intracellular energy transfer by transforming ADP into ATP for better cell function.



### **IMPROVES CELL MEMBRANE BALANCE**

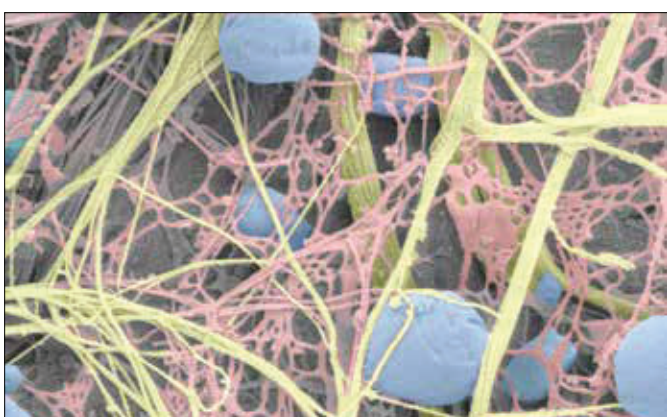
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Improves cell membrane balance in all the cells within the treated area (fibroblasts, adipocytes, etc...) to augment cell growth regulation.



## RE-POLARIZES THE CELL MEMBRANE

Re-polarizes the cell membrane from a pathological -40 mV to a physiological -70 mV.



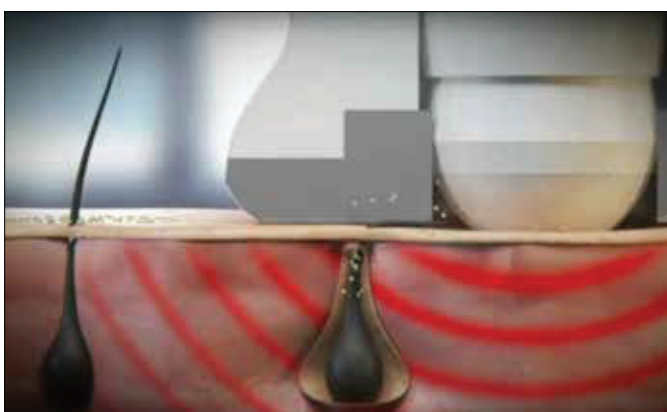
## TRANSFORMS THE EXTRA-CELLULAR MATRIX

Transforms the extra-cellular matrix from a pathological gel state to a physiological and healthy sol state.



## INCREASES LYMPHATIC AND VENOUS FLOWS

Increases lymphatic and venous flows to improve removal of toxic agents and catabolites.



## POTENTIATION AND DIFFUSION OF ACTIVE PHARMACOLOGICAL AGENTS

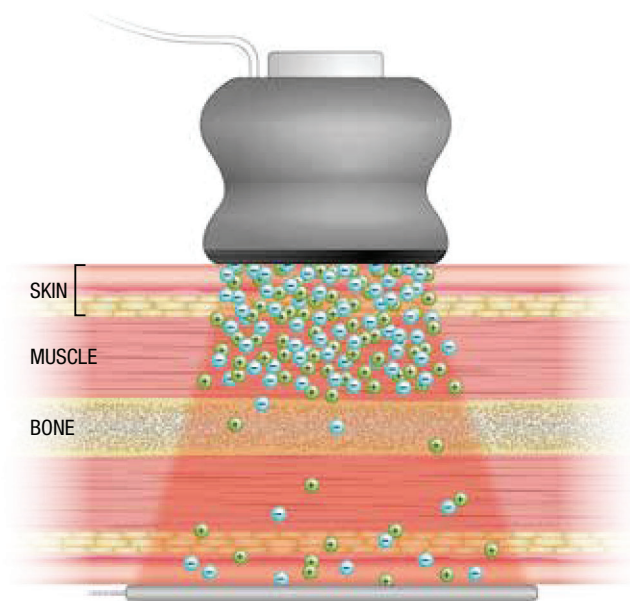
Potential of, and synergy with active agents in the Roll-On handpieces that are diffused into the dermis and hypodermis, provides advantages compared to intramuscular or oral applications.

## Precise treatment effects and tissue selectivity

TCare offers the ability to provide capacitive energy transfer and resistive energy transfer treatments. Each mode targets different types of tissues. Depending on various factors, TCare treatments can create sensations ranging from very gentle, hardly-noticeable warming of the skin over the treated area to deep intense, internal heating. Which sensation you create depends on the first place on whether capacitive or resistive energy transfer is applied. Other factors that play a role are distance between the active handpiece and passive electrode, the intensity settings you select, the duration of the treatment, the handpiece sizes and movement during the treatment. In addition, disorder or injury acuteness, patient level of hydration and thus tissue impedance, and other internal and external factors may influence treatment parameters and effects. It is known that tissue impedance of damage or diseased cells is different from healthy cells. This means that you can determine exactly which treatment effects you want within specific tissues by selecting your treatment parameters on the TCare.

## An extension of the therapist's hands

In **capacitive mode**, ion movement is restricted by a high-performance, bio-based polyamide insulation layer on the handpieces. Energy is thus largely accumulated directly under the handpiece. Tissue temperature increase and decay are more intense, and concentrated in superficial and soft tissue structures such as muscle, blood and lymphatic vessels and the different skin layers. Because of this, handpiece size and movement speed of the handpiece during treatment are important considerations. Namely, for the same treatment intensity setting, tissue temperature increase under the larger handpieces will be more gradual than under smaller handpieces. Or when moving the handpiece more slowly over the treatment area, tissue temperature increase will be more intense than when moving vigorously over the same area. TCare thus offers you several



## CAPACITIVE ENERGY TRANSFER

- Handpieces with insulation restrict ion movement
- Accumulation of energy under handpieces
- Tissue temperature changes more intense
- Movement during treatment is necessary
- More suited for superficial treatments and soft tissues



Quadriceps muscle injury



Contracture in acute low back pain

handpiece sizes so that you can select the most appropriate handpiece size depending on the size of the to-be-treated area and the envisioned therapeutic effect. Handpiece movements can be circular or linear, and above all - for optimal and safe energy transfer - should follow the topographical contours of the treated area without losing contact between handpiece and skin. TCare's Roll-On handpieces are specifically designed to minimise strain and effort for the therapist when delicately and precisely applying the TCare treatments. In fact, the TCare handpieces are designed in such a way that they become an extension of the therapist's hands. This provides the ability for the therapist to apply various massage techniques; patients will hardly notice that a handpiece is being used. The intimacy and hands-on experience that bring so much important comfort and reassurance to the patient are thus not lost.



## RESISTIVE ENERGY TRANSFER

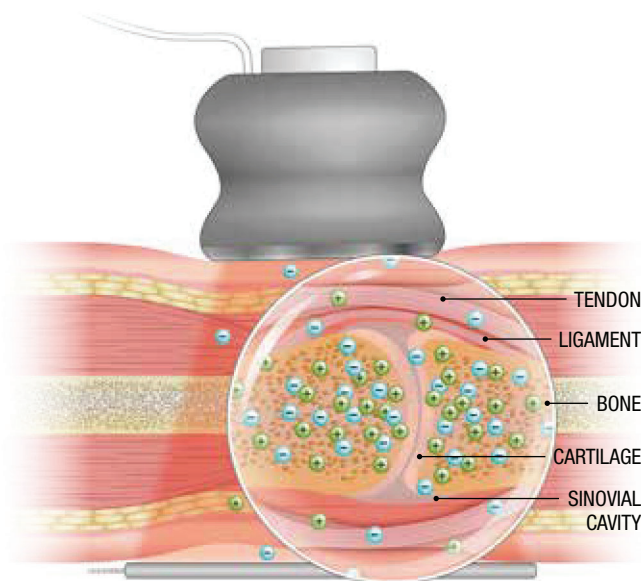
- Ion movement is unrestricted by uninsulated handpiece
- Accumulation of healing energy between passive electrode and active handpiece
- Tissue temperature increases less intense
- More suited for deep treatments and inert tissues



Cervical spine pain and stiffness

## Joint treatments in young and old

The **resistive mode**, uninsulated handpieces are used and direct coupling takes place. The repeated reversal of the current's polarity produces a quicker and more intense temperature increase in tissues that are deprived of water and electrolytes. The resistive energy transfer mode is therefore particularly suited for treatments in bone and adipose tissues. Because the active electrode is not insulated, the accumulation of energy and the ensuing temperature-related effects are less concentrated under the active handpieces. Rather, the effects of the resistive mode depend more on the location of the passive electrode or plate. In other words, the therapeutic effect will be located between the active handpiece and passive electrode, there where tissue impedance has changed because of cell damage. When making resistive energy transfer mode treatments the active handpiece can remain in a fixed position, while the patient performs active or passive movements. After all, movement stimulates tissue healing. While the active handpiece is held in place and movement is initiated, treatment intensity is continuously adjusted on the TCare so that the patient feels a pleasant sensation in the affected area. In this way resistive mode treatments are ideal for the treatment of various joint disorders and injuries, in both young and old.



Arthrosis of the knee

## Fields of application



## GREAT RESULTS IN MORE THAN 340 CONDITIONS

Because of its multiple physiological effects, TCare can be successfully implemented in the treatment of over 340 types of injuries and disorders that can be found in the WHO International Classification of Diseases and Health Related Problems (ICD-10).

In acute injuries TCare will relieve pain immediately through its pain modulating capacity and ability to reduce oedema. In the subacute phase TCare will stimulate cellular regeneration. While in the late phase of rehabilitation TCare can be used to reduce soft tissue tensions and joint stiffness to allow for healthy movement and therapeutic exercise.





## Tcare can be used in

### JOINT DISORDERS AND INJURY

Contractures

Articular cartilage injury and disorders

Arthrosis

Hallux valgus and hallux rigidus

Patellar disorders  
(e.g. PFPS, derangements, chondromalacia,...)

Non-specific joint pain and aches

Stiffness

Dislocations and subluxations

Ligament sprains, strains and ruptures

Capsular disorders and injury

### SOFT TISSUE DISORDERS AND INJURY

Muscle and tendon injuries

Synovitis and tenosynovitis

Bursitis

Fibromatosis

Shoulder lesions  
(e.g. rotator cuff, labrum tear, acute subacromial bursitis,...)

Enthesopathies

Contusions

### SPINE DISORDERS AND INJURY

Kyphosis, lordosis and scoliosis

Osteochondrosis

Spodylopathies

Disc disorders

Radiculopathy

Cervicobrachialgia

Sciatica

Lumbago

Non-specific low back pain

### BONE DISORDERS AND INJURY

Fractures

Stress fractures

Osteoporosis

## Contra-indications

### ABSOLUTE

Pregnancy

Pacemakers

Neoplasms

### RELATIVE

Open wounds and skin lesions

Skin sensitivity disorders

Cardiovascular disease

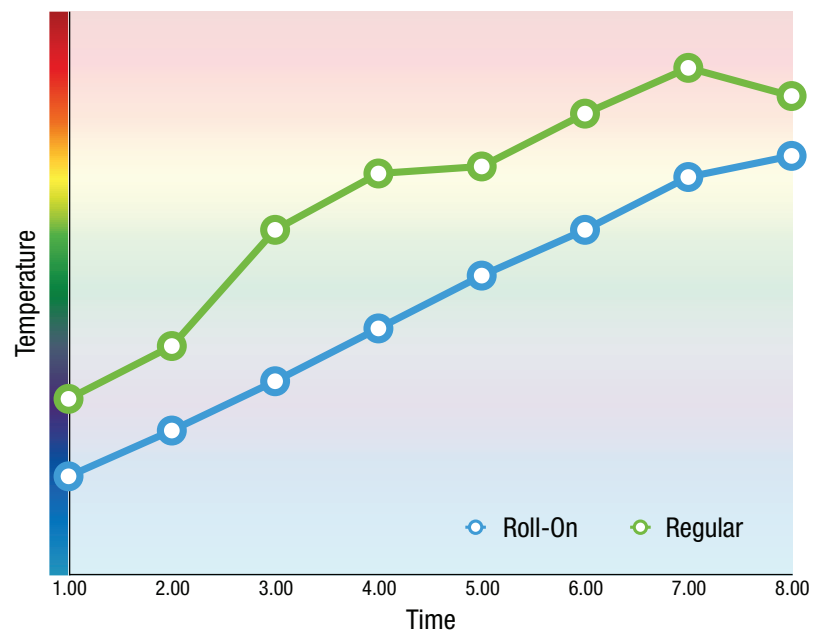




### The patented roll-on handpiece

Our Roll-On handpiece is a unique, proprietary, patented handpiece. It was designed by clinical experts to guarantee the best possible geometric, capacitive-resistive energy transfer between the handpiece to the patient's body. The distinct shape of the handpieces ensures complete, congruent contact with the patient's skin. The Roll-On inserts ensure that the right amount of contact cream is consistently applied to make sure that treatments are as smooth and effective as possible. A consistent and exact layer of contact cream protects the patient from dielectric arcs that can cause injury, by guaranteeing a well-controlled electro-chemical gradient. Because the Roll-On handpieces do not require contact cream to be intermittently applied to the skin, which influences skin temperature, increases in temperature are more consistent and linear. This adds to the predictability and safety of CRET treatments. The Roll-On handpiece also significantly reduce the use and waste of contact cream, which in turn reduce operating costs.

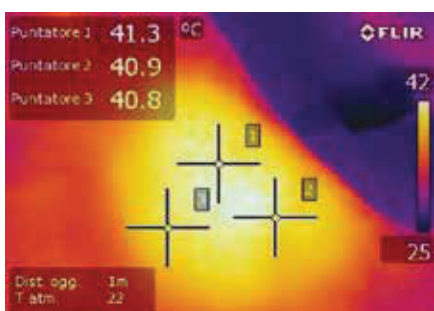
Comparison roll-on and regular handpieces in capacitive mode.



Roll-On handpiece



Regular handpiece



### Safe, ergonomic, efficient

The Roll-On handpieces are designed to minimise any capacitive-resistive energy transfer to the therapist's hands. This means that all CRET energy can be focussed onto the patient without unnecessarily heating the therapist's hands and wasting useful energy. Because of the unique grip design the therapist's hands and fingers are always kept at an adequately safe distance from the generated electromagnetic fields. Furthermore, the handpiece grips are manufactured from a specially-selected insulating material which further contributes to the safety and health therapists who work daily with our TCare.

The unique Roll-On grip design feature ensures an ergonomically correct and advantageous hand position for the therapist on the handpiece. In combination with the specifically designed contact surfaces, the Roll-On handpieces glide effortlessly and extremely smoothly over the patient's skin, while continuously maintaining a maximum of contact. Our Roll-On handpieces safeguard therapists from contracting repetitive stress injuries from working in unergonomic conditions.

Because intermittent application of contact cream is not necessary with the Roll-On handpieces, the skin temperature in the treated area can be kept homogenous and constant. This is particularly important for effective and efficient transdermal drug delivery for which our Roll-On handpieces are particularly suited.

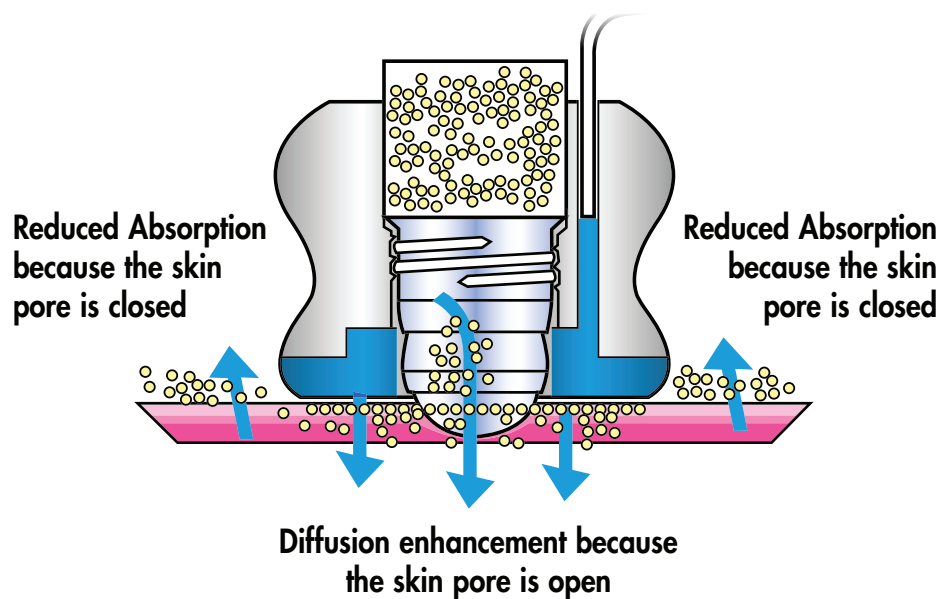
## Third treatment dimension

Capacitive and resistive energy transfer can be used to enhance the diffusion of active, pharmacological agents that are prescribed by a physician for a particular pathology. Next to the non-thermal and thermal effects, transdermal drug delivery offers an extra, third dimension of treatment opportunities.

At higher temperatures skin pores under the handpiece will open. When the skin pores open diffusion is enhanced which can be used for transdermal delivery of active, pharmacological agents. The vasodilatation created by capacitive and resistive energy transfer in the upper skin layers and then underlying tissues ensures wider and deeper distribution of active agents to assist in treating specific pathologies. Transdermal drug delivery with TCare thus guarantees ideal conditions for active agents to

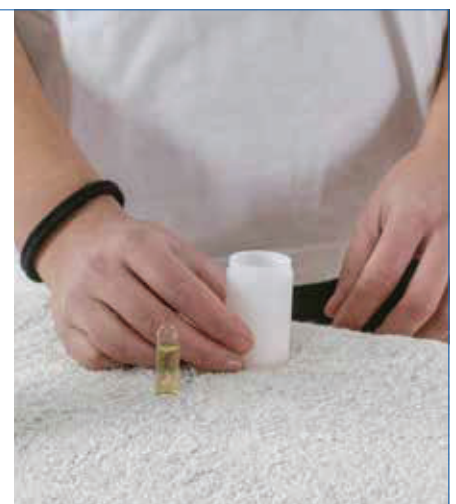
penetrate in the exact intended pathological area. All this helps reduce the amount of administered pharmaceuticals needed to gain local therapeutic effects and can be a good alternative to gastrointestinal administration of pharmaceuticals.

TCare transdermal drug delivery with the Roll-On handpieces is totally pain-free and a very simple process. The pharmacological agent that was prescribed by a physician is simply added in the right proportions to the Roll-On container and mixed with the contact cream. The quantities of cream and active agent needed are proportional to the to-be-treated body area. The Roll-On container is then simply inserted into one of the Roll-On handpieces, and TCare CRET will do the rest.



### Categories of active, pharmacological agents that are used with TCare Roll-On

1. Muscle relaxants, e.g. thiocolchicoside (Muscoril, Myoril, Neoflax)
2. Anti-oedematous agents, e.g. diosmin (Nedema)
3. Non-steroid anti-inflammatory agents, e.g. acetylsalicylic (Aspirin), ibuprofen (Brufen), naproxen (Naprosyn), ketoprofen (Oki), diclofenac (Voltfast), nimesulid (Aulin), piroxicam (Feldene)
4. Anti-hematoma agents, e.g. heparin (Lasonil)
5. Steroid agents, e.g. cortisone
6. Natural herbal creams
7. Skin regenerating creams





**STEP 1**

The therapist pours the active agent into the Roll-On container to then mix with contact cream. The size of the treated area determines the amount of agent that is mixed with the contact cream. Using the Roll-On handpieces with their containers avoid wasting pharmaceuticals and ensures balanced and consistent distribution of the treated area.



**STEP 2**

Conductive cream is added to the active agent in the Roll-On container. Vigorously shaking the container mixes cream and active agent. Roll-On containers can be individualised for each patient so that the right agents are always administered and hygiene is kept at a maximum.



**STEP 3**

The therapists twists the Roll-On reservoir into the Roll-On handpiece until the roller ball protrudes slightly from the other end of the handpiece.



**Roll-On treatment setting**

The therapist can adjust the position of the Roll-On container and roller ball in the Roll-On handpiece to exactly adapt to the specific topography of certain anatomical areas. By simply twisting the Roll-On container in or out of the handpiece the handpiece surface is adapted to be flatter to treat large flat areas. Or the roller ball can be put into a more protruding position to transfer more cream and optionally more active pharmacological agent to the treat area.

## TCARE EL12002

The TCare, model EL12002, is the newest CRET device in Chinesport's electromedical devices range of products. Unlike many other diathermy-oriented devices, the TCare features no less than 4 different therapeutic modalities that can be applied during the same therapy session. With capacitive energy transfer we can treat soft tissue injuries and disorders and perform more superficial treatments which can even include physio-aesthetic treatments. Bony tissues, inert structures and adipose tissues are treated using resistive energy transfer, which also reaches deeper into the body than its capacitive counterpart. The Roll-On handpieces with their unique design to optimise transdermal drug delivery, add another dimension to both the capacitive and resistive energy transfer modes.

Our TCare is incorporated into an exclusively designed table-top surface that is made of easy-to-clean material and that provides ample space to store all the TCare accessories. This keeps all essential equipment within easy reach and ensures you can change all treatment parameters at just a push of a button any time during the TCare treatment.



### TECHNICAL OVERVIEW

Working frequencies	Low	0,8MHz
	Mid	1 MHz
	High	1,2MHz
Passive plate		1
Passive plate area		approx. 220 cm <sup>2</sup>
Active electrodes and handpieces		12
Capacitive Roll-On handpieces		∅ 40 mm - ∅ 56 mm - ∅ 80 mm
Capacitive conventional handpiece		1
Capacitive conventional electrodes		∅ 33 mm - ∅ 53 mm - ∅ 65 mm
Resistive Roll-On handpieces		∅ 40 mm - ∅ 56 mm - ∅ 80 mm
Resistive conventional handpiece		1
Resistive conventional electrodes		∅ 33 mm - ∅ 53 mm - ∅ 65 mm
Output power		approx. 150 W
Input voltage		115÷230VAC ± 10% 50/60Hz
Active medical devices		CLASS II B
Weight		37 kg
Dimensions		61,8 x 70 x 110 cm

### Standard accessories

EL0147	MINI CAPACITIVE ROLL-ON 40 mm	1
EL0163	MINI RESISTIVE ROLL-ON 40 mm	1
EL0113	CAPACITIVE ROLL-ON 80 mm	1
EL0129	RESISTIVE ROLL-ON 80 mm	1
EL0122	PASSIVE PLATE	1
EL0164	MEDIUM CAPACITIVE ROLL-ON 56 mm	1
EL0165	MEDIUM RESISTIVE ROLL-ON 56 mm	1
AC0665	ELASTIC BAND cm 60	1
AC0667	ELASTIC BAND cm 100	1
EL0148	DISPENSER WITH CAP	1
EL0128	BALL CAP	1
EL0149	MINI DISPENSER	1
EL0125	CONTACT CREAM 1 KG	1
EL0124	ROLL-ON CONDUCTIVE CREAM 500 ML	1

### Optional accessories

EL0114	CAPACITIVE HANDPIECE
EL0116	6.5 CM CAPACITIVE ELECTRODE
EL0117	5.3 CM CAPACITIVE ELECTRODE
EL0118	3.3 CM CAPACITIVE ELECTRODE
EL0115	RESISTIVE HANDPIECE
EL0119	6.5 CM RESISTIVE ELECTRODE
EL0120	5.3 CM RESISTIVE ELECTRODE
EL0121	3.3 CM RESISTIVE ELECTRODE
EL0176	ROLL-ON CREAM SET 6 PCS

## Moreover the device features

- Our dedicated, team of expert engineers have reduced electromagnetic leakage into the operating environment to less than 50%. This ensures unprecedented health and safety standards for both the therapist, who works with the device on a daily basis, and the patient.
- The unique design of the Roll-On handpieces virtually eliminates the risk of dielectric arcing when moving the handpiece on and off the patient during treatments.
- During treatments energy transfer is continuously monitored and fed back to the therapist through the energy transfer LED indicators on the TCare display. Since energy transfer properties continuously change throughout the treatment due to the inherent treatment effect, instant feedback is essential for the therapist in order to adjust treatment settings to achieve the most optimal results.
- Treatment frequencies can be changed instantly during treatments at a simply push of a button. This is an essential feature to ensure optimal transdermal delivery of active pharmacological active agents.
- The possibility to combine resistive and capacitive energy transfer with transdermal drug delivery because of the unique Roll-On design, allows therapists to treat a wider range of conditions in a more effective, efficient and holistic way. This is particularly useful in acute injury stages with are characterised with more extensive and intense pain sensations, low tolerance to skin contact, manipulation and other conventional therapeutic modalities.



TCare presentation video

## Capacitive roll-on handpieces



### LARGE 80 MM, CAPACITIVE ROLL-ON

EL0113

The large, capacitive Roll-On handpiece is the ideal tool for treating larger areas. Because of the handpiece size temperature increases will be less intense than with the smaller handpieces. The large Roll-On handpiece is also the preferred tool for aesthetic treatments such as skin tightening and body sculpting.



#### *Low back pain treatments*

In low back pain treatments, TCare therapy starts with capacitive mode. Particularly in chronic low back pain our aim is to reach vascularisation and even hyperactivation conditions. The increase in tissue temperature will noticeably increase tissue elasticity and release a tight lumbar fascia. Muscle spasm in a tight quadratus lumborum muscle will resolve in a matter of minutes, allowing us to proceed with gentle stretching, combined with resistive mode.



### MEDIUM, 56 MM, CAPACITIVE ROLL-ON

EL0164

The medium, capacitive Roll-On can be considered the master tool within the capacitive handpieces range. It fits the majority of the body contours and topographical anatomy. Because of its size it also offers the most efficacy versus efficiency ratio within the range.



#### *Neck ache treatments*

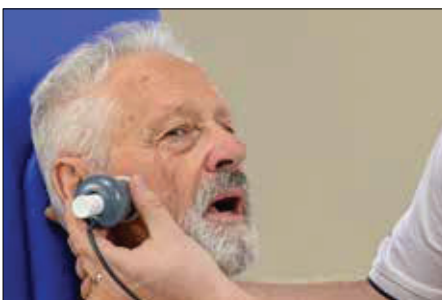
The medium, capacitive Roll-On perfectly fits the contours and topography of the upper trapezius muscle. In neck ache treatments and soft tissue work we always first apply capacitive mode because the trapezius is the most superficial muscle and there is usually not so much subcutaneous fat in that area. The medium handpiece size fits so naturally into the therapist's hands during manual soft tissue treatments that patients will hardly notice any device is being used at all.



### MINI, 40 MM, CAPACITIVE ROLL-ON

EL0147

Bony areas and anatomical areas with complex topography can be hard to navigate with the Roll-On master handpiece. This is when the mini Roll-On handpiece is particularly handy. Because of its smaller size energy transfer is more concentrated and therefore effects are more intense.



#### *Jaw pain and TMD*

Jaw pain due to overly tight masticatory muscles can be very incapacitating for patients. It can cause a whole range of associated problems such as headache, visual and auditory issues, and more. The mini capacitive handpiece is perfect for treating these small areas. We use capacitive more to increase tissue temperature and release the masseter muscle.



## Resistive roll-on handpieces



### LARGE 80 MM, RESISTIVE ROLL-ON

EL0129

The large resistive Roll-On is perfectly suited for treatments of larger anatomical areas, such as hip joints and the lower back. It is also a great tool to use when performing TCare treatments with therapeutic exercises. Its ergonomic design assists the therapist in keeping close contact with the patient.



#### *Achillodynia and heel pain treatments*

Resistive energy transfer largely targets inert tissues which makes it the perfect mode for the treatment of achilles tendon issues and various sources of heel pain. Movement increases tissue resistance to energy transfer so that it gets concentrated exactly there where it is needed. The large resistive Roll-On is placed on the plantar side of the foot as it is passively, active-passively or actively moved from plantar to dorsiflexion.



### MEDIUM, 56 MM, RESISTIVE ROLL-ON

EL0165

This is definitely the master tool within the resistive Roll-On handpieces range. Its size is suited for anatomical areas such as the spine, knee and shoulder. It fits snugly into patients' hands so that it can be used in combination with manual therapy treatments.



#### *Shoulder injury treatments*

Mobilisations are an essential part of shoulder injury treatments. With the patient holding the medium resistive Roll-On in their hand, the therapist has the hands free to perform passive to active shoulder mobilisations. Through this resistive energy transfer is focussed on the affected area, because that is where tissue impedance has changed. By increasing tissue temperature, greater tissue elasticity is reached which in turn helps increasing range of motion through mobilisation.



### MINI, 40 MM, RESISTIVE ROLL-ON

EL0163

The smallest resistive Roll-On handpiece is used mainly in topographical complex areas where bony aspect make it hard to navigate larger handpieces and still remain in complete contact with the skin.



#### *Tennis and golfer's elbow treatments*

The mini resistive Roll-On handpieces glide perfectly around and over bony structures such as ridges, epicondyles and malleoli. They are used to navigate difficult areas such as hands, toes and fingers, ankles, the TMJ and other smaller joints structures. In the treatment of lateral and medial epicondylitis these smallest resistive handpieces are used to exactly target the injured structures.

## Roll-On contact cream

The Roll-On contact cream was developed in close cooperation with Chinesport experts to ensure optimal distribution of a conductive layer during treatments with the Roll-On handpieces. This assures a minimum of wasting while gliding of the handpieces and energy transfer remains optimal. The Roll-On contact cream is essential to ensure optimally effective and efficient transdermal drug delivery during TCare treatments. This cream has high conductive characteristics and has been shown to optimise performance of capacitive and resistive energy transfer.



### DUO PACK, ROLL-ON CONTACT CREAM

EL0124

A set of 2 units of Roll-On contact cream.

### SIX-PACK, ROLL-ON CONTACT CREAM

EL0176

A set of 6 units of Roll-On contact cream.

## Universal contact cream

The universal Tcare contact cream is much denser with the same conductive properties as the Roll-On contact cream. It was developed to ensure optimal contact between the passive plate and the patient, and can also be use with the conventional CRET handpieces that are also available with the TCare. Because of its density it cannot be used in the Roll-On containers.

### UNIVERSAL CONTACT CREAM, 1 KG TUB

EL0125

The TCare contact creams were developed in a close cooperation between Chinesport experts and leading producers of contact creams for electromedical devices. These creams were extensively tested to ensure optimal energy transfer properties under all possible therapeutic and working conditions.

It is therefore strongly recommended to only use TCare contact creams during TCare treatments. In the event other creams or coupling agents are used it is possible energy transfer and the therapeutic effect will not be optimal or that damage could occur to the TCare handpieces.



## PASSIVE PLATE

EL0122

The TCare 220 cm<sup>2</sup> passive plate is designed to optimally interact with the various sized handpieces so that optimal energy transfer and thus therapeutic results can be guaranteed. The plate is thin, relatively small and very pliable so that it can adapt to the shape of many anatomical regions. It is housed in a specially-designed rubber housing to ensure optimal comfort for the patient but also to allow the passive plate to be used in more vigorous therapeutic exercise.





### DISPENSER WITH BALL CAP

EL0148

The dispensers with ball cap fit only in the large resistive and capacitive Roll-On handpieces.

*Pack of 12 units.*



### BALL CAP FOR DISPENSER

EL0128

To ensure the highest standards of hygiene, we recommend disposing of the dispenser ball caps after each patient has concluded their series of TCare therapy.

*Pack of 100 units.*



### MINI DISPENSER

EL0149

The mini dispensers fit the medium and small Roll-On handpieces.

*Pack of 100 units, including 100 ball caps.*



### ELASTIC BAND CM 60

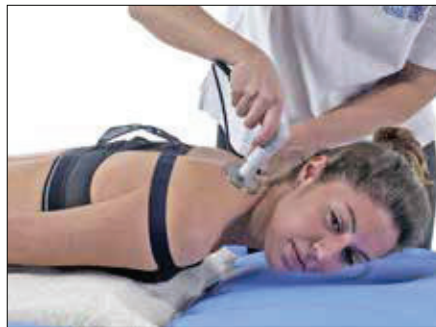
AC0665

### ELASTIC BAND CM 100

AC0667

We provide elastic bands with velcro ends which are used to fix handpieces in place. When using the resistive handpieces it is not absolutely necessary in certain conditions, to keep the handpiece moving. In these settings it can be useful to fix the handpiece to the patient hand have hands free to work with the patient.





### Conventional handpieces

A set of conventional handpieces that is compatible with the TCare remains available for those therapists who find the transition to the more ergonomic, Roll-On handpieces a challenge.



#### **CAPACITIVE HANDPIECE**

EL0114

#### **6.5 CM CAPACITIVE ELECTRODE**

EL0116

#### **5.3 CM CAPACITIVE ELECTRODE**

EL0117

#### **3.3 CM CAPACITIVE ELECTRODE**

EL0118



#### **RESISTIVE HANDPIECE**

EL0115

#### **6.5 CM RESISTIVE ELECTRODE**

EL0119

#### **5.3 CM RESISTIVE ELECTRODE**

EL0120

#### **3.3 CM RESISTIVE ELECTRODE**

EL0121



**TCARE™**  
Cellular regenerator

**Mi.To.**  
therapeutic table

**Archimedes**  
Pulley Therapy System

## GPS Therapeutic Pathways

Today rehabilitation and physical therapy practices are under tremendous time and space pressure to cope with the massive amount of patients that present with musculoskeletal disorders and injuries. Moreover, patient profiles vary greatly and patients are increasingly demanding; they want results now and do not want to spend much time in therapy. To stay competitive, clinicians are forced to choose the most efficient and effective means possible to treat patients.

GPS Therapeutic Pathways represents a unique opportunity to relieve the strain on modern, advanced practices. This latest treatment concept encompasses Chinesport's top-of-the-line therapeutic devices in a simple, one-stop, affordable package. Clinicians can now combine three different therapeutic modalities in a single intervention.

TCare capacitive and resistive energy transfer (CRET) is used to modulate pain and promote cellular regeneration. At the same time, Mi.TO/Sinthesi therapy provides the possibility to initiate myofascial release and soft tissue lengthening. Archimede pulley and suspension exercise therapy delivers precise mechanotransduction impulses through specific therapeutic exercises to initiate tissue repair processes. Integrative posture exercises close the therapeutic cycle by integrating newly restored posture into everyday movement patterns. A follow-up GPS Postural Labs assessment can confirm whether progress has been made. The ability to combine all GPS Therapeutic Pathways at once, saves valuable time, resources and energy for both patient and clinician.



## *The One-Stop Physical Therapy Solution*

### Creating Healthy Posture for Healthy Movement

- ▶ A novel, state-of-the-art, posture-centered approach.
- ▶ Effectively and efficiently treat musculoskeletal pain, injuries and disorders.
- ▶ Unites Chinesport's top-of-the-line therapeutic and diagnostic technologies.
- ▶ An affordable, easy-to-use and original package.
- ▶ Provides unique therapeutic and competitive advantages.

*Chinesport offers a series of GPS Therapeutic Pathways courses that was developed and is provided in cooperation with experts from the GPS Academy. The course content is based on many decades of combined practical and clinical knowledge and experience of our experts. They are all experienced international speakers and will be able to provide you optimal support in the GPS Therapeutic Pathways.*

## **Defining posture and the state-of-the-art in Global Posture Systems assessment and analysis**

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### **FOUNDATION COURSE, 2-DAYS**

- Learn how different subsystems and body components interact in human posture and increase injury risk and contribute to pain and disorders
- Introduction to fundamental concepts in Global Posture Systems analysis
- Basic measurements and parameters in Global Posture Systems analysis and assessment
- Understand mechanisms underlying common postural deviations and how they interact in therapy
- Create basic GPS Therapeutic Pathways treatment plans that respect postural interdependencies

## **GPS Therapeutic Pathways approach in treating and preventing lower limb injuries and disorders**

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### **EXPERT COURSE, 2 OR 3 DAYS**

- Learn how common posture issues affect lower limb injury and disorder risk
- Review lower limb posture measurements and latest research
- Gain insights into how lower limb segments affect each other and discover global posture interdependencies
- Understand the treatment of common lower limb injuries and disorders from a postural viewpoint; ACL injury, patellofemoral pain, MTSS, plantar fasciitis,...
- Integrate GPS Therapeutic Pathways into your lower limb treatment plans

## **Avoiding and treat shoulder, elbow and wrist injuries using GPS Therapeutic Pathways**

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### **EXPERT COURSE, 2 DAYS**

- Overview aetiology and prevalence of upper limb injuries with particular focus on overhead sports
- Learn how common upper limb injuries and disorders can be caused by poor posture
- Use GPS posture assessment tools to assess and analyse upper limb posture
- Shoulder impingement and scapular dyskinesia testing and treatment protocols
- Integrating GPS Therapeutic Pathways; myofascial release, activation and strengthening, integrative and proprioceptive training

## **Integrating GPS Therapeutic Pathways in spine and pelvic pain therapy**

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### **EXPERT COURSE, 2 OR 3 DAYS**

- Discuss aetiology of common disorders from posture perspective
- Learn how GPS analysis can be used to develop a more encompassing therapeutic strategy
- Overview current global posture concepts in spine and pelvic disorders
- Apply GPS Therapeutic Pathways in treatments
- Learn pelvic and spinal pain prevention strategies through implementation of Global Posture Systems concepts

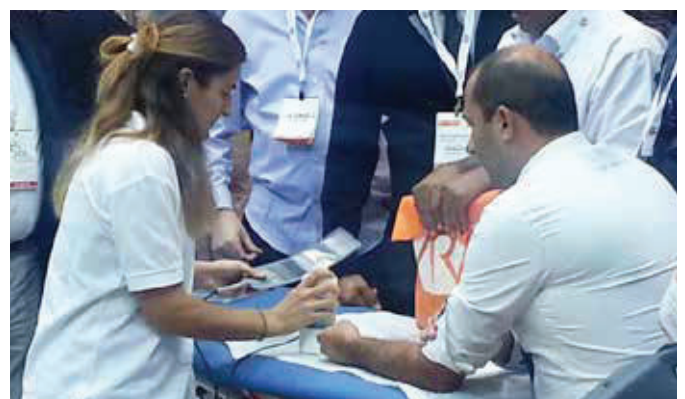


## Resistive-capacitive energy transmission and integrated transdermal transfer

Tecar Therapy currently represents one of the most requested and cost-effective rehabilitation therapies. Chinesport strongly recommends taking part in their multi-level training courses for operators that intend to use the TCARE Cellular Regenerator. These courses cover the application / clinical methods for correct use of the equipment and raise awareness as to usage limits. The courses are therefore open to various professional categories, such as doctors, highly specialised nurses, and other specialists, even though they always have to work under the control of a doctor, not so much due to the dangerousness of the equipment, as to achieving adequate efficacy when providing treatment.

### Course learning topics

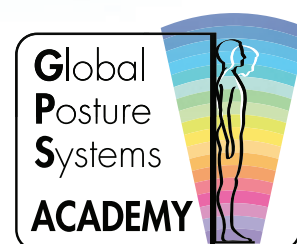
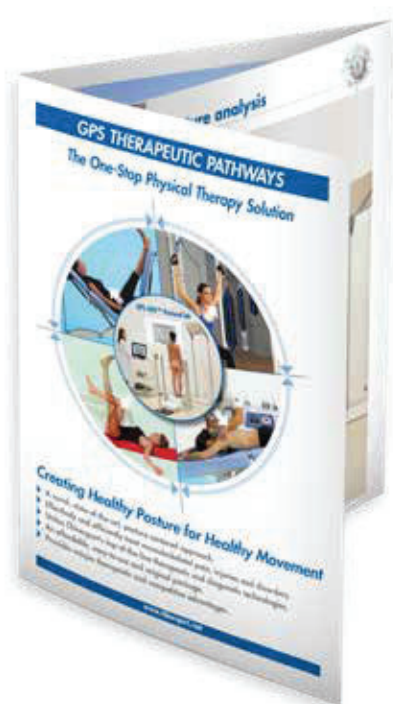
- **TCARE™: TWO MECHANISMS IN ONE DEVICE**  
Energy transfer & Transdermal Delivery the best combination for your patient's health.
- **TRANSFER OF ENERGY**  
Transfer of energy related to the condenser effect applied to the Human body.
- **DELIVERY OF ACTIVE AGENTS**  
Drug delivery through skin which is the best task-related barrier.
- **TCARE™ ACTION IN TISSUES**  
What happens when energy is applied to the body?  
Macro and microscopical points of view.
- **“ROLL-ON” HAND PIECE**  
Features and advantages, why choose TCARE™?
- **EXAMPLES OF TREATMENT SETTINGS**  
e.g. muscle lesions, joint sprains, lymphatic oedema, rheumatic problems; involving different areas such as upper limbs, trunk, lower limbs, bigger and little joints





## GPS Academy

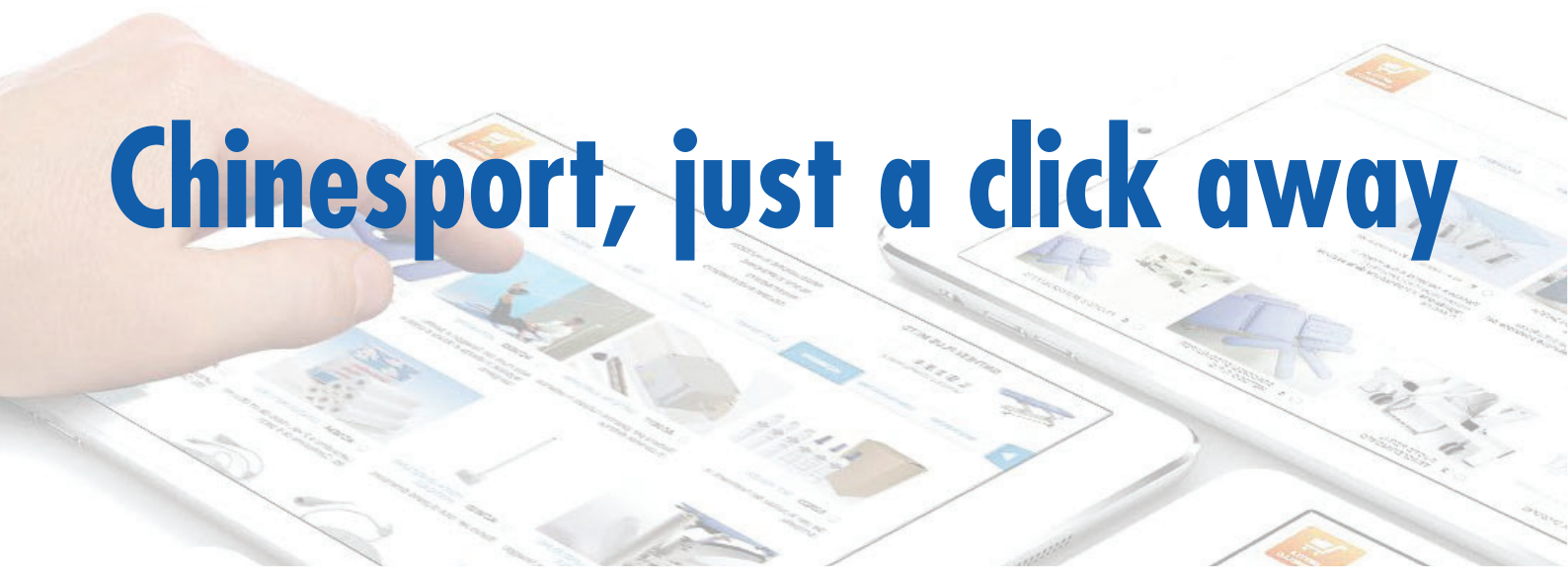
Together with clinical experts from all over the world, we have created a social and professional platform to promote education, research and innovation in healthy posture for healthy movement. The GPS Academy platform enables us to bring together experts and professionals from various fields; medicine, rehabilitation, dentistry, sports performance, engineering, alternative medicine and business. Using this platform we stimulate sharing experiences, know how and ideas in the wide field of human posture, rehabilitation and patient mobility. The GPS Academy has now become an international network through which we endeavour to educate by means of workshops, seminars, conferences, in-company customized training and consultancy, and online media. Our aim is to create a virtual meeting point and resource centre for those interested in conducting research connected to human posture, prevention and treatment of posture-related disorders and injury. Together we bring innovation to our respective professional fields to help combat the ever-increasing number of musculoskeletal disorders from different perspectives. Our core message is promoting »healthy posture for healthy movement« to the global community.



Discover more about the GPS Academy at:  
[www.chinesport.com/academy](http://www.chinesport.com/academy)

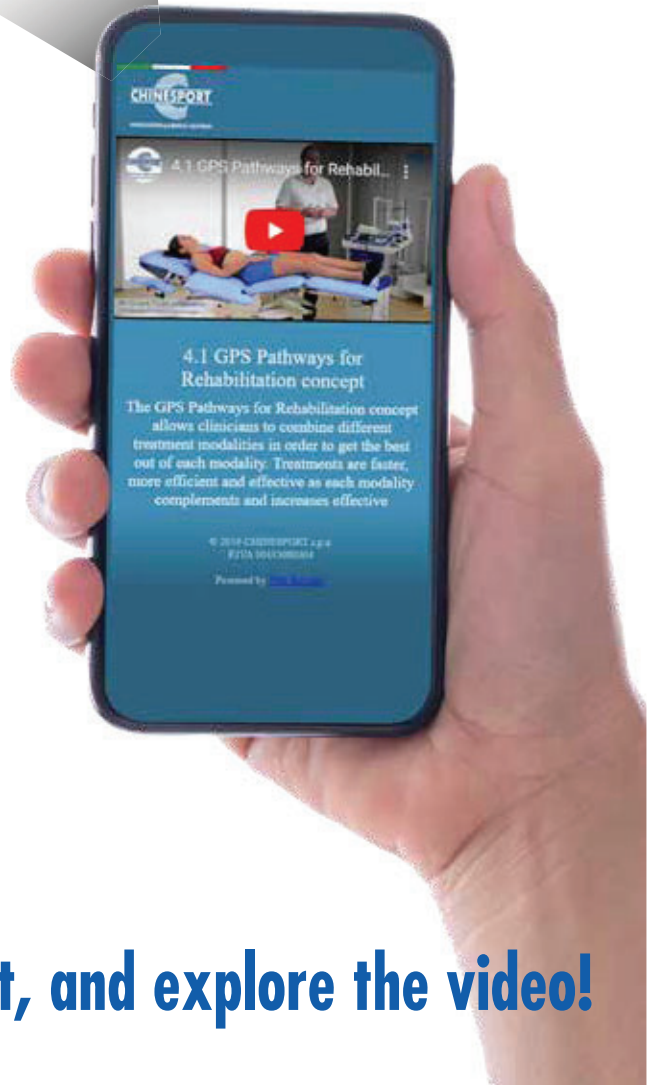


**Chinesport, just a click away**





Chinesport's website has also been designed and set up for those using mobile phones or iPads, not necessarily because they are out-and-about or travelling, but because they wish to know more about it while using our catalogue or other documentation. We are constantly involved in publishing new detailed information, photos (now even bigger), videos and multimedia files that are worth sharing.



The GPS Pathways for Rehabilitation concept allows clinicians to combine different treatment modalities in order to get the best out of each modality. Treatments are faster, more efficient and effective as each modality complements and increases effectiveness of the other. Stef Harley of Synovia Fizioterapija shows you how he combines TCare CRET and Mi.TO postural myofascial release to treat a wide range of disorder.

**Point, and explore the video!**



Chinesport is based in Udine, Italy, between the Alps and Venice. For over 40 years we have been dedicated to healthy posture for healthy movement. The root of our company name refers to the Italian word “chinesiterapia”, or movement therapy. We strongly believe and adhere to “movement culture” as a way to prevent and cure injury and disease.

Today we are a global leader in developing and manufacturing rehabilitation equipment and assistive devices. We have excellent and long-standing business relationships in almost 80 countries worldwide. The Chinesport general product catalogue contains over 1.000 innovative, high-quality products. New catalogue editions that include the latest product innovations and trends are regularly published. Our own medical-scientific training and educational program is continuously expanding and caters for all specialised rehabilitation fields. As an organisation, we have been working with a certified quality management system and in compliance with international ISO 9001 and ISO 13485 standards since 1998.

