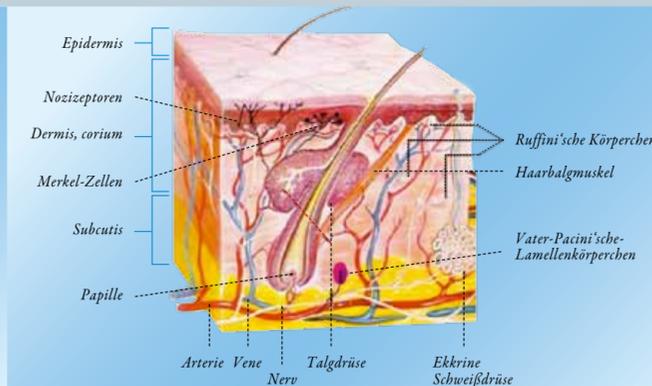
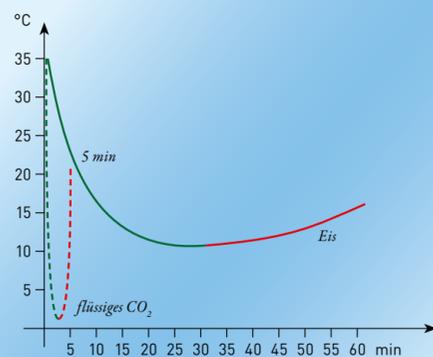


# Revolutionary technology – yet simple to use



*Cryostimulation with CO<sub>2</sub> works faster and more effectively than ice packs. Analgesic effect - immediate pain relief, through the inhibition of pain receptors by thermal shock. Anti-inflammatory effect – suppresses enzyme production.*

*Vasomotor effect – rapid vasoconstriction combined with pressure has a draining effect on the treated body tissue. The reactive vasodilation peak is reached within a few minutes, reducing histamine, lactate and fibrin concentrations. Myo-relaxant effect - the cumulative effect of the thermal shock and gas pressure relaxes the muscle fibres*

*The vasomotor effect creates an intense drainage of the blood and lymphatic system.*

*The pain receptors are inhibited within 30 seconds. This alleviates pain immediately (e.g. spraining).*

*Eliminates tense muscles and limited mobility (e.g. lumbago, tense muscles in the neck and shoulders).*

## Neuroreflex stimulation – using the body's own resources to combat pain.

## Fast Results through the thermal shock.



Cryostimulation, as a method of stimulating the body's own neuroreflexive responses to combat pain, is a natural, drug-free and safe treatment. It is rapidly becoming the treatment of choice, of both therapists and patients, in the daily battle against pain – whether acute or chronic. Today, chronic pain is defined as pain that persists or recurs longer than the temporal course of healing associated with a particular type of injury or disease, and is itself seen as a disease that requires treatment. As it cannot be cured with medication, the clinical goal in the treatment of chronic pain is a qualified pain management. In a recent study of the WHO, 30% of the interviewees claimed that they had suffered chronic pain, in the above sense, for a total of at least 6 out of the last 12 months. Scientific studies have found that the pain signals that arise secondary to soft tissue damage, infection and/or inflammation (for example: myositis – inflammation of the muscles) can, over time, also induce pathological changes in parts of the central nervous system, aggravated by the signals from the pain receptors (nociceptors) of the affected area.

The process affects the subjective experience of pain in humans and animals, ultimately resulting in pain chronification. (Mense, Heidelberg University)

### THE THERMAL SHOCK TO COMBAT PAIN

CRYOFOS combines the effects of cold and pressure, with an intense cold therapy using hyperbaric CO<sub>2</sub> gas. From its pressurized, liquid form in the cylinder, the gas streams out when the valve is opened to emerge from the nozzle of the treatment gun as a fine spray, which hits the skin at a temperature of -78° C and a pressure of 50 bars, lowering the skin temperature to between 4° C and 2° C within just 30 seconds. This abrupt temperature change is called a thermal shock, and it generates a neuroreflexive response in the body, which ultimately results in an increase in blood flow in the treated area, whilst reducing the concentrations of pro-inflammatory mediators (for example: prostaglandins and histamine). In addition, the thermal shock combined with the pressure of the gas has an effect that is similar to a manual lymphatic drainage.



### BROAD RANGE OF PHYSIOLOGICAL EFFECTS

- Analgesic effect through the inhibition of nociceptors.
- Anti-inflammatory effect through immediate suppression of enzymes
- Vasomotor effect through deep vasodilation within 20-30 seconds
- Neurological effect through muscle relaxation as a result of myostatic reflex in the medulla

In the acute phase, such suppression is aimed at alleviating acute pain and preventing unwanted changes in the brain and medulla. In the chronic phase, morphological reorganisation processes are stimulated; this restores normality and results in absence of pain.

Indications are: Acute sports injuries, bruising, haematomas, strained or torn muscles and rheumatism. In addition, epicondylitis radialis and ulnaris, heel spur, arthrosis of the knee, upper ankle joint and vertebral joint as well as lumbar sciatica, chronic back pain, Sudeck's syndrome stage I and II, post-surgery treatments and many more.

For the patient, treatment options with thermal shock mean the following:

- positive impact on haematomas, oedemas, inflammations, myogelosis and limitations in mobility,
- causal pain therapy (not a treatment of symptoms),
- natural treatment without known side effects,
- immediate pain relief without the need of long-term treatments,
- approved and low-cost therapy.

Contra indicators of CO<sub>2</sub> Treatment:

- Cryoglobulinemia
- Cold Allergie (Urticaria)
- Raynaud's Disease
- Diabetic Gangrene
- no treatments on mucous membranes such as mouth, nose, eyes, anal, vaginal as well as open wounds



*The particular combination of cold and pressure used for the neuroreflex stimulation therapy with CRYOFOS has been shown to have a pronounced, beneficial influence on the course of healing of the treated ailments, with an almost immediate relief from pain.*



*The non-invasive, natural and safe treatment with CRYOFOS is suitable for young and old, whether treating sports injuries or addressing chronic mobility issues.*



*A wide door in the trolley case provides easy access to the CO2 cylinder.*

*The compact dimensions of the CRYOFOS trolley make it easy to manoeuvre and store even in the smallest of consulting and therapy rooms.*

# A new dimension of pain therapy

CRYOFOS means invaluable benefits and assistance for therapists, too.

Excellent manoeuvrability and compact, space-saving design – ideal for office requirements.

A therapists' primary aim is to provide patients with a fast and trouble-free relief from their distress. The CRYOFOS neuroreflex stimulation device, with its proven and tested combination of cold and pressure, gives you excellent results in the treatment of indicated ailments, resulting in satisfied patients and a boost to your reputation.

The average treatment session per patient lasts a mere 1-2 minutes, which can be easily accommodated in your consultation schedule, even at short notice.

Added to the therapeutic benefits with CRYOFOS, the relatively low overhead costs to your practice and the extremely short treatment sessions add up to a substantial financial advantage over alternative, comparable methods, from which both you and your patients benefit.

The benefits for your patients are:

- Excellent therapeutic results
- No side effects
- Low cost of therapy

For you, as a therapist, this means:

- High patient satisfaction score
- Fast investment return
- Low-cost rental or
- Low-cost purchase



*New on-screen menu with coloured display*

The physical dimensions and ergonomic design of office medical equipment is often the key to a swift, economic and safe work process.

CRYOFOS has been designed with the typical requirements of in-office work in mind. The operating elements are deliberately simple and the ergonomic design of all the components is nothing short of excellent.

The compact design allows you to move and use CRYOFOS in the narrowest spaces, and makes it easy to store out of the way when not in use.

The built-in infrared sensor, which measures the skin temperature of the area being treated, allows you to work precisely and efficiently – ideal for delicate work around fresh stitches or on a patient's face.

The quality and reliability is everything you expect from innovative technology "made in Germany". The device has been developed and designed with painstaking and thorough attention to even the smallest detail, in order to arrive at a robust and maintenance free end product.

CE Conformity acc. to EU-Standard (93/42 EWG)

#### CRYOFOS MEDICAL GMBH

Lammstraße 21 | D-76133 Karlsruhe  
 Phone +49 721 161769-51 | Fax +49 721 161769-53  
[www.cryofos.com](http://www.cryofos.com) | [info@cryofos.com](mailto:info@cryofos.com)

# CRYOFOS

