SUBZERO CLINICAL DATA

*The analgesic properties of Cryotherapy using hyperbaric CO2

Ice pack treatment is considered an aid while a Cryo treatment is considered a treatment

- Applying the ice pack for 40 mn would lower the temperature to 59 Fahrenheit (more than 20 mn would destroy cells)
- Applying the Cryo treatment for 30s would lower the temperature to 39 Fahrenheit + you would have the added benefits of thermal shock

*Evaluation of gaseous Cryotherapy in the Treatment of Tendinopathy

- Better than any standard treatment (mobilization + anti-inflammatory) in acute Tendinopathy
- In the treatment of Tendinopathy, 75% of results are **good** to **very good**

*Gaseous Cryotherapy in the treatment of traumatisms in a high-level athlete

- Early return to training with Cryotherapy
- 1mn30s of a Cryotherapy treatment can yield the same results as a three-hour ice pack treatment
- Cryotherapy provides a three-hour analgesic effect, anti-inflammatory effect, vasomotor effect, drainage effect, and neurological (muscle relaxant) effect.

*Hyperbaric gaseous cryotherapy effects on skin temperature and systemic vasoconstriction

- Hyperbaric gaseous Cryotherapy allows for a more rapid decrease of skin temperature.

-Hyperbaric gaseous Cryotherapy projection decreased the skin temperature of the cooled and contralateral hand, suggesting a systemic skin vasoconstriction response. On the other end of the spectrum, the vascular responses produced by the ice pack treatment cooling appeared limited and localized to that particular area.

*Study on the effect of gas Cryotherapy treatment on muscular contracting

- Decrease of pain
- Improvement of active amplitude
- Far superior and quicker effects for articular amplitude than the ice pack treatment
- Reduction of postoperative risk of hematoma than applying the ice pack treatment
- More than 80% of a **very good** result and more than 20% of a **good result**.

*The influence of Cryotherapy on pain and inflammation following arthroscopy of the shoulder

- Reduction of postoperative pain
- Significant decrease in temperature and inflammation after treatment

*Study on cryotherapy cooling treatment with gas after hand surgery

- Until now, results are quicker and more efficient than anything on the market for pain relief and mobility improvement
- Should be used in acute and chronic cases
- Not running the risk of modifying the axonal transport as with an ice pack
- Cryotherapy becomes an indispensable part of treatment
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***SIMULTANEOUS USE OF RADIAL SHOCK WAVE THERAPY AND HYPERBARIC GASEOUS CRYOTHERAPY FOR THE TREATMENT OF SPORTING INJURIES**

- Excellent results on most parts of the body
- If used on legs, shock wave therapy is less effective than the Cryo treatment
- If used with Cryotherapy, shock wave sessions can be decreased over time
- 70% of the cases are back in training in 3 weeks time

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