

PUBLISHED ARTICLES

SPORT MED * September 1996 * 'SPORTS AND MEDECINE' /

Dr H. Chick, Dr A.-L. Carayon, Dr J.-C. Rognon, Dr A. Cohpan (sports doctors).

Gaseous cryotherapy in the treatment of injuries to top athletes.

This study revealed the beneficial nature of gaseous hyperbaric cryotherapy, which enabled the rapid resumption of activity, thus avoiding the loss of cardio-respiratory capacity commonly associated with the post-injury period in top athletes.

Study conducted on 17 patients

Translation enclosed

KINESITHERAPIE SCIENTIFIQUE * 1998 * 'THE SCIENCE OF PHYSIOTHERAPY'

University hospitals of Strasbourg.

Professor Astrid Wilk, head of maxillo-facial surgery unit.

- *Study of the use of gaseous cryotherapy in maxillo-facial surgery for oedemata.*

The subject of this study is the impact of gaseous cryotherapy on patients with a zygomatic bone fracture combined with an orbital floor fracture. Such injuries usually provoke a major post-operative oedema. In all cases the post-operative oedema receded without adjuvants and the patient's condition was relieved.

Study conducted on 36 patients.

Translation enclosed

Journal Européen des Urgences* 2001 * 'European Journal of Emergency Treatment'

CHU* de la Cavale Blanche, Brest* research hospital

Doctor E.L'Her, intensive care unit and emergency department.

- *Initial study of cryotherapy-induced analgesia during an arterial puncture*

An arterial puncture to analyse blood gases is a frequent operation that, despite being painful, is more often than not carried out without prior pain relief. This preliminary study assessed the feasibility of emergency ward treatment, the tolerance and effectiveness of analgesia by gaseous cryotherapy, and the speed and ease of use in a hospital reception and emergency in-patient unit.

Study conducted on 40 patients.

Translation not available

SPORT MED * December 2001 * 'SPORTS AND MEDECINE'

Edouard Herriot research hospital, Lyon.

Dr E. Brunet-Guedj, Dr B. Brunet, Dr J. Girardier, Dr E. Renaud, Dr M. Daubard, Dr R. Manigand, Sports Medicine Unit.

- *The impact of gaseous cryotherapy in the treatment of tendinopathies.*

The use of gaseous cryotherapy for the treatment of acute tendinopathies yields more rapid and satisfactory results than traditional treatment methods and has no observable side effects. It has a rapid impact on pain, and in over 60% of cases patients are able to take up sport again immediately after the treatment without recurrence of the condition.

Study conducted on 21 patients.

Translation enclosed

KINESITHERAPIE Les Annales* January 2002 * 'Physiotherapy Annals'

Christian Cluzeau.

Physiotherapist and inventor of gaseous cryotherapy.

- *Practices in physiotherapy: aches and pains and hyperbaric cryotherapy.*

Cryonic's cryotherapy is based on the sublimation of carbon gas at -78°C. When applied in a high pressure jet it induces a thermal shock with an immediate pain-killing effect for the patient through its inhibition of nociceptive nerve fibre activity and a biochemical effect on enzymatic production in the inflammation. Gaseous hyperbaric cryotherapy offers immediate and in some cases permanent pain relief.

Translation not available

SMS Le Spécialiste de la Médecine du Sport* October/November/December 2002 * 'The Sports Medicine Specialist'

D. Mathelin

General practitioner, St Raphaël

- *Cryotherapy and sports medicine: 'Gaseous hyperbaric cryotherapy'*

Whether measured against Hippocratic practices or the latest technology, cryotherapy stands out as an extremely useful method for sports doctors. The positive effects of cold can now be felt by doctor and patient alike through the regular use of gaseous hyperbaric cryotherapy, which produces satisfying results and makes it possible to cut down on the prescription of drugs and their undesirable side effects.

Translation not available

KINESITHERAPIE SCIENTIFIQUE * December 2004 * 'THE SCIENCE OF PHYSIOTHERAPY'

University of Brussels

Doctor Romain Meeusen and Doctor Franck Handelberg

- *The influence of cryotherapy (Cryotron®) on pain and inflammation following a shoulder arthroscopy.*

This study measures the impact of post-operative cryotherapy on skin temperature, subacromial temperature and shoulder pain and inflammation.

Cryotherapy led to a marked reduction in post-operative pain. Furthermore, the impact of the Cryotron® method on the acute inflammatory reaction was extremely positive. Finally, it was observed that the increase in the level of CRP owing to inflammation was blocked by the Cryotron® treatment in patients with an acute inflammatory response.

Study conducted on 20 patients.

Translation enclosed

Revue Officielle Apodologie* December 2004 * 'Official Podiatry Review'

Christian Cluzeau.

Physiotherapist and inventor of gaseous cryotherapy.

- *Neurocryostimulation in podiatry.*

The growing interest in this method among members of the healthcare profession shows that it is perceived as an up and coming treatment technique. It consists of applying a cold, high pressure jet to the affected area, is rapid, efficient and painless for the patient and can potentially be used to treat a number of everyday conditions encountered at surgery level.

Translation not available