



PAIN MANAGEMENT  
Cryotherapy

CRYOPAD®  
Cold that feels good



Value Life

## What is CRYOPAD® ?

A unique design of the Skin-Device interface increasing Cryopad® efficiency



Multi-layer non-woven envelope containing polymer with integrated contact gel

Pre-cut junctions for a 3D anatomical adaptation to all body parts

Cold unit in the shape of a cushion assembled in paving

Cryopad® comes in the form of a dry, non-woven fabric compress made up of a juxtaposition of 4 cm square compartments.

## A long lasting therapeutic cold

Cryopad® compresses' cold deeply penetrates into subcutaneous tissues and provides up to **3 hours of treatment**.

Works according to a 3-stage process:

1. A quick thermal shock of 10 minutes +/-5min reduces the cutaneous temperature below +12°C.
  2. Cutaneous temperature maintained below +12°C during the next 1 to 1.5 hours.
  3. Temperature increase in cutaneous and subcutaneous tissues is slowed down for 1 to 1.5 hours.
- For complete safety**, the cutaneous temperature should not be lower than + 6° +/-1°C.  
During this phase, the cold penetrates into subcutaneous tissues.

### Cryopad®: a therapeutic cold<sup>[4]</sup>

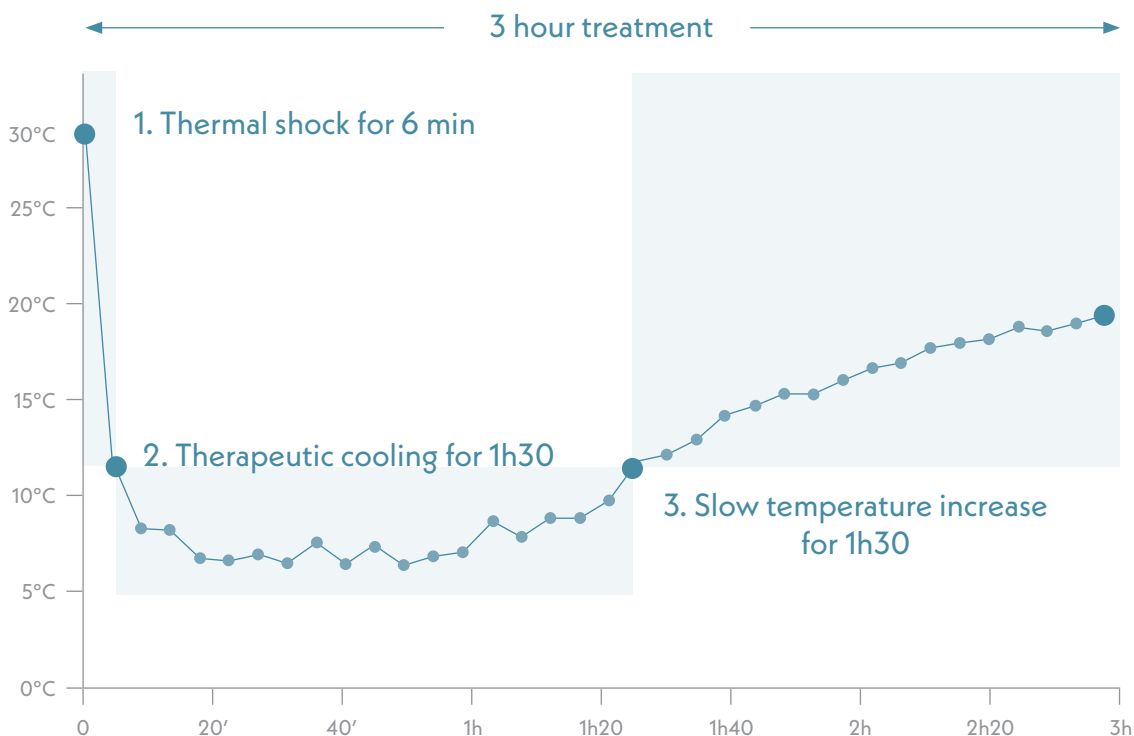


Figure 1 : Evolution of Cryopad's therapeutic cold. Temperature data measured on a Cryopad® (Arsine 57 at ambient temperature 21.7°C) on a an adult male, 82kg, left thigh.

## An optimal fit to all parts of the body

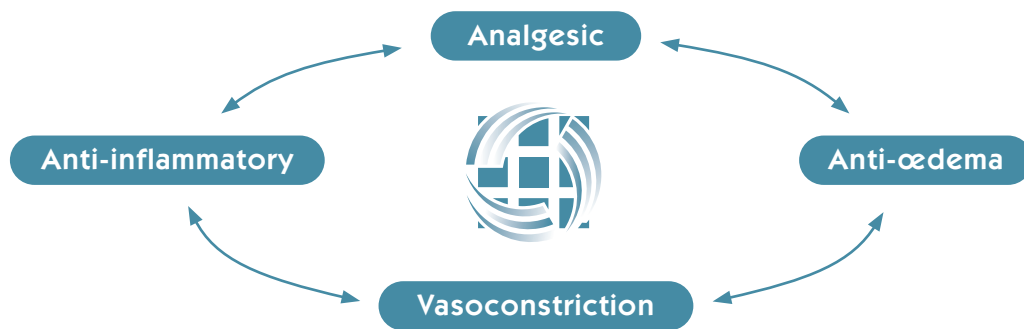
Cryopad's patented pre-cut system allows it to fit perfectly the size and shape of the area to be treated. Its pre-cut junctions give maximum flexibility to the compress and allow one or several elements to be detached from the unit to fit the patient's body shape as close as possible.

## Cryopad compresses indications<sup>[5]</sup>

• Non-invasive, localised treatment for acute pain, bruising and cutaneous haematoma, found in the following areas, amongst others:

- Surgery pre- and post-operative
  - Recent traumatology
  - Maxillo-facial
  - Odontology
  - Stomatology
  - Post partum
  - Milk coming in during lactation
  - Algodystrophy
  - Neuralgia
- Topical skin anaesthesia for superficial surgical procedures
- Part of treatment for mild cephalgia

## The 4 therapeutic effects of Cryopad compresses<sup>[1], [2], [3]</sup>



## Easy, safe and economical to use



### Easy

- Can be cut by hand
- Sits on the skin and fits all the body parts to be treated
- Ensures comfortable use for the patient



### Safe

- Protects from inherent risks of ice burns
- No specific monitoring required during treatment
- Decontaminated with gamma rays irradiations

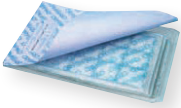
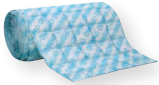


### Economical


- Up to 3 hours of therapeutic treatment
- Free drug therapy
- Reduces the use of analgesics

## References and characteristics

### • Hospital range

Code	Cryopad® Dimensions		Presentation	Number of Cryopad® / tray	Quantity / box (Minimum order quantity)	Mechanical Resistance	Photo
	Length (cm)	Width (cm)					
ARSINE 52	23	9.6	Tray	8 / tray	36 trays	Reinforced	
ARSINE 53	23	14.4	Tray	8 / tray	27 trays		
ARSINE 55	24	23	Tray	8 / tray	18 trays		
ARSINE 57	33.6	23	Tray	8 / tray	18 trays		
SILV 5600	288	23	Roll	-	2 rolls	Standard	
TRIO 5600	288	23	Roll	-	2 rolls		

### • Pharmacy range

Code	Cryopad® Dimensions		Number of Uses	Presentation	Number of Cryopad® / tray	Quantity / box (Minimum order quantity)	Mechanical Resistance	Photo
	Length (cm)	Width (cm)						
CHAVIERE 56	23	28.8	12	Tray	1 / tray	45 trays	Reinforced	
CHAVIERE 59	23	43.2	12	Tray	1 / tray	45 trays		
CHAVIERE 512	24	57.6	12	Tray	1 / tray	45 trays		



## Antartic medical

is a French laboratory which has developed cryotherapy compresses

Cryotherapy is a therapy widely recognized in the scientific community for the benefits and advantages that cooling can offer.

The earliest use of cooling in medicine was reported by Hippocrates (-460 -377 BC) who used snow and ice for their analgesic effects to ease pain. It was not until the 1970s that researchers noticed the scientific importance of the effects of cooling on the human body and later on animals.

Antartic Medical was started from the expertise acquired by its founder through daily contact with the

medical field and by noticing that existing devices offered little or no effectiveness and presented various disadvantages such as risks of burns, contamination, microbial transfers and most of the time did not fit the various shapes of the areas requiring treatment.

Antartic Medical spent 4 years on R&D to develop the CRYOPAD® cold compress: the first local external cryotherapy cold compress, with pre-cut junctions and containing contact gel.

## What is Cryotherapy ?

A therapeutic method using cooling in various forms (ice, frozen packs, liquid nitrogen, dry ice as well as cryotherapy gas) to reduce inflammation, to fight pain, bruising and certain muscular contractures or treat certain dermatosis (skin conditions)<sup>[1]</sup>.

These effects are obtained by the physiological effects of cooling: vasoconstriction (reduction in blood vessel size which leads to a reduction in blood flow), a reduction in the production of chemicals causing inflammation, halting the function of nerve endings responsible for pain, allowing muscle relaxation.<sup>[2,3]</sup>

## Bibliography

[1] Leventhal L.C., Bianchi R. C., Junqueira Vasconcellos de Oliveira S. M., Clinical trial comparing three types of cryotherapy in non-pregnant women, 2010, pp. 44(2):337-43.

[2] Trichard S., La cryothérapie en traumatologie d'urgence, plus qu'une alternative thérapeutique. Etude prospective, randomisée, ouverte réalisée au service d'urgences du CH de Montélimar Etude CRYOANTALGIE, Université Claude Bernard - Lyon 1, Faculté de Médecine et de Maieutique Lyon-Sud, 2013.

[3] Delassus L., La cryothérapie et les techniques d'utilisation du froid, 2004.

[4] Internal Documents, Temperature reading protocol

[5] Cryopad Instructions For Use, August 2018

Cryopad® is a class I medical device. Device manufactured by Antartic medical and distributed by Vygon.


## ANAESTHESIA & EMERGENCY

**For further information, please contact: [marketingbenelux@vygon.com](mailto:marketingbenelux@vygon.com)**

The specifications shown in this leaflet are for information only and are not, under any circumstances, of a contractual nature.

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