



***Safe and affordable  
treatment with  
cryotherapy in  
veterinary practice***



**CRYO IQ**  
The intelligent cryosolution



## **Cryosurgery in the veterinary practice**

Cryosurgery (Cryotherapy) is the local application of extreme cold for a controlled destruction or removal of abnormal or diseased tissue. In the past years innovations in the methods of application of the cryogen have made cryosurgery a preferred surgical treatment option for veterinarians to use on their patient animals. More portable, easy to use hand-held devices, such as the **CryoIQ**<sup>®</sup>, were developed to give the veterinarian the possibility to treat skin lesions with accuracy and efficacy, either in their office or in the field.

The freezing of the tissue by the direct application of the cryogen makes the procedure safe, efficient and fast. The freezing temperature will destroy cells in the target tissues, the accuracy will avoid destruction of adjacent healthy tissue and a powerful method of application will allow the veterinarian a rapid penetration of the targeted lesion.

The compact, portable **CryoIQ**<sup>®</sup> hand-held device uses Nitrous Oxide cartridges as a cryogen with a freezing temperature of -89°C/-127°F and once punctured the Nitrous Oxide is delivered with a 50 bar (725psi) pressure to the lesion which allows the veterinarian a fast and effective treatment.

The **CryoIQ**<sup>®</sup> gives the veterinarian the ability to control the width and depth of a skin lesion treatment using various types of applicators and for every 5 seconds of freeze the skin will be penetrated 1 mm in depth, to a maximum of 5 mm.

The **CryoIQ**<sup>®</sup> offers the feature of using 2 different freezing methods which enhances the treatment options for the veterinarian.

- *Liquid Freezing - provides mm precision freezing to the treatment site through micro capillaries.*
- *Contact Freezing - closed tip applicators are cooled off by the nitrogen before placing onto the lesion for a hassle-free contact freezing.*

Cryosurgery has been used by veterinarians in treatment procedures for, but not limited to:

- *Warts*
- *Eyelid tumors and masses*
- *Tail and tail- base tumors*
- *Tongue tumors*
- *Distichiasis*
- *Paw or pad mast cell tumors*
- *Skin tags*
- *Tumors in the mouth, ear*
- *Papillomas*
- *Angiomas*
- *Cysts*
- *Peri-anal carcinomas and anal gland tumors*
- *Epuli*
- *And more....*





Advantages of veterinary cryosurgery:

- Inexpensive procedure because anesthesia and sterile preparation not necessary (out-patient procedure)
- Fast and efficient treatment, less time needed for the veterinarian in a busy office
- No general anesthesia needed in the majority of the treatments
- Minimal to none pre-or post- operative care
- The tissue and surrounding blood vessels freeze which causes its own numbing, making it practically painless and bloodless.
- Lower risks of complication, less pain and quicker healing.

**Product line CryoIQ**

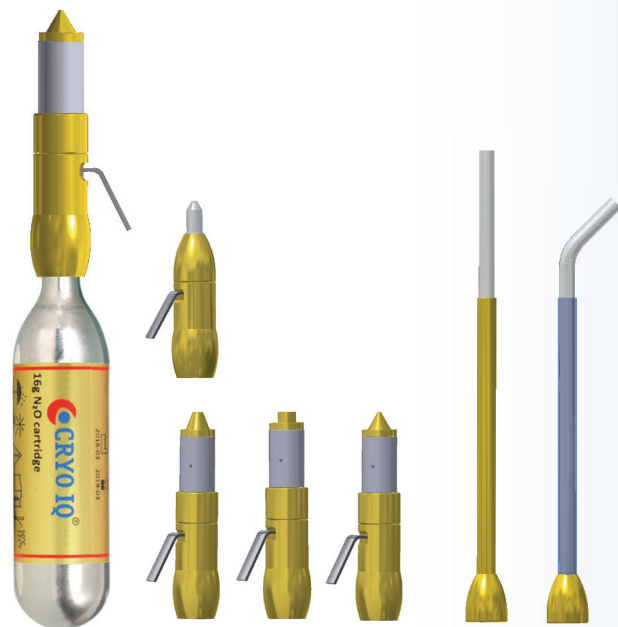
At present we have the CryoIQ Derm available for the Veterinary market, two additional veterinary products will be released in the upcoming period June-August 2016:

**CryoIQ DERM**

The present CryoIQ Derm is available for evaluation and sales. The device has a fixed standard veterinary applicator for spray treatment of veterinary lesions. The other versions of the CryoIQ have fixed contact applicators for contact freezing whereas we can adapt to the need of the market to offer other versions as well.

**CryoIQ PRO**

The CryoIQ PRO with interchangeable spray and contact freezing applicators. The product has the choice of the use of 16 g or 25 g Nitrous Oxide cartridges.



### **CryoIQ EquiVet**

The CryoIQ EquiVet with interchangeable spray and contact freezing applicators, comes with a large 40 g Nitrous Oxide cartridge in order to target treatments of sarcoids in horses as well.



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[www.pennvet.com](http://www.pennvet.com)



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