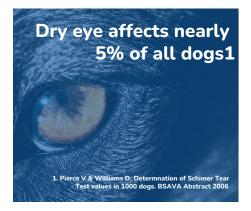
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# The Essential Role of Tears in Healthy Eyes

More than just moisture, tears, and the tear film, support overall eye health in a variety of ways. Under or over tear production can lead to various diseases and conditions. Tears help to:

- Lubricate the cornea, eyelids and conjunctiva (the tissue that lines the eyelids)
- Protect the eyes against infection
- Provide oxygen and nutrients to the cornea
- Remove metabolic by-products like carbon dioxide
- Play a role in the local immune defence
- Wash away irritating particles or foreign bodies
- Keep the eye surface smooth and clear



## What is Dry Eye?

Keratoconjunctivitis sicca (KCS), or Dry Eye, is an ophthalmic disorder in both dogs and humans. In dogs, the primary cause is immune-related lacrimal gland disease, but other causes include2:

- Drug-induced injury
- Traumatic injury
- Neurological dysfunction

Left untreated, KCS can lead to 2:

- Corneal damage and scarring
- Increased vascularisation
- Hyperpigmentation
- Vision loss

2. Williams D, Mann B. A Crosslinked HA-Based Hydrogel Ameliorates Dry Eye Symptoms in Dogs. International Journal of Biomaterials. Volume 2013, Article ID 460437

#### **Dry Eye Treatment**

In most cases, dry eye requires treatment for life as there is no permanent cure. Once diagnosis is made, the treatment options are typically two-fold:

- **1.** Prescription ointment with cyclosporine: Treats the underlying auto-immune condition.
  - If the tear gland is damaged already, treatment may be less effective and tear replacement therapy still required.
  - Even in dogs that respond well to treatment with cyclosporine prescriptions, additional tear supplementation is still recommended to keep the eyes as comfortable as possible.
- Daily tear replacement: Considered an essential component in the management of Dry Eye to keep the eves lubricated, most veterinarians recommend
  - lubricating drops that replace natural tears to keep the eyes moist and protected.

• These are only supplemental and do not replace treatment with cyclosporine. However, the majority of cases will benefit from long-term use of tear replacement drops, in addition to cyclosporin, to keep the eyes as comfortable as possible.







Eye-Drop with crosslinked hyaluronic acid gel technology that reduces the number of applications.



Highest eye care concentration of crosslinked hyaluronic acid, providing the greatest coverage and protection.

### What sets Sentrx products apart? Our patented BioHAnce™ technology!

BioHAnce™ is a molecular matrix of crosslinked hyaluronic acid (HA). HA is a naturally occurring substance, found throughout both human and animals, that plays a key role in hydration, tissue lubrication and healing processes.

Crosslinking the hyaluronic acid creates a hydrogel that acts as a molecular scaffolding material, and makes it less likely to break down in natural environments, one of the limiting factors of using natural HA for therapeutic applications.

BioHAnce<sup>™</sup> technology is a purified product, with no by-products or irritating additives.

Dômes Pharma Product Name	Concentration of BioHAnce™		Use Case Support
and the second se	0.40%	Twice a day, 1-2 drops	<ul> <li>Symptoms associated with dry eye</li> <li>During and post-surgery support to maintain eye lubrication in sedated pets</li> </ul>
BioHAnce™ Ocular	0.75%	Twice a day, 1-2 drops	<ul> <li>Superficial ocular injuries, traumatic ocular wounds, surgical incisions, corneal ulcers</li> </ul>

\*See product insert for full product information and application instructions.

For more information talk to your visit www.domespharma.us/learnmore

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