

Cyclosporine, Ophthalmic

(sye-klo-spore-in)

Category: Immunosuppressive Agent

Other Names for this Medication: Optimmune®, Restasis®

Common Dosage Forms: Veterinary: 0.2% ophthalmic ointment in 3.5 g tubes. **Human:** 0.05% ophthalmic emulsion in 0.4 mL single use vials, packets of 30 or 60. Concentrated cyclosporine ophthalmic solutions have also been made (compounded) by qualified professionals for animals that require a stronger concentration of this drug.

This information sheet does not contain all available information for this medication. It is to help answer commonly asked questions and help you give the medication safely and effectively to your animal. If you have other questions or need more information about this medication, contact your veterinarian or pharmacist.

Key Information

- ▶ Controls your animal's condition but does not cure it. Lifelong treatment is required.
- ▶ Used 2 times daily. It may take days to weeks to notice improvement. Do not stop giving the medication without asking your veterinarian.
- ▶ Use proper administration techniques to avoid contamination of the medication. Keep cap tightly closed when not in use.
- ▶ Wait 5 minutes after applying this medication before applying any other medications to the eye.
- ▶ Cyclosporine ointment should be stored at room temperature away from moisture and sunlight. Handle and squeeze the tube gently to prevent the metal from cracking and leaking.
- ▶ Cyclosporine solutions should be stored at room temperature and not refrigerated; do not freeze. Discard if color change, or becomes cloudy, or if particles are observed in the solution.

How is this medication useful?

The FDA (U.S. Food & Drug Administration) has approved this drug for use in both humans and animals. Cyclosporine is approved to treat dry eye (keratoconjunctivitis sicca) and CSK (chronic superficial keratitis) in dogs. It is also useful in treating immune-mediated keratitis and pannus in horses and dogs. You and your veterinarian will discuss why this drug is the most appropriate choice.

What should I tell my veterinarian to see if this medication can be safely given to my pet?

Many things might affect how well this drug will work in your animal. Be sure to discuss the following with your veterinarian so together you can make the best treatment decisions.

- ▶ Other drugs can interact with this medication, so be sure to tell your veterinarian and pharmacist what medications (eg, other eye medications, vitamins, supplements, or herbal therapies) you give your animal, including the amount and time you give each.
- ▶ Tell your veterinarian about any conditions or diseases your animal may have now or has had in the past.
- ▶ If your animal has been treated for the same disease or condition in the past, tell your veterinarian about the treatment and how well it worked or didn't work.
- ▶ If your animal is pregnant or nursing, talk to your veterinarian about the risks of using this drug.
- ▶ Tell your veterinarian and pharmacist about any medication side effects (eg, allergic reactions, lack of appetite, diarrhea, itching, hair loss) your animal has developed in the past.

When should this medication not be used or be used very carefully?

No drug is 100% safe in all patients, but your veterinarian will discuss with you any specific concerns about using this drug in your animal.

This drug **SHOULD NOT** be used in patients:

- ▶ That are allergic to it or drugs like it.
- ▶ With eye infections caused by a virus (eg, herpes) or a fungus.

This drug should be used **WITH CAUTION** in patients:

- ▶ Animals that are pregnant or nursing.
- ▶ Animals that are on other drugs that suppress the immune system.

What are the side effects of this medication?

Side effects that usually are not serious include:

- ▶ Mild burning, stinging, irritation, or redness of the eyes.
- ▶ Eyelid spasm.
- ▶ Loss of hair around the eye.

If any of these are severe, worsen or continue to be a problem, contact your veterinarian.

Side effects that may be serious or indicate a serious problem:

- ▶ Difficulty breathing or swelling of the throat indicates a severe allergic reaction to this drug.
- ▶ Signs of suppression of the immune system (eg, weakness, tiredness, fever, infections, unusual bruising or bleeding)

If you see any of these, contact your veterinarian immediately.

If my animal gets too much of this medication (an overdose), what should I do?

When used as an eye medication, overdoses are not likely. But side effects or toxic effects could occur if your animal eats the medication. If this happens, contact your veterinarian or an animal poison control center for further advice. Animal poison control centers that are open 24 hours a day include ASPCA Animal Poison Control Center (888-426-4435) and Pet Poison HELPLINE (855-764-7661); a consultation fee may be charged for these services.

How should this medication be given?

- ▶ For this medication to work, give it exactly as your veterinarian has prescribed. Always check the prescription label to be sure you are giving the drug correctly.
- ▶ Wash your hands before administering this medication.
- ▶ Administer this drug to your animal's eye in the exact amount that your veterinarian has prescribed. Do not touch the dropper tip or allow it to touch your animal's eye or any other surface to prevent contamination.
- ▶ If any residue is left on your animal's face after giving the eye drops, gently wipe it off with a damp cloth or tissue.

- ▶ If you are administering more than one eye medication to your animal, wait 5 minutes between each medication before giving the next one. Use eye drops before eye ointments to allow the drops to absorb into the eye.
- ▶ If you are using this medication as an eye solution for your horse, your veterinarian may have implanted a special eye catheter (subpalpebral lavage or SPL catheter). Use this catheter exactly as your veterinarian has prescribed and only use air to flush the medications to the eye after injecting into the catheter.
- ▶ If you are having difficulty applying the medication or your animal does not accept the treatment, contact your veterinarian or pharmacist for tips to help with administration and reducing the stress of medication time.
- ▶ This medication can be given for various lengths of time. Be sure you understand how long the veterinarian wants you to continue giving this medication. Prescription refills may be necessary before the therapy will be complete.

What should I do if I miss giving a dose of this medication?

If you miss a dose, give it when you remember, but if it is close to the time for the next dose, skip the dose you missed and give it at the next scheduled time. After that, return to the regular dosing schedule. Do not double-up or give extra doses.

How should I store this medication?

- ▶ Store this medication in the original prescription bottle or an approved dosage reminder container at room temperature and protected from light.
- ▶ If your veterinarian or pharmacist has made (compounded) a special

formulation for your animal, follow the storage recommendations and expiration date for the product.

- ▶ Keep away from children and other animals.

Can handling this medication be hazardous to me, my family, or other pets?

There are no specific precautions required when handling this medication unless you are allergic to it or other drugs like it. Wash your hands after handling any medication.

How should I dispose of this medication if I don't use it all?

- ▶ Do not flush this medication down the toilet or wash it down the sink. If a community drug "take-back" program is available, use this option. If there is no take-back program, mix the drug with coffee grounds or cat litter (to make it undesirable to children and animals and unrecognizable to people who might go through your trash), place the mixture in a sealable plastic bag to keep it from leaking out, and throw the bag out with the regular trash.
- ▶ Do not save left over medication for future use or give it to others to use.

What other information is important for this medication?

- ▶ Use of this drug may not be allowed in certain animal competitions. Check rules and regulations before entering your animal in a competition while this medication is being administered.

If you have any other questions or concerns about this medication, contact your veterinarian or pharmacist.