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# PHYSICIANS' DESK REFERENCE FOR OPHTHALMOLOGY®

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**Amsler's Grid** **Inside Front Cover**

# SECTION 1 INDICE

This section offers information you need:

**1. Manufacturers'** participating manufacturer two page numbers graphs in the Product to product i addresses and tele headquarters and re

**2. Product Name I** product information alph mond symbol to the tograph of the Identification Guide page number refer:

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## 6. MEDICATIONS FOR DRY EYE

Dry eye refers to a deficiency in either the aqueous or mucin components of the precorneal tear film. The most commonly encountered aqueous-deficient dry eye in the United States is keratoconjunctivitis sicca, while mucin-deficient dry eyes may be seen in cases of hypovitaminosis A, Stevens-Johnson syndrome, ocular pemphigoid, extensive trachoma, and chemical burns.

Dry eye is treated with artificial tear preparations (see **Table 20**) and ophthalmic lubricants (see **Table 21**). The lubricants form an occlusive film over the ocular surface and protect the eye from drying. Administered as a nighttime medication, they are useful both for dry eye and in cases of recurrent corneal erosion.

TABLE 20

### ARTIFICIAL TEAR PREPARATIONS

| MAJOR COMPONENT(S)                        | CONCENTRATION (%) | TRADE NAME                       | PRESERVATIVE/EDTA*          |
|---|-------------------|----------------------------------|-----------------------------|
| Carboxymethyl cellulose                   | 0.5%              | Refresh Plus                     | None                        |
|   | 1%                | Celluvisc                        | None                        |
|   | 0.25%             | Theratears                       | None                        |
| Glycerin                                  | 3%                | Dry Eye Therapy                  | None                        |
| Hydroxyethyl cellulose, polyvinyl alcohol |                   | TearGard                         | Sorbic acid, EDTA           |
| Hydroxypropyl cellulose                   |                   | Lacrisert (biodegradable insert) | None                        |
| Hydroxypropyl methylcellulose             | 0.5%              | Isopto Plain                     | Benzalkonium chloride       |
|   |                   | Isopto Tears                     | Benzalkonium chloride       |
|   |                   | Tearisol                         | Benzalkonium chloride, EDTA |
|   |                   | Isopto Alkaline                  | Benzalkonium chloride       |
| Hydroxypropyl methylcellulose, dextran 70 |                   | Bion Tears                       | None                        |
|   |                   | Ocucoat                          | Benzalkonium chloride, EDTA |
|   |                   | Ocucoat PF                       | None                        |
|   |                   | Tears Naturale II                | Polyquad                    |
|   |                   | Tears Naturale Free              | None                        |
|   |                   | Tears Renewed                    | Benzalkonium chloride, EDTA |
| Methylcellulose                           | 1%                | Murocel                          | Methyl-, propylparabens     |
|   |                   | AquaSite                         | EDTA                        |
| Polycarbophil, PEG-400, dextran 70        |                   | AquaSite multi-dose              | EDTA, Sorbic acid           |
| Polysorbate 80                            |                   | Viva Drops                       | EDTA                        |
| Polyvinyl alcohol                         | 1.4%              | AKWA Tears                       | Benzalkonium chloride, EDTA |
|   | 3%                | Dry Eyes                         | Chlorobutanol               |
| Polyvinyl alcohol, PEG-400, dextrose      | 1%                | Liquifilm Tears                  | Chlorobutanol               |
|   |                   | HypoTears                        | Benzalkonium chloride, EDTA |
|   |                   | HypoTears PF                     | EDTA                        |
| Polyvinyl alcohol, povidone               | 1.4%              | Puralube Tears                   | Benzalkonium chloride, EDTA |
|   | 0.6%              | Murine Tears                     | Benzalkonium chloride, EDTA |
|   |                   | Refresh                          | None                        |
|   |                   | Tears Plus                       | Chlorobutanol               |

\*EDTA = ethylenediaminetetraacetic acid.

SET/DURATION OF ACTION

min/5-6 h

60 min/6 h

45 min/5-6 h

ONSET/DURATION OF ACTION

2 h/4-6 h

5-10 min/2 h

...

30 min/6 h

...

2 h/4-6 h

SIZE(S)(mL)

5

single use bottle

5, 10, 15

SIZE(S)(mL)

2.5

TABLE 21

**OPHTHALMIC LUBRICANTS**

| TRADE NAME                       | COMPOSITION OF STERILE OINTMENT   |
|----------------------------------|---|
| AKWA Tears Ointment              | White petrolatum, liquid lanolin, and mineral oil                           |
| Dry Eyes                         | White petrolatum, liquid lanolin, and mineral oil                           |
| Duolube                          | White petrolatum and mineral oil  |
| Duratears Naturale               | White petrolatum, liquid lanolin, and mineral oil                           |
| HypoTears                        | White petrolatum and light mineral oil                                      |
| Lacri-Lube S.O.P., Lubritears    | 42.5% mineral oil, 55% white petrolatum, lanolin alcohol, and chlorobutanol |
| Puralube                         | White petrolatum, liquid lanolin, and mineral oil                           |
| Refresh P.M., Dry Eyes Lubricant | 41.5% mineral oil, 55% white petrolatum, petrolatum, and lanolin alcohol    |

**7. OCULAR DECONGESTANTS**

These topically applied adrenergic medications are commonly used to whiten the eye. Three types are available. Those containing naphazoline and tetrahydrozoline are more stable than those with phenylephrine. Usual dosage is 1 or 2 drops no more than 4 times a day (see **Table 22**).

TABLE 22

**OCULAR DECONGESTANTS**

| DRUG                           | TRADE NAME        | ADDITIONAL COMPONENTS                   |
|--------------------------------|-------------------|---|
| Naphazoline hydrochloride      | AK-Con*           | Benzalkonium chloride, edetate disodium |
|                                | Albalon*          | Benzalkonium chloride, edetate disodium |
|                                | Clear Eyes        | Benzalkonium chloride, edetate disodium |
|                                | Naphcon           | Benzalkonium chloride, edetate disodium |
|                                | Vasoclear         | Benzalkonium chloride, edetate disodium |
| Oxymetazoline hydrochloride    | Vasoclear         | Phenylmercuric acetate                  |
|                                | Vasocon Regular*  |   |
| Oxymetazoline hydrochloride    | Visine L.R.       | Benzalkonium chloride, edetate disodium |
|                                | Ocuclear          | Benzalkonium chloride, edetate disodium |
| Phenylephrine hydrochloride    | AK-Nefrin         | Benzalkonium chloride, edetate disodium |
|                                | Eye Cool          | Thimerosal, edetate disodium            |
|                                | Prefrin Liquifilm | Benzalkonium chloride, edetate disodium |
|                                | Relief            | —                                       |
| Tetrahydrozoline hydrochloride | Collyrium Fresh   | Benzalkonium chloride, edetate disodium |
|                                | Murine Plus       | Benzalkonium chloride, edetate disodium |
|                                | Visine            | Benzalkonium chloride, edetate disodium |

**DECONGESTANT/ASTRINGENT COMBINATIONS**

|   |                                      |   |
|---|--------------------------------------|---|
| Naphazoline hydrochloride plus zinc sulfate   | Clear Eyes ACR (allergy/cold relief) | Benzalkonium chloride, edetate disodium |
| Phenylephrine hydrochloride plus zinc sulfate | Zincfrin                             | Benzalkonium chloride                   |
| Tetrahydrozoline plus zinc sulfate            | Visine Allergy Relief                | Benzalkonium chloride, edetate disodium |

\*Prescription medication.

**8. OPHTHA**

Listed in **Table 23** general ophthalmic products. There are variations available for

TABLE 23

**OPHTHALMIC II****TRADE NAME**

AK-Rinse

Collyrium Fresh Eyes

Dacriose

Eye-Stream

Irigate

Lavoptik Eye Wash

**9. HYPER**

Hyperosmolar (hy They act through

TABLE 24

**HYPEROSMO****GENERIC NAME**

A. Therapeutic prepa Sodium chloride

B. Diagnostic prepa Glycerin

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