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PHYSICIANS' DESK REFERENCE FOR OPHTHALMOLOGY®

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ISBN: 1-56363-290-X

CONTENTS

Section 1: Indices

Page I

1. Manufacturers' Index.....	I
2. Product Name Index	III
3. Product Category Index.....	VI
4. Active Ingredients Index	IX

Section 2: Pharmaceuticals in Ophthalmology

Page 1

1. Mydriatics and Cycloplegics	2
2. Antimicrobial Therapy	2
3. Ocular Anti-inflammatory Agents.....	7
4. Anesthetic Agents	9
5. Agents for Treatment of Glaucoma	10
6. Medications for Dry Eye.....	13
7. Ocular Decongestants	14
8. Ophthalmic Irrigating Solutions.....	15
9. Hyperosmolar Agents	15
10. Diagnostic Agents	16
11. Viscoelastic Materials Used in Ophthalmology.....	17
12. Off-Label Drug Applications in Ophthalmology	17
13. Ocular Toxicology.....	19

Section 3: Suture Materials

Page 23

Section 4: Ophthalmic Lenses

Page 25

1. Soft Contact Lenses.....	25
2. Aphakic Lenses.....	50
3. Comparison and Conversion Tables	52

Section 5: Vision Standards and Low Vision

Page 56

1. Vision Standards.....	56
2. Low-Vision Aids	58

Section 6: Evaluation of Permanent Visual Impairment

59

1. Criteria and Methods	59
2. Visual System Impairment Values	68
3. Combined Values Chart	71

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Section 7: Product Identification Guide **Page 101**

- 1. Index.....102
- 2. Full-Color Product Photographs.....103

Section 8: Pharmaceutical and Equipment Product Information **Page 201**

Listed alphabetically by manufacturer

Section 9: Intraocular Product Information **Page 315**

Key to Controlled Substances Categories **Page 319**

Key to FDA Use-in-Pregnancy Ratings **Page 320**

Amsler's Grid **Inside Front Cover**

SECTION 1 INDICE

This section offers f
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1. Manufacturers'
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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

SET/DURATION 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

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
		Polycarboxiphil, PEG-400, dextran 70	EDTA EDTA, Sorbic acid
Polysorbate 80		Viva Drops	EDTA
Polyvinyl alcohol	1.4%	AKWA Tears	Benzalkonium chloride, EDTA
	3%	Dry Eyes Liquifilm Tears	Chlorobutanol Chlorobutanol
Polyvinyl alcohol, PEG-400, dextrose	1%	HypoTears	Benzalkonium chloride, EDTA
		HypoTears PF	EDTA
		Puralube Tears	Benzalkonium chloride, EDTA
Polyvinyl alcohol, povidone	1.4%	Murine Tears	Benzalkonium chloride, EDTA
	0.6%	Refresh Tears Plus	None Chlorobutanol

*EDTA = ethylenediaminetetraacetic acid.

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	Benzalkonium chloride, edetate disodium
	Vasocon Regular*	Phenylmercuric acetate
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 actions available for

TABLE 23

OPHTHALMIC II**TRADE NAME**

AK-Rinse

Collyrium Fresh Eyes

Dacriose

Eye-Stream

Irigate

Lavoptik Eye Wash

9. HYPER

Hyperosmolar (hy
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TABLE 24

HYPEROSMO**GENERIC NAME**

A. Therapeutic prepa
Sodium chloride

B. Diagnostic prepa
Glycerin

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