NDA 022548 Page 4

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ZYMAXIDTM safely and effectively. See full prescribing information for ZYMAXIDTM.

ZYMAXID[™] (gatifloxacin ophthalmic solution) 0.5% Initial U.S. Approval: 1999

_INDICATIONS AND USAGE _

ZYMAXIDTM ophthalmic solution is a topical fluoroquinolone anti-infective indicated for the treatment of bacterial conjunctivitis caused by susceptible strains of the following organisms:

Haemophilus influenzae, Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus mitis group*, Streptococcus oralis*, Streptococcus pneumoniae

*Efficacy for this organism was studied in fewer than 10 infections. (1)

DOSAGE AND ADMINISTRATION

Patients 1 year of age or older: Instill one drop every two hours in the affected eye(s) while awake, up to 8 times on Day 1. Instill one drop two to four times daily in the affected eye(s) while awake on Days 2 through 7. (2)

_____DOSAGE FORMS AND STRENGTHS _____ 5 mL size bottle filled with 2.5 mL of gatifloxacin ophthalmic solution, 0.5%. (3)

___CONTRAINDICATIONS_____

None

WARNINGS AND PRECAUTIONS _____ Topical Ophthalmic Use Only (5.1) Growth of Resistant Organisms with Prolonged Use (5.2) Avoidance of Contact Lenses. Patients should not wear contact lenses if they have signs or symptoms of bacterial conjunctivitis or during the course of therapy with ZYMAXIDTM (5.3)

_ADVERSE REACTIONS _

Most common adverse reactions occurring in ≥ 1 % of patients included worsening of conjunctivitis, eye irritation, dysgeusia, and eye pain. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Allergan at 1-800-433-8871 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 05/2010

FULL PRESCRIBING INFORMATION: CONTENTS*

- 1 INDICATIONS AND USAGE
- 2 DOSAGE AND ADMINISTRATION
- 3 DOSAGE FORMS AND STRENGTHS
- 4 CONTRAINDICATIONS
- 5 WARNINGS AND PRECAUTIONS
 - 5.1 Topical Ophthalmic Use Only
 - 5.2 Growth of Resistant Organisms with Prolonged Use
 - 5.3 Avoidance of Contact Lens Wear
- 6 ADVERSE REACTIONS
 - 6.1 Clinical Studies Experience
- 7 DRUG INTERACTIONS
- 8 USE IN SPECIFIC POPULATIONS
 - 8.1 Pregnancy
 - 8.3 Nursing Mothers
 - 8.4 Pediatric Use

- 8.5 Geriatric Use
- 11 DESCRIPTION
- 12 CLINICAL PHARMACOLOGY
 - 12.1 Mechanism of Action
 - 12.3 Pharmacokinetics
 - 12.4 Microbiology
- 13 NONCLINICAL TOXICOLOGY13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
- 14 CLINICAL STUDIES
- 16 HOW SUPPLIED/STORAGE AND HANDLING
- PATIENT COUNSELING INFORMATION
 17.1 Avoiding Contamination of the Product
 17.2 Avoidance of Contact Lens Wear

*Sections or subsections omitted from the full prescribing information are not listed.

NDA 022548 Page 4

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE ZYMAXIDTM (gatifloxacin ophthalmic solution) 0.5% solution is indicated for the treatment of bacterial conjunctivitis caused by susceptible strains of the following organisms:

Aerobic Gram-Positive Bacteria: Staphylococcus aureus Staphylococcus epidermidis Streptococcus mitis group* Streptococcus oralis* Streptococcus pneumoniae

Aerobic Gram-Negative Bacteria: *Haemophilus influenzae*

*Efficacy for this organism was studied in fewer than 10 infections.

2 DOSAGE AND

ADMINISTRATION

Patients 1 year of age or older: Instill one drop every two hours in the affected eye(s) while awake, up to 8 times on Day 1. Instill one drop two to four times daily in the affected eye(s) while awake on Days 2 through 7.

3 DOSAGE FORMS AND STRENGTHS

Five (5) mL bottle containing 2.5 mL of a 0.5% sterile topical ophthalmic solution.

4 CONTRAINDICATIONS None

5 WARNINGS AND PRECAUTIONS
5.1 Topical Ophthalmic Use Only
ZYMAXIDTM solution should not be introduced directly into the anterior chamber of the eye.
5.2 Growth of Resistant Organisms with Prolonged Use

As with other anti-infectives, prolonged use of ZYMAXIDTM (gatifloxacin ophthalmic solution) 0.5% may result in overgrowth of nonsusceptible organisms, including fungi. If superinfection occurs, discontinue use and institute alternative therapy. Whenever clinical judgment dictates, the patient should be examined with the aid of magnification, such as slit lamp biomicroscopy and where appropriate, fluoroscein staining.

5.3 Avoidance of Contact Lens Wear Patients should be advised not to wear contact lenses if they have signs and symptoms of bacterial conjunctivitis or during the course of therapy with ZYMAXIDTM (see PATIENT COUNSELING INFORMATION, 17.2).

6 ADVERSE REACTIONS

6.1 Clinical Studies Experience Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice.

In clinical studies with ZYMAXIDTM, the most frequently reported adverse reactions occurring in ≥ 1 % of patients in the gatifloxacin study population (N=717) were: worsening of the conjunctivitis, eye irritation, dysgeusia, and eye pain.

Additional adverse events reported with other formulations of gatifloxacin ophthalmic solution include chemosis, conjunctival hemorrhage, dry eye, eye discharge, eyelid edema, headache, increased lacrimation, keratitis, papillary conjunctivitis, and reduced visual acuity.

7 DRUG INTERACTIONS

This label may not be the latest approved by FDA. For current labeling information, please visit https://www.fda.gov/drugsatfda

NDA 022548 Page 5

Specific drug interaction studies have not been conducted with ZYMAXIDTM ophthalmic solution.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C Teratogenic Effects: There were no teratogenic effects observed in rats or rabbits following oral gatifloxacin doses up to 50 mg/kg/day (approximately 1000-fold higher than the maximum recommended ophthalmic dose). However, skeletal/craniofacial malformations or delayed ossification, atrial enlargement, and reduced fetal weight were observed in fetuses from rats given $\geq 150 \text{ mg/kg/day}$ (approximately 3000-fold higher than the maximum recommended ophthalmic dose). In a perinatal/postnatal study, increased late post-implantation loss and neonatal/perinatal mortalities were observed at 200 mg/kg/day (approximately 4000-fold higher than the maximum recommended ophthalmic dose).

Because there are no adequate and wellcontrolled studies in pregnant women, ZYMAXIDTM solution should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

Gatifloxacin is excreted in the breast milk of rats. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when ZYMAXIDTM is administered to a nursing woman.

Pediatric Use

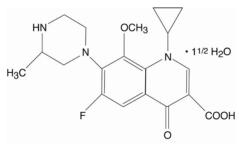
The safety and effectiveness of ZYMAXIDTM in infants below one year of age have not been established. ZYMAXIDTM has been demonstrated in clinical trials to be safe and effective for the treatment of bacterial conjunctivitis in pediatric patients one year or older (see CLINICAL STUDIES, 14).

Geriatric Use

No overall differences in safety or effectiveness have been observed between elderly and younger patients.

11 DESCRIPTION

ZYMAXIDTM sterile ophthalmic solution is an 8-methoxyfluoroquinolone anti-infective for the treatment of bacterial conjunctivitis. Its chemical name is (\pm) -1-Cyclopropyl-6fluoro-1,4-dihydro-8-methoxy-7-(3-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid, sesquihydrate. Its molecular formula is C19H22FN3O4 \cdot 1½H2O, and its molecular weight is 402.42. Its chemical structure is:



ZYMAXID[™] is a clear, pale yellow, sterile, preserved aqueous solution with an osmolality of 260-330 mOsm/kg and a pH of 5.1-5.7.

ZYMAXID[™] contains Active: gatifloxacin 0.5% (5 mg/mL); Inactives: benzalkonium chloride 0.005%; edetate disodium; purified water; and sodium chloride. May contain hydrochloric acid and/or sodium hydroxide to adjust pH.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

This label may not be the latest approved by FDA. For current labeling information, please visit https://www.fda.gov/drugsatfda

NDA 022548 Page 6

Gatifloxacin is a fluoroquinolone antibacterial (see CLINICAL PHARMACOLOGY, 12.4).

12.3 Pharmacokinetics

Gatifloxacin ophthalmic solution 0.3% or 0.5% was administered to one eye of 6 healthy male subjects each in an escalated dosing regimen starting with a single 2 drop dose, then 2 drops 4 times daily for 7 days, and finally 2 drops 8 times daily for 3 days. At all time points, serum gatifloxacin levels were below the lower limit of quantification (5 ng/mL) in all subjects.

12.4 Microbiology

Gatifloxacin is an 8methoxyfluoroquinolone with a 3methylpiperazinyl substituent at C7. The antibacterial action of gatifloxacin results from inhibition of DNA gyrase and topoisomerase IV. DNA gyrase is an essential enzyme that is involved in the replication, transcription, and repair of bacterial DNA. Topoisomerase IV is an enzyme known to play a key role in the partitioning of the chromosomal DNA during bacterial cell division. The mechanism of action of fluoroquinolones including gatifloxacin is different from that of aminoglycoside, macrolide, and tetracycline antibiotics. Therefore, gatifloxacin may be active against pathogens that are resistant to these antibiotics and these antibiotics may be active against pathogens that are resistant to gatifloxacin. There is no cross-resistance between gatifloxacin and the aforementioned classes of antibiotics. Cross resistance has been observed between systemic gatifloxacin and some other fluoroquinolones.

Resistance to gatifloxacin in vitro develops via multiple-step mutations. Resistance to gatifloxacin in vitro occurs at a general frequency of 1 x 10-7 to 10-10.

Gatifloxacin has been shown to be active against most isolates of the following organisms both microbiologically and clinically, in conjunctival infections as described in the INDICATIONS AND USAGE, Section 1.

Aerobic Gram-Positive Bacteria: Staphylococcus aureus Staphylococcus epidermidis Streptococcus mitis group* Streptococcus oralis* Streptococcus pneumoniae

Aerobic Gram-Negative Bacteria: *Haemophilus influenzae*

*Efficacy for this organism was studied in fewer than 10 infections.

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility There was no increase in neoplasms among B6C3F1 mice given gatifloxacin in the diet for 18 months at doses averaging 81 mg/kg/day in males and 90 mg/kg/day in females. These doses are approximately 1600-fold and 1800-fold higher, respectively, than the maximum recommended ophthalmic dose of 0.05 mg/kg/day in a 50 kg human.

There was no increase in neoplasms among Fischer 344 rats given gatifloxacin in the diet for 2 years at doses averaging 47 mg/kg/day in males and 139 mg/kg/day in females (900- and 2800-fold higher, respectively, than the maximum recommended ophthalmic dose). A statistically significant increase in the incidence of large granular lymphocyte (LGL) leukemia was seen in males treated with a high dose of approximately 2000-fold

This label may not be the latest approved by FDA. For current labeling information, please visit https://www.fda.gov/drugsatfda

NDA 022548 Page 7

higher than the maximum recommended ophthalmic dose. Fischer 344 rats have a high spontaneous background rate of LGL leukemia and the incidence in high-dose males only slightly exceeded the historical control range established for this strain.

In genetic toxicity tests, gatifloxacin was positive in 1 of 5 strains used in bacterial reverse mutation assays: Salmonella strain TA102. Gatifloxacin was positive in in vitro mammalian cell mutation and chromosome aberration assays. Gatifloxacin was positive in in vitro unscheduled DNA synthesis in rat hepatocytes but not human leukocytes. Gatifloxacin was negative in in vivo micronucleus tests in mice, cytogenetics test in rats, and DNA repair test in rats. The findings may be due to the inhibitory effects of high concentrations on eukaryotic type II DNA topoisomerase.

There were no adverse effects on fertility or reproduction in rats given gatifloxacin orally at doses up to 200 mg/kg/day (approximately 4000-fold higher than the maximum recommended ophthalmic dose for ZYMAXIDTM).

14 CLINICAL STUDIES

In two randomized, double-masked, multicenter clinical trials, where patients 1-89 years of age were dosed for 5 days, ZYMAXIDTM solution was clinically superior to its vehicle on day 6 in patients with conjunctivitis and positive conjunctival cultures. Clinical outcomes for the trials demonstrated clinical success (resolution of conjunctival hyperaemia and conjunctival discharge) of 58% (193/333) for the gatifloxacin-treated groups versus 45% (148/325) for the vehicle-treated groups. Microbiological outcomes for the same clinical trials demonstrated a statistically superior eradication rate for causative pathogens of 90% (301/333) for gatifloxacin vs. 70% (228/325) for vehicle. Please note that microbiological eradication does not always correlate with clinical outcome in anti-infective trials.

16 HOW SUPPLIED/STORAGE AND HANDLING

ZYMAXID[™] (gatifloxacin ophthalmic solution) 0.5% is supplied sterile in a white, low density polyethylene (LDPE) bottle with a controlled dropper tip, and a tan, high impact polystyrene (HIPS) cap in the following sizes:

2.5 mL in 5 mL bottle: NDC 0023-3615-25

Storage: Store at 15°-25°C (59°-77°F). Protect from freezing.

17 PATIENT COUNSELING INFORMATION

17.1 Avoiding Contamination of the Product

Patients should be instructed to avoid contaminating the applicator tip with material from the eye, fingers, or other source.

17.2 Avoidance of Contact Lens Wear Patients should be advised not to wear contact lenses if they have signs and symptoms of bacterial conjunctivitis.

© 2010 Allergan, Inc. Irvine, CA 92612, U.S.A. TM and ® marks owned by Allergan, Inc. Licensed from Kyorin Pharmaceuticals Co., Ltd. U.S. Patents 5,880,283 and 6,333,045