

## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**DEXTENZA® (dexamethasone ophthalmic insert) 0.4 mg, for intracanalicular use**  
**Initial U.S. Approval: 1958**

### INDICATIONS AND USAGE

DEXTENZA® is a corticosteroid indicated for the treatment of ocular pain following ophthalmic surgery (1).

### DOSAGE AND ADMINISTRATION

DEXTENZA is an ophthalmic insert that is inserted in the lower lacrimal punctum and into the canaliculus. A single DEXTENZA releases a 0.4 mg dose of dexamethasone for up to 30 days following insertion (2).

### DOSAGE FORMS AND STRENGTHS

Ophthalmic intracanalicular insert containing a 0.4 mg dose of dexamethasone (3).

### CONTRAINDICATIONS

Active ocular infections (4).

### WARNINGS AND PRECAUTIONS

- Intraocular Pressure Increase: Monitor intraocular pressure (5.1).
- Bacterial Infections: Steroids may mask signs of infections and enhance existing infections (5.2).
- Viral Infections: Ocular steroids may prolong the course and exacerbate the severity of ocular viral infections (5.3).
- Fungal Infections: Consider fungal invasion in any persistent corneal ulceration (5.4).
- Delayed Healing: Ocular steroids may slow the rate of ocular healing. (5.5).

### ADVERSE REACTIONS

The most commonly reported adverse reactions were anterior chamber inflammation and elevations in intraocular pressure. These occurred in approximately 5-9% of patients (6.1).

**To report SUSPECTED ADVERSE REACTIONS, contact Ocular Therapeutix at 1-800-DEXTENZA (339-8369) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

See 17 for PATIENT COUNSELING INFORMATION.

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

DEXTENZA<sup>®</sup> (dexamethasone ophthalmic insert) is a corticosteroid indicated for the treatment of ocular pain following ophthalmic surgery (1).

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 General Dosing Information

DEXTENZA is an ophthalmic insert that is inserted in the lower lacrimal punctum into the canaliculus. A single DEXTENZA releases a 0.4 mg dose of dexamethasone for up to 30 days following insertion.

DEXTENZA is resorbable and does not require removal. Saline irrigation or manual expression can be performed to remove the insert if necessary. DEXTENZA is intended for single-use only.

#### 2.2 Administration

Do not use if pouch has been damaged or opened. Do not re-sterilize.

1. Carefully remove foam carrier and transfer to a clean and dry area.
2. If necessary, dilate the punctum with an ophthalmic dilator. Care should be taken not to perforate the canaliculus during dilation or insertion of DEXTENZA. If perforation occurs, do not insert DEXTENZA.
3. After drying the punctal area, using blunt (non-toothed) forceps, grasp DEXTENZA and insert into the lower lacrimal canaliculus. DEXTENZA should be placed just below the punctal opening. Excessive squeezing of DEXTENZA may cause deformation.
4. To aid in the hydration of DEXTENZA, 1 to 2 drops of balanced salt solution can be instilled into the punctum. DEXTENZA hydrates quickly upon contact with moisture. If DEXTENZA begins to hydrate before fully inserted, discard the product and use a new DEXTENZA.
5. DEXTENZA can be visualized when illuminated by a blue light source (e.g., slit lamp or hand held blue light) with yellow filter.

### 3 DOSAGE FORMS AND STRENGTHS

Ophthalmic insert: fluorescent yellow, 3 mm cylindrical-shaped insert containing dexamethasone, 0.4 mg.

### 4 CONTRAINDICATIONS

DEXTENZA is contraindicated in patients with active corneal, conjunctival or canalicular infections, including epithelial herpes simplex keratitis (dendritic keratitis), vaccinia, varicella; mycobacterial infections; fungal diseases of the eye, and dacryocystitis.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Intraocular Pressure Increase

Prolonged use of corticosteroids may result in glaucoma with damage to the optic nerve, defects in visual acuity and fields of vision. Steroids should be used with caution in the presence of glaucoma. Intraocular pressure should be monitored during the course of the treatment.

#### 5.2 Bacterial Infection

Corticosteroids may suppress the host response and thus increase the hazard for secondary ocular infections. In acute purulent conditions, steroids may mask infection and enhance existing infection [see *Contraindications (4)*].

#### 5.3 Viral Infections

Use of ocular steroids may prolong the course and may exacerbate the severity of many viral infections of the eye (including herpes simplex) [see *Contraindications (4)*].

#### 5.4 Fungal Infections

Fungus invasion must be considered in any persistent corneal ulceration where a steroid has been used or is in use. Fungal culture should be taken when appropriate [see *Contraindications (4)*].

#### 5.5 Delayed Healing

The use of steroids after cataract surgery may delay healing and increase the incidence of bleb formation.

## 6 ADVERSE REACTIONS

The following serious adverse reactions are described elsewhere in the labeling:

- Intraocular Pressure Increase [see *Warnings and Precautions (5.1)*]
- Bacterial Infection [see *Warnings and Precautions (5.2)*]
- Viral Infection [see *Warnings and Precautions (5.3)*]
- Fungal Infection [see *Warnings and Precautions (5.4)*]
- Delayed Healing [see *Warnings and Precautions (5.5)*]

### 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. Adverse reactions associated with ophthalmic steroids include elevated intraocular pressure, which may be associated with optic nerve damage, visual acuity and field defects, posterior subcapsular cataract formation; delayed wound healing; secondary ocular infection from pathogens including herpes simplex, and perforation of the globe where there is thinning of the cornea or sclera [see *Warnings and Precautions (5)*].

DEXTENZA was studied in three randomized, vehicle-controlled studies (n = 351). The mean age of the population was 68 years (range 43 to 87 years), 62% were female, and 85% were white. Forty-six percent had brown iris color and 31% had blue iris color. The most common ocular adverse reactions that occurred in patients treated with DEXTENZA were: anterior chamber inflammation including iritis and iridocyclitis (9%); intraocular pressure increased (5%); visual acuity reduced (2%); eye pain (1%); cystoid macular edema (1%); corneal edema (1%); and conjunctival hyperemia (1%). The most commonly reported adverse reactions that occurred in 1-6% of patients treated with DEXTENZA were increases in intraocular pressure, anterior chamber inflammation, iritis, visual acuity reduced, corneal edema, cystoid macular edema, eye pain, and conjunctival hyperemia.

The most common non-ocular adverse reaction that occurred in patients treated with DEXTENZA was headache (1%).

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

There are no adequate or well-controlled studies with DEXTENZA in pregnant women to inform a drug-associated risk for major birth defects and miscarriage. In animal reproduction studies, administration of topical ocular dexamethasone to pregnant mice and rabbits during organogenesis produced embryofetal lethality, cleft palate and multiple visceral malformations [see *Animal Data*].

#### Data

##### *Animal Data*

Topical ocular administration of 0.15% dexamethasone (0.75 mg/kg/day) on gestational days 10 to 13 produced embryofetal lethality and a high incidence of cleft palate in a mouse study. A daily dose of 0.75 mg/kg/day in the mouse is approximately 5 times the entire dose of dexamethasone in the DEXTENZA product, on a mg/m<sup>2</sup> basis. In a rabbit study, topical ocular administration of 0.1% dexamethasone throughout organogenesis (0.36 mg/day, on gestational day 6 followed by 0.24 mg/day on gestational days 7-18) produced intestinal anomalies, intestinal aplasia, gastroschisis and hypoplastic kidneys. A daily dose of 0.24 mg/day is approximately 6 times the entire dose of dexamethasone in the DEXTENZA product, on a mg/m<sup>2</sup> basis.

### 8.2 Lactation

Systemically administered corticosteroids appear in human milk and could suppress growth and interfere with endogenous corticosteroid production; however the systemic concentration of dexamethasone following administration of DEXTENZA is low [see *Clinical Pharmacology (12.3)*]. There is no information regarding the presence of DEXTENZA in human milk, the effects of the drug on the breastfed infant or the effects of the drug on milk production to inform risk of DEXTENZA to an infant during lactation. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for DEXTENZA and any potential adverse effects on the breastfed child from DEXTENZA.

### 8.4 Pediatric Use

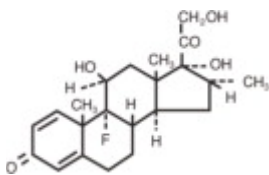
Safety and effectiveness in pediatric patients have not been established.

### 8.5 Geriatric Use

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

## 11 DESCRIPTION

DEXTENZA (dexamethasone ophthalmic insert) is a fluorescent yellow, 3 mm cylindrical-shaped, resorbable, sterile insert for intracanalicular use. DEXTENZA contains 0.4 mg dexamethasone in a polyethylene glycol (PEG) based hydrogel conjugated with fluorescein. DEXTENZA does not contain an antimicrobial preservative. The active ingredient is represented by the chemical structure:



The chemical name for dexamethasone is 9-Fluoro-11 $\beta$ ,17,21-trihydroxy-16 $\alpha$ -methylpregna-1,4-diene-3,20-dione. It has a molecular formula of C<sub>22</sub>H<sub>29</sub>FO<sub>5</sub> and a molecular weight of 392.47 g/mol. Dexamethasone is a crystalline powder.

Each DEXTENZA contains: **Active ingredients:** 0.4 mg dexamethasone. **Inactive ingredients:** 4-arm polyethylene glycol (PEG) N-hydroxysuccinimidyl glutarate (20K), trilycine acetate, N-hydroxysuccinimide-fluorescein, sodium phosphate dibasic, sodium phosphate monobasic, water for injection.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Dexamethasone, a corticosteroid, has been shown to suppress inflammation by inhibiting multiple inflammatory cytokines resulting in decreased edema, fibrin deposition, capillary leakage and migration of inflammatory cells.

### 12.3 Pharmacokinetics

Plasma samples were obtained from 16 healthy volunteers prior to insertion of DEXTENZA and on Day 1 (at 1, 2, 4, 8, 16 hours), 2 (24 hours), 4, 8, 15, 22 and 29 following the insertion of DEXTENZA.

Plasma concentrations of dexamethasone were detectable (above 50 pg/mL, the lower limit of quantification of the assay) in 11% of samples (21 of 189), and ranged from 0.05 ng/mL to 0.81 ng/mL.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No adequate studies in animals have been conducted to determine whether DEXTENZA has the potential for carcinogenesis.

Dexamethasone was not mutagenic in the Ames/Salmonella assay, both with and without metabolic activation. Dexamethasone was genotoxic in two *in vitro* assays using human lymphocytes (chromosomal aberration assay and sister chromatid exchange assay) and was genotoxic in two mouse *in vivo* assays (micronucleus assay and sister chromatid exchange assay).

Fertility studies have not been conducted in animals using DEXTENZA.

## 14 CLINICAL STUDIES

In two randomized, multicenter, double-masked, parallel group, vehicle-controlled trials, patients received DEXTENZA or its vehicle immediately upon completion of cataract surgery. In both trials, DEXTENZA had a higher incidence of subjects who were pain free at all post-operative days. Results are shown in Table 1.

**Table 1: Percentage of Pain-Free Patients**

Visit	Study 1			Study 2		
	Dextenza (N=164) n (%)	Vehicle (N=83) n (%)	Difference (95% CI)	Dextenza (N=161) n (%)	Vehicle (N=80) n (%)	Difference (95% CI)
Day 2	116 (71%)	38 (46%)	25% (12%, 38%)	105 (65%)	32 (40%)	25% (12%, 38%)
Day 4	127 (77%)	43 (52%)	26% (13%, 38%)	117 (73%)	39 (49%)	24% (11%, 37%)
Day 8	131 (80%)	36 (43%)	37% (24%, 49%)	124 (77%)	47 (59%)	18% ( 6%, 31%)

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

DEXTENZA is supplied sterile in a foam carrier within a foil laminate pouch containing:

NDC 70382-204-10      Carton containing 10 pouches (10 inserts)

NDC 70382-204-01      Carton containing 1 pouch (1 insert)

Do not use if pouch has been damaged or broken.

DEXTENZA is intended for single dose only.

**Storage:** Store refrigerated, between 2°C and 8°C (36°F and 46°F). Do not freeze. Protect from light, keep in package until use.

## **17 PATIENT COUNSELING INFORMATION**

Advise patients to consult their surgeon if pain, redness, or itching develops.

### **Ocular Therapeutix™**

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