

DIFLUPREDNATE- difluprednate emulsion

Upsher-Smith Laboratories, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

DIFLUPREDNATE ophthalmic emulsion 0.05%, for topical ophthalmic use
Initial U.S. approval: 2008

INDICATIONS AND USAGE

Difluprednate ophthalmic emulsion is a corticosteroid indicated for:

- The treatment of inflammation and pain associated with ocular surgery (1.1)
- The treatment of endogenous anterior uveitis (1.2)

DOSAGE AND ADMINISTRATION

- For the treatment of inflammation and pain associated with ocular surgery instill one drop into the conjunctival sac of the affected eye 4 times daily beginning 24 hours after surgery and continuing throughout the first 2 weeks of the postoperative period, followed by 2 times daily for a week and then a taper based on the response. (2.1)
- For the treatment of endogenous anterior uveitis instill one drop into the conjunctival sac of the affected eye 4 times daily for 14 days followed by tapering as clinically indicated. (2.2)

DOSAGE FORMS AND STRENGTHS

Ophthalmic emulsion, 0.05%. (3) (3)

CONTRAINDICATIONS

Difluprednate ophthalmic emulsion, as with other ophthalmic corticosteroids, is contraindicated in most active viral diseases of the cornea and conjunctiva including epithelial herpes simplex keratitis (dendritic keratitis), vaccinia, and varicella, and also in mycobacterial infection of the eye and fungal diseases of ocular structures. (4)

WARNINGS AND PRECAUTIONS

- Intraocular Pressure (IOP) Increase – Prolonged use of corticosteroids may result in glaucoma with damage to the optic nerve, defects in visual acuity and fields of vision. If this difluprednate ophthalmic emulsion is used for 10 days or longer, IOP should be monitored. (5.1)
- Cataracts – Use of corticosteroids may result in posterior subcapsular cataract formation. (5.2)
- Delayed Healing – The use of corticosteroids after cataract surgery may delay healing and increase the incidence of bleb formation. (5.3)
- Corneal and Scleral Melting - In those diseases causing thinning of the cornea or sclera, perforations have been known to occur with the use of topical corticosteroids. (4)
- Bacterial Infections – Prolonged use of corticosteroids may suppress the host response and thus increase the hazard of secondary ocular infections. In acute purulent conditions, corticosteroids may mask infection or enhance existing infection. If signs and symptoms fail to improve after 2 days, the patient should be re-evaluated. (5.5)
- Viral Infections – Employment of a corticosteroid medication in the treatment of patients with a history of herpes simplex requires great caution. Use of ocular corticosteroids may prolong the course and may exacerbate the severity of many viral infections of the eye (including herpes simplex). (5.6)
- Fungal Infections – Fungal infections of the cornea are particularly prone to develop coincidentally with long-term local corticosteroid application. Fungus invasion must be considered in any persistent corneal ulceration where a steroid has been used or is in use. (5.6.7)

ADVERSE REACTIONS

For treatment of inflammation and pain associated with ocular surgery, most common adverse reactions (incidence 5% to 15%) are corneal edema, ciliary and conjunctival hyperemia, eye pain, photophobia, posterior capsule opacification, anterior chamber cells, anterior chamber flare, conjunctival edema, and blepharitis. (6)

For treatment of endogenous anterior uveitis, most common adverse reactions (incidence 5% to 10%) are blurred vision, eye irritation, eye pain, headache, increased IOP, iritis, limbal and conjunctival hyperemia,

punctate keratitis, and uveitis. (6)
(6)

To report SUSPECTED ADVERSE REACTIONS, contact Upsher-Smith Laboratories, LLC at 1-855-899-9180 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. (6)

Revised: 10/2025

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Ocular Surgery

Difluprednate ophthalmic emulsion 0.05%, a topical corticosteroid, is indicated for the treatment of inflammation and pain associated with ocular surgery.

1.2 Endogenous Anterior Uveitis

Difluprednate ophthalmic emulsion is indicated for the treatment of endogenous anterior uveitis.

2 DOSAGE AND ADMINISTRATION

2.1 Ocular Surgery

Instill one drop into the conjunctival sac of the affected eye 4 times daily beginning 24 hours after surgery and continuing throughout the first 2 weeks of the postoperative period, followed by 2 times daily for a week and then a taper based on the response.

2.2 Endogenous Anterior Uveitis

Instill one drop into the conjunctival sac of the affected eye 4 times daily for 14 days followed by tapering as clinically indicated.

2.3 Prescribing Guidelines

The initial prescription and renewal of the medication order beyond one bottle should be made by a physician only after examination of the patient with the aid of magnification, such as slit lamp biomicroscopy, and where appropriate, fluorescein staining. If signs and symptoms fail to improve after two days, the patient should be reevaluated.

Not more than one bottle should be prescribed initially, and the prescription should not be refilled without further evaluation.

3 DOSAGE FORMS AND STRENGTHS

Ophthalmic emulsion containing 0.05% difluprednate

4 CONTRAINDICATIONS

Difluprednate ophthalmic emulsion, as with other ophthalmic corticosteroids, is

contraindicated in most active viral diseases of the cornea and conjunctiva including epithelial herpes simplex keratitis (dendritic keratitis), vaccinia, and varicella, and also in mycobacterial infection of the eye and fungal disease of ocular structures.

5 WARNINGS AND PRECAUTIONS

5.1 Intraocular Pressure (IOP) Increase

Prolonged use of corticosteroids may result in glaucoma with damage to the optic nerve, defects in visual acuity and fields of vision. Corticosteroids should be used with caution in the presence of glaucoma. If difluprednate ophthalmic emulsion is used for 10 days or longer, IOP should be routinely monitored.

5.2 Cataracts

The use of corticosteroids may result in posterior subcapsular cataract formation.

5.3 Delayed Healing

The use of corticosteroids after cataract surgery may delay healing and increase the incidence of bleb formation. In those diseases causing thinning of the cornea or sclera, perforations have been known to occur with the use of topical steroids. The initial prescription and renewal of the medication order beyond 28 days should be made by a physician only after examination of the patient with the aid of magnification such as slit lamp biomicroscopy and, where appropriate, fluorescein staining.

5.4 Corneal and Scleral Melting

Various ocular diseases and long-term use of topical corticosteroids have been known to cause corneal and scleral thinning. Use of topical corticosteroids in the presence of thin corneal or scleral tissue may lead to perforation of the globe.

5.5 Bacterial Infections

Prolonged use of corticosteroids may suppress the host response and thus increase the hazard of secondary ocular infections. In acute purulent conditions, corticosteroids may mask infection or enhance existing infection. If signs and symptoms fail to improve after 2 days, the patient should be re-evaluated.

5.5 Bacterial Infections

Prolonged use of corticosteroids may suppress the host response and thus increase the hazard of secondary ocular infections. In acute purulent conditions, steroids may mask infection or enhance existing infection. If signs and symptoms fail to improve after 2 days, the patient should be re-evaluated.

5.6 Viral Infections

Use of ocular corticosteroids may prolong the course and may exacerbate the severity of many viral infections of the eye (including herpes simplex). Employment of a corticosteroid medication in the treatment of patients with a history of herpes simplex requires great caution; frequent slit lamp microscopy is recommended.

5.7 Fungal Infections

Fungal infections of the cornea are particularly prone to develop coincidentally with long-term local corticosteroid application. Fungus invasion must be considered in any persistent corneal ulceration where a corticosteroid has been used or is in use. Fungal culture should be taken when appropriate.

5.8 Topical Ophthalmic Use Only

Difluprednate ophthalmic emulsion is not indicated for intraocular administration.

5.9 Risk of Contamination

Do not allow the dropper tip to touch the eye, eyelids, or any surface, as this may contaminate the ophthalmic emulsion.

5.10 Contact Lens Wear

The anti-microbial preservative in difluprednate ophthalmic emulsion may be absorbed by soft contact lenses. Difluprednate ophthalmic emulsion should not be instilled while wearing contact lenses. Remove contact lenses prior to instillation of difluprednate ophthalmic emulsion. Contact lenses may be reinserted after 10 minutes following administration of difluprednate ophthalmic emulsion.

6 ADVERSE REACTIONS

The following serious reactions are found elsewhere in the labeling:

- Intraocular Pressure (IOP) Increase *[see Warnings and Precautions (5.1)]*
- Cataracts *[see Warnings and Precautions (5.2)]*
- Delayed Healing *[see Warnings and Precautions (5.3)]*
- Corneal and Scleral Melting *[see Warnings and Precautions (5.4)]*
- Bacterial Infections *[see Warnings and Precautions (5.5)]*
- Viral Infections *[see Warnings and Precautions (5.6)]*
- Fungal Infections *[see Warnings and Precautions (5.7)]*

6.1 Ocular Surgery

Ocular adverse reactions occurring in 5% to 15% of subjects in clinical studies with difluprednate ophthalmic emulsion included corneal edema, ciliary and conjunctival hyperemia, eye pain, photophobia, posterior capsule opacification, anterior chamber cells, anterior chamber flare, conjunctival edema, and blepharitis. Other ocular adverse reactions occurring in 1% to 5% of subjects included reduced visual acuity, punctate keratitis, eye inflammation, and iritis. Ocular adverse reactions occurring in less than 1% of subjects included application site discomfort or irritation, corneal pigmentation and striae, episcleritis, eye pruritis, eyelid irritation and crusting, foreign body sensation, increased lacrimation, macular edema, sclera hyperemia, and uveitis. Most of these reactions may have been the consequence of the surgical procedure.

6.2 Endogenous Anterior Uveitis

A total of 200 subjects participated in the clinical trials for endogenous anterior uveitis, of which 106 were exposed to difluprednate ophthalmic emulsion. The most common

adverse reactions of those exposed to difluprednate ophthalmic emulsion occurring in 5% to 10% of subjects included blurred vision, eye irritation, eye pain, headache, increased IOP, iritis, limbal and conjunctival hyperemia, punctate keratitis, and uveitis. Adverse reactions occurring in 2% to 5% of subjects included anterior chamber flare, corneal edema, dry eye, iridocyclitis, photophobia, and reduced visual acuity.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on difluprednate ophthalmic emulsion use in pregnant women to evaluate for a drug-associated risk of major birth defects, miscarriage or other adverse maternal or fetal outcomes.

Systemic exposure to difluprednate ophthalmic emulsion following ocular administration is low [see Clinical Pharmacology (12.3)]. Consequently, the systemic exposure of a pregnant woman to difluprednate is expected to be minimal following topical ocular administration.

In animal reproductive studies, subcutaneous administration of difluprednate to pregnant rabbits and rats throughout organogenesis produced maternal toxicity, embryo-fetal toxicity and teratogenicity in rabbits and fetotoxicity in rats. Administration of difluprednate to rats during late gestation through lactation did not produce adverse maternal, fetal or neonatal effects at clinically relevant doses.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data

Animal Data

In embryofetal development studies, subcutaneous administration of difluprednate to pregnant rats during the period of organogenesis decreased the placental weight, at doses greater than or equal to 10 mcg/kg/day (approximately 0.48-fold higher than the maximum recommended human ophthalmic dose [MRHOD] of 0.2 mg/day, on a mg/m² basis and assuming 100% absorption of the dose). Decreased weight gain and delayed ossification of the fetus were observed at a dose of 100 mcg/kg/day (approximately 4.8-fold higher than the MRHOD). The no-observed-effect level (NOEL) for teratogenic effects was 10 mcg/kg/day. In rabbits, subcutaneous administration of difluprednate during the period of organogenesis produced maternal toxicity, embryofetal lethality, fetal growth retardation and teratogenicity (cleft palate, cerebral hernia, exencephaly, hypogenesis of the first digit of the forelimbs, club hand, umbilical hernia and others) at 10 mcg/kg/day (approximately 0.97-fold the MRHOD on a mg/m² basis and assuming 100% absorption of the dose). The NOEL was 1 mcg/kg/day.

In a peri- or pre-/postnatal study in rats, subcutaneous administration of difluprednate during late gestation through lactation resulted in no abnormalities in postnatal development, growth and behavior or reproductive potential. The NOEL was greater than or equal to 10 mcg/kg/day (the highest dose tested; approximately 0.48-fold higher than the MRHOD on a mg/m² basis and assuming 100% absorption of the dose).

8.2 Lactation

Risk Summary

There are no data on the presence of difluprednate ophthalmic emulsion in human milk, the effects on the breastfed infants, or the effects on milk production to inform risk of difluprednate ophthalmic emulsion to an infant during lactation. Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. The systemic exposure of a breastfeeding woman to difluprednate is expected to be minimal following topical ocular administration, however, the possibility of harm to the breastfed child cannot be ruled out.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for difluprednate ophthalmic emulsion and any potential adverse effects on the breast-fed child from difluprednate ophthalmic emulsion or from the underlying maternal condition.

8.3 Nursing Mothers

It is not known whether topical ophthalmic administration of corticosteroids could result in sufficient systemic absorption to produce detectable quantities in breast milk. Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. Caution should be exercised when difluprednate ophthalmic emulsion is administered to a nursing woman.

8.4 Pediatric Use

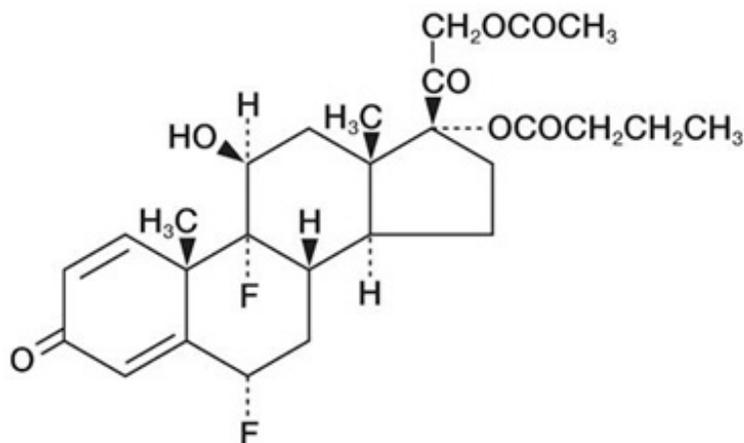
Difluprednate ophthalmic emulsion was evaluated in a 3-month, multicenter, double-masked trial in 79 pediatric patients (39 difluprednate ophthalmic emulsion; 40 prednisolone acetate) 0 to 3 years of age for the treatment of inflammation following cataract surgery. A similar safety profile was observed in pediatric patients comparing difluprednate ophthalmic emulsion to prednisolone acetate ophthalmic suspension, 1%.

8.5 Geriatric Use

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

11 DESCRIPTION

Difluprednate ophthalmic emulsion 0.05% is a sterile, topical anti-inflammatory corticosteroid for topical ophthalmic use. The chemical name is 6 α ,9difluoro-11 β ,17,21trihydroxypregna-1,4-diene-3,20-dione 21-acetate 17-butyrate (CAS number 23674-86-4). Difluprednate is represented by the following structural formula:



Difluprednate has a molecular weight of 508.56 g/mol, and the empirical formula is $C_{27}H_{34}F_2O_7$.

Each mL contains: ACTIVE: difluprednate 0.5 mg (0.05%); INACTIVE: boric acid, castor oil, edetate disodium, glycerin, polysorbate 80, sodium acetate, sodium hydroxide (to adjust the pH to 5.2 to 5.8), and water for injection. The emulsion is essentially isotonic with a tonicity of 304 to 411 mOsm/kg. PRESERVATIVE: sorbic acid 0.1%.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Corticosteroids inhibit the inflammatory response to a variety of inciting agents and may delay or slow healing. They inhibit edema, fibrin deposition, capillary dilation, leukocyte migration, capillary proliferation, fibroblast proliferation, deposition of collagen, and scar formation associated with inflammation. There is no generally accepted explanation for the mechanism of action of ocular corticosteroids. However, corticosteroids are thought to act by the induction of phospholipase A2 inhibitory proteins, collectively called lipocortins. It is postulated that these proteins control the biosynthesis of potent mediators of inflammation such as prostaglandins and leukotrienes by inhibiting the release of their common precursor arachidonic acid. Arachidonic acid is released from membrane phospholipids by phospholipase A2. Difluprednate is structurally similar to other corticosteroids.

12.3 Pharmacokinetics

Difluprednate undergoes deacetylation *in vivo* to 6 α , 9-difluoroprednisolone 17-butyrate (DFB), an active metabolite of difluprednate. Clinical pharmacokinetic studies of difluprednate after repeat ocular instillation of 2 drops of difluprednate (0.01% or 0.05%) four times per day for 7 days showed that DFB levels in blood were below the quantification limit (50 ng/mL) at all time points for all subjects, indicating the systemic absorption of difluprednate after ocular instillation of difluprednate ophthalmic emulsion is limited.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis

Long-term studies have not been conducted to evaluate the carcinogenic potential of difluprednate.

Mutagenesis

Difluprednate was not genotoxic in vitro in the Ames test, and in cultured mammalian cells (CHL/IU a fibroblastic cell line derived from the lungs of newborn female Chinese hamsters) or in an in vivo micronucleus test of difluprednate in mice.

Impairment of Fertility

Treatment of male and female rats with subcutaneous difluprednate up to 10 mcg/kg/day prior to and during mating did not impair fertility in either gender.

13.2 Animal Toxicology and/or Pharmacology

In multiple studies performed in rodents and non-rodents, subchronic and chronic toxicity tests of difluprednate showed systemic effects such as suppression of body weight gain; a decrease in lymphocyte count; atrophy of the lymphatic glands and adrenal gland; and for local effects, thinning of the skin; all of which were due to the pharmacologic action of the molecule and are well known glucocorticosteroid effects. Most, if not all of these effects were reversible after drug withdrawal. The NOEL for the subchronic and chronic toxicity tests were consistent between species and ranged from 1 to 1.25 mcg/kg/day.

14 CLINICAL STUDIES

14.1 Ocular Surgery

Clinical efficacy was evaluated in 2 randomized, double-masked, placebo-controlled trials in which subjects with an anterior chamber cell grade \geq "2" (a cell count of 11 or higher) after cataract surgery were assigned to difluprednate ophthalmic emulsion or placebo (vehicle) following surgery. One drop of difluprednate ophthalmic emulsion or vehicle was self-instilled either 2 times per day or 4 times per day for 14 days, beginning the day after surgery. The presence of complete clearing (a cell count of 0) was assessed 3, 8 and 15 days post-surgery using a slit lamp binocular microscope. In the intent-to-treat analyses of both studies, a significant benefit was seen in the 4 times per day (QID) difluprednate ophthalmic emulsion-treated group in ocular inflammation, at days 8 and 15, and reduction of pain, at days 3, 8 and 15, when compared with placebo. The consolidated clinical trial results are provided below.

Figure 1 Percent of Subjects with Anterior Chamber Cells Clearing (Cell Count = 0)

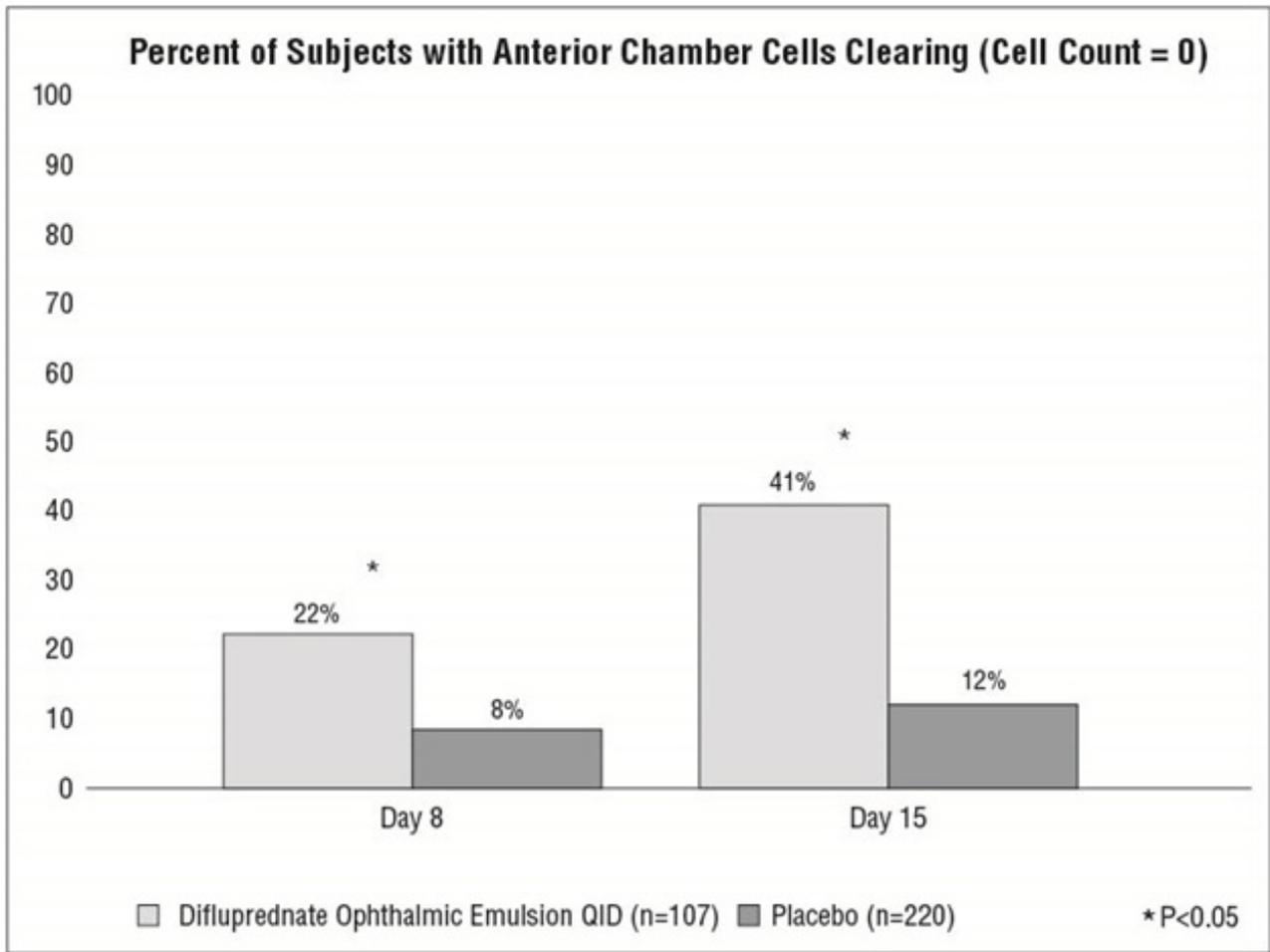
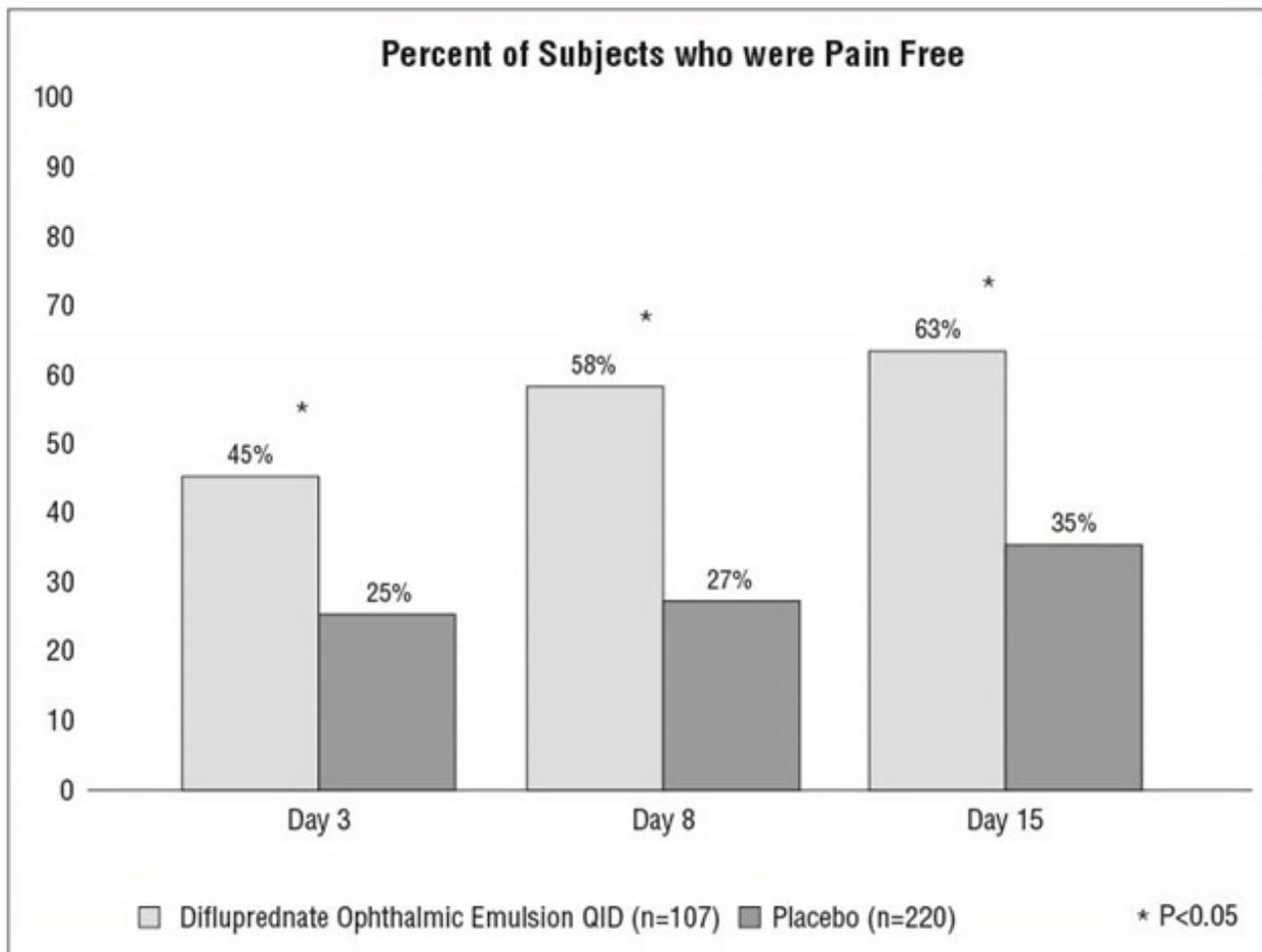


Figure 2 Percent of Subjects who were Pain Free



14.2 Endogenous Anterior Uveitis

Clinical efficacy was evaluated in two randomized, double masked active controlled trials in which patients who presented with endogenous anterior uveitis were treated with either difluprednate ophthalmic emulsion 4 times daily or prednisolone acetate ophthalmic suspension, 1%, 8 times daily for 14 days. Both studies demonstrated that difluprednate ophthalmic emulsion was equally effective as prednisolone acetate ophthalmic suspension, 1% in treating subjects with endogenous anterior uveitis.

Mean Change from Baseline in Anterior Chamber Cell Grade *

Study 1 time point	Difluprednate Ophthalmic Emulsion N=57	Prednisolone Acetate N=53	Difference † (95% CI)
Baseline	2.6	2.5	0.0 (-0.22, 0.28)
Day 3	-1.0	-1.0	-0.1 (-0.35, 0.25)
Day 7	-1.6	-1.5	-0.0 (-0.31, 0.25)
Day 14	-2.0	-1.8	-0.2 (-0.46, 0.10)
Day 21	-2.2	-1.9	-0.3 (-0.53, 0.01)
Day 28	-2.2	-2.1	-0.1 (-0.37, 0.18)
Day 35	-2.1	-2.0	-0.1 (-0.39, 0.20)
Day 42	-2.1	-2.1	0.0 (-0.27, 0.34)

Study 2 time point	Difluprednate Ophthalmic Emulsion N=50	Prednisolone Acetate N=40	Difference † (95% CI)
Baseline	2.4	2.4	0.0 (-0.21, 0.29)
Day 3	-0.9	-0.9	-0.0 (-0.34, 0.25)
Day 7	-1.7	-1.6	-0.1 (-0.35, 0.21)
Day 14	-1.9	-1.8	-0.1 (-0.34, 0.20)
Day 21	-2.0	-2.0	0.0 (-0.25, 0.28)
Day 28	-2.0	-2.0	0.0 (-0.21, 0.26)
Day 35	-2.1	-2.0	-0.1 (-0.32, 0.16)
Day 42	-2.0	-1.9	-0.1 (-0.36, 0.24)

* With 5 grades: 0 = 0 cells; 1 = 1 to 10 cells; 2 = 11 to 20 cells; 3 = 21 to 50 cells; and 4 = >50 cells

† Adjusted for baseline AC cell grade and study center and based on ITT dataset with LOCF for missing data

16 HOW SUPPLIED/STORAGE AND HANDLING

Difluprednate ophthalmic emulsion 0.05% is a sterile, aqueous topical ophthalmic emulsion supplied in an opaque plastic bottle with a controlled drop tip and a pink cap in the following sizes:

5 mL in a 5 mL bottle (NDC 0832-6054-05)

Storage and Handling

Store at 15° to 25°C (59° to 77°F). After opening, difluprednate ophthalmic emulsion can be used until the expiration date on the bottle.

17 PATIENT COUNSELING INFORMATION

When to Consult a Physician

Advise patients to consult a physician if pain develops, or if redness, itching, or inflammation becomes aggravated [see Warnings and Precautions (5.5)].

Risk of Contamination

Advise patients to not allow the dropper tip to touch the eye, eyelids, or any surface, as this may contaminate the ophthalmic emulsion.

Contact Lens Wear

Advise patients to not use difluprednate ophthalmic emulsion while wearing contact lenses. Advise patients to remove contact lenses prior to instillation of difluprednate ophthalmic emulsion. Lenses may be reinserted after 10 minutes following administration of difluprednate ophthalmic emulsion [see Warnings and Precautions (5.9)].

Distributed by

UPSHER-SMITH LABORATORIES, LLC

Maple Grove, MN 55369

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PRINCIPAL DISPLAY PANEL - 5 mL Bottle Carton

NDC 0832-6054-05

Difluprednate

Ophthalmic

Emulsion

0.05%

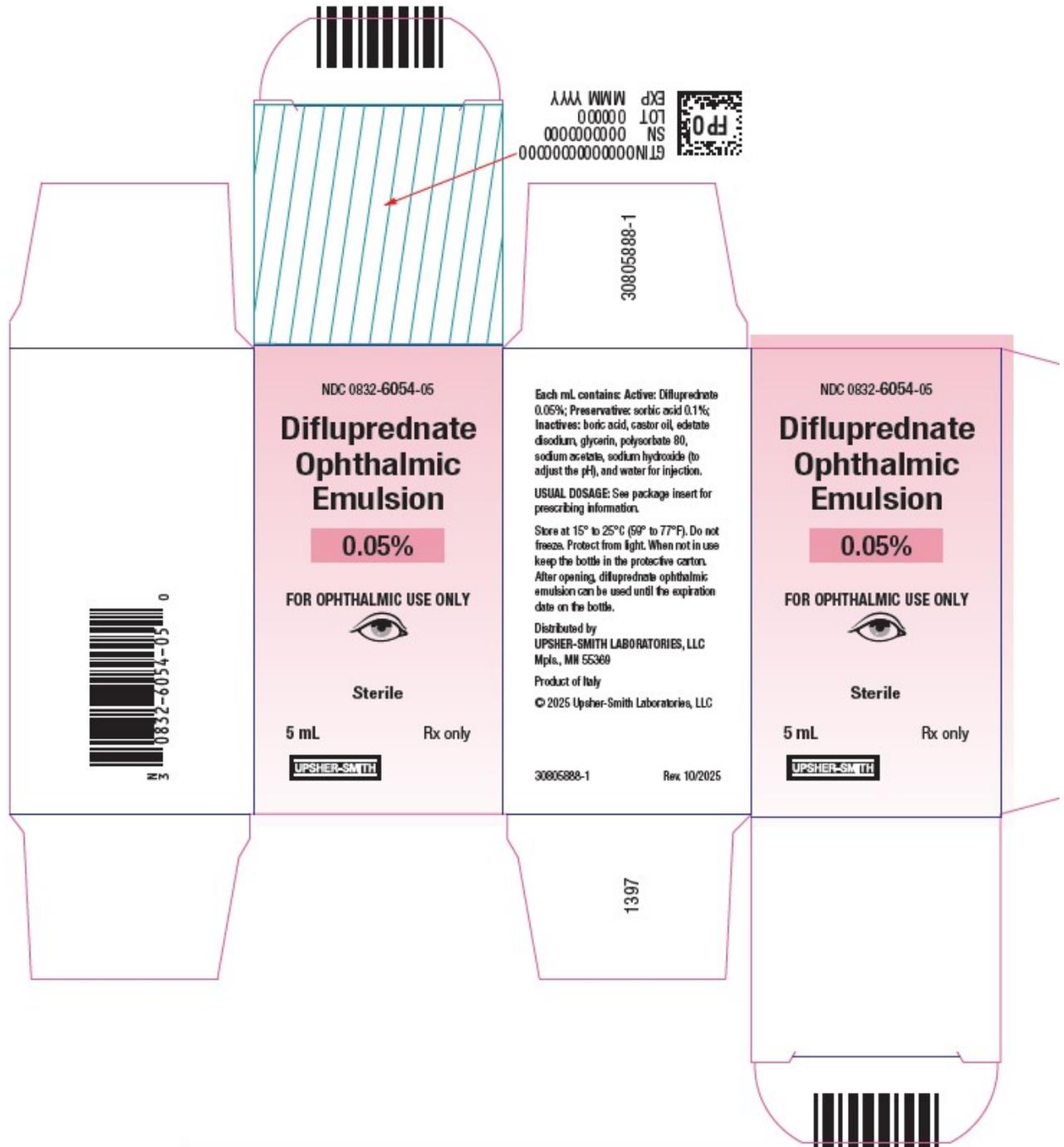
FOR OPHTHALMIC USE ONLY

Sterile

5 mL

Rx only

UPSHER-SMITH



DIFLUPREDNATE

difluprednate emulsion

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0832-6054
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DIFLUPREDNATE (UNII: S8A06QG2QE) (DIFLUPREDNATE - UNII:S8A06QG2QE)	DIFLUPREDNATE	0.5 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
CASTOR OIL (UNII: D5340Y2I9G)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
GLYCERIN (UNII: PDC6A3C0OX)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
SODIUM ACETATE (UNII: 4550K0SC9B)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
WATER (UNII: 059QF0K00R)	
SORBIC ACID (UNII: X045WJ989B)	
BORIC ACID (UNII: R57ZHV85D4)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0832-6054-05	1 in 1 CARTON	08/21/2025	
1		5 mL in 1 BOTTLE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA218191	02/21/2025	

Labeler - Upsher-Smith Laboratories, LLC (047251004)

Establishment

Name	Address	ID/FEI	Business Operations
Rafarm S.A.		506963742	manufacture(0832-6054)

Revised: 2/2026

Upsher-Smith Laboratories, LLC