

## ITCHY ALLERGY EYES?

Use this short questionnaire as a conversation starter for you and your doctor to see if a prescription eyedrop may be right for you.

### BACKGROUND

Is there a history of allergies in your family, especially eye allergies?  Yes  No

Do your allergies mainly affect your eyes, nose, or both?  Eyes  Nose  Both

How long have you had them?

Do they occur only at certain times of the year?  Seasonal  Year-round (perennial)

### SYMPTOMS

Do your allergies cause your eyes to itch?  Yes  
 No

If yes, please explain:

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### LOCATION

Where does your eye allergy itch usually occur?  Indoors  
 Outdoors  
 Both

### TIMING

When does your eye allergy itch bother you?  
Please explain:

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### TREATMENTS

Do you use medication for your eye allergies?  Yes  No

If yes, is it prescription or over-the-counter?  
What product(s) do you use?

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## INDICATION AND DOSING

PAZEO<sup>®</sup> Solution is a prescription medicine used to treat eye itching associated with eye allergies. The recommended dosage is to put one drop in each affected eye once a day.

## IMPORTANT SAFETY INFORMATION

Do not touch dropper tip to eyelids or surrounding areas. Touching may contaminate the dropper tip and PAZEO<sup>®</sup> Solution. Keep the bottle tightly closed when it is not in use.

Do not wear contact lenses if your eyes are red. PAZEO<sup>®</sup> Solution should not be used to treat contact lens-related irritation. Always remove your contact lenses before administering PAZEO<sup>®</sup> Solution.

# Once-daily prescription PAZEO<sup>®</sup> Solution may be the right drop for you

## Discover the 24-Hour Relief of PAZEO<sup>®</sup> Solution

- The first and only FDA-approved prescription eye drop proven to show 24 hours of eye allergy itch relief in one drop<sup>1</sup>
- Well tolerated<sup>1</sup>
- The safety and effectiveness of **PAZEO<sup>®</sup> Solution** have been established in patients 2 years of age and older<sup>1</sup>
- In a clinical study with **PAZEO<sup>®</sup> Solution**, the most common side effects occurred in approximately 2% to 5% of patients. These side effects were blurred vision, dry eye, superficial punctate keratitis (a type of inflammation on the front part of the eye), impaired taste, and abnormal sensation in the eye<sup>1</sup>

## IMPORTANT SAFETY INFORMATION (cont'd)

PAZEO<sup>®</sup> Solution contains the preservative benzalkonium chloride (BAK). BAK may be absorbed by soft contact lenses. If you wear soft contacts, you should wait at least five minutes after administering PAZEO<sup>®</sup> Solution before inserting your contacts.

In a clinical study with PAZEO<sup>®</sup> Solution, the most common side effects occurred in approximately 2% to 5% of patients. These side effects were blurred vision, dry eye, superficial punctate keratitis (a type of inflammation on the front part of the eye), impaired taste, and abnormal sensation in the eye.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit [www.fda.gov/medwatch](http://www.fda.gov/medwatch), or call 1-800-FDA-1088.

**For additional information on PAZEO<sup>®</sup> Solution, please refer to the accompanying full Prescribing Information**

**REFERENCE:** 1. PAZEO<sup>®</sup> Solution Package Insert.

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use PAZEO<sup>\*</sup> safely and effectively. See full prescribing information for PAZEO.

**PAZEO (olopatadine hydrochloride ophthalmic solution) 0.7%**

For topical ophthalmic administration.

Initial U.S. Approval: 1996

**INDICATIONS AND USAGE**

PAZEO is a mast cell stabilizer indicated for the treatment of ocular itching associated with allergic conjunctivitis. (1)

**DOSAGE AND ADMINISTRATION**

The recommended dose is one drop in each affected eye once a day. (2)

**DOSAGE FORMS AND STRENGTHS**

Ophthalmic solution: 7.76 mg of olopatadine hydrochloride in one mL of solution (0.7%) in a four mL bottle. (3)

**CONTRAINDICATIONS**

None.

**WARNINGS AND PRECAUTIONS**

Contamination of Tip and Solution. To prevent contaminating the dropper tip and solution, do not touch the eyelids or surrounding areas with the dropper tip of the bottle. (5.1)

**ADVERSE REACTIONS**

The most common adverse reactions (2-5%) were blurred vision, superficial punctate keratitis, dry eye, abnormal sensation in eye, and dysgeusia. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Alcon Laboratories, Inc. at 1-800-757-9195 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

See 17 for PATIENT COUNSELING INFORMATION and FDA approved patient labeling.

Revised: 1/2015

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

**FULL PRESCRIBING INFORMATION**

**1 INDICATIONS AND USAGE**

PAZEO is indicated for the treatment of ocular itching associated with allergic conjunctivitis.

**2 DOSAGE AND ADMINISTRATION**

The recommended dosage of PAZEO is to instill one drop in each affected eye once a day.

**3 DOSAGE FORMS AND STRENGTHS**

Ophthalmic solution: 7.76 mg of olopatadine hydrochloride in one mL solution (0.7%) in a 4 mL bottle.

**4 CONTRAINDICATIONS**

None.

**5 WARNINGS AND PRECAUTIONS**

**5.1 Contamination of Tip and Solution**

As with any eye drop, care should be taken not to touch the eyelids or surrounding areas with the dropper tip of the bottle to prevent contaminating the tip and solution. Keep bottle tightly closed when not in use.

**5.2 Contact Lens Use**

Patients should not wear a contact lens if their eye is red.

The preservative in PAZEO solution, benzalkonium chloride, may be absorbed by soft contact lenses. Patients who wear soft contact lenses and whose eyes are not red, should be instructed to wait at least five minutes after instilling PAZEO before they insert their contact lenses.

**6 ADVERSE REACTIONS**

**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.

In a randomized, double-masked, vehicle-controlled trial, patients at risk for developing allergic conjunctivitis received one drop of either PAZEO (N=330) or vehicle (N=169) in both eyes for 6 weeks. The mean age of the population was 32 years (range 2 to 74 years). Thirty-five percent were male. Fifty-three percent had brown iris color and 23% had blue iris color. The most commonly reported adverse reactions occurred in 2-5% of patients treated with either PAZEO or vehicle. These events were blurred vision, dry eye, superficial punctate keratitis, dysgeusia and abnormal sensation in eye.

**8 USE IN SPECIFIC POPULATIONS**

**8.1 Pregnancy**

*Risk Summary*

There are no adequate or well-controlled studies with PAZEO Solution in pregnant women. Olopatadine caused maternal toxicity and embryofetal toxicity in rats at levels 1,080 to 14,400 times the maximum recommended human ophthalmic dose (MRHOD). There was no toxicity in rat offspring at exposures estimated to be 45 to 150 times that at MRHOD. Olopatadine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

*Animal Data*

In a rabbit embryofetal study, rabbits treated orally at 400 mg/kg/day during organogenesis showed a decrease in live fetuses. This dose is 14,400 times the MRHOD, on a mg/m<sup>2</sup> basis.

An oral dose of 600 mg/kg/day olopatadine (10,800 times the MRHOD) was shown to be maternally toxic in rats, producing death and reduced maternal body weight gain. When administered to rats throughout organogenesis, olopatadine produced cleft palate at 60 mg/kg/day (1080 times the MRHOD) and decreased embryofetal viability and reduced fetal weight in rats at 600 mg/kg/day. When administered to rats during late gestation and throughout the lactation period, olopatadine produced decreased neonatal survival at 60 mg/kg/day and reduced body weight gain in offspring at 4 mg/kg/day. A dose of 2 mg/kg/day olopatadine produced no toxicity in rat offspring. An oral dose of 1 mg/kg olopatadine in rats resulted in a range of systemic plasma area under the curve (AUC) levels that were 45 to 150 times higher than the observed human exposure [9.7 ng-hr/mL] following administration of the recommended human ophthalmic dose.

**8.3 Nursing Mothers**

Olopatadine has been identified in the milk of nursing rats following oral administration. Oral administration of olopatadine doses at or above 4 mg/kg/day throughout the lactation period produced decreased body weight gain in rat offspring; a dose of 2 mg/kg/day olopatadine produced no toxicity. An oral dose of 1 mg/kg olopatadine in rats resulted in a range of systemic plasma area under the curve (AUC) levels that were 45 to 150 times higher than the observed human exposure [9.7 ng-hr/mL] following administration of the recommended human ophthalmic dose. It is not known whether topical ocular administration could result in sufficient systemic absorption to produce detectable quantities in the human breast milk. Nevertheless, caution should be exercised when PAZEO is administered to a nursing mother.

## 8.4 Pediatric Use

The safety and effectiveness of PAZEO have been established in pediatric patients two years of age and older. Use of PAZEO in these pediatric patients is supported by evidence from adequate and well-controlled studies of PAZEO in adults and an adequate and well controlled study evaluating the safety of PAZEO in pediatric and adult patients.

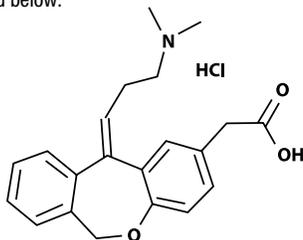
## 8.5 Geriatric Use

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

## 11 DESCRIPTION

PAZEO is a sterile ophthalmic solution containing olopatadine, which is a mast cell stabilizer, for topical administration to the eyes. Olopatadine hydrochloride is a white, crystalline, water-soluble powder with a molecular weight of 373.88 and a molecular formula of  $C_{21}H_{23}NO_3 \cdot HCl$ .

The chemical structure is presented below:



Chemical Name: 11-[(Z)-3-(dimethylamino) propylidene]-6-11 dihydrodibenz[b,e] oxepin-2-acetic acid, hydrochloride.

Each mL of PAZEO solution contains an active ingredient [7.76 mg of olopatadine hydrochloride (7 mg olopatadine)] and the following inactive ingredients: povidone; hydroxypropyl-gamma-cyclodextrin; polyethylene glycol 400; hydroxypropyl methylcellulose; boric acid; mannitol; benzalkonium chloride 0.015% (preservative); hydrochloric acid/sodium hydroxide (to adjust pH); and purified water.

PAZEO solution has a pH of approximately 7.2 and an osmolality of approximately 300 mOsm/kg.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Olopatadine is a mast cell stabilizer and a histamine  $H_1$  antagonist. Decreased chemotaxis and inhibition of eosinophil activation has also been demonstrated.

### 12.3 Pharmacokinetics

In healthy subjects, topical ocular dosing of 1 drop of PAZEO once daily for 7 days into both eyes resulted in mean  $\pm$  SD (range) steady state plasma olopatadine  $C_{max}$  and  $AUC_{0-12}$  of  $1.6 \pm 0.9$  ng/mL (0.6 to 4.5 ng/mL) and  $9.7 \pm 4.4$  ng\*h/mL (3.7 to 21.2 ng\*h/mL), respectively. The olopatadine  $C_{max}$  and  $AUC_{0-12}$  after the first dose were similar to those measured on day 7 in these subjects, suggesting that there was no systemic accumulation of olopatadine after repeated topical ocular dosing with PAZEO. The median (range) time to achieve peak olopatadine concentrations ( $T_{max}$ ) was 2.0 hours (0.25 to 4 hours). The mean  $\pm$  SD (range) elimination half-life of olopatadine was  $3.4 \pm 1.2$  hours (2 to 8 hours). N-oxide olopatadine (M3) was detected during the first 4 hours after bilateral topical ocular dosing of PAZEO in approximately half of the subjects and in less than 10% of the total plasma samples collected, at concentrations not exceeding 0.121 ng/mL on day 1 and 0.174 ng/mL on day 7. None of the plasma samples from these subjects had mono-desmethyl olopatadine (M1) concentrations that were above the lower limit of quantitation (0.05 ng/mL) of the PK assay.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenicity

Olopatadine administered orally was not carcinogenic in mice and rats in doses up to 500 mg/kg/day and 200 mg/kg/day, respectively. Based on a 35  $\mu$ L drop size and a 60 kg person, these doses are approximately 4,500 and 3,600 times the MRHOD, on a mg/m<sup>2</sup> basis.

#### Mutagenesis

No mutagenic potential was observed when olopatadine was tested in an *in vitro* bacterial reverse mutation (Ames) test, an *in vitro* mammalian chromosome aberration assay or an *in vivo* mouse micronucleus test.

#### Impairment of fertility

Olopatadine administered at an oral dose of 400 mg/kg/day (approximately 7,200 times the MRHOD) produced toxicity in male and female rats, and resulted in a decrease in the fertility index and reduced implantation rate. No effects on reproductive function were observed at 50 mg/kg/day (approximately 900 times the MRHOD).

## 14 CLINICAL STUDIES

The efficacy of PAZEO was established in two randomized, double-masked, placebo-controlled, conjunctival allergen challenge (CAC) clinical studies in patients with a history of allergic conjunctivitis (Studies 1 and 2).

In Study 1, patients were randomized to receive one of the following study treatments: PAZEO, PATADAY, or vehicle ophthalmic solutions. In Study 2, patients were randomized to receive one of the following study treatments: PAZEO, PATADAY, PATANOL, or vehicle ophthalmic solutions. Patients were evaluated with an ocular itching severity score ranging from 0 (no itching) to 4 (incapacitating itch) at several time points after CAC administration. Table 1 displays the mean

ocular itching severity scores after ocular administration of a specific antigen using the CAC model in Studies 1 and 2, respectively. A one unit difference compared to vehicle is considered a clinically meaningful change in the ocular itching severity score.

PAZEO demonstrated statistically significantly improved relief of ocular itching compared to vehicle at 30-34 minutes, 16 hours, and 24 hours after study treatment. PAZEO demonstrated statistically significantly improved relief of ocular itching compared to PATADAY at 24 hours after study treatment, but not at 30-34 minutes after study treatment.

**Table 1. Itching Scores by Treatment Group and Treatment Difference\* in Mean Itching**

	Time Point	PAZEO (Olopatadine, 0.7%) (N = 66)	PATADAY (Olopatadine, 0.2%) (N = 68)	Vehicle (N = 68)		
Study 1		Mean	Mean	Difference (95% CI)		
				Mean		
				Difference (95% CI)		
Onset	3 mins	0.36	0.39	-0.02 (-0.31, 0.26)	1.90	-1.54 (-1.82, -1.25)
	5 mins	0.53	0.61	-0.08 (-0.39, 0.22)	2.06	-1.53 (-1.84, -1.22)
	7 mins	0.48	0.61	-0.13 (-0.44, 0.17)	1.97	-1.49 (-1.80, -1.18)
16h	3 mins	0.70	0.87	-0.17 (-0.44, 0.11)	2.20	-1.50 (-1.77, -1.23)
	5 mins	0.79	1.04	-0.24 (-0.55, 0.07)	2.27	-1.48 (-1.79, -1.16)
	7 mins	0.75	0.98	-0.23 (-0.54, 0.08)	2.13	-1.38 (-1.69, -1.07)
24h	3 mins	0.93	1.41	-0.48 (-0.76, -0.20)	2.54	-1.61 (-1.88, -1.33)
	5 mins	1.10	1.52	-0.42 (-0.72, -0.12)	2.62	-1.51 (-1.81, -1.21)
	7 mins	1.09	1.50	-0.41 (-0.72, -0.10)	2.50	-1.41 (-1.72, -1.11)
Study 2		(N = 98)	(N = 99)	(N = 49)		
Onset	3 mins	0.38	0.47	-0.09 (-0.28, 0.09)	1.91	-1.53 (-1.76, -1.30)
	5 mins	0.53	0.61	-0.08 (-0.29, 0.12)	1.99	-1.46 (-1.71, -1.22)
	7 mins	0.65	0.61	0.04 (-0.18, 0.26)	1.82	-1.17 (-1.45, -0.90)
24h	3 mins	1.01	1.33	-0.31 (-0.57, -0.06)	2.30	-1.29 (-1.60, -0.97)
	5 mins	1.22	1.48	-0.26 (-0.51, -0.01)	2.37	-1.15 (-1.46, -0.84)
	7 mins	1.25	1.41	-0.16 (-0.42, 0.11)	2.14	-0.89 (-1.22, -0.57)

\* Mean score estimates, treatment differences and corresponding 95% confidence intervals (CIs) were based on analysis of repeated measures using a mixed model with itching scores from each eye (left or right) as the dependent variable and fixed effect terms for investigator, treatment, eye-type (left or right), time, and treatment-by-time interaction; The ocular itching score range is 0-4, where 0 is none and 4 is incapacitating itch.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

PAZEO (olopatadine hydrochloride ophthalmic solution) 0.7% is supplied in a white, oval, low density polyethylene DROP-TAINER® dispenser with a natural low density polyethylene dispensing plug and a white polypropylene cap. Tamper evidence is provided with a shrink band around the closure and neck area of the package. PAZEO is supplied in a 4 mL bottle that contains 2.5 mL of olopatadine hydrochloride ophthalmic solution [7.76 mg of olopatadine hydrochloride in one mL of solution (0.7%)].  
NDC 0065-4273-25

**Storage:** Store at 2°C to 25°C (36°F to 77°F). Keep bottle tightly closed when not in use.

## 17 PATIENT COUNSELING INFORMATION

- **Risk of Contamination:** Advise patients to not touch dropper tip to eyelids or surrounding areas, as this may contaminate the dropper tip and ophthalmic solution.
- **Concomitant Use of Contact Lenses:** Advise patients not to wear contact lenses if their eyes are red. Advise patients that PAZEO should not be used to treat contact lens-related irritation. Advise patients to remove contact lenses prior to instillation of PAZEO.

The preservative in PAZEO solution, benzalkonium chloride, may be absorbed by soft contact lenses. Lenses may be reinserted 5 minutes following administration of PAZEO.

**Patents:** 8,791,154