

# **AZELASTINE HYDROCHLORIDE - azelastine hydrochloride spray, metered**

## **Aurobindo Pharma Limited**

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### **HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use **AZELASTINE HYDROCHLORIDE NASAL SPRAY** safely and effectively. See full prescribing information for **AZELASTINE HYDROCHLORIDE NASAL SPRAY**.

**AZELASTINE HYDROCHLORIDE** nasal spray, for intranasal use

Initial U.S. Approval: 1996

### **INDICATIONS AND USAGE**

Azelastine hydrochloride nasal spray is an H<sub>1</sub>-receptor antagonist indicated for the relief of the symptoms of:

- Seasonal allergic rhinitis in patients 6 years of age and older. (1.1)
- Perennial allergic rhinitis in patients 6 years of age and older. (1.1)

### **DOSAGE AND ADMINISTRATION**

- For intranasal use only (2.3)
- Seasonal allergic rhinitis:
  - *6 to 11 years:* Azelastine hydrochloride nasal spray 0.15%: 1 spray per nostril twice daily (2.1)
  - *Adults and adolescents 12 years of age and older:*
    - Azelastine hydrochloride nasal spray 0.15%: 1 or 2 sprays per nostril twice daily (2.1), or
    - Azelastine hydrochloride nasal spray 0.15%: 2 sprays per nostril once daily (2.1)
- Perennial allergic rhinitis:
  - *6 to 11 years:* Azelastine hydrochloride nasal spray 0.15%: 1 spray per nostril twice daily (2.2)
  - *Adults and adolescents 12 years of age and older:* Azelastine hydrochloride nasal spray 0.15%: 2 sprays per nostril twice daily (2.2)
- Prime azelastine hydrochloride nasal spray before initial use and when it has not been used for 3 or more days. (2.3)

### **DOSAGE FORMS AND STRENGTHS**

- Azelastine Hydrochloride Nasal Spray 0.15%: 205.5 mcg of azelastine hydrochloride in each 0.137 mL spray (3).

### **CONTRAINDICATIONS**

None. (4)

### **WARNINGS AND PRECAUTIONS**

- Somnolence: Avoid engaging in hazardous occupations requiring complete mental alertness such as driving or operating machinery when taking azelastine hydrochloride nasal spray (5.1)
- Avoid concurrent use of alcohol and other central nervous system (CNS) depressants: with azelastine hydrochloride nasal spray because further decreased alertness and impairment of CNS performance may occur. (5.1)

### **ADVERSE REACTIONS**

The most common adverse reactions ( $\geq 2\%$  incidence) are: pyrexia, dysgeusia, nasal discomfort, epistaxis, headache, sneezing, fatigue, somnolence, upper respiratory infection, cough, rhinalgia, vomiting, otitis media, contact dermatitis, and oropharyngeal pain (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc. at 1-866-850-2876 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: 10/2020**

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

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Allergic Rhinitis**

Azelastine Hydrochloride Nasal Spray is indicated for the relief of the symptoms of seasonal allergic rhinitis in patients 6 years of age and older and perennial allergic rhinitis

in patients 6 years of age and older.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Seasonal Allergic Rhinitis**

Children 6 to 11 years of age: Azelastine hydrochloride nasal spray 0.15%, 1 spray per nostril twice daily.

Adults and adolescents 12 years of age and older: Azelastine hydrochloride nasal spray 0.15%, 1 or 2 sprays per nostril twice daily. Azelastine hydrochloride nasal spray 0.15% may also be administered as 2 sprays per nostril once daily.

### **2.2 Perennial Allergic Rhinitis**

Children 6 to 11 years of age: Azelastine hydrochloride nasal spray 0.15%, 1 spray per nostril twice daily.

Adults and adolescents 12 years of age and older: Azelastine hydrochloride nasal spray 0.15%, 2 sprays per nostril twice daily.

### **2.3 Important Administration Instructions**

Administer azelastine hydrochloride nasal spray by the intranasal route only.

Priming: Prime azelastine hydrochloride nasal spray before initial use by releasing 6 sprays or until a fine mist appears. When azelastine hydrochloride nasal spray has not been used for 3 or more days, reprime with 2 sprays or until a fine mist appears.

Avoid spraying azelastine hydrochloride nasal spray into the eyes.

## **3 DOSAGE FORMS AND STRENGTHS**

- Each spray of azelastine hydrochloride nasal spray 0.15% delivers a volume of 0.137 mL solution containing 205.5 mcg of azelastine hydrochloride.

## **4 CONTRAINDICATIONS**

None.

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Activities Requiring Mental Alertness**

In clinical trials, the occurrence of somnolence has been reported in some patients taking azelastine hydrochloride nasal spray [see *Adverse Reactions* (6.1)]. Patients should be cautioned against engaging in hazardous occupations requiring complete mental alertness and motor coordination such as operating machinery or driving a motor vehicle after administration of azelastine hydrochloride nasal spray. Concurrent use of azelastine hydrochloride nasal spray with alcohol or other central nervous system

depressants should be avoided because additional reductions in alertness and additional impairment of central nervous system performance may occur [see *Drug Interactions* (7.1)].

## 6 ADVERSE REACTIONS

Use of azelastine hydrochloride nasal spray has been associated with somnolence [see *Warnings and Precautions* (5.1)].

### 6.1 Clinical Trials Experience

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

#### *Children 6 to 11 years of age*

In a 4 week clinical trial, 489 patients ages 6 to 11 years with perennial allergic rhinitis, with or without concomitant seasonal allergic rhinitis, were treated with either azelastine hydrochloride nasal spray 0.1%, azelastine hydrochloride nasal spray 0.15% or placebo, one spray per nostril twice daily. Overall, adverse events were similar in the azelastine hydrochloride nasal spray 0.15% group (24%), azelastine hydrochloride nasal spray 0.1% group (26%) and the placebo group (24%). Overall, less than 1% of the combined azelastine hydrochloride nasal spray groups discontinued due to adverse events.

Table 2 contains adverse reactions reported with frequencies greater than or equal to 2% and more frequently than placebo in children 6 to 11 years of age treated with azelastine hydrochloride nasal spray 0.1% or azelastine hydrochloride nasal spray 0.15% in the controlled trial described above.

**Table 2. Adverse Reactions Reported in  $\geq 2\%$  Incidence in a Placebo-Controlled Trial of 4 Weeks' Duration with azelastine hydrochloride nasal spray 0.1% or azelastine hydrochloride nasal spray 0.15% in Children 6 to 11 Years of Age with Perennial Allergic Rhinitis**

	1 spray twice daily		
	Azelastine Hydrochloride Nasal Spray 0.1% (N=166)	Azelastine Hydrochloride Nasal Spray 0.15% (N=161)	Vehicle Placebo (N=162)
Epistaxis	8 (5%)	7 (4%)	5 (3%)
Nasal Discomfort	1 (<1%)	7 (4%)	0 (0%)
Dysgeusia	4 (2%)	6 (4%)	1 (<1%)
Upper respiratory infection	4 (2%)	4 (3%)	3 (2%)
Sneezing	3 (2%)	4 (3%)	2 (1%)

#### *Children 6 months to 5 years*

In a 4 week clinical trial, 191 patients ages 6 months to 5 years with either seasonal and/or perennial allergic rhinitis were treated with either azelastine hydrochloride nasal spray 0.1% or azelastine hydrochloride nasal spray 0.15% one spray per nostril twice daily. The most frequently ( $\geq 2\%$ ) reported adverse reactions were pyrexia, cough, epistaxis, sneezing, dysgeusia, rhinalgia, upper respiratory infection, vomiting, otitis media, contact dermatitis, and oropharyngeal pain. Overall, adverse events were slightly higher in the azelastine hydrochloride nasal spray 0.15% group (28%) compared to azelastine hydrochloride nasal spray 0.1% group (21%). Focused nasal examinations were performed and showed no incidence of nasal mucosal ulceration at any time point during the study. No patients had reports of nasal septal perforation. Overall, less than 3% of the combined azelastine hydrochloride nasal spray groups discontinued due to adverse events.

### Azelastine Hydrochloride Nasal Spray 0.15%

The safety data described below reflect exposure to azelastine hydrochloride nasal spray 0.15% in 2,114 patients (6 months of age and older) with seasonal or perennial allergic rhinitis from 10 clinical trials of 2 weeks to 12 months duration. In 8 double-blind, placebo-controlled clinical trials of 2 to 4 weeks duration, 1,703 patients (646 males and 1,059 females) with seasonal or perennial allergic rhinitis were treated with azelastine hydrochloride nasal spray 0.15% one or two sprays per nostril once or twice daily. In the 12 month open-label, active-controlled clinical trial, 466 patients (156 males and 310 females) with perennial allergic rhinitis were treated with azelastine hydrochloride nasal spray 0.15% two sprays per nostril twice daily. Of these 466 patients, 152 had participated in the 4-week placebo-controlled perennial allergic rhinitis clinical trials. In a 4-week, double-blind, placebo-controlled clinical trial, 161 patients (87 males and 74 females) ages 6 to 11 years of age with perennial allergic rhinitis, with or without concomitant seasonal allergic rhinitis, were treated with azelastine hydrochloride nasal spray 0.15% one spray per nostril twice daily. In a 4-week clinical trial, 95 patients (59 males and 36 females) ages 6 months to 5 years of age with seasonal and/or perennial allergic rhinitis were treated with azelastine hydrochloride nasal spray 0.15% one spray per nostril twice daily. The racial distribution for the 10 clinical trials was 79% white, 14% black, 2% Asian, and 5% other.

### *Adults and Adolescents 12 Years of Age and Older*

In the 7 placebo controlled clinical trials of 2 to 4 week duration, 2,343 patients with seasonal allergic rhinitis and 540 patients with perennial allergic rhinitis were treated with two sprays per nostril of either azelastine hydrochloride nasal spray 0.15% or placebo once or twice daily. Overall, adverse reactions were more common in the azelastine hydrochloride nasal spray 0.15% treatment groups (16 to 31%) than in the placebo groups (11 to 24%). Overall, less than 2% of patients discontinued due to adverse reactions and withdrawal due to adverse reactions was similar among the treatment groups.

Table 3 contains adverse reactions reported with frequencies greater than or equal to 2% and more frequently than placebo in patients treated with azelastine hydrochloride nasal spray 0.15% in the seasonal and perennial allergic rhinitis controlled clinical trials.

### **Table 3. Adverse Reactions with $\geq 2\%$ Incidence in Placebo-Controlled Trials**

## of 2 to 4 Weeks' Duration with Azelastine Hydrochloride Nasal Spray 0.15% in Adult and Adolescent Patients With Seasonal or Perennial Allergic Rhinitis

	2 sprays twice daily		2 sprays once daily	
	Azelastine Hydrochloride Nasal Spray 0.15% (N=523)	Vehicle Placebo (N=523)	Azelastine Hydrochloride Nasal Spray 0.15% (N=1,021)	Vehicle Placebo (N=816)
Bitter Taste	31 (6%)	5 (1%)	38 (4%)	2 (<1%)
Nasal Discomfort	18 (3%)	12 (2%)	37 (4%)	7 (1%)
Epistaxis	5 (1%)	7 (1%)	21 (2%)	14 (2%)
Sneezing	9 (2%)	1 (<1%)	14 (1%)	0 (0%)

In the above trials, somnolence was reported in <1% of patients treated with azelastine hydrochloride nasal spray 0.15% (11 of 1,544) or vehicle placebo (1 of 1,339).

### Long-Term (12 Month) Safety Trial

In the 12 month, open-label, active-controlled, long-term safety trial, 466 patients (12 years of age and older) with perennial allergic rhinitis were treated with azelastine hydrochloride nasal spray 0.15% two sprays per nostril twice daily and 237 patients were treated with mometasone nasal spray two sprays per nostril once daily. The most frequently reported adverse reactions (>5%) with azelastine hydrochloride nasal spray 0.15% were bitter taste, headache, sinusitis, and epistaxis. Focused nasal examinations were performed and no nasal ulcerations or septal perforations were observed. In each treatment group, approximately 3% of patients had mild epistaxis. No patients had reports of severe epistaxis. Fifty-four patients (12%) treated with azelastine hydrochloride nasal spray 0.15% and 17 patients (7%) treated with mometasone nasal spray discontinued from the trial due to adverse events.

## 6.2 Postmarketing Experience

During the post approval use of azelastine hydrochloride nasal spray 0.1% and azelastine hydrochloride nasal spray 0.15%, the following adverse reactions have been identified. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Adverse reactions reported include: abdominal pain, atrial fibrillation, blurred vision, chest pain, confusion, disturbance or loss of sense of smell and/or taste, dizziness, dyspnea, facial swelling, hypertension, involuntary muscle contractions, nasal burning, nausea, nervousness, palpitations, paresthesia, parosmia, pruritus, rash, sneezing, insomnia, sweet taste, tachycardia, and throat irritation.

Additionally, the following adverse reactions have been identified during the post approval use of the Astelin brand of azelastine hydrochloride 0.1% nasal spray (total daily dose 0.55 mg to 1.1 mg). Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Adverse reactions reported include the following: anaphylactoid reaction, application site irritation, facial edema, paroxysmal

sneezing, tolerance, urinary retention, and xerophthalmia.

## **7 DRUG INTERACTIONS**

### **7.1 Central Nervous System Depressants**

Concurrent use of Azelastine Hydrochloride Nasal Spray with alcohol or other central nervous system depressants should be avoided because reductions in alertness and impairment of central nervous system performance may occur [see *Warnings and Precautions* (5.1)].

### **7.2 Erythromycin and Ketoconazole**

Interaction studies investigating the cardiac effects, as measured by the corrected QT interval (QTc), of concomitantly administered oral azelastine hydrochloride and erythromycin or ketoconazole were conducted. Oral erythromycin (500 mg three times daily for 7 days) had no effect on azelastine pharmacokinetics or QTc based on analyses of serial electrocardiograms. Ketoconazole (200 mg twice daily for 7 days) interfered with the measurement of azelastine plasma concentrations on the analytic HPLC; however, no effects on QTc were observed [see *Clinical Pharmacology* (12.2) and (12.3)].

### **7.3 Cimetidine**

Cimetidine (400 mg twice daily) increased the mean  $C_{max}$  and AUC of orally administered azelastine hydrochloride (4 mg twice daily) by approximately 65% [see *Clinical Pharmacology* (12.3)].

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### **Risk Summary**

Limited data from postmarketing experience over decades of use with azelastine hydrochloride nasal spray in pregnant women have not identified any drug associated risks of miscarriage, birth defects, or other adverse maternal or fetal outcomes. In animal reproduction studies, there was no evidence of fetal harm at oral doses approximately 4 times the clinical daily dose. Oral administration of azelastine hydrochloride to pregnant mice, rats, and rabbits, during the period of organogenesis, produced developmental toxicity that included structural abnormalities, decreased embryo-fetal survival, and decreased fetal body weights at doses 180 times and higher than the maximum recommended human daily intranasal dose (MRHDID) of 1.644 mg. However, the relevance of these findings in animals to pregnant women was considered questionable based upon the high animal to human dose multiple.

The estimated background risk of major birth defects and miscarriage for the indicated populations 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 an embryo-fetal development study in mice dosed during the period of organogenesis, azelastine hydrochloride caused embryo-fetal death, structural abnormalities (cleft palate; short or absent tail; fused, absent or branched ribs), delayed ossification, and decreased fetal weight at approximately 200 times the maximum recommended human daily intranasal dose (MRHDID) in adults (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 68.6  $\text{mg}/\text{kg}/\text{day}$ ), which also caused maternal toxicity as evidenced by decreased maternal body weight. Neither fetal nor maternal effects occurred in mice at approximately 9 times the MRHDID in adults (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 3  $\text{mg}/\text{kg}/\text{day}$ ).

In an embryo-fetal development study in pregnant rats dosed during the period of organogenesis from gestation days 7 to 17, azelastine hydrochloride caused structural abnormalities (oligo- and brachydactylia), delayed ossification, and skeletal variations, in the absence of maternal toxicity, at approximately 180 times the MRHDID in adults (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 30  $\text{mg}/\text{kg}/\text{day}$ ). Azelastine hydrochloride caused embryo-fetal death and decreased fetal weight and severe maternal toxicity at approximately 410 times the MRHDID (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 68.6  $\text{mg}/\text{kg}/\text{day}$ ). Neither fetal nor maternal effects occurred at approximately 10 times the MRHDID (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 2  $\text{mg}/\text{kg}/\text{day}$ ).

In an embryo-fetal development study in pregnant rabbits dosed during the period of organogenesis from gestation days 6 to 18, azelastine hydrochloride caused abortion, delayed ossification and decreased fetal weight and severe maternal toxicity at approximately 360 times the MRHDID in adults (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 30  $\text{mg}/\text{kg}/\text{day}$ ). Neither fetal nor maternal effects occurred at approximately 4 times the MRHDID (on a  $\text{mg}/\text{m}^2$  basis at a maternal oral dose of 0.3  $\text{mg}/\text{kg}/\text{day}$ ).

In a prenatal and postnatal development study in pregnant rats dosed from late in the gestation period and through the lactation period from gestation day 17 through lactation day 21, azelastine hydrochloride produced no adverse developmental effects on pups at maternal doses up to approximately 180 times the MRHDID (on  $\text{mg}/\text{m}^2$  basis at a maternal dose of 30  $\text{mg}/\text{kg}/\text{day}$ ).

## **8.2 Lactation**

### ***Risk Summary***

There are no data on the presence of azelastine hydrochloride in human milk, the effects on the breastfed infant, or the effects on milk production following use of azelastine hydrochloride. Because many drugs are excreted in human milk, caution should be exercised when azelastine hydrochloride nasal spray is administered to a nursing woman.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for azelastine hydrochloride nasal spray and any potential



adverse effects on the breastfed infant from azelastine hydrochloride nasal spray or from the underlying maternal condition.

## 8.4 Pediatric Use

The safety and effectiveness of azelastine hydrochloride nasal spray 0.15% have been established for seasonal allergic rhinitis in pediatric patients 6 to 17 years of age and perennial allergic rhinitis in pediatric patients 6 to 17 years of age [see *Clinical Studies* (14)]. The safety and effectiveness of azelastine hydrochloride nasal spray 0.15% in pediatric patients below 6 years of age have not been established.

## 8.5 Geriatric Use

Clinical trials of azelastine hydrochloride nasal spray did not include sufficient numbers of patients 65 years of age and older to determine whether they respond differently from younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

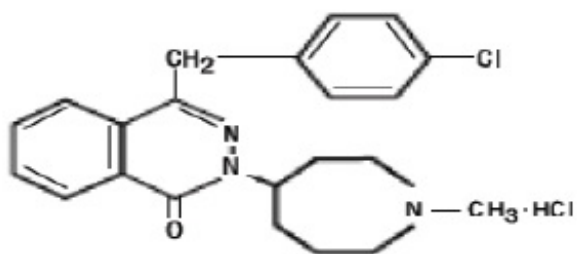
## 10 OVERDOSAGE

There have been no reported overdosages with azelastine hydrochloride nasal spray. Acute overdosage by adults with this dosage form is unlikely to result in clinically significant adverse events, other than increased somnolence, since one 30 mL bottle of azelastine hydrochloride nasal spray 0.15% contains up to 45 mg of azelastine hydrochloride. Clinical trials in adults with single doses of the oral formulation of azelastine hydrochloride (up to 16 mg) have not resulted in increased incidence of serious adverse events. General supportive measures should be employed if overdosage occurs. There is no known antidote to azelastine hydrochloride nasal spray. Oral ingestion of antihistamines has the potential to cause serious adverse effects in children. Accordingly, azelastine hydrochloride nasal spray should be kept out of the reach of children.

## 11 DESCRIPTION

Azelastine hydrochloride 0.15% nasal spray is an antihistamine (H<sub>1</sub> receptor antagonist) formulated as a metered-spray solution for intranasal administration.

Azelastine hydrochloride occurs as a white, almost odorless, crystalline powder with a bitter taste. It has a molecular weight of 418.37. It is sparingly soluble in water, methanol, and propylene glycol and slightly soluble in ethanol, octanol, and glycerine. It has a melting point of about 225°C and the pH of a saturated solution is between 5.0 and 5.4. Its chemical name is (±)-1-(2H)-phthalazinone, 4-[(4-chlorophenyl) methyl]-2-(hexahydro-1-methyl-1H-azepin-4-yl)-, monohydrochloride. Its molecular formula is C<sub>22</sub>H<sub>24</sub>ClN<sub>3</sub>O•HCl with the following chemical structure:



Azelastine hydrochloride nasal spray 0.15% contains 0.15% azelastine hydrochloride USP in an isotonic aqueous solution containing benzalkonium chloride (125 mcg/mL), edetate disodium, hypromellose, purified water (pH 6.4), sodium citrate (dihydrate), sorbitol, and sucralose. After priming [see *Dosage and Administration* (2.3)], each metered spray delivers a 0.137 mL mean volume containing 205.5 mcg of azelastine hydrochloride USP (equivalent to 187.6 mcg of azelastine base). The 30 mL (net weight 30 gm of solution) bottle provides 200 metered sprays.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Azelastine hydrochloride, a phthalazinone derivative, exhibits histamine H<sub>1</sub>-receptor antagonist activity in isolated tissues, animal models, and humans. Azelastine hydrochloride nasal spray is administered as a racemic mixture with no difference in pharmacologic activity noted between the enantiomers in *in vitro* studies. The major metabolite, desmethylazelastine, also possesses H<sub>1</sub>-receptor antagonist activity.

### 12.2 Pharmacodynamics

#### Cardiac Effects:

In a placebo-controlled trial (95 patients with allergic rhinitis), there was no evidence of an effect of azelastine hydrochloride nasal spray (2 sprays per nostril twice daily for 56 days) on cardiac repolarization as represented by the corrected QT interval (QTc) of the electrocardiogram. Following multiple dose oral administration of azelastine 4 mg or 8 mg twice daily, the mean change in QTc was 7.2 msec and 3.6 msec, respectively.

Interaction studies investigating the cardiac repolarization effects of concomitantly administered oral azelastine hydrochloride and erythromycin or ketoconazole were conducted. Oral erythromycin had no effect on azelastine pharmacokinetics or QTc based on analysis of serial electrocardiograms. Ketoconazole interfered with the measurement of azelastine plasma levels; however, no effects on QTc were observed [see *Drug Interactions* (7.2)].

### 12.3 Pharmacokinetics

#### Absorption:

After intranasal administration of 2 sprays per nostril (822 mcg total dose) of azelastine hydrochloride nasal spray 0.15%, the mean azelastine peak plasma concentration (C<sub>max</sub>)

is 409 pg/mL, the mean extent of systemic exposure (AUC) is 9,312 pg•hr/mL and the median time to reach  $C_{\max}$  ( $t_{\max}$ ) is 4 hours. The systemic bioavailability of azelastine hydrochloride is approximately 40% after intranasal administration.

#### Distribution:

Based on intravenous and oral administration, the steady-state volume of distribution of azelastine is 14.5 L/kg. *In vitro* studies with human plasma indicate that the plasma protein binding of azelastine and its metabolite, desmethylazelastine, are approximately 88% and 97%, respectively.

#### Metabolism:

Azelastine is oxidatively metabolized to the principal active metabolite, desmethylazelastine, by the cytochrome P450 enzyme system. The specific P450 isoforms responsible for the biotransformation of azelastine have not been identified. After a single-dose, intranasal administration of azelastine hydrochloride nasal spray 0.15% (822 mcg total dose), the mean desmethylazelastine  $C_{\max}$  is 38 pg/mL, the AUC is 3,824 pg•hr/mL and the median  $t_{\max}$  is 24 hours. After intranasal dosing of azelastine to steady-state, plasma concentrations of desmethylazelastine range from 20 to 50% of azelastine concentrations.

#### Elimination:

Following intranasal administration of azelastine hydrochloride nasal spray 0.15%, the elimination half-life of azelastine is 25 hours while that of desmethylazelastine is 57 hours. Approximately 75% of an oral dose of radiolabeled azelastine hydrochloride was excreted in the feces with less than 10% as unchanged azelastine.

#### Special Populations:

*Hepatic Impairment:* Following oral administration, pharmacokinetic parameters were not influenced by hepatic impairment.

*Renal Impairment:* Based on oral, single-dose studies, renal insufficiency (creatinine clearance <50 mL/min) resulted in a 70 to 75% higher  $C_{\max}$  and AUC compared to healthy subjects. Time to maximum concentration was unchanged.

*Age:* Following oral administration, pharmacokinetic parameters were not influenced by age.

*Gender:* Following oral administration, pharmacokinetic parameters were not influenced by gender.

*Race:* The effect of race has not been evaluated.

#### Drug-Drug Interactions:

*Erythromycin:* Co-administration of orally administered azelastine (4 mg twice daily) with erythromycin (500 mg three times daily for 7 days) resulted in  $C_{\max}$  of  $5.36 \pm 2.6$  ng/mL and AUC of  $49.7 \pm 24$  ng•h/mL for azelastine, whereas, administration of azelastine alone resulted in  $C_{\max}$  of  $5.57 \pm 2.7$  ng/mL and AUC of  $48.4 \pm 24$  ng•h/mL for

azelastine [see *Drug Interactions (7.2)*].

*Cimetidine and Ranitidine:* In a multiple-dose, steady-state drug interaction trial in healthy subjects, cimetidine (400 mg twice daily) increased orally administered mean azelastine (4 mg twice daily) concentrations by approximately 65%. Co-administration of orally administered azelastine (4 mg twice daily) with ranitidine hydrochloride (150 mg twice daily) resulted in  $C_{\max}$  of  $8.89 \pm 3.28$  ng/mL and AUC of  $88.22 \pm 40.43$  ng•h/mL for azelastine, whereas, administration of azelastine alone resulted in  $C_{\max}$  of  $7.83 \pm 4.06$  ng/mL and AUC of  $80.09 \pm 43.55$  ng•h/mL for azelastine [see *Drug Interactions (7.3)*].

*Theophylline:* No significant pharmacokinetic interaction was observed with the co-administration of an oral 4 mg dose of azelastine hydrochloride twice daily and theophylline 300 mg or 400 mg twice daily.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

Two-year carcinogenicity studies in Crl:CD(SD)BR rats and NMRI mice were conducted to assess the carcinogenic potential of azelastine hydrochloride. No evidence of tumorigenicity was observed in rats at doses up to 30 mg/kg day (approximately 180 and 160 times the MRHDID for adults and children, respectively, on a mg/m<sup>2</sup> basis). No evidence for tumorigenicity was observed in mice at doses up to 25 mg/kg (approximately 75 and 65 times the MRHDID for adults and children, respectively, on a mg/m<sup>2</sup> basis).

Azelastine hydrochloride showed no genotoxic effects in the Ames test, DNA repair test, mouse lymphoma forward mutation assay, mouse micronucleus test, or chromosomal aberration test in rat bone marrow.

There were no effects on male or female fertility and reproductive performance in male and female rats at oral doses up to 30 mg/kg (approximately 180 times the MRHDID in adults on a mg/m<sup>2</sup> basis). At 68.6 mg/kg (approximately 410 times the MRHDID on a mg/m<sup>2</sup> basis), the duration of estrous cycles was prolonged and copulatory activity and the number of pregnancies were decreased. The numbers of corpora lutea and implantations were decreased; however, pre-implantation loss was not increased.

## **14 CLINICAL STUDIES**

### **14.1 Seasonal Allergic Rhinitis**

#### Azelastine Hydrochloride Nasal Spray 0.15%

The efficacy and safety of azelastine hydrochloride nasal spray 0.15% in seasonal allergic rhinitis was evaluated in five randomized, multicenter, double-blind, placebo-controlled clinical trials in 2,499 adult and adolescent patients 12 years and older with symptoms of seasonal allergic rhinitis (Trials 2, 3, 4, 5, and 6). The population of the trials was 12 to 83 years of age (64% female, 36% male; 81% white, 12% black, <2% Asian, 5% other; 23% Hispanic, 77% non-Hispanic). Assessment of efficacy was based

on the rTNSS, iTNSS as described above, and other supportive secondary efficacy variables. The primary efficacy endpoint was the mean change from baseline in rTNSS over 2 weeks.

Two 2-week seasonal allergic rhinitis trials evaluated the efficacy of Azelastine Hydrochloride Nasal Spray 0.15% dosed at 2 sprays twice daily. The first trial (Trial 2) compared the efficacy of azelastine hydrochloride nasal spray 0.15% and Astelin (azelastine hydrochloride) Nasal Spray to vehicle placebo. The other trial (Trial 3) compared the efficacy of azelastine hydrochloride nasal spray 0.15% and azelastine hydrochloride nasal spray 0.1% to vehicle placebo. In these two trials, azelastine hydrochloride nasal spray 0.15% demonstrated greater decreases in rTNSS than placebo and the differences were statistically significant (Table 4).

Three 2-week seasonal allergic rhinitis trials evaluated the efficacy of azelastine hydrochloride nasal spray 0.15% dosed at 2 sprays once daily compared to the vehicle placebo. Trial 4 demonstrated a greater decrease in rTNSS than placebo and the difference was statistically significant (Table 4). Trial 5 and Trial 6 were conducted in patients with Texas mountain cedar allergy. In Trial 5 and Trial 6, azelastine hydrochloride nasal spray 0.15% demonstrated a greater decrease in rTNSS than placebo and the differences were statistically significant (Trials 5 and 6; Table 4). Instantaneous TNSS results for the once daily dosing regimen of azelastine hydrochloride nasal spray 0.15% are shown in Table 5. In Trials 5 and 6, azelastine hydrochloride nasal spray 0.15% demonstrated a greater decrease in iTNSS than placebo and the differences were statistically significant.

**Table 4. Mean Change from Baseline in Reflective TNSS over 2 Weeks\* in Adults and Children ≥ 12 years with Seasonal Allergic Rhinitis**

	Treatment (sprays per nostril)	n	Baseline LS Mean	Change from Baseline	Difference From Placebo		
					LS Mean	95% CI	P value
Trial 2							
Two sprays twice daily	Azelastine Hydrochloride Nasal Spray 0.15%	153	18.2	-4.3	-1.2	-2.1, -0.3	0.01
	Astelin Nasal Spray	153	17.9	-3.9	-0.9	-1.8, 0.1	0.07
	Vehicle Placebo	153	18.1	-3.0			
Trial 3							
Two sprays twice daily	Azelastine Hydrochloride Nasal Spray 0.15%	177	17.7	-5.1	-3.0	-3.9, -2.1	<0.001
	Azelastine Hydrochloride Nasal Spray 0.1%	169	18.2	-4.2	-2.1	-3.0, -1.2	<0.001
	Vehicle Placebo	177	17.7	-2.1			
Trial 4							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	238	17.4	-3.4	-1.0	-1.7, -0.3	0.008

Once daily	Vehicle Placebo	242	17.4	-2.4			
Trial 5							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	266	18.5	-3.3	-1.4	-2.1, -0.8	<0.001
	Vehicle Placebo	266	18.0	-1.9			
Trial 6							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	251	18.5	-3.4	-1.4	-2.1, -0.7	<0.001
	Vehicle Placebo	254	18.8	-2.0			
*Sum of AM and PM rTNSS for each day (Maximum score=24) and averaged over the 14 day treatment period							

**Table 5. Mean Change from Baseline AM Instantaneous TNS over 2 Weeks\* in Adults and Children ≥ 12 years with Seasonal Allergic Rhinitis**

	Treatment (sprays per nostril once daily)	n	Baseline LS Mean	Change from Baseline	Difference From Placebo		
					LS Mean	95% CI	P value
Trial 4							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	238	8.1	-1.3	-0.2	-0.6, 0.1	0.15
	Vehicle Placebo	242	8.3	-1.1			
Trial 5							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	266	8.7	-1.4	-0.7	-1.0, -0.4	<0.001
	Vehicle Placebo	266	8.3	-0.7			
Trial 6							
Two sprays once daily	Azelastine Hydrochloride Nasal Spray 0.15%	251	8.9	-1.4	-0.6	-0.9, -0.3	<0.001
	Vehicle Placebo	254	8.9	-0.8			
*AM iTNSS for each day (Maximum score=12) and averaged over the 14 day treatment period							

Azelastine hydrochloride nasal spray 0.15% at a dose of 1 spray twice daily was not studied. The azelastine hydrochloride nasal spray 0.15% 1 spray twice daily dosing regimen is supported by previous findings of efficacy for Astelin (azelastine hydrochloride) Nasal Spray and a favorable comparison of azelastine hydrochloride nasal spray 0.15% to Astelin Nasal Spray and azelastine hydrochloride nasal spray 0.1% (Table 4).

The efficacy and safety of azelastine hydrochloride nasal spray 0.15% in children 6 to 11

years of age with seasonal allergic rhinitis was evaluated in a clinical study that enrolled pediatric patients with perennial allergic rhinitis, with or without concomitant seasonal allergic rhinitis (described below in Section 14.2).

## 14.2 Perennial Allergic Rhinitis

### Azelastine Hydrochloride Nasal Spray 0.15%

The efficacy and safety of azelastine hydrochloride nasal spray 0.15% in perennial allergic rhinitis was evaluated in one randomized, multicenter, double-blind, placebo-controlled clinical trial in 578 adult and adolescent patients 12 years and older with symptoms of perennial allergic rhinitis. The population of the trial was 12 to 84 years of age (68% female, 32% male; 85% white, 11% black, 1% Asian, 3% other; 17% Hispanic, 83% non-Hispanic).

Assessment of efficacy was based on the 12-hour reflective total nasal symptom score (rTNSS) assessed daily in the morning and evening, the instantaneous total nasal symptom score (iTNSS), and other supportive secondary efficacy variables. The primary efficacy endpoint was the mean change from baseline rTNSS over 4 weeks. The one 4-week perennial allergic rhinitis trial evaluated the efficacy of azelastine hydrochloride nasal spray 0.15%, azelastine hydrochloride nasal spray 0.1%, and vehicle placebo dosed at 2 sprays per nostril twice daily. In this trial, azelastine hydrochloride nasal spray 0.15% demonstrated a greater decrease in rTNSS than placebo and the difference was statistically significant (Table 6).

**Table 6. Mean Change from Baseline in Reflective TNSS over 4 Weeks\* in Adults and Children  $\geq 12$  years with Perennial Allergic Rhinitis**

	Treatment (sprays per nostril twice daily)	n	Baseline LS Mean	Change from Baseline	Difference From Placebo		
					LS Mean	95% CI	P value
Two sprays twice daily	Azelastine Hydrochloride Nasal Spray 0.15%	192	15.8	-4.0	-0.9	-1.7, -0.1	0.03
	Azelastine Hydrochloride Nasal Spray 0.1%	194	15.5	-3.8	-0.7	-1.5, 0.1	0.08
	Vehicle Placebo	192	14.7	-3.1			

\*Sum of AM and PM rTNSS for each day (Maximum score=24) and averaged over the 28 day treatment period

The efficacy and safety of azelastine hydrochloride nasal spray 0.1% and azelastine hydrochloride nasal spray 0.15% in pediatric patients 6 to 11 years of age with perennial allergic rhinitis, with or without concomitant seasonal allergic rhinitis, was evaluated in a randomized, double-blind, placebo-controlled clinical trial in 486 patients. All patients received one spray per nostril twice daily. The study population was 58% males and 42% females; 78% white, 13% black, 3% Asian, and 6% other.

Assessment of efficacy was based on the 12-hour reflective total nasal symptom score

(rTNSS) assessed daily in the morning and evening. The primary efficacy endpoint was the mean change from baseline rTNSS over 4 weeks (Table 7). Both active treatments demonstrated statistically significant decreases in rTNSS compared to placebo. There was no statistically significant difference between the two active-treatment groups. There was also no difference in treatment effect between patients with perennial allergic rhinitis only compared to those with perennial allergic rhinitis and concomitant seasonal allergic rhinitis.

**Table 7. Mean Change from Baseline in Reflective TNSS over 4 Weeks\* in Children 6 to 11 years with Perennial Allergic Rhinitis**

	Treatment (sprays per nostril twice daily)	n	Baseline LS Mean	Change from Baseline	Difference From Placebo		
					LS Mean	95% CI	P value
One spray twice daily	Azelastine Hydrochloride Nasal Spray 0.15%	159	16.6	-3.5	-1.0	-1.7, -0.3	0.005
	Azelastine Hydrochloride Nasal Spray 0.1%	166	16.4	-3.4	-0.9	-1.6, -0.2	0.015
	Vehicle Placebo	161	16.1	-2.5			

\*Sum of AM and PM rTNSS for each day (Maximum score=24) and averaged over the 28 day treatment period

The efficacy of azelastine hydrochloride nasal spray 0.1% and azelastine hydrochloride nasal spray 0.15% in children 6 months to 5 years of age with allergic rhinitis was explored in a clinical study (described above in Section 14.1).

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Azelastine Hydrochloride Nasal Spray 0.15% is supplied as a 30 mL package (NDC 59651-215-30) delivering 200 metered sprays in a high-density polyethylene (HDPE) bottle fitted with a metered-dose spray pump unit. The spray pump unit consists of a nasal spray pump fitted with a white safety clip and a transparent dust cover. The net content of the bottle is 30 mL (net weight 30 gm of solution). The 30 mL bottle contains 45 mg (1.5 mg/mL) of azelastine hydrochloride USP. After priming [see *Dosage and Administration* (2.3)], each spray delivers a fine mist containing a mean volume of 0.137 mL solution containing 205.5 mcg of azelastine hydrochloride USP. The correct amount of medication in each spray cannot be assured before the initial priming and after 200 sprays for the 30 mL bottle have been used, even though the bottle is not completely empty. The bottle should be discarded after 200 sprays have been used.

Azelastine Hydrochloride Nasal Spray 0.15% should not be used after the expiration date “EXP” printed on the medicine label and carton.

### Storage:

Store at controlled room temperature 20° to 25°C (68° to 77°F). Protect from freezing.



Keep bottle upright, tightly closed, and away from children.

## **17 PATIENT COUNSELING INFORMATION**

See FDA-approved patient labeling (Patient Information and Instructions for Use).

### Activities Requiring Mental Alertness

Somnolence has been reported in some patients taking azelastine hydrochloride nasal spray. Caution patients against engaging in hazardous occupations requiring complete mental alertness and motor coordination such as driving or operating machinery after administration of azelastine hydrochloride nasal spray [see *Warnings and Precautions (5.1)*].

### Concurrent Use of Alcohol and other Central Nervous System Depressants

Avoid concurrent use of azelastine hydrochloride nasal spray with alcohol or other central nervous system depressants because additional reductions in alertness and additional impairment of central nervous system performance may occur [see *Warnings and Precautions (5.1)*].

### Common Adverse Reactions

Inform patients that the treatment with azelastine hydrochloride nasal spray may lead to adverse reactions, most common of which include pyrexia, dysgeusia, nasal discomfort, epistaxis, headache, sneezing, fatigue, somnolence, upper respiratory infection, cough, rhinalgia, vomiting, otitis media, contact dermatitis, and oropharyngeal pain. [see *Adverse Reactions (6.1)*].

### Priming

Instruct patients to prime the pump before initial use and when azelastine hydrochloride nasal spray has not been used for 3 or more days [see *Dosage and Administration (2.3)*].

### Keep Spray Out of Eyes

Instruct patients to avoid spraying azelastine hydrochloride nasal spray into their eyes.

### Keep Out of Children's Reach

Instruct patients to keep azelastine hydrochloride nasal spray out of the reach of children. If a child accidentally ingests azelastine hydrochloride nasal spray, seek medical help or call a poison control center (1-800-222-1222) immediately.

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**Aurobindo Pharma USA, Inc.**  
279 Princeton-Hightstown Road  
East Windsor, NJ 08520

Manufactured by:  
**Aurobindo Pharma Limited**  
Hyderabad-500 038, India

Issued: October 2020

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## **PATIENT INFORMATION**

### **Azelastine Hydrochloride (a zel' as teen) Nasal Spray 0.15%**

<b>Important: For use in your nose only.</b>
--

#### **What is Azelastine Hydrochloride Nasal Spray?**

- Azelastine hydrochloride nasal spray is a prescription medicine used to treat symptoms of seasonal allergic rhinitis in patients 6 years of age and older and year-round allergic rhinitis in people age 6 years and older.
- Azelastine hydrochloride nasal spray may help to reduce your nasal symptoms including stuffy nose, runny nose, itching and sneezing.

It is not known if azelastine hydrochloride nasal spray is safe and effective in children under 6 years of age.

#### **What should I tell my healthcare provider before using azelastine hydrochloride nasal spray?**

##### **Before using azelastine hydrochloride nasal spray, tell your healthcare provider if you are:**

- allergic to any of the ingredients in azelastine hydrochloride nasal spray. See the end of this leaflet for a complete list of ingredients in azelastine hydrochloride nasal spray.
- pregnant, or plan to become pregnant.
- breastfeeding, or plan to breastfeed. It is not known if azelastine hydrochloride passes into your breast milk. You and your healthcare provider should decide if you will use azelastine hydrochloride nasal spray if you plan to breastfeed.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Azelastine hydrochloride nasal spray and other medicines may affect each other, causing side effects.

## **How should I use azelastine hydrochloride nasal spray?**

- Read the **Instructions for Use** at the end of this leaflet for information about the right way to use azelastine hydrochloride nasal spray.
- An adult should help a young child use azelastine hydrochloride nasal spray.
- Spray azelastine hydrochloride nasal spray in your nose only. **Do not spray it into your eyes or mouth.**
- Use azelastine hydrochloride nasal spray exactly as your healthcare provider tells you to use it.
- **Do not** use more than your healthcare provider tells you.
- Throw away your azelastine hydrochloride nasal spray 0.15% bottle after using 200 sprays. Even though the bottle may not be completely empty, you may not get the correct dose of medicine.
- If you use too much or a child accidentally swallows azelastine hydrochloride nasal spray, call your healthcare provider or go to the nearest hospital emergency room right away.

## **What should I avoid while using azelastine hydrochloride nasal spray?**

### **Azelastine hydrochloride nasal spray can cause sleepiness:**

- **Do not** drive, operate machinery, or do other dangerous activities until you know how azelastine hydrochloride nasal spray affects you.
- **Do not** drink alcohol or take other medicines that may cause you to feel sleepy while using azelastine hydrochloride nasal spray. It may make your sleepiness worse.

## **What are the possible side effects of azelastine hydrochloride nasal spray?**

The most common side effects of azelastine hydrochloride nasal spray include:

- fever
- unusual taste
- nose pain or discomfort
- nosebleeds
- headache
- sneezing
- fatigue
- sleepiness
- upper respiratory tract infections
- cough
- vomiting
- middle ear infection
- skin rash
- sore throat

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all of the possible side effects of azelastine hydrochloride nasal spray. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**How should I store azelastine hydrochloride nasal spray?**

- Keep azelastine hydrochloride nasal spray upright at 68°F to 77°F (20°C to 25°C).
- Do not freeze azelastine hydrochloride nasal spray.
- Do not use azelastine hydrochloride nasal spray after the expiration date “EXP” on the medicine label and box.

**Keep azelastine hydrochloride nasal spray and all medicines out of reach of children.**

**General information about the safe and effective use of azelastine hydrochloride nasal spray.**

Medicines are sometimes prescribed for conditions other than those listed in a Patient Information leaflet. Do not use azelastine hydrochloride nasal spray for a condition for which it was not prescribed. Do not give azelastine hydrochloride nasal spray to other people, even if they have the same symptoms that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about azelastine hydrochloride nasal spray. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about azelastine hydrochloride nasal spray that is written for health professionals.

For more information, call Aurobindo Pharma USA, Inc. at 1-866-850-2876.

**What are the ingredients in azelastine hydrochloride nasal spray?**

Active ingredient: azelastine hydrochloride

Inactive ingredients: benzalkonium chloride, edetate disodium, hypromellose, purified water, sodium citrate (dihydrate), sorbitol, and sucralose.

**Instructions for Use**

**Azelastine Hydrochloride**  
**(a zel' as teen)**  
**Nasal Spray 0.15%**

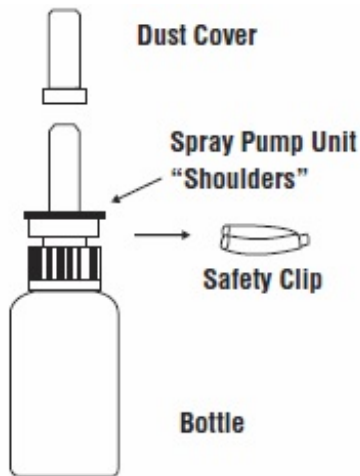
<b>Important: For use in your nose only.</b>
--

**For the correct dose of medicine:**

- Keep your head tilted downward when spraying into your nostril.
- Change nostrils each time you use the spray.
- **Breathe gently and do not tip your head back after using the spray.** This

will keep the medicine from running down into your throat. You may get a bitter taste in your mouth.

Figure A identifies the parts of your Azelastine Hydrochloride Nasal Spray pump



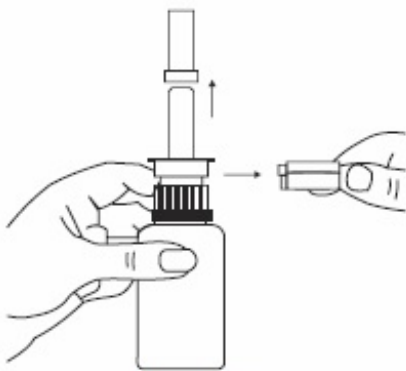
**Figure A**

**Before you use azelastine hydrochloride nasal spray for the first time, you will need to prime the bottle.**

**For use in young children:** An adult should help a young child use azelastine hydrochloride nasal spray. (See “Using your Azelastine Hydrochloride Nasal Spray” Steps 1 through 8).

### **Priming your Azelastine Hydrochloride Nasal Spray**

Remove the transparent dust cover over the tip of the bottle and the white safety clip just under the “shoulders” of the bottle (**See Figure B**).



**Figure B**

- Hold the bottle upright with 2 fingers on the shoulders of the spray pump unit and put your thumb on the bottom of the bottle. Press upward with your thumb and release for the pumping action. Repeat this until you see a fine mist (**See Figure C**).
- To get a fine mist you must pump the spray fast and use firm pressure against the

bottom of the bottle. If you see a stream of liquid, the pump is not working correctly and you may have nasal discomfort.

- This should happen in 6 sprays or less.

Now your pump is primed and ready to use.

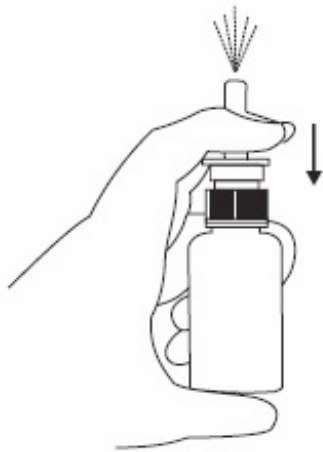


Figure C

- **Do not** use azelastine hydrochloride nasal spray unless you see a fine mist after you do the priming sprays. If you do not see a fine mist, clean the tip of the spray nozzle. See the **“Cleaning the Spray Tip of your Azelastine Hydrochloride Nasal Spray”** section below.
- If you do not use azelastine hydrochloride nasal spray for 3 or more days, you will need to prime the pump with 2 sprays or until you see a fine mist.

## Using your Azelastine Hydrochloride Nasal Spray

**For use in young children:** An adult should help a young child use azelastine hydrochloride nasal spray. (See Steps 1 through 8).

**Step 1.** Blow your nose to clear your nostrils.

**Step 2.** Keep your head tilted downward toward your toes.

**Step 3.** Place the spray tip about  $\frac{1}{4}$  inch to  $\frac{1}{2}$  inch into 1 nostril. Hold bottle upright and aim the spray tip toward the back of your nose (**See Figure D**).



**Figure D**

**Step 4.** Close your other nostril with a finger. Press the pump 1 time and sniff gently at the same time, keeping your head tilted forward and down (**See Figure E**).



**Figure E**

**Step 5.** Repeat **Step 3** and **Step 4** in your other nostril.

**Step 6.** If your healthcare provider tells you to use 2 sprays in each nostril, repeat **Steps 2 through 4** above for the second spray in each nostril.

**Step 7.** Breathe in gently, and **do not tilt your head back** after using azelastine hydrochloride nasal spray. This will help to keep the medicine from going into your throat.

**Step 8.** When you finish using your azelastine hydrochloride nasal spray, wipe the spray tip with a clean tissue or cloth. Put the safety clip and dust cover back on the bottle.

### **Cleaning the Spray Tip of your Azelastine Hydrochloride Nasal Spray**

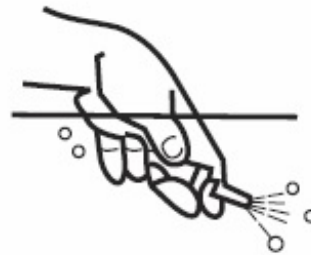
- If the spray tip opening is clogged, do not use a pin or pointed object to unclog the tip. Unscrew the spray pump unit from the bottle by turning it to the left (counter-

clockwise) (**See Figure F**).

- Soak only the spray pump unit in warm water. Squirt the spray unit several times while holding it under water. Use the pumping action to clear the opening in the tip (**See Figure G**).



**Figure F**



**Figure G**

- Let the spray pump unit air dry. Make sure it is dry before you put it back onto the bottle.
- Put the spray pump unit back into the open bottle and tighten it by turning clockwise (to the right).
- To keep the medicine from leaking out, use firm pressure when you put the pump back onto the bottle.
- After cleaning, follow the instructions for priming.

This Patient Information and Instructions for Use has been approved by the U.S. Food and Drug Administration.

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East Windsor, NJ 08520

Manufactured by:

**Aurobindo Pharma Limited**  
Hyderabad-500 038, India

Issued: October 2020

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 0.15% Container Label (30 mL Bottle)**

**NDC 59651-215-30**

**Azelastine Hydrochloride  
Nasal Spray**

**0.15%**

**205.5 mcg per spray**

200 Metered Sprays

FOR INTRANASAL USE ONLY



**DO NOT SPRAY IN EYES**

**Rx only**

**30 mL**

**AUROBINDO**

NDC 59651-215-30

**Azelastine Hydrochloride  
Nasal Spray**


**0.15%**

**205.5 mcg per spray**

200 Metered Sprays  
FOR INTRANASAL USE ONLY  
DO NOT SPRAY IN EYES

Rx only

**30 mL**

 AUROBINDO

Each spray delivers 0.137 mL (205.5 mcg azelastine hydrochloride USP).

**IMPORTANT: READ ACCOMPANYING DIRECTIONS CAREFULLY BEFORE USE.**

**Usual Dosage:** See accompanying full Prescribing Information.

Initial priming: 6 sprays; Repriming: 2 sprays or until a fine mist appears.

Also contains benzalkonium chloride, edetate disodium, hypromellose, purified water (pH 6.4), sodium citrate (dihydrate), sorbitol and sucralose.

Store upright at controlled room temperature 20° to 25°C (68° to 77°F). Protect from freezing.

Keep bottle upright, tightly closed, and away from children.

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Made in India

Code: AP/DRUGS/04/2016

P 1424620

\* Over Printing Zone

Coding Area  
(35 x 15 mm)  
Dotted lines not to be printed

N 3 5 9 6 5 1 2 1 5 3 0 2

**PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 0.15% Container Carton Label  
(30 mL Bottle)**

**NDC 59651-215-30**

**Azelastine  
Hydrochloride  
Nasal Spray  
0.15%**

**205.5 mcg per spray**

**FOR INTRANASAL USE ONLY  
DO NOT SPRAY IN EYES**

**Rx Only**

**30 mL**

**AUROBINDO**



## AZELASTINE HYDROCHLORIDE

azelastine hydrochloride spray, metered

### Product Information

**Product Type**

HUMAN PRESCRIPTION DRUG

**Item Code (Source)**

NDC:59651-215

Route of Administration		NASAL		
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
AZELASTINE HYDROCHLORIDE (UNII: 0L591QR10I) (AZ ELASTINE - UNII:ZQI909440X)		AZ ELASTINE HYDROCHLORIDE	205.5 ug	
Inactive Ingredients				
Ingredient Name			Strength	
BENZALKONIUM CHLORIDE (UNII: F5UM2KM3W7)				
EDETATE DISODIUM (UNII: 7FLD91C86K)				
HYPROMELLOSE 2910 (4000 MPA.S) (UNII: RN3152OP35)				
WATER (UNII: 059QF0KO0R)				
TRISODIUM CITRATE DIHYDRATE (UNII: B22547B95K)				
SORBITOL (UNII: 506T60A25R)				
SUCRALOSE (UNII: 96K6UQ3ZD4)				
Product Characteristics				
Color	WHITE (clear cololess)	Score		
Shape		Size		
Flavor		Imprint Code		
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:59651-215-30	1 in 1 CARTON	11/12/2020	12/31/2024
1		200 in 1 BOTTLE, SPRAY; 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	ANDA212775		11/12/2020	12/31/2024

**Labeler -** Aurobindo Pharma Limited (650082092)

Establishment			
Name	Address	ID/FEI	Business Operations
APL HEALTHCARE LIMITED		650918514	ANALYSIS(59651-215) , MANUFACTURE(59651-215)

