BIMATOPROST- bimatoprost solution/ drops
Sandoz Inc

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use BIMATOPROST OPHTHALMIC SOLUTION safely and effectively. See full prescribing information for BIMATOPROST OPHTHALMIC SOLUTION. BIMATOPROST Ophthalmic Solution, 0.03%
Initial U.S. Approval: 2001

INDICATIONS AND USAGE
Bimatoprost ophthalmic solution is a prostaglandin analog, indicated to treat hypotrichosis of the eyelashes by increasing their growth including length, thickness and darkness. (1)

DOSAGE AND ADMINISTRATION
Apply nightly directly to the skin of the upper eyelid margin at the base of the eyelashes using the accompanying applicators. Blot any excess solution beyond the eyelid margin. Dispose of the applicator after one use. Repeat for the opposite eyelid margin using a new sterile applicator. (2)

DOSAGE FORMS AND STRENGTHS
Bimatoprost ophthalmic solution 0.3 mg/mL. (3)

CONTRAINDICATIONS
None (4)

WARNINGS AND PRECAUTIONS
Concurrent administration of bimatoprost ophthalmic solution and IOP-lowering prostaglandin analogs in ocular hypertensive patients may decrease the IOP-lowering effect. Patients using these products concomitantly should be closely monitored for changes to their intraocular pressure.(5.1)

ADVERSE REACTIONS
Most common adverse reactions (incidence approximately 3% to 4%) are eye pruritus, conjunctival hyperemia, and skin hyperpigmentation. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Sandoz Inc. at 1-800-525-8747 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

FULL PRESCRIBING INFORMATION: CONTENTS*
1 INDICATIONS AND USAGE
2 DOSAGE AND ADMINISTRATION
3 DOSAGE FORMS AND STRENGTHS
4 CONTRAINDICATIONS
5 WARNINGS AND PRECAUTIONS
   5.1 Effects on Intraocular Pressure
   5.2 Iris Pigmentation
   5.3 Lid Pigmentation
   5.4 Hair Growth Outside the Treatment Area
   5.5 Intraocular Inflammation
   5.6 Macular Edema
   5.7 Contamination of Bimatoprost Ophthalmic Solution or Applicators
   5.8 Use with Contact Lenses
6 ADVERSE REACTIONS
   6.1 Clinical Studies Experience
   6.2 Postmarketing Experience
8. USE IN SPECIFIC POPULATIONS

Revised: 8/2016
1 INDICATIONS AND USAGE
Bimatoprost ophthalmic solution, 0.03% is indicated to treat hypotrichosis of the eyelashes by increasing their growth including length, thickness and darkness.

2 DOSAGE AND ADMINISTRATION
Ensure the face is clean, makeup and contact lenses are removed. Once nightly, place one drop of bimatoprost ophthalmic solution, 0.03% on the disposable sterile applicator supplied with the package and apply evenly along the skin of the upper eyelid margin at the base of the eyelashes. The upper lid margin in the area of lash growth should feel lightly moist without runoff. Blot any excess solution runoff outside the upper eyelid margin with a tissue or other absorbent cloth. Dispose of the applicator after one use. Repeat for the opposite eyelid margin using a new sterile applicator.

Do not reuse applicators and do not use any other brush/applicator to apply bimatoprost ophthalmic solution.

Do not apply to the lower eyelash line [see WARNINGS AND PRECAUTIONS (5.3, 5.4) and PATIENT COUNSELING INFORMATION (17.1)].

Additional applications of bimatoprost ophthalmic solution will not increase the growth of eyelashes.

Upon discontinuation of treatment, eyelash growth is expected to return to its pre-treatment level.

3 DOSAGE FORMS AND STRENGTHS
4 CONTRAINDICATIONS
None

5 WARNINGS AND PRECAUTIONS

5.1 Effects on Intraocular Pressure
Bimatoprost ophthalmic solution (Lumigan®) lowers intraocular pressure (IOP) when instilled directly to the eye in patients with elevated IOP. In clinical trials, in patients with or without elevated IOP, bimatoprost ophthalmic solution lowered IOP, however, the magnitude of the reduction was not cause for clinical concern.

In ocular hypertension studies with Lumigan®, it has been shown that exposure of the eye to more than one dose of bimatoprost daily may decrease the intraocular pressure lowering effect. In patients using Lumigan® or other prostaglandin analogs for the treatment of elevated intraocular pressure, the concomitant use of bimatoprost ophthalmic solution may interfere with the desired reduction in IOP. Patients using prostaglandin analogs including Lumigan® for IOP reduction should only use bimatoprost ophthalmic solution after consulting with their physician and should be monitored for changes to their intraocular pressure [see PATIENT COUNSELING INFORMATION (17.3)].

5.2 Iris Pigmentation
Increased iris pigmentation has occurred when bimatoprost ophthalmic solution was administered. Patients should be advised about the potential for increased brown iris pigmentation which is likely to be permanent [see ADVERSE REACTIONS (6.2) and PATIENT COUNSELING INFORMATION (17.5)].

The pigmentation change is due to increased melanin content in the melanocytes rather than to an increase in the number of melanocytes. The long term effects of increased pigmentation are not known. Iris color changes seen with administration of bimatoprost ophthalmic solution may not be noticeable for several months to years. Typically, the brown pigmentation around the pupil spreads concentrically towards the periphery of the iris and the entire iris or parts of the iris become more brownish. Neither nevi nor freckles of the iris appear to be affected by treatment. Treatment with bimatoprost ophthalmic solution can be continued in patients who develop noticeably increased iris pigmentation.

5.3 Lid Pigmentation
Bimatoprost has been reported to cause pigment changes (darkening) to periorbital pigmented tissues and eyelashes. The pigmentation is expected to increase as long as bimatoprost is administered, but has been reported to be reversible upon discontinuation of bimatoprost in most patients. [see PATIENT COUNSELING INFORMATION (17.4)].

5.4 Hair Growth Outside the Treatment Area
There is the potential for hair growth to occur in areas where bimatoprost ophthalmic solution comes in repeated contact with the skin surface. It is important to apply bimatoprost ophthalmic solution only to the skin of the upper eyelid margin at the base of the eyelashes using the accompanying sterile applicators, and to carefully blot any excess bimatoprost ophthalmic solution from the eyelid margin to avoid it running onto the cheek or other skin areas [see PATIENT COUNSELING INFORMATION (17.6)].

5.5 Intraocular Inflammation
Bimatoprost ophthalmic solution should be used with caution in patients with active intraocular
inflammation (e.g., uveitis) because the inflammation may be exacerbated.

5.6 Macular Edema

Macular edema, including cystoid macular edema, has been reported during treatment with bimatoprost ophthalmic solution (Lumigan®) for elevated IOP. Bimatoprost ophthalmic solution should be used with caution in aphakic patients, in pseudophakic patients with a torn posterior lens capsule, or in patients with known risk factors for macular edema.

5.7 Contamination of Bimatoprost Ophthalmic Solution or Applicators

The bimatoprost ophthalmic solution bottle must be kept intact during use. It is important to use bimatoprost ophthalmic solution as instructed, by placing one drop on the single-patient-use per eye applicator. The bottle tip should not be allowed to contact any other surface since it could become contaminated. The accompanying sterile applicators should only be used on one eye and then discarded since reuse of applicators increases the potential for contamination and infections. There have been reports of bacterial keratitis associated with the use of multiple-dose containers of topical ophthalmic products [see PATIENT COUNSELING INFORMATION (17.2)].

5.8 Use with Contact Lenses

Bimatoprost ophthalmic solution contains benzalkonium chloride, which may be absorbed by and cause discoloration of soft contact lenses. Contact lenses should be removed prior to application of solution and may be reinserted 15 minutes following its administration [see PATIENT COUNSELING INFORMATION (17.8)].

6 ADVERSE REACTIONS

6.1 Clinical Studies Experience

The following information is based on clinical trial results from a multicenter, double-masked, randomized, vehicle-controlled, parallel study including 278 adult patients for four months of treatment.

The most frequently reported adverse reactions were eye pruritus, conjunctival hyperemia, skin hyperpigmentation, ocular irritation, dry eye symptoms, and periorbital erythema. These reactions occurred in less than 4% of patients.

Adverse reactions reported with bimatoprost ophthalmic solution (Lumigan®) for the reduction of intraocular pressure include, ocular dryness, visual disturbance, ocular burning, foreign body sensation, eye pain, blepharitis, cataract, superficial punctate keratitis, eye discharge, tearing, photophobia, allergic conjunctivitis, asthenopia, increases in iris pigmentation, conjunctival edema, abnormal hair growth, iritis, infections (primarily colds and upper respiratory tract infections), headaches, and asthenia.

6.2 Postmarketing Experience

The following reactions have been identified during postmarketing use of bimatoprost ophthalmic solution in clinical practice. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. The reactions, which have been chosen for inclusion due to either their seriousness, frequency of reporting possible causal connection to bimatoprost ophthalmic solution, or a combination of these factors, include: eye swelling, eyelid edema, hypersensitivity (local allergic reactions), lacrimation increased, madarosis and trichorrhexis (temporary loss of a few lashes to loss of sections of eyelashes, and temporary eyelash breakage, respectively), periorbital and lid changes associated with a deepening of the eyelid sulcus, rash (including macular, erythematous, skin discoloration (periorbital), and vision blurred.
8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

Teratogenic effects: In embryo/fetal developmental studies in pregnant mice and rats, abortion was observed at oral doses of bimatoprost which achieved at least 33 or 97 times, respectively, the maximum intended human exposure (based on blood AUC levels after topical ophthalmic administration to the cornea or conjunctival sac).

At doses at least 41 times the maximum intended human exposure, the gestation length was reduced in the dams, the incidence of dead fetuses, late resorptions, peri- and postnatal pup mortality was increased, and pup body weights were reduced.

There are no adequate and well-controlled studies of bimatoprost ophthalmic solution 0.03% administration in pregnant women. Because animal reproductive studies are not always predictive of human response, bimatoprost ophthalmic solution should be administered during pregnancy only if the potential benefit justifies the potential risk to the fetus.

8.3 Nursing Mothers

It is not known whether bimatoprost ophthalmic solution is excreted in human milk, although in animal studies, bimatoprost has been shown to be excreted in breast milk. Because many drugs are excreted in human milk, caution should be exercised when bimatoprost ophthalmic solution is administered to a nursing woman.

8.4 Pediatric Use

Pediatric use information for patients ages 5 to 17 years is approved for Allergan Inc.’s bimatoprost ophthalmic solution, 0.03% product. However, due to Allergan Inc.’s marketing exclusivity rights, this drug product is not labeled with that pediatric information.

8.5 Geriatric Use

No overall clinical differences in safety or effectiveness have been observed between elderly and other adult patients.

11 DESCRIPTION

Bimatoprost ophthalmic solution, 0.03% is a synthetic prostaglandin analog. Its chemical name is (Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[1E,3S]-3-hydroxy-5-phenyl-1-pentenyl] cyclopentyl]-N-ethyl 5-heptenamide, and its molecular weight is 415.58. Its molecular formula is C_{25}H_{37}NO_{4}. Its chemical structure is:

![Chemical structure of bimatoprost](image)

Bimatoprost is a powder, which is very soluble in ethyl alcohol and methyl alcohol and slightly soluble in water. Bimatoprost ophthalmic solution is a clear, isotonic, colorless, sterile ophthalmic solution with an osmolality of approximately 290 mOsmol/kg.

---
Contains: Active: Bimatoprost 0.3 mg/mL; Preservative: Benzalkonium chloride 0.05 mg/mL; Inactives: Citric acid, purified water, sodium chloride and sodium phosphate dibasic. Sodium hydroxide and/or hydrochloric acid may be added to adjust pH. The pH during its shelf life ranges from 6.8 to 7.8.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Bimatoprost is a structural prostaglandin analog. Although the precise mechanism of action is unknown, the growth of eyelashes is believed to occur by increasing the percent of hairs in, and the duration of the anagen or growth phase.

12.3 Pharmacokinetics

Absorption

After one drop of bimatoprost ophthalmic solution 0.03% was administered once daily into both eyes (cornea and/or conjunctival sac) of 15 healthy subjects for two weeks, blood concentrations peaked within 10 minutes after dosing and were below the lower limit of detection (0.025 ng/mL) in most subjects within 1.5 hours after dosing. Mean $C_{\text{max}}$ and $AUC_{0-24\text{hr}}$ values were similar on days 7 and 14 at approximately 0.08 ng/mL and 0.09 ng•hr/mL, respectively, indicating that steady state was reached during the first week of ocular dosing. There was no significant systemic drug accumulation over time.

Distribution

Bimatoprost is moderately distributed into body tissues with a steady-state volume of distribution of 0.67 L/kg. In human blood, bimatoprost resides mainly in the plasma. Approximately 12% of bimatoprost remains unbound in human plasma.

Metabolism

Bimatoprost is the major circulating species in the blood once it reaches the systemic circulation. Bimatoprost then undergoes oxidation, N-deethylation, and glucuronidation to form a diverse variety of metabolites.

Elimination

Following an intravenous dose of radiolabeled bimatoprost (3.12 mcg/kg) to six healthy subjects, the maximum blood concentration of unchanged drug was 12.2 ng/mL, and decreased rapidly with an elimination half-life of approximately 45 minutes. The total blood clearance of bimatoprost was 1.5 L/hr/kg. Up to 67% of the administered dose was excreted in the urine while 25% of the dose was recovered in the feces.

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Bimatoprost was not carcinogenic in either mice or rats when administered by oral gavage at doses of up to 2 mg/kg/day and 1 mg/kg/day respectively (approximately 192 and 291 times the recommended human exposure based on blood AUC levels after topical corneal and/or conjunctival sac administration respectively) for 104 weeks.

Bimatoprost was not mutagenic or clastogenic in the Ames test, in the mouse lymphoma test, or in the in vivo mouse micronucleus tests.

Bimatoprost did not impair fertility in male or female rats up to doses of 0.6 mg/kg/day.
14 CLINICAL STUDIES

Bimatoprost ophthalmic solution was evaluated for its effect on overall eyelash prominence in a multicenter, double-masked, randomized, vehicle-controlled, parallel study including 278 adult patients for four months of treatment. The primary efficacy endpoint in this study was an increase in overall eyelash prominence as measured by at least a 1-grade increase on the 4-point Global Eyelash Assessment (GEA) scale, from baseline to the end of the treatment period (week 16). Bimatoprost ophthalmic solution was more effective than vehicle as measured by the GEA score, with statistically significant differences seen at 8-week, 12-week, and 16-week (primary endpoint) treatment durations.

Table 1 Number (%) of subjects with at least a 1-grade increase from baseline in Global Eyelash Assessment (Primary Efficacy Endpoint - Week 16)

<table>
<thead>
<tr>
<th>Week</th>
<th>Bimatoprost ophthalmic solution</th>
<th>Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N=137 N(%)</td>
<td>N=141 N(%)</td>
</tr>
<tr>
<td>1</td>
<td>7 (5%)</td>
<td>3 (2%)</td>
</tr>
<tr>
<td>4</td>
<td>20 (15%)</td>
<td>11 (8%)</td>
</tr>
<tr>
<td>8</td>
<td>69 (50%)</td>
<td>21 (15%)</td>
</tr>
<tr>
<td>12</td>
<td>95 (69%)</td>
<td>28 (20%)</td>
</tr>
<tr>
<td>16</td>
<td>107 (78%)</td>
<td>26 (18%)</td>
</tr>
<tr>
<td>20</td>
<td>103 (79%)</td>
<td>27 (21%)</td>
</tr>
</tbody>
</table>

In this study, patients were also evaluated for the effect of bimatoprost ophthalmic solution on the length, thickness and darkness of their eyelashes. Improvements from baseline in eyelash growth as measured by digital image analysis assessing eyelash length, fullness/thickness, and darkness were statistically significantly more pronounced in the bimatoprost group at weeks 8, 12, and 16.

Table 2

<table>
<thead>
<tr>
<th>Efficacy endpoint at Week 16 (Mean Change from Baseline)</th>
<th>Bimatoprost ophthalmic solution</th>
<th>Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyelash growth (length) (mm; % increase)</td>
<td>N=137 1.4; 25%</td>
<td>N=141 0.1; 2%</td>
</tr>
<tr>
<td>Fullness/thickness (mm²; % increase)</td>
<td>N=136 0.7; 106%</td>
<td>N=140 0.1; 12%</td>
</tr>
<tr>
<td>Eyelash darkness (intensity*, % increase in darkness)</td>
<td>N=135 -20.2; -18%</td>
<td>N=138 -3.6; -3%</td>
</tr>
</tbody>
</table>

* a negative value is representative of eyelash darkening

After the 16-week treatment period, a 4-week post-treatment period followed during which the effects of bimatoprost started to return toward baseline. The effect on eyelash growth is expected to abate following longer term discontinuation.

16 HOW SUPPLIED/STORAGE AND HANDLING

Bimatoprost ophthalmic solution, 0.03% is supplied sterile in opaque white low density polyethylene dispenser bottles and tips with turquoise polystyrene caps accompanied by sterile, disposable
applicators:
3 mL in a 4 mL bottle with 70 applicators - NDC 0781-6206-93
5 mL in a 8 mL bottle with 140 applicators - NDC 0781-6206-75

Storage: Store at 2° to 25°C (36° to 77°F).

17 PATIENT COUNSELING INFORMATION

17.1 Nightly Application

Inform patients that bimatoprost ophthalmic solution should be applied every night using only the accompanying sterile applicators. They should start by ensuring their face is clean, all makeup is removed, and their contact lenses removed (if applicable). Then carefully place one drop of bimatoprost ophthalmic solution on the disposable sterile applicator and brush cautiously along the skin of the upper eyelid margin at the base of the eyelashes. If any bimatoprost ophthalmic solution gets into the eye proper, it will not cause harm. The eye should not be rinsed.

Additional applications of bimatoprost ophthalmic solution will not increase the growth of eyelashes. Inform patients not to apply to the lower eyelash line. Any excess solution outside the upper eyelid margin should be blotted with a tissue or other absorbent material.

The onset of effect is gradual but is not significant in the majority of patients until 2 months. Counsel patients that the effect is not permanent and can be expected to gradually return to the original level upon discontinuation of treatment with bimatoprost ophthalmic solution.

17.2 Handling the Bottle and Applicator

Instruct patients that the bimatoprost ophthalmic solution bottle must be maintained intact and to avoid allowing the tip of the bottle or applicator to contact surrounding structures, fingers, or any other unintended surface in order to avoid contamination of the bottle or applicator by common bacteria known to cause ocular infections. Instruct patients to only use the applicator supplied with the product once and then discard since reuse could result in using a contaminated applicator. Serious infections may result from using contaminated solutions or applicators.

17.3 Potential for Intraocular Pressure Effects

Bimatoprost ophthalmic solution may lower intraocular pressure although not to a level that will cause clinical harm.

In patients using bimatoprost ophthalmic solution (Lumigan®) or other prostaglandin analogs for the treatment of elevated intraocular pressure, the concomitant use of bimatoprost ophthalmic solution may interfere with the desired reduction in IOP. Patients using prostaglandin analogs for IOP reduction should only use bimatoprost ophthalmic solution after consulting with their physician.

17.4 Potential for Eyelid Skin Darkening

Inform patients about the possibility of eyelid skin darkening, which may be reversible after discontinuation of bimatoprost ophthalmic solution.

17.5 Potential for Iris Darkening

Advise patients about the potential for increased brown iris pigmentation which is likely to be permanent. Increased iris pigmentation has occurred when bimatoprost ophthalmic solution was administered.

17.6 Potential for Unexpected Hair Growth or Eyelash Changes
Inform patients of the possibility of hair growth occurring outside of the target treatment area if bimatoprost ophthalmic solution repeatedly touches the same area of skin outside the treatment area. They should also be informed of the possibility of disparity between eyes in length, thickness, pigmentation, number of eyelashes or vellus hairs, and/or direction of eyelash growth. Eyelash changes are likely reversible upon discontinuation of treatment.

17.7 When to Seek Physician Advice
Advise patients that if they develop a new ocular condition (e.g., trauma or infection), experience a sudden decrease in visual acuity, have ocular surgery, or develop any ocular reactions, particularly conjunctivitis and eyelid reactions, they should immediately seek their physician's advice concerning the continued use of bimatoprost ophthalmic solution. Patients on IOP-lowering medications should not use bimatoprost ophthalmic solution without prior consultation with their physician.

17.8 Use with Contact Lenses
Advise patients that bimatoprost ophthalmic solution contains benzalkonium chloride, which may be absorbed by and cause discoloration of soft contact lenses. Contact lenses should be removed prior to application of bimatoprost ophthalmic solution and may be reinserted 15 minutes following its administration.

17.9 FDA-approved Patient Labeling
...

PATIENT INFORMATION
Bimatoprost ophthalmic solution, 0.03%
(bi ma•toe prost)
Read the Patient Information that comes with bimatoprost ophthalmic solution before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your physician about your treatment.

What is hypotrichosis of the eyelashes?
Hypotrichosis is another name for having inadequate or not enough eyelashes.

What is bimatoprost ophthalmic solution?
Bimatoprost ophthalmic solution is a prescription treatment for hypotrichosis used to grow eyelashes, making them longer, thicker and darker.

Who should NOT take bimatoprost ophthalmic solution?
Do not use bimatoprost ophthalmic solution if you are allergic to one of its ingredients.

Are there any special warnings associated with bimatoprost ophthalmic solution use?
Bimatoprost ophthalmic solution is intended for use on the skin of the upper eyelid margins at the base of the eyelashes. Refer to Illustration 2 below. DO NOT APPLY to the lower eyelid. If you are using Lumigan® or other products in the same class for elevated intraocular pressure (IOP), or if you have a history of abnormal IOP, you should only use bimatoprost ophthalmic solution under the close supervision of your physician.

Bimatoprost ophthalmic solution use may cause darkening of the eyelid skin which may be reversible. Bimatoprost ophthalmic solution use may also cause increased brown pigmentation of the colored part of the eye which is likely to be permanent.

It is possible for hair growth to occur in other areas of your skin that bimatoprost ophthalmic solution frequently touches. Any excess solution outside the upper eyelid margin should be blotted with a tissue
or other absorbent material to reduce the chance of this from happening. It is also possible for a difference in eyelash length, thickness, fullness, pigmentation, number of eyelash hairs, and/or direction of eyelash growth to occur between eyes. These differences, should they occur, will usually go away if you stop using bimatoprost ophthalmic solution.

**Who should I tell that I am using bimatoprost ophthalmic solution?**

You should tell your physician you are using bimatoprost ophthalmic solution especially if you have a history of eye pressure problems. You should also tell anyone conducting an eye pressure screening that you are using bimatoprost ophthalmic solution.

**What should I do if I get bimatoprost ophthalmic solution in my eye?**

Bimatoprost ophthalmic solution is an ophthalmic drug product. Bimatoprost ophthalmic solution is not expected to cause harm if it gets into the eye proper. Do not attempt to rinse your eye in this situation.

**What are the possible side effects of bimatoprost ophthalmic solution?**

The most common side effects after using bimatoprost ophthalmic solution are an itching sensation in the eyes and/or eye redness. This was reported in approximately 4% of patients. Bimatoprost ophthalmic solution may cause other less common side effects which typically occur on the skin close to where bimatoprost ophthalmic solution is applied, or in the eyes. These include skin darkening, eye irritation, dryness of the eyes, and redness of the eyelids.

If you develop a new ocular condition (e.g. trauma or infection), experience a sudden decrease in visual acuity, have ocular surgery, or develop any ocular reactions, particularly conjunctivitis and eyelid reactions, you should immediately seek your physician’s advice concerning the continued use of bimatoprost ophthalmic solution.

**What happens if I stop using bimatoprost ophthalmic solution?**

If you stop using bimatoprost ophthalmic solution, your eyelashes are expected to return to their previous appearance over several weeks to months.

Any eyelid skin darkening is expected to reverse after several weeks to months.

Any darkening of the colored part of the eye known as the iris is NOT expected to reverse and is likely permanent.

**How do I use bimatoprost ophthalmic solution?**

The recommended dosage is one application nightly to the skin of the upper eyelid margin at the base of the eyelashes only.

Once nightly, start by ensuring your face is clean, makeup and contact lenses are removed. Remove an applicator from its tray. Then, holding the sterile applicator horizontally, place one drop of bimatoprost ophthalmic solution on the area of the applicator closest to the tip but not on the tip (see Illustration 1). Then immediately draw the applicator carefully across the skin of the upper eyelid margin at the base of the eyelashes (where the eyelashes meet the skin) going from the inner part of your lash line to the outer part (see Illustration 2). Blot any excess solution beyond the eyelid margin. Dispose of the applicator after one use.

Repeat for the opposite upper eyelid margin using a new sterile applicator. This helps minimize any potential for contamination from one eyelid to another.
DO NOT APPLY in your eye or to the lower lid. ONLY use the sterile applicators supplied with bimatoprost ophthalmic solution to apply the product. If you miss a dose, don’t try to “catch up.” Just apply bimatoprost ophthalmic solution the next evening. Fifty percent of patients treated with bimatoprost ophthalmic solution in a clinical study saw significant improvement by 2 months after starting treatment.

If any bimatoprost ophthalmic solution gets into the eye proper, it is not expected to cause harm. The eye should not be rinsed. Don’t allow the tip of the bottle or applicator to contact surrounding structures, fingers, or any other unintended surface in order to avoid contamination by common bacteria.
known to cause infections.

Contact lenses should be removed prior to application of bimatoprost ophthalmic solution and may be reinserted 15 minutes following its administration.

Use of bimatoprost ophthalmic solution more than once a day will not increase the growth of eyelashes more than use once a day.

Store bimatoprost ophthalmic solution at 36° to 77°F (2° to 25°C).

**General Information about bimatoprost ophthalmic solution.**

Prescription treatments are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use bimatoprost ophthalmic solution for a condition for which it was not prescribed. Do not give bimatoprost ophthalmic solution to other people. It may not be appropriate for them to use.

This leaflet summarizes the most important information about bimatoprost ophthalmic solution. If you would like more information, talk with your physician. You can also call Sandoz Inc., at 1-800-525-8747.

**What are the ingredients in bimatoprost ophthalmic solution?**

**Active ingredient:** bimatoprost

**Inactive ingredients:** benzalkonium chloride, citric acid, purified water, sodium chloride and sodium phosphate dibasic. Sodium hydroxide and/or hydrochloric acid may be added to adjust pH. The pH during its shelf life ranges from 6.8 to 7.8.

Lumigan® is a registered trademark of Allergan, Inc.

Manufactured by Alcon Laboratories, Inc.
Fort Worth, Texas 76134 for
Sandoz Inc.
Princeton, NJ 08540

Rev. August 2016

Bimatoprost Ophthalmic Solution 0.03%, Carton
Bimatoprost Ophthalmic Solution
0.03% Sterile

Contents: One 3 mL bottle
70 disposable applicators

Rx only

FOR TOPICAL APPLICATION
TO THE UPPER EYE LID

SANDOZ
a Novartis company

NDC 0781-6206-93
Bimatoprost Ophthalmic Solution
0.03% Sterile
Contents: One 3 mL bottle
70 disposable applicators
Rx only
FOR TOPICAL APPLICATION
TO THE UPPER EYE LID
SANDOZ
a Novartis company

### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIMATOPROST (UNII: QXS94885MZ) (BIMATOPROST - UNII:QXS94885MZ)</td>
<td>BIMATOPROST</td>
<td>0.3 mg in 1 mL</td>
</tr>
</tbody>
</table>

### Inactive Ingredients
<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZALKONIUM CHLORIDE (UNII: F5UM2KM3W7)</td>
<td>0.05 mg in 1 mL</td>
</tr>
<tr>
<td>CITRIC ACID MONOHYDRATE (UNII: 2968PHW8QP)</td>
<td></td>
</tr>
<tr>
<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
<td></td>
</tr>
<tr>
<td>SODIUM CHLORIDE (UNII: 451W47IQ8X)</td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
<td></td>
</tr>
<tr>
<td>SODIUM PHOSPHATE, DIBASIC (UNII: GR686LBA74)</td>
<td></td>
</tr>
<tr>
<td>WATER (UNII: 059QF0KO0R)</td>
<td></td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0781-6206-93</td>
<td>3 mL in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>12/06/2016</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>NDC:0781-6206-75</td>
<td>5 mL in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>12/06/2016</td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANDA</td>
<td>ANDA202719</td>
<td>12/06/2016</td>
<td></td>
</tr>
</tbody>
</table>

**Labeler** - Sandoz Inc (110342024)

Revised: 8/2016