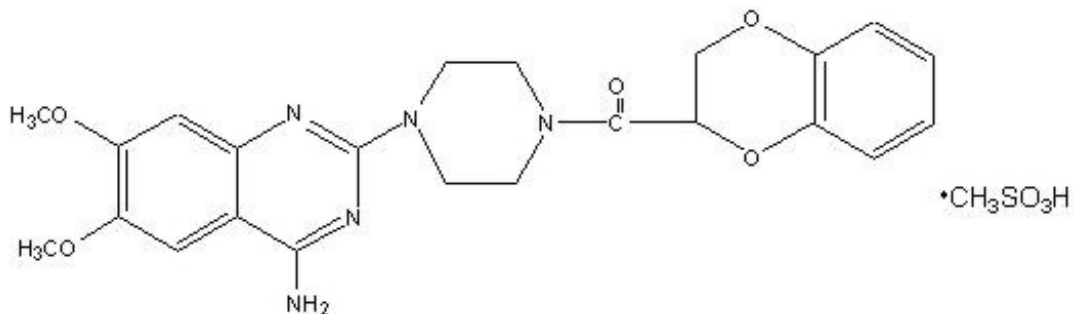


**DOXAZOSIN- doxazosin mesylate tablet**  
**Aidarex Pharmaceuticals LLC**

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**DOXAZOSIN MESYLATE 4MG TAB FOR MYLAN**

**DESCRIPTION**

Doxazosin mesylate is a quinazoline compound that is a selective inhibitor of the  $\alpha_1$  subtype of alpha adrenergic receptors. The chemical name of doxazosin mesylate is 1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-(1,4-benzodioxan-2-ylcarbonyl) piperazine methanesulfonate. The molecular formula for doxazosin mesylate is  $C_{23}H_{25}N_5O_5 \cdot CH_4O_3S$  and the molecular weight is 547.6. It has the following structure:



Doxazosin mesylate is freely soluble in dimethylsulfoxide, soluble in dimethylformamide, slightly soluble in methanol, ethanol, and water (0.8% at 25°C), and very slightly soluble in acetone and methylene chloride.

Doxazosin Tablets, USP for oral administration, contain 1 mg, 2 mg, 4 mg or 8 mg of doxazosin as doxazosin mesylate, USP. In addition, each tablet also contains the following inactive ingredients: anhydrous lactose, colloidal silicon, magnesium stearate, microcrystalline cellulose, sodium lauryl sulfate and sodium starch glycolate. The 2 mg tablets also contain D&C Red No. 30 Aluminum Lake, the 4 mg tablets contain FD&C Blue No. 2 Aluminum Lake, and the 8 mg tablets contain D&C Red No. 30 Aluminum Lake and FD&C Blue No. 2 Aluminum Lake.

**CLINICAL PHARMACOLOGY**

**Pharmacodynamics**

**Benign Prostatic Hyperplasia (BPH)**

Benign prostatic hyperplasia (BPH) is a common cause of urinary outflow obstruction in aging males. Severe BPH may lead to urinary retention and renal damage. A static and a dynamic component contribute to the symptoms and reduced urinary flow rate associated with BPH. The static component is related to an increase in prostate size caused, in part, by a proliferation of smooth muscle cells in the prostatic stroma. However, the severity of BPH symptoms and the degree of urethral obstruction do not correlate well with the size of the prostate. The dynamic component of BPH is associated with an increase in smooth muscle tone in the prostate and bladder neck. The degree of tone in this area is mediated by the  $\alpha_1$  adrenoceptor, which is present in high density in the prostatic stroma, prostatic capsule and bladder neck. Blockade of the  $\alpha_1$  receptor decreases urethral resistance and may relieve the obstruction and BPH symptoms. In the human prostate, doxazosin antagonizes phenylephrine ( $\alpha_1$  agonist)-induced contractions, *in vitro*, and binds with high affinity to the  $\alpha_{1C}$  adrenoceptor. The receptor subtype is thought to be the predominant functional type in the prostate. Doxazosin acts

within 1 to 2 weeks to decrease the severity of BPH symptoms and improve urinary flow rate. Since  $\alpha_1$  adrenoceptors are of low density in the urinary bladder (apart from the bladder neck), doxazosin should maintain bladder contractility.

The efficacy of doxazosin was evaluated extensively in over 900 patients with BPH in double-blind, placebo-controlled trials. Doxazosin treatment was superior to placebo in improving patient symptoms and urinary flow rate. Significant relief with doxazosin was seen as early as one week into the treatment regimen, with doxazosin treated patients (N = 173) showing a significant ( $p < 0.01$ ) increase in maximum flow rate of 0.8 mL/sec compared to a decrease of 0.5 mL/sec in the placebo group (N = 41). In long-term studies improvement was maintained for up to 2 years of treatment. In 66% to 71% of patients, improvements above baseline were seen in both symptoms and maximum urinary flow rate.

In three placebo-controlled studies of 14 to 16 weeks duration obstructive symptoms (hesitation, intermittency, dribbling, weak urinary stream, incomplete emptying of the bladder) and irritative symptoms (nocturia, daytime frequency, urgency, burning) of BPH were evaluated at each visit by patient-assessed symptom questionnaires. The bothersomeness of symptoms was measured with a modified Boyarsky questionnaire. Symptom severity/frequency was assessed using a modified Boyarsky questionnaire or an AUA-based questionnaire. Uroflowmetric evaluations were performed at times of peak (2 to 6 hours post-dose) and/or trough (24 hours post-dose) plasma concentrations of doxazosin.

The results from the three placebo-controlled studies (N = 609) showing significant efficacy with 4 mg and 8 mg doxazosin are summarized in Table 1. In all three studies, doxazosin resulted in statistically significant relief of obstructive and irritative symptoms compared to placebo. Statistically significant improvements of 2.3 to 3.3 mL/sec in maximum flow rate were seen with doxazosin in Studies 1 and 2, compared to 0.1 to 0.7 mL/sec with placebo.

TABLE 1 SUMMARY OF EFFECTIVENESS DATA IN PLACEBO-CONTROLLED TRIALS

	SYMPTOM SCORE <sup>a</sup>			MAXIMUM FLOW RATE (mL/sec)		
	MEAN N	MEAN <sup>b</sup> BASELINE	MEAN <sup>b</sup> CHANGE	MEAN N	MEAN <sup>b</sup> BASELINE	MEAN <sup>c</sup> CHANGE
<b>STUDY 1</b> (Titration to maximum dose of 8 mg) <sup>e</sup>						
Placebo	47	15.6	-2.3	41	9.7	+0.7
Doxazosin	49	14.5	-4.9**	41	9.8	+2.9**
<b>STUDY 2</b> (Titration to fixed dose-14 weeks) <sup>d</sup>						
Placebo	37	20.7	-2.5	30	10.6	+0.1
Doxazosin 4 mg	38	21.2	-5.0**	32	9.8	+2.3*
Doxazosin 8 mg	42	19.9	-4.2*	36	10.5	+3.3**
<b>STUDY 3</b> (Titration to fixed dose-12 weeks)						
Placebo	47	14.9	-4.7	44	9.9	+2.1
Doxazosin 4 mg	46	16.6	-6.1*	46	9.6	+2.6

**STUDY 2**  
Maximum Flow Rate (mL/sec) and Symptom Score

Group	Maximum Flow Rate (mL/sec)	Symptom Score
Placebo	0.1	-2.5
4 mg	2.3*	-5.0**
8 mg	3.3**	-4.2**

<sup>a</sup>AUA questionnaire (range 0 to 30) in studies 1 and 3.  
<sup>b</sup>Modified Boyarsky Questionnaire (range 7 to 39) in study 2.  
<sup>c</sup>Change is to endpoint.  
<sup>d</sup>Change is to fixed-dose efficacy phase, 22 to 26 hours post-dose for studies 1 and 3 and 2 to 6 hours post-dose for study 2.  
<sup>e</sup>Study in hypertensives with BPH  
<sup>f</sup>36 patients received a dose of 8 mg doxazosin

In one fixed dose study (Study 2) doxazosin therapy (4 mg to 8 mg, once daily) resulted in a significant

and sustained improvement in maximum urinary flow rate of 2.3 to 3.3 mL/sec (Table 1) compared to placebo (0.1 mL/sec). In this study, the only study in which weekly evaluations were made, significant improvement with doxazosin vs. placebo was seen after one week. The proportion of patients who responded with a maximum flow rate improvement of  $\geq 3$  mL/sec was significantly larger with doxazosin (34% to 42%) than placebo (13% to 17%). A significantly greater improvement was also seen in average flow rate with doxazosin (1.6 mL/sec) than with placebo (0.2 mL/sec). The onset and time course of symptom relief and increased urinary flow from Study 1 are illustrated in Figure 1.

\*p < 0.05 Compared to Placebo;  
 +p < 0.05 Compared to Baseline;  
 Doxazosin Titration to Maximum of 8 mg.

In BPH patients (N = 450) treated for up to 2 years in open-label studies, doxazosin therapy resulted in significant improvement above baseline in urinary flow rates and BPH symptoms. The significant effects of doxazosin were maintained over the entire treatment period.

Although blockade of  $\alpha_1$  adrenoceptors also lowers blood pressure in hypertensive patients with increased peripheral vascular resistance, doxazosin treatment of normotensive men with BPH did not result in a clinically significant blood pressure lowering effect (Table 2). The proportion of normotensive patients with a sitting systolic blood pressure less than 90 mmHg and/or diastolic blood pressure less than 60 mmHg at any time during treatment with doxazosin 1 mg to 8 mg once daily was 6.7% with doxazosin and not significantly different (statistically) from that with placebo (5%).

**TABLE 2 Mean Changes in Blood Pressure from Baseline to the Mean of the Final Efficacy Phase in Normotensives (Diastolic BP < 90 mmHg) in Two Double-blind, Placebo-Controlled U.S. Studies with Doxazosin 1 mg to 8 mg once daily.**

	<u>PLACEBO</u> (N=85)		<u>DOXAZOSIN</u> (N=183)	
	<u>Baseline</u>	<u>Change</u>	<u>Baseline</u>	<u>Change</u>
<b><u>Sitting BP (mmHg)</u></b>				
Systolic	128.4	-1.4	128.8	-4.9*
Diastolic	79.2	-1.2	79.6	-2.4*
<b><u>Standing BP (mmHg)</u></b>				
Systolic	128.5	-0.6	128.5	-5.3*
Diastolic	80.5	-0.7	80.4	-2.6*

\*  $p \leq 0.05$  compared to placebo

## Hypertension

The mechanism of action of doxazosin mesylate is selective blockade of the  $\alpha_1$  (postjunctional) subtype of adrenergic receptors. Studies in normal human subjects have shown that doxazosin competitively antagonized the pressor effects of phenylephrine (an  $\alpha_1$  agonist) and the systolic pressor effect of norepinephrine. Doxazosin and prazosin have similar abilities to antagonize phenylephrine. The antihypertensive effect of doxazosin results from a decrease in systemic vascular resistance. The parent compound doxazosin is primarily responsible for the antihypertensive activity. The low plasma concentrations of known active and inactive metabolites of doxazosin (2-piperazinyl, 6'- and 7'-hydroxy and 6- and 7-O-desmethyl compounds) compared to parent drug indicate that the contribution of even the most potent compound (6'-hydroxy) to the antihypertensive effect of doxazosin in man is probably small. The 6'- and 7'-hydroxy metabolites have demonstrated antioxidant properties at concentrations of 5  $\mu\text{M}$ , *in vitro*.

Administration of doxazosin results in a reduction in systemic vascular resistance. In patients with hypertension there is little change in cardiac output. Maximum reductions in blood pressure usually occur 2 to 6 hours after dosing and are associated with a small increase in standing heart rate. Like other  $\alpha_1$ -adrenergic blocking agents, doxazosin has a greater effect on blood pressure and heart rate in the standing position.

In a pooled analysis of placebo-controlled hypertension studies with about 300 hypertensive patients per treatment group, doxazosin, at doses of 1 mg to 16 mg given once daily, lowered blood pressure at 24 hours by about 10/8 mmHg compared to placebo in the standing position and about 9/5 mmHg in the supine position. Peak blood pressure effects (1 to 6 hours) were larger by about 50% to 75% (i.e., trough values were about 55% to 70% of peak effect), with the larger peak-trough differences seen in systolic pressures. There was no apparent difference in the blood pressure response of caucasians and blacks or of patients above and below age 65. In these predominantly normocholesterolemic patients doxazosin produced small reductions in total serum cholesterol (2% to 3%), LDL cholesterol (4%), and a similarly small increase in HDL/total cholesterol ratio (4%). The clinical significance of these findings is uncertain. In the same patient population, patients receiving doxazosin gained a mean of 0.6 kg compared to a mean loss of 0.1 kg for placebo patients.

## Pharmacokinetics

After oral administration of therapeutic doses, peak plasma levels of doxazosin mesylate occur at about 2 to 3 hours. Bioavailability is approximately 65%, reflecting first pass metabolism of doxazosin by the liver. The effect of food on the pharmacokinetics of doxazosin was examined in a crossover study with 12 hypertensive subjects. Reductions of 18% in mean maximum plasma concentration and 12% in the area under the concentration-time curve occurred when doxazosin was administered with food. Neither of these differences was statistically or clinically significant.

Doxazosin is extensively metabolized in the liver, mainly by O-demethylation of the quinazoline nucleus or hydroxylation of the benzodioxan moiety. Although several active metabolites of doxazosin have been identified, the pharmacokinetics of these metabolites have not been characterized. In a study of two subjects administered radiolabelled doxazosin 2 mg orally and 1 mg intravenously on two separate occasions, approximately 63% of the dose was eliminated in the feces and 9% of the dose was found in the urine. On average only 4.8% of the dose was excreted as unchanged drug in the feces and only a trace of the total radioactivity in the urine was attributed to unchanged drug. At the plasma concentrations achieved by therapeutic doses approximately 98% of the circulating drug is bound to plasma proteins.

Plasma elimination of doxazosin is biphasic, with a terminal elimination half-life of about 22 hours. Steady-state studies in hypertensive patients given doxazosin doses of 2 mg to 16 mg once daily showed linear kinetics and dose proportionality. In two studies, following the administration of 2 mg orally once

daily, the mean accumulation ratios (steady-state AUC vs. first dose AUC) were 1.2 and 1.7. Enterohepatic recycling is suggested by secondary peaking of plasma doxazosin concentrations.

In a crossover study in 24 normotensive subjects, the pharmacokinetics and safety of doxazosin were shown to be similar with morning and evening dosing regimens. The area under the curve after morning dosing was, however, 11% less than that after evening dosing and the time to peak concentration after evening dosing occurred significantly later than that after morning dosing (5.6 hr vs. 3.5 hr).

The pharmacokinetics of doxazosin in young (< 65 years) and elderly ( $\geq$  65 years) subjects were similar for plasma half-life values and oral clearance. Pharmacokinetic studies in elderly patients and patients with renal impairment have shown no significant alterations compared to younger patients with normal renal function. Administration of a single 2 mg dose to patients with cirrhosis (Child-Pugh Class A) showed a 40% increase in exposure to doxazosin. There are only limited data on the effects of drugs known to influence the hepatic metabolism of doxazosin [e.g., cimetidine (see PRECAUTIONS: Drug Interactions)]. As with any drug wholly metabolized by the liver, use of doxazosin in patients with altered liver function should be undertaken with caution.

In two placebo-controlled studies, of normotensive and hypertensive BPH patients, in which doxazosin was administered in the morning and the titration interval was two weeks and one week, respectively, trough plasma concentrations of doxazosin were similar in the two populations. Linear kinetics and dose proportionality were observed.

## INDICATIONS AND USAGE

### **Benign Prostatic Hyperplasia (BPH)**

Doxazosin tablets are indicated for the treatment of both the urinary outflow obstruction and obstructive and irritative symptoms associated with BPH: obstructive symptoms (hesitation, intermittency, dribbling, weak urinary stream, incomplete emptying of the bladder) and irritative symptoms (nocturia, daytime frequency, urgency, burning). Doxazosin tablets may be used in all BPH patients whether hypertensive or normotensive. In patients with hypertension and BPH, both conditions were effectively treated with doxazosin tablet monotherapy. Doxazosin tablets provide rapid improvement in symptoms and urinary flow rate in 66% to 71% of patients. Sustained improvements with doxazosin tablets were seen in patients treated for up to 14 weeks in double-blind studies and up to 2 years in open-label studies.

### **Hypertension**

Doxazosin tablets are also indicated for the treatment of hypertension. Doxazosin tablets may be used alone or in combination with diuretics, beta-adrenergic blocking agents, calcium channel blockers or angiotensin-converting enzyme inhibitors.

## CONTRAINDICATIONS

Doxazosin tablets are contraindicated in patients with a known sensitivity to quinazolines (e.g., prazosin, terazosin), doxazosin, or any of the inert ingredients.

## WARNINGS

### **Syncope and "First-dose" Effect**

**Doxazosin, like other alpha-adrenergic blocking agents, can cause marked hypotension, especially in the upright position, with syncope and other postural symptoms such as dizziness. Marked orthostatic effects are most common with the first dose but can also occur when there is a dosage increase, or if therapy is interrupted for more than a few days. To decrease the likelihood of excessive hypotension and syncope, it is essential that treatment be initiated with the 1 mg dose. The 2 mg, 4 mg, and 8 mg tablets are not for initial therapy. Dosage should then be**

**adjusted slowly (see DOSAGE AND ADMINISTRATION section) with evaluations and increases in dose every two weeks to the recommended dose. Additional antihypertensive agents should be added with caution.**

**Patients being titrated with doxazosin should be cautioned to avoid situations where injury could result should syncope occur, during both the day and night.**

In an early investigational study of the safety and tolerance of increasing daily doses of doxazosin in normotensives beginning at 1 mg/day, only 2 of 6 subjects could tolerate more than 2 mg/day without experiencing symptomatic postural hypotension. In another study of 24 healthy normotensive male subjects receiving initial doses of 2 mg/day of doxazosin, seven (29%) of the subjects experienced symptomatic postural hypotension between 0.5 and 6 hours after the first dose necessitating termination of the study. In this study, 2 of the normotensive subjects experienced syncope. Subsequent trials in hypertensive patients always began doxazosin dosing at 1 mg/day resulting in a 4% incidence of postural side effects at 1 mg/day with no cases of syncope.

In multiple dose clinical trials in hypertension involving over 1,500 hypertensive patients with dose titration every one to two weeks, syncope was reported in 0.7% of patients. None of these events occurred at the starting dose of 1 mg and 1.2% (8/664) occurred at 16 mg/day.

In placebo-controlled, clinical trials in BPH, 3 out of 665 patients (0.5%) taking doxazosin reported syncope. Two of the patients were taking 1 mg doxazosin, while one patient was taking 2 mg doxazosin when syncope occurred. In the open-label, long-term extension follow-up of approximately 450 BPH patients, there were 3 reports of syncope (0.7%). One patient was taking 2 mg, one patient was taking 8 mg and one patient was taking 12 mg when syncope occurred. In a clinical pharmacology study, one subject receiving 2 mg experienced syncope.

**If syncope occurs, the patient should be placed in a recumbent position and treated supportively as necessary.**

### **Priapism**

Rarely (probably less frequently than once in every several thousand patients), alpha<sub>1</sub> antagonists, including doxazosin, have been associated with priapism (painful penile erection, sustained for hours and unrelieved by sexual intercourse or masturbation). Because this condition can lead to permanent impotence if not promptly treated, patients must be advised about the seriousness of the condition (see PRECAUTIONS: Information for Patients).

## **PRECAUTIONS**

### **General**

#### **Prostate Cancer**

Carcinoma of the prostate causes many of the symptoms associated with BPH and the two disorders frequently co-exist. Carcinoma of the prostate should therefore be ruled out prior to commencing therapy with doxazosin.

#### **Cataract Surgery**

Intraoperative Floppy Iris Syndrome (IFIS) has been observed during cataract surgery in some patients on or previously treated with alpha<sub>1</sub> blockers. This variant of small pupil syndrome is characterized by the combination of a flaccid iris that billows in response to intraoperative irrigation currents, progressive intraoperative miosis despite preoperative dilation with standard mydriatic drugs, and potential prolapse of the iris toward the phacoemulsification incisions. The patient's surgeon should be prepared for possible modifications to their surgical technique, such as the utilization of iris hooks, iris dilator rings, or viscoelastic substances. There does not appear to be a benefit of stopping alpha<sub>1</sub>

blocker therapy prior to cataract surgery.

### Orthostatic Hypotension

While syncope is the most severe orthostatic effect of doxazosin, other symptoms of lowered blood pressure, such as dizziness, lightheadedness, or vertigo can occur, especially at initiation of therapy or at the time of dose increases.

### *Hypertension*

These symptoms were common in clinical trials in hypertension, occurring in up to 23% of all patients treated and causing discontinuation of therapy in about 2%.

In placebo-controlled titration trials in hypertension, orthostatic effects were minimized by beginning therapy at 1 mg per day and titrating every two weeks to 2, 4, or 8 mg per day. There was an increased frequency of orthostatic effects in patients given 8 mg or more, 10%, compared to 5% at 1 mg to 4 mg and 3% in the placebo group.

### *Benign Prostatic Hyperplasia*

In placebo-controlled trials in BPH, the incidence of orthostatic hypotension with doxazosin was 0.3% and did not increase with increasing dosage (to 8 mg/day). The incidence of discontinuations due to hypotensive or orthostatic symptoms was 3.3% with doxazosin and 1% with placebo. The titration interval in these studies was one to two weeks.

Patients in occupations in which orthostatic hypotension could be dangerous should be treated with particular caution. As  $\alpha_1$  antagonists can cause orthostatic effects, it is important to evaluate standing blood pressure two minutes after standing and patients should be advised to exercise care when arising from a supine or sitting position.

If hypotension occurs, the patient should be placed in the supine position and, if this measure is inadequate, volume expansion with intravenous fluids or vasopressor therapy may be used. A transient hypotensive response is not a contraindication to further doses of doxazosin.

### **Information for Patients**

#### **(See Patient Leaflet)**

Patients should be made aware of the possibility of syncopal and orthostatic symptoms, especially at the initiation of therapy, and urged to avoid driving or hazardous tasks for 24 hours after the first dose, after a dosage increase, and after interruption of therapy when treatment is resumed. They should be cautioned to avoid situations where injury could result should syncope occur during initiation of doxazosin therapy. They should also be advised of the need to sit or lie down when symptoms of lowered blood pressure occur, although these symptoms are not always orthostatic, and to be careful when rising from a sitting or lying position. If dizziness, lightheadedness, or palpitations are bothersome they should be reported to the physician, so that dose adjustment can be considered. Patients should also be told that drowsiness or somnolence can occur with doxazosin or any selective  $\alpha_1$  adrenoceptor antagonist, requiring caution in people who must drive or operate heavy machinery.

Patients should be advised about the possibility of priapism as a result of treatment with  $\alpha_1$  antagonists. Patients should know that this adverse event is very rare. If they experience priapism, it should be brought to immediate medical attention for if not treated promptly it can lead to permanent erectile dysfunction (impotence).

### **Drug/Laboratory Test Interactions**

Doxazosin does not affect the plasma concentration of prostate specific antigen in patients treated for up to 3 years. Both doxazosin, an  $\alpha_1$  inhibitor, and finasteride, a 5- $\alpha$  reductase inhibitor, are highly protein bound and hepatically metabolized. There is no definitive controlled clinical experience on the

concomitant use of  $\alpha_1$  inhibitors and 5-alpha reductase inhibitors at this time.

### **Impaired Liver Function**

Doxazosin should be administered with caution to patients with evidence of impaired hepatic function or to patients receiving drugs known to influence hepatic metabolism (see CLINICAL PHARMACOLOGY: Pharmacokinetics).

### **Leukopenia/Neutropenia**

Analysis of hematologic data from hypertensive patients receiving doxazosin in controlled hypertension clinical trials showed that the mean WBC (N = 474) and mean neutrophil counts (N = 419) were decreased by 2.4% and 1%, respectively, compared to placebo, a phenomenon seen with other alpha blocking drugs. In BPH patients the incidence of clinically significant WBC abnormalities was 0.4% (2/459) with doxazosin and 0% (0/147) with placebo, with no statistically significant difference between the two treatment groups. A search through a data base of 2,400 hypertensive patients and 665 BPH patients revealed 4 hypertensives in which drug-related neutropenia could not be ruled out and one BPH patient in which drug-related leukopenia could not be ruled out. Two hypertensives had a single low value on the last day of treatment. Two hypertensives had stable, non-progressive neutrophil counts in the 1000/mm<sup>3</sup> range over periods of 20 and 40 weeks. One BPH patient had a decrease from WBC count of 4800/mm<sup>3</sup> to 2700/mm<sup>3</sup> at the end of the study; there was no evidence of clinical impairment. In cases where follow-up was available the WBCs and neutrophil counts returned to normal after discontinuation of doxazosin. No patients became symptomatic as a result of the low WBC or neutrophil counts.

### **Drug Interactions**

Most (98%) of plasma doxazosin is protein bound. *In vitro* data in human plasma indicate that doxazosin has no effect on protein binding of digoxin, warfarin, phenytoin or indomethacin. There is no information on the effect of other highly plasma protein bound drugs on doxazosin binding. Doxazosin has been administered without any evidence of an adverse drug interaction to patients receiving thiazide diuretics, beta-blocking agents, and nonsteroidal anti-inflammatory drugs. In a placebo-controlled trial in normal volunteers, the administration of a single 1 mg dose of doxazosin on day 1 of a 4-day regimen of oral cimetidine (400 mg twice daily) resulted in a 10% increase in mean AUC of doxazosin (p = 0.006), and a slight but not statistically significant increase in mean C<sub>max</sub> and mean half-life of doxazosin. The clinical significance of this increase in doxazosin AUC is unknown.

In clinical trials, doxazosin tablets have been administered to patients on a variety of concomitant medications; while no formal interaction studies have been conducted, no interactions were observed. Doxazosin tablets have been used with the following drugs or drug classes: 1) analgesic/anti-inflammatory (e.g., acetaminophen, aspirin, codeine and codeine combinations, ibuprofen, indomethacin); 2) antibiotics (e.g., erythromycin, trimethoprim and sulfamethoxazole, amoxicillin); 3) antihistamines (e.g., chlorpheniramine); 4) cardiovascular agents (e.g., atenolol, hydrochlorothiazide, propranolol); 5) corticosteroids; 6) gastrointestinal agents (e.g., antacids); 7) hypoglycemics and endocrine drugs; 8) sedatives and tranquilizers (e.g., diazepam); 9) cold and flu remedies.

Concomitant administration of doxazosin tablets with a phosphodiesterase-5 (PDE-5) inhibitor can result in additive blood pressure lowering effects and symptomatic hypotension (see DOSAGE AND ADMINISTRATION).

### **Cardiac Toxicity in Animals**

An increased incidence of myocardial necrosis or fibrosis was displayed by Sprague-Dawley rats after 6 months of dietary administration at concentrations calculated to provide 80 mg doxazosin/kg/day and after 12 months of dietary administration at concentrations calculated to provide 40 mg doxazosin/kg/day (AUC exposure in rats 8 times the human AUC exposure with a 12 mg/day therapeutic dose). Myocardial fibrosis was observed in both rats and mice treated in the same manner with 40 mg



doxazosin/kg/day for 18 months (exposure 8 times human AUC exposure in rats and somewhat equivalent to human  $C_{max}$  exposure in mice). No cardiotoxicity was observed at lower doses (up to 10 or 20 mg/kg/day, depending on the study) in either species. These lesions were not observed after 12 months of oral dosing in dogs at maximum doses of 20 mg/kg/day [maximum plasma concentrations ( $C_{max}$ ) in dogs 14 times the  $C_{max}$  exposure in humans receiving a 12 mg/day therapeutic dose] and in Wistar rats at doses of 100 mg/kg/day ( $C_{max}$  exposures 15 times human  $C_{max}$  exposure with a 12 mg/day therapeutic dose). There is no evidence that similar lesions occur in humans.

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

Chronic dietary administration (up to 24 months) of doxazosin mesylate at maximally tolerated doses of 40 mg/kg/day in rats and 120 mg/kg/day in mice revealed no evidence of carcinogenic potential. The highest doses evaluated in the rat and mouse studies are associated with AUCs (a measure of systemic exposure) that are 8 times and 4 times, respectively, the human AUC at a dose of 16 mg/day.

Mutagenicity studies revealed no drug- or metabolite-related effects at either chromosomal or subchromosomal levels.

Studies in rats showed reduced fertility in males treated with doxazosin at oral doses of 20 (but not 5 or 10) mg/kg/day, about 4 times the AUC exposures obtained with a 12 mg/day human dose. This effect was reversible within two weeks of drug withdrawal. There have been no reports of any effects of doxazosin on male fertility in humans.

### **Pregnancy**

Teratogenic Effects. Pregnancy Category C

Studies in pregnant rabbits and rats at daily oral doses of up to 41 and 20 mg/kg, respectively (plasma drug concentrations 10 and 4 times human  $C_{max}$  and AUC exposures with a 12 mg/day therapeutic dose), have revealed no evidence of harm to the fetus. A dosage regimen of 82 mg/kg/day in the rabbit was associated with reduced fetal survival. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, doxazosin should be used during pregnancy only if clearly needed.

Radioactivity was found to cross the placenta following oral administration of labeled doxazosin to pregnant rats.

### **Nonteratogenic Effects**

In peri-postnatal studies in rats, postnatal development at maternal doses of 40 or 50 mg/kg/day of doxazosin (8 times human AUC exposure with a 12 mg/day therapeutic dose) was delayed as evidenced by slower body weight gain and a slightly later appearance of anatomical features and reflexes.

### **Nursing Mothers**

Studies in lactating rats given a single oral dose of 1 mg/kg of [2-<sup>14</sup>C]-doxazosin indicate that doxazosin accumulates in rat breast milk with a maximum concentration about 20 times greater than the maternal plasma concentration. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when doxazosin is administered to a nursing mother.

### **Pediatric Use**

The safety and effectiveness of doxazosin as an antihypertensive agent have not been established in children.

### **Geriatric Use**

The safety and effectiveness profile of doxazosin in BPH was similar in the elderly (age  $\geq$  65 years)

and younger (age < 65 years) patients.

For Hypertension

Clinical studies of doxazosin did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. 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.

## ADVERSE REACTIONS

### Benign Prostatic Hyperplasia (BPH)

The incidence of adverse events has been ascertained from worldwide clinical trials in 965 BPH patients. The incidence rates presented below (Table 3) are based on combined data from seven placebo-controlled trials involving once daily administration of doxazosin in doses of 1 mg to 16 mg in hypertensives and 0.5 mg to 8 mg in normotensives. The adverse events when the incidence in the doxazosin group was at least 1% are summarized in Table 3. No significant difference in the incidence of adverse events compared to placebo was seen except for dizziness, fatigue, hypotension, edema and dyspnea. Dizziness and dyspnea appeared to be dose-related.

**TABLE 3 ADVERSE REACTIONS DURING PLACEBO-CONTROLLED STUDIES**

<b>BENIGN PROSTATIC HYPERPLASIA</b>		
<b>Body System</b>	<b>DOXAZOSIN (N=665)</b>	<b>PLACEBO (N=300)</b>
<b>BODY AS A WHOLE</b>		
Back pain	1.8%	2%
Chest Pain	1.2%	0.7%
Fatigue	8%*	1.7%
Headache	9.9%	9%
Influenza-like symptoms	1.1%	1%
Pain	2%	1%
<b>CARDIOVASCULAR SYSTEM</b>		
Hypotension	1.7%*	0%
Palpitation	1.2%	0.3%
<b>DIGESTIVE SYSTEM</b>		
Abdominal Pain	2.4%	2%
Diarrhea	2.3%	2%
Dyspepsia	1.7%	1.7%
Nausea	1.5%	0.7%
<b>METABOLIC AND NUTRITIONAL DISORDERS</b>		
Edema	2.7%*	0.7%
<b>NERVOUS SYSTEM</b>		
Dizziness <sup>†</sup>	15.6%*	9%
Mouth Dry	1.4%	0.3%
Somnolence	3%	1%
<b>RESPIRATORY SYSTEM</b>		

Dyspnea	2.6%*	0.3%
Respiratory Disorder	1.1%	0.7%
<b>SPECIAL SENSES</b>		
Vision Abnormal	1.4%	0.7%
<b>UROGENITAL SYSTEM</b>		
Impotence	1.1%	1%
Urinary Tract Infection	1.4%	2.3%
<b>SKIN &amp; APPENDAGES</b>		
Sweating Increased	1.1%	1%
<b>PSYCHIATRIC DISORDERS</b>		
Anxiety	1.1%	0.3%
Insomnia	1.2%	0.3%

\*  $p \leq 0.05$  for treatment differences

† Includes vertigo

In these placebo-controlled studies of 665 doxazosin patients, treated for a mean of 85 days, additional adverse reactions have been reported. These are less than 1% and not distinguishable from those that occurred in the placebo group. Adverse reactions with an incidence of less than 1% but of clinical interest are (doxazosin vs. placebo): *Cardiovascular System*: angina pectoris (0.6% vs. 0.7%), postural hypotension (0.3% vs. 0.3%), syncope (0.5% vs. 0%), tachycardia (0.9% vs. 0%); *Urogenital System*: dysuria (0.5% vs. 1.3%), and *Psychiatric Disorders*: libido decreased (0.8% vs. 0.3%). The safety profile in patients treated for up to three years was similar to that in the placebo-controlled studies.

The majority of adverse experiences with doxazosin were mild.

### Hypertension

Doxazosin mesylate has been administered to approximately 4,000 hypertensive patients, of whom 1,679 were included in the hypertension clinical development program. In that program, minor adverse effects were frequent, but led to discontinuation of treatment in only 7% of patients. In placebo-controlled studies adverse effects occurred in 49% and 40% of patients in the doxazosin and placebo groups, respectively, and led to discontinuation in 2% of patients in each group. The major reasons for discontinuation were postural effects (2%), edema, malaise/fatigue, and some heart rate disturbance, each about 0.7%.

In controlled hypertension clinical trials directly comparing doxazosin to placebo there was no significant difference in the incidence of side effects, except for dizziness (including postural), weight gain, somnolence and fatigue/malaise. Postural effects and edema appeared to be dose related. The prevalence rates presented below are based on combined data from placebo-controlled studies involving once daily administration of doxazosin at doses ranging from 1 mg to 16 mg. Table 4 summarizes those adverse experiences (possibly/probably related) reported for patients in these hypertension studies where the prevalence rate in the doxazosin group was at least 0.5% or where the reaction is of particular interest.

**TABLE 4 ADVERSE REACTIONS DURING PLACEBO-CONTROLLED STUDIES**

	<b>HYPERTENSION</b>	
	<b>DOXAZOSIN (N=339)</b>	<b>PLACEBO (N=336)</b>
<b>CARDIOVASCULAR SYSTEM</b>		
Dizziness	19%	9%
Vertigo	2%	1%

Postural Hypotension	0.3%	0%
Edema	4%	3%
Palpitation	2%	3%
Arrhythmia	1%	0%
Hypotension	1%	0%
Tachycardia	0.3%	1%
Peripheral Ischemia	0.3%	0%
<b>SKIN &amp; APPENDAGES</b>		
Rash	1%	1%
Pruritus	1%	1%
<b>MUSCULOSKELETAL SYSTEM</b>		
Arthralgia/Arthritis	1%	0%
Muscle Weakness	1%	0%
Myalgia	1%	0%
<b>CENTRAL &amp; PERIPHERAL N.S.</b>		
Headache	14%	16%
Paresthesia	1%	1%
Kinetic Disorders	1%	0%
Ataxia	1%	0%
Hypertonia	1%	0%
Muscle Cramps	1%	0%
<b>AUTONOMIC</b>		
Mouth Dry	2%	2%
Flushing	1%	0%
<b>SPECIAL SENSES</b>		
Vision Abnormal	2%	1%
Conjunctivitis/Eye Pain	1%	1%
Tinnitus	1%	0.3%
<b>PSYCHIATRIC</b>		
Somnolence	5%	1%
Nervousness	2%	2%
Depression	1%	1%
Insomnia	1%	1%
Sexual Dysfunction	2%	1%
<b>GASTROINTESTINAL</b>		
Nausea	3%	4%
Diarrhea	2%	3%
Constipation	1%	1%
Dyspepsia	1%	1%
Flatulence	1%	1%
Abdominal Pain	0%	2%
Vomiting	0%	1%
<b>RESPIRATORY</b>		
Rhinitis	3%	1%
Dyspnea	1%	1%
Epistaxis	1%	0%
<b>URINARY</b>		
Polyuria	2%	0%

Urinary Incontinence	1%	0%
Micturition Frequency	0%	2%
<b>GENERAL</b>		
Fatigue/Malaise	12%	6%
Chest Pain	2%	2%
Asthenia	1%	1%
Face Edema	1%	0%
Pain	2%	2%

Additional adverse reactions have been reported, but these are, in general, not distinguishable from symptoms that might have occurred in the absence of exposure to doxazosin. The following adverse reactions occurred with a frequency of between 0.5% and 1%: syncope, hypoesthesia, increased sweating, agitation, increased weight. The following additional adverse reactions were reported by < 0.5% of 3,960 patients who received doxazosin in controlled or open, short- or long-term clinical studies, including international studies. *Cardiovascular System*: angina pectoris, myocardial infarction, cerebrovascular accident; *Autonomic Nervous System*: pallor; *Metabolic*: thirst, gout, hypokalemia; *Hematopoietic*: lymphadenopathy, purpura; *Reproductive System*: breast pain; *Skin Disorders*: alopecia, dry skin, eczema; *Central Nervous System*: paresis, tremor, twitching, confusion, migraine, impaired concentration; *Psychiatric*: paroniria, amnesia, emotional lability, abnormal thinking, depersonalization; *Special Senses*: parosmia, earache, taste perversion, photophobia, abnormal lacrimation; *Gastrointestinal System*: increased appetite, anorexia, fecal incontinence, gastroenteritis; *Respiratory System*: bronchospasm, sinusitis, coughing, pharyngitis; *Urinary System*: renal calculus; *General Body System*: hot flushes, back pain, infection, fever/rigors, decreased weight, influenza-like symptoms.

Doxazosin has not been associated with any clinically significant changes in routine biochemical tests. No clinically relevant adverse effects were noted on serum potassium, serum glucose, uric acid, blood urea nitrogen, creatinine or liver function tests. Doxazosin has been associated with decreases in white blood cell counts (see PRECAUTIONS: Leukopenia/Neutropenia).

In post-marketing experience the following additional adverse reactions have been reported: *Autonomic Nervous System*: priapism; *Central Nervous System*: hypoesthesia; *Endocrine System*: gynecomastia; *Gastrointestinal System*: vomiting; *General Body System*: allergic reaction; *Heart Rate/Rhythm*: bradycardia; *Hematopoietic*: leukopenia, thrombocytopenia; *Liver/Biliary System*: hepatitis, hepatitis cholestatic; *Respiratory System*: bronchospasm aggravated; *Skin Disorders*: urticaria; *Special Senses*: Intraoperative Floppy Iris Syndrome (see PRECAUTIONS: General: Cataract Surgery); *Urinary System*: hematuria, micturition disorder, micturition frequency, nocturia.

## OVERDOSAGE

Experience with doxazosin overdose is limited. Two adolescents who each intentionally ingested 40 mg doxazosin with diclofenac or acetaminophen, were treated with gastric lavage with activated charcoal and made full recoveries. A two-year-old child who accidentally ingested 4 mg doxazosin was treated with gastric lavage and remained normotensive during the five-hour emergency room observation period. A six-month-old child accidentally received a crushed 1 mg tablet of doxazosin and was reported to have been drowsy. A 32-year-old female with chronic renal failure, epilepsy and depression intentionally ingested 60 mg doxazosin (blood level 0.9 mcg/mL; normal values in hypertensives = 0.02 mcg/mL); death was attributed to a grand mal seizure resulting from hypotension. A 39-year-old female who ingested 70 mg doxazosin, alcohol and flurazepam developed hypotension which responded to fluid therapy.

The oral LD<sub>50</sub> of doxazosin is greater than 1000 mg/kg in mice and rats. The most likely manifestation of overdose would be hypotension, for which the usual treatment would be intravenous infusion of fluid. As doxazosin is highly protein bound, dialysis would not be indicated.

## DOSAGE AND ADMINISTRATION

**DOSAGE MUST BE INDIVIDUALIZED.** The initial dosage of doxazosin tablets in patients with hypertension and/or BPH is 1 mg given once daily in the a.m. or p.m. This starting dose is intended to minimize the frequency of postural hypotension and first dose syncope associated with doxazosin tablets. Postural effects are most likely to occur between 2 and 6 hours after a dose. Therefore blood pressure measurements should be taken during this time period after the first dose and with each increase in dose. If doxazosin tablet administration is discontinued for several days, therapy should be restarted using the initial dosing regimen.

Concomitant administration of doxazosin tablets with a PDE-5 inhibitor can result in additive blood pressure lowering effects and symptomatic hypotension; therefore, PDE-5 inhibitor therapy should be initiated at the lowest dose in patients taking doxazosin tablets.

### **Benign Prostatic Hyperplasia 1 mg to 8 mg Once Daily**

The initial dosage of doxazosin tablets is 1 mg, given once daily in the a.m. or p.m. Depending on the individual patient's urodynamics and BPH symptomatology, dosage may then be increased to 2 mg and thereafter to 4 mg and 8 mg once daily, the maximum recommended dose for BPH. The recommended titration interval is 1 to 2 weeks. Blood pressure should be evaluated routinely in these patients.

### **Hypertension 1 mg to 16 mg Once Daily**

The initial dosage of doxazosin tablets is 1 mg given once daily. Depending on the individual patient's standing blood pressure response (based on measurements taken at 2 to 6 hours post-dose and 24 hours post-dose), dosage may then be increased to 2 mg and thereafter if necessary to 4 mg, 8 mg and 16 mg to achieve the desired reduction in blood pressure. **Increases in dose beyond 4 mg increase the likelihood of excessive postural effects including syncope, postural dizziness/vertigo and postural hypotension. At a titrated dose of 16 mg once daily the frequency of postural effects is about 12% compared to 3% for placebo.**

## HOW SUPPLIED

Doxazosin Tablets, USP are available as tablets for oral administration. Each tablet contains doxazosin mesylate, USP equivalent to 4 mg of doxazosin.

The 4 mg are available as blue, round tablets debossed with **M** over **D11** on one side of the tablet and scored on the other side. They are available as follows:

NDC 33261-0658-30  
bottles of 30 tablets

**Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature.]**

Dispense in a tight, light-resistant container as defined in the USP using a child-resistant closure.

**PHARMACIST:** Dispense a Patient Information Leaflet with each prescription.

## **PATIENT INFORMATION ABOUT DOXAZOSIN TABLETS, USP (dox az' oh sin) FOR BENIGN PROSTATIC HYPERPLASIA (BPH)**

Read this leaflet:

- before you start taking doxazosin tablets.
- each time you get a new prescription.

You and your doctor should discuss this treatment and your BPH symptoms before you start taking

doxazosin tablets and at your regular checkups. This leaflet does NOT take the place of discussions with your doctor.

Doxazosin tablets are used to treat both benign prostatic hyperplasia (BPH) and high blood pressure (hypertension). This leaflet describes doxazosin tablets as treatment for BPH (although you may be taking doxazosin tablets for both your BPH and high blood pressure).

**WHAT IS BPH:** BPH is an enlargement of the prostate gland. This gland surrounds the tube that drains the urine from the bladder. The symptoms of BPH can be caused by a tensing of the enlarged muscle in the prostate gland which blocks the passage of urine. This can lead to such symptoms as:

- a weak or start-and-stop stream when urinating
- a feeling that the bladder is not completely emptied after urination
- a delay or difficulty in the beginning of urination
- a need to urinate often during the day and especially at night
- a feeling that you must urinate immediately.

**TREATMENT OPTIONS FOR BPH:** The four main treatment options for BPH are:

- If you are not bothered by your symptoms, you and your doctor may decide on a program of "watchful waiting". It is not an active treatment like taking medication or surgery but involves having regular checkups to see if your condition is getting worse or causing problems.
- Treatment with doxazosin tablets or other similar drugs. Doxazosin tablets is the medication your doctor has prescribed for you. See "What Doxazosin Tablets Do", below.
- Treatment with the medication class of 5-alpha reductase inhibitors (e.g., finasteride). It can cause the prostate to shrink. It may take 6 months or more for the full benefit of finasteride to be seen.
- Various surgical procedures. Your doctor can describe these procedures to you. The best procedure for you depends on your BPH symptoms and medical condition.

**WHAT DOXAZOSIN TABLETS DO:** Doxazosin tablets work on a specific type of muscle found in the prostate, causing it to relax. This in turn decreases the pressure within the prostate, thus improving the flow of urine and your symptoms.

- Doxazosin tablets help relieve the symptoms of BPH (weak stream, start-and-stop stream, a feeling that your bladder is not completely empty, delay in beginning of urination, need to urinate often during the day and especially at night, and feeling that you must urinate immediately). It does not change the size of the prostate. The prostate may continue to grow; however a larger prostate is not necessarily related to more symptoms or to worse symptoms. Doxazosin tablets can decrease your symptoms and improve urinary flow, without decreasing the size of the prostate.
- If doxazosin tablets are helping you, you should notice an affect within 1 to 2 weeks after you start your medication. Doxazosin tablets have been studied in over 900 patients for up to 2 years and the drug has been shown to continue to work during long-term treatment. Even though you take doxazosin tablets and it may help you, doxazosin tablets may not prevent the need for surgery in the future.
- Doxazosin tablets do not affect PSA levels. PSA is the abbreviation for Prostate Specific Antigen. Your doctor may have done a blood test called PSA. You may want to ask your doctor more about this if you have had a PSA test done.

**OTHER IMPORTANT FACTS:**

- You should see an improvement of your symptoms within 1 to 2 weeks. In addition to your other regular checkups you will need to continue seeing your doctor regularly to check your progress regarding your BPH and to monitor your blood pressure.
- Doxazosin Mesylate is not a treatment for prostate cancer. Your doctor has prescribed doxazosin tablets for your BPH and not for prostate cancer; however, a man can have BPH and prostate cancer at the same time. Doctors usually recommend that men be checked for prostate cancer once a year when they turn 50 (or 40 if a family member has had prostate cancer). A higher incidence of prostate

cancer has been noted in men of African-American descent. These checks should continue even if you are taking doxazosin tablets.

**HOW TO TAKE DOXAZOSIN TABLETS AND WHAT YOU SHOULD KNOW WHILE TAKING DOXAZOSIN TABLETS FOR BPH: Doxazosin Tablets Can Cause a Sudden Drop in Blood Pressure After the VERY FIRST DOSE.** You may feel dizzy, faint or "light-headed", especially after you stand up from a lying or sitting position. This is more likely to occur after you've taken the first few doses or if you increase your dose, but can occur at any time while you are taking the drug. It can also occur if you stop taking the drug and then restart treatment. If you feel very dizzy, faint or "light-headed" you should contact your doctor. Your doctor will discuss with you how often you need to visit and how often your blood pressure should be checked.

Your blood pressure should be checked when you start taking doxazosin tablets even if you do not have high blood pressure (hypertension). Your doctor will discuss with you the details of how blood pressure is measured.

**Blood Pressure Measurement:** Whatever equipment is used, it is usual for your blood pressure to be measured in the following way: measure your blood pressure after lying quietly on your back for five minutes. Then, after standing for two minutes measure your blood pressure again. Your doctor will discuss with you what other times during the day your blood pressure should be taken, such as two to six hours after a dose, before bedtime or after waking up in the morning. Note that moderate to high-intensity exercise can, over a period of time, lower your average blood pressure.

You can take doxazosin tablets either in the morning or at bedtime and it will be equally effective. If you take doxazosin tablets at bedtime but need to get up from bed to go to the bathroom, get up slowly and cautiously until you are sure how the medication affects you. It is important to get up slowly from a chair or bed at any time until you learn how you react to doxazosin tablets. You should not drive or do any hazardous tasks until you are used to the effects of the medication. If you begin to feel dizzy, sit or lie down until you feel better.

- You will start with a 1 mg dose of doxazosin tablets once daily. Then the once daily dose will be increased as your body gets used to the effects of the medication. Follow your doctor's instructions about how to take doxazosin tablets. You must take it every day at the dose prescribed. Talk with your doctor if you don't take it for a few days for some reason; you may then need to restart the medication at a 1 mg dose. Increase your dose gradually and again be cautious about possible dizziness. Do not share doxazosin tablets with anyone else; it was prescribed only for you.
- Other side effects you could have while taking doxazosin tablets, in addition to lowering of the blood pressure, include dizziness, fatigue (tiredness), swelling of the feet and shortness of breath. Most side effects are mild. However, you should discuss any unexpected effects you notice with your doctor.
- **WARNING:** Extremely rarely, doxazosin tablets and similar medications have caused painful erection of the penis, sustained for hours and unrelieved by sexual intercourse or masturbation. This condition is serious, and if untreated it can be followed by permanent inability to have an erection. If you have a prolonged abnormal erection, call your doctor or go to an emergency room as soon as possible.
- Tell your surgeon if you take or have taken doxazosin tablets if you plan to have surgery for cataracts (clouding of the eye). During cataract surgery, a condition called Intraoperative Floppy Iris Syndrome (IFIS) can happen if you take or have taken doxazosin tablets.
- If you use doxazosin tablets with an oral erectile dysfunction medicine (phosphodiesterase-5 (PDE-5) inhibitor), it can cause a sudden drop in your blood pressure and you can become dizzy or faint. Talk with your healthcare provider before using PDE-5 inhibitors.
- Keep doxazosin tablets and all medicines out of the reach of children.

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



**FOR MORE INFORMATION ABOUT DOXAZOSIN TABLETS AND BPH TALK WITH YOUR DOCTOR, NURSE, PHARMACIST OR OTHER HEALTH CARE PROVIDER.**

Mylan Pharmaceuticals Inc.  
Morgantown, WV 26505 U.S.A.

Repackaged By :  
Aidarex Pharmaceuticals LLC,  
Corona, CA 92880

REVISED APRIL 2011  
DXZN:R7ppt/PL:DXZN:R4p

**PRINCIPAL DISPLAY PANEL - 4 mg**

**NDC 33261-0658-30**

**Doxazosin  
Tablets, USP  
4 mg\***

**PHARMACIST: Dispense the  
accompanying Patient Information  
Leaflet to each patient.**

**Rx only 30 TABLETS**

\*Each tablet contains  
doxazosin mesylate, USP  
equivalent to 4 mg doxazosin.

Dispense in a tight, light-resistant  
container as defined in the USP  
using a child-resistant closure.

Keep container tightly closed.

**Keep this and all medication  
out of the reach of children.**

**Store at 20° to 25°C (68° to 77°F ).  
[See USP Controlled Room  
Temperature.]**

**Usual Dosage:** See accompanying  
prescribing information.

**Mylan Pharmaceuticals Inc.**  
Morgantown, WV 26505 U.S.A.

**[www.mylan.com](http://www.mylan.com)**

Repackaged By :  
Aidarex Pharmaceuticals LLC,  
Corona, CA 92880

**RM4024A3**

CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT. KEEP OUT OF REACH OF CHILDREN. STORE AT CONTROLLED ROOM TEMP. 15-30C (59-86F)

Packaged and Distributed by: **AIDAREX PHARMACEUTICALS LLC.**

**DOXAZOSIN**

**4mg**

**30 TABS**

GENERIC FOR: **CARDURA**

NDC: **33261-0658-30** TAKE \_\_\_\_\_ EVERY \_\_\_\_\_ HOURS \_\_\_\_\_ TIMES A DAY

TOME \_\_\_\_\_ CADA \_\_\_\_\_ HORAS \_\_\_\_\_ VECES AL DIA

MFG: ALPHAPHARM PTY LTD AUSTRALIA

DOXAZOSIN 4mg 30  
NDC: 33261-0658-30  
RXQLS0000

DOXAZOSIN 4mg 30  
NDC: 33261-0658-30  
RXQLS0000

DOXAZOSIN 4mg 30  
NDC: 33261-0658-30  
RXQLS0000

DOXAZOSIN 4mg 30  
NDC: 33261-0658-30  
RXQLS0000

RX QLS0000

PATIENT LOG CHART BILL

## DOXAZOSIN

doxazosin mesylate tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:33261-658(NDC:0378-4024)
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DOXAZOSIN MESYLATE (UNII: 86P6PQK0MU) (DOXAZOSIN - UNII:NW1291F1W8)	DOXAZOSIN	4 mg

### Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
SODIUM LAURYL SULFATE (UNII: 368GB5141J)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	

### Product Characteristics

Color	BLUE	Score	2 pieces
Shape	ROUND	Size	9mm
Flavor		Imprint Code	M;D11
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:33261-658-30	30 in 1 BOTTLE, PLASTIC		
<b>Marketing Information</b>				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA075509	10/27/2011		

**Labeler** - Aidarex Pharmaceuticals LLC (801503249)

Revised: 12/2013

Aidarex Pharmaceuticals LLC