Losartan Potassium Tablets, for oral use

Initial U.S. Approval: 1995

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use LOSARTAN POTASSIUM TABLETS safely and effectively. See full prescribing information for LOSARTAN POTASSIUM TABLETS.

LOSARTAN POTASSIUM Tablets, for oral use

See full prescribing information for complete boxed warning.

WARNING: FETAL TOXICITY

When pregnancy is detected, discontinue Losartan potassium as soon as possible. Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus. (5.3)

Warnings and Precautions

Hyperkalemia (5.4)

Hyperkalemia has been reported in patients treated with Losartan potassium tablets. If hyperkalemia occurs, discontinue Losartan potassium. (5.4)

Hypertension

Usual adult dose: 50 mg once daily. (2.1)

Usual pediatric starting dose: 0.7 mg per kg once daily (up to 50 mg). (2.1)

Hypertensive Patients with Left Ventricular Hypertrophy

Usual starting dose: 50 mg once daily. (2.2)

Add hydrochlorothiazide 12.5 mg and/or increase Losartan Potassium to 100 mg followed by an increase to hydrochlorothiazide 25 mg if further blood pressure response is needed. (2.2, 4.2)

Nephropathy in Type 2 Diabetic Patients

Usual dose: 50 mg once daily. (2.3)

Increase dose to 100 mg once daily if further blood pressure response is needed. (2.3)

Dosage and Administration

Losartan potassium tablets are angiotensin II receptor blocker (ARB) indicated for:

- Hypertension
- Nephropathy in Type 2 Diabetic Patients
- Hypertensive Patients with Left Ventricular Hypertrophy
- Hypertension
- Nephropathy in Type 2 Diabetic Patients
- Hypertensive Patients with Left Ventricular Hypertrophy
- Hypertension

Dosage Forms and Strengths

Tablets: 25 mg; 50 mg; and 100 mg. (3)

- Hypersensitivity to any component. (4)
- Co-administration with aliskiren in patients with diabetes. (4)
- Hypersensitivity to any component. (4)
- Co-administration with aliskiren in patients with diabetes. (4)

Contraindications

- Losartan potassium is not recommended in pediatric patients less than 6 years of age or in pediatric patients with glomerular filtration rate less than 30 mL/min/1.73 m². (2.1, 8.4)
- Hepatic Impairment: Recommended starting dose 25 mg once daily. (2.4, 8.1, 12.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2019

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10 niedrug prescribing information for complete boxed warning.

1088 or www.fda.gov/medwatch.

To report SUSPECTED ADVERSE REACTIONS, contact Unichem at 1-866-562-4616 or FDA at 1-800-FDA
INDICATIONS AND USAGE

1.1 Hypertension
Losartan potassium tablets are indicated for the treatment of hypertension in adults and pediatric patients 6 years of age and older, to lower blood pressure. Lowering blood pressure lowers the risk of fatal and nonfatal cardiovascular (CV) events, primarily strokes and myocardial infarction. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including losartan.

Control of high blood pressure should be part of comprehensive cardiovascular risk management, including, as appropriate, lipid control, diabetes management, antithrombotic therapy, smoking cessation, exercise, and limited sodium intake. Many patients will require more than 1 drug to achieve blood pressure goals. For specific advice on goals and management, see published guidelines, such as those of the National High Blood Pressure Education Program’s Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC).

Numerous antihypertensive drugs, from a variety of pharmacologic classes and with different mechanisms of action, have been shown in randomized controlled trials to reduce cardiovascular morbidity and mortality, and it can be concluded that it is blood pressure reduction, and not some other pharmacologic property of the drugs, that is largely responsible for those benefits. The largest and most consistent cardiovascular outcome benefit has been a reduction in the risk of stroke, but reductions in myocardial infarction and cardiovascular mortality also have been seen regularly.

Elevated systolic or diastolic pressure causes increased cardiovascular risk, and the absolute risk increase per mmHg is greater at higher blood pressures, so that even modest reductions of severe hypertension can provide substantial benefit. Relative risk reduction from blood pressure reduction is similar across populations with varying absolute risk, so the absolute benefit is greater in patients who are at higher risk independent of their baseline risk (for example, patients with diabetes or hyperlipidemia), and such patients would be expected to benefit from more aggressive treatment to a lower blood pressure goal.

Some antihypertensive drugs have smaller blood pressure effects (as monotherapy) in Black patients, and many antihypertensive drugs have additional approved indications and effects (e.g., on angina, heart failure, or diabetic kidney disease). These considerations may guide selection of therapy.

Losartan potassium tablets may be administered with other antihypertensive agents.

1.2 Hypertensive Patients with Left Ventricular Hypertrophy
Losartan potassium tablets are indicated to reduce the risk of stroke in patients with hypertension and left ventricular hypertrophy, but there is evidence that this benefit does not apply to Black patients (see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)).

1.3 Nephropathy in Type 2 Diabetic Patients
Losartan potassium tablets are indicated for the treatment of diabetic nephropathy with an elevated serum creatinine and proteinuria (urinary albumin to creatinine ratio ≥ 300 mg/g) in patients with type 2 diabetes and a history of hypertension. In this population, losartan potassium tablets reduce the rate of progression of nephropathy as measured by the occurrence of doubling of serum creatinine or end stage renal disease (need for dialysis or renal transplantation) (see Clinical Studies (14.3)).

2 DOSAGE AND ADMINISTRATION

2.1 Hypertension

Adult Hypertension
The usual starting dose of losartan potassium tablets is 50 mg once daily. The dosage can be increased to a maximum dose of 100 mg once daily as needed to control blood pressure (see Clinical Studies (14.1)). A starting dose of 25 mg is recommended for patients with possible intravascular depletion (e.g., on diuretic therapy).

Pediatric Hypertension
The usual recommended starting dose is 0.7 mg per kg once daily (up to 50 mg total) administered as a tablet or a suspension (see Dosage and Administration (2.5)). Dosage should be adjusted according to blood pressure response. Doses above 1.4 mg per kg (or in excess of 100 mg) daily have not been studied in pediatric patients (see Clinical Pharmacology (12.3), Clinical Studies (14.1), and Warnings and Precautions (5.2)).

Losartan potassium tablets are not recommended in pediatric patients less than 6 years of age or in pediatric patients with estimated glomerular filtration rate less than 30 mL/min/1.73 m² (see Use in
Blood and lymphatic system disorders: Anemia.

The following less common adverse reactions have been reported:
- Infection (8% vs. 7%)
- Nasal congestion (2% vs. 1%)
- Back pain (2% vs. 1%)

Losartan potassium and more commonly than placebo were:
- Dizziness (3% vs. 2%)
- Upper respiratory over 300 patients given placebo.
The adverse events that occurred in ≥2% of patients treated with clinical trials involving over 1000 patients on various doses (10-150 mg) of losartan potassium and occurred in 2.3% of patients treated with losartan potassium and 3.7% of patients given placebo. In 4 clinical trials involving over 1000 patients on various doses (10-150 mg) of losartan potassium and over 300 patients given placebo, the adverse events that occurred in ≥2% of patients treated with losartan potassium and more commonly than placebo were:
- Dizziness (3% vs 2%)
- Upper respiratory infection (8% vs. 7%)
- Renal congestion (2% vs. 1%)
- Back pain (2% vs. 1%)

The following less common adverse reactions have been reported:

Blood and lymphatic system disorders: Anemia.
The antihypertensive effect of angiotensin II receptor antagonists, including losartan, may be attenuated by receiving losartan and NSAID therapy. Acute renal failure. These effects are usually reversible. Monitor renal function periodically in patients receiving losartan and NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists (including losartan) may result in deterioration of renal function, including possible renal failure. In patients who are elderly, volume-depleted (including those on diuretic therapy), or with compromised renal function, coadministration of NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists (including losartan) may result in deterioration of renal function, including possible renal failure. These effects are usually reversible. Monitor renal function periodically in patients receiving losartan and NSAID therapy.

**7 DRUG INTERACTIONS**

**7.1 Agents Increasing Serum Potassium**

Coadministration of losartan with other drugs that raise serum potassium levels may result in hyperkalemia. Monitor serum potassium in such patients.

**7.2 Lithium**

Increases in serum lithium concentrations and lithium toxicity have been reported during concomitant administration of lithium with angiotensin II receptor antagonists. Monitor serum lithium levels during concomitant use.

**7.3 Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) Including Selective Cyclooxygenase-2 Inhibitors (COX-2 Inhibitors)**

In patients who are elderly, volume-depleted (including those on diuretic therapy), or with compromised renal function, coadministration of NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists (including losartan) may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible. Monitor renal function periodically in patients receiving losartan and NSAID therapy.

The antihypertensive effect of angiotensin II receptor antagonists, including losartan, may be attenuated by receiving losartan and NSAID therapy.
7.4 Dual Blockade of the Renin-Angiotensin System (RAS)

Dual blockade of the RAS with angiotensin receptor blockers, ACE inhibitors, or aliskiren is associated with increased risks of hypotension, syncope, hyperkalemia, and changes in renal function (including acute renal failure) compared to monotherapy.

The Veterans Affairs Nephropathy in Diabetes (VA NEPHRON-D) trial enrolled 1448 patients with type 2 diabetes, elevated urinary-albumin-to-creatinine ratio, and decreased estimated glomerular filtration rate (GFR 30 to 89.9 mL/min), randomized them to losartan or placebo on a background of losartan therapy and followed them for a median of 2.2 years. Patients receiving the combination of losartan and lisinopril did not obtain any additional benefit compared to monotherapy for the combined endpoint of decline in GFR, end stage renal disease, or death, but experienced an increased incidence of hyperkalemia and acute kidney injury compared with the monotherapy group.

In most patients no benefit has been associated with using two RAS inhibitors concomitantly. In general, avoid combined use of RAS inhibitors. Closely monitor blood pressure, renal function, and electrolytes in patients on losartan potassium and other agents that affect the RAS.

Do not coadminister aliskiren with losartan potassium in patients with diabetes. Avoid use of aliskiren with losartan potassium in patients with renal impairment (GFR <60 mL/min).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category D

Use of drugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal renal function and increases fetal and neonatal morbidity and death. Resulting oligohydramnios can be associated with fetal lung hypoplasia and skeletal deformations. Potential neonatal adverse effects include skull hypoplasia, anuria, hypotension, renal failure, and death. When pregnancy is detected, discontinue losartan potassium as soon as possible. These adverse outcomes are usually associated with use of these drugs in the second and third trimester of pregnancy. Most epidemiologic studies examining fetal abnormalities after exposure to antihypertensive use in the first trimester have not distinguished drugs affecting the renin-angiotensin system from other antihypertensive agents. Appropriate management of maternal hypertension during pregnancy is important to optimize outcomes for both mother and fetus.

In the unusual case that there is no appropriate alternative to therapy with drugs affecting the renin-angiotensin system for a particular patient, apprise the mother of the potential risks to the fetus. Perform serial ultrasound examinations to assess the intra-amniotic environment. If oligohydramnios is observed, discontinue losartan potassium, unless it is considered lifesaving for the mother. Fetal testing may be appropriate, based on the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may not appear until after the fetus has sustained irreversible injury. Closely observe infants with histories of in utero exposure to losartan potassium for hypotension, oliguria, and hyperkalemia [see Use in Specific Populations (8.4)].

Losartan potassium has been shown to produce adverse effects in rat fetuses and neonates, including decreased body weight, delayed physical and behavioral development, mortality and renal toxicity. With the exception of neonatal weight gain (which was affected at doses as low as 10 mg/kg/day), doses associated with these effects exceeded 25 mg/kg/day (approximately three times the maximum recommended human dose of 100 mg on a mg/m² basis). These findings are attributed to drug exposure in late gestation and during lactation. Significant levels of losartan and its active metabolite were shown to be present in rat fetal plasma during late gestation and in rat milk.

8.3 Nursing Mothers

It is not known whether losartan is excreted in human milk, but significant levels of losartan and its active metabolite were shown to be present in rat milk. Because of the potential for adverse effects on the nursing infant, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Neonates with a history of in utero exposure to losartan potassium: If oliguria or hypotension occurs, direct attention toward support of blood pressure and renal perfusion. Exchange transfusion or dialysis may be required as means of reversing hypotension and/or substituting for disordered renal function.

Antihypertensive effects of losartan potassium have been established in hypertensive pediatric patients aged 6 to 16 years. Safety and effectiveness have not been established in pediatric patients under the age of 6 or in pediatric patients with glomerular filtration rate <30 mL/min/1.73 m² [see Dosage and Administration (2.1), Clinical Pharmacology (12.3), and Clinical Studies (14.1)].

8.5 Geriatric Use

Of the total number of patients receiving losartan potassium in controlled clinical studies for hypertension, 391 patients (19%) were 65 years and over, while 37 patients (2%) were 75 years and over. In a controlled clinical study for renal protection in type 2 diabetic patients with proteinuria, 248 patients (33%) were 65 years and over. In a controlled clinical study for the reduction in the combined risk of cardiovascular death, stroke and myocardial infarction in hypertensive patients with left ventricular hypertrophy, 2857 patients (62%) were 65 years and over, while 808 patients (18%) were 75 years and over. No overall differences in effectiveness or safety were observed between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Race

In the LIFE study, Black patients with hypertension and left ventricular hypertrophy treated with atenolol were at lower risk of experiencing the primary composite endpoint compared with Black patients treated with losartan potassium (both cotreated with hydrochlorothiazide in the majority of patients). The primary endpoint was the first occurrence of stroke, myocardial infarction or cardiovascular death, analyzed using an intention-to-treat (ITT) approach. In the subgroup of Black patients (n=533, 6% of the LIFE study patients), there were 29 primary endpoints among 263 patients on atenolol (11%, 26 per 1000 patient-years) and 46 primary endpoints among 270 patients (17%, 42 per 1000 patient-years) on losartan potassium. This finding could not be explained on the basis of differences in the population other than race or on any imbalances between treatment groups. In addition, blood pressure reductions in both treatment groups were consistent between Black and non-Black patients. Given the difficulty in interpreting subset differences in large trials, it cannot be known whether the observed difference is the result of chance. However, the LIFE study provides no evidence that the benefits of losartan potassium on reducing the risk of cardiovascular events in hypertensive patients with left ventricular hypertrophy apply to Black patients [see Clinical Studies (14.2)].

8.7 Renal Impairment

Patients with renal insufficiency have elevated plasma concentrations of losartan and its active metabolite compared to subjects with normal renal function. No dose adjustment is necessary in patients.
Distribution linear with oral losartan doses up to 200 mg and do not change over time. The AUC of the metabolite (~10% decrease). The pharmacokinetics of losartan and its active metabolite are reached in 1 hour and in 3-4 hours, respectively. While absorption of losartan and decreases its Cmax but has only minor effects on losartan AUC or on the (area under the curve) of the metabolite is about 4 times as great as that of losartan. A meal slows metabolism. The systemic bioavailability of losartan is approximately 33%. Mean peak concentrations of losartan and its active metabolite were, respectively, 5 times and 1.7 times those seen in healthy volunteers. Losartan potassium has not been studied in patients with severe hepatic impairment (see Dosage and Administration (2.4) and Clinical Pharmacology (12.3)).

10 OVERDOSAGE
Significant lethality was observed in mice and rats after oral administration of 1000 mg/kg and 2000 mg/kg, respectively, about 44 and 170 times the maximum recommended human dose on a mg/m² basis. Limited data are available in regard to overdosage in humans. The most likely manifestation of overdosage would be hypotension and tachycardia; bradycardia could occur from parasympathetic (vagal) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Neither losartan nor its active metabolite can be removed by hemodialysis.

11 DESCRIPTION
Losartan potassium USP is an angiotensin II receptor blocker acting on the AT1 receptor subtype. Losartan potassium, a non-peptide molecule, is chemically described as 2-buty1-4-chloro-1-[p-(o-hiphenylsulfonyl)phenyl]imidazole-5-methanol monopotassium salt. Its empirical formula is C22H22ClKN3O, and its structural formula is:

Losartan potassium USP is a white to off-white free-flowing crystalline powder with a molecular weight of 461.01. It is freely soluble in water, soluble in alcohols, and slightly soluble in common organic solvents, such as acetone and methyl ethyl ketone. Oxidation of the 5-hydroxymethyl group on the imidazole ring results in the active metabolite of losartan.

Losartan potassium is available as tablets for oral administration containing either 25 mg, 50 mg or 100 mg of losartan potassium USP and the following inactive ingredients: microcrystalline cellulose, lactose monohydrate, pregelatinized starch, sodium starch glycolate, corn starch, magnesium stearate, organic solvents, such as acetonitrile and methyl ethyl ketone. Oxidation of the 5-hydroxymethyl group on the imidazole ring results in the active metabolite of losartan.

Losartan potassium is available for oral administration containing either 25 mg, 50 mg or 100 mg of losartan potassium USP and the following inactive ingredients: microcrystalline cellulose, lactose monohydrate, pregelatinized starch, sodium starch glycolate, corn starch, magnesium stearate, hypromellose, polyethylene glycol, titanium dioxide, D&C yellow no. 10 aluminum lake and FD&C blue no. 2 aluminum lake.

Losartan potassium tablets, USP 25 mg, 50 mg and 100 mg contain potassium in the following amounts: 2.12 mg (0.054 mEq), 4.24 mg (0.108 mEq) and 8.48 mg (0.216 mEq), respectively.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Angiotensin II (formed from angiotensin I in a reaction catalyzed by angiotensin converting enzyme (ACE, kininase II)) is a potent vasoconstrictor, the primary vasoactive hormone of the renin-angiotensin system, and an important component in the pathophysiology of hypertension. It also stimulates aldosterone secretion by the adrenal cortex. Losartan and its principal active metabolite block the angiotensin II receptor found in many tissues (e.g., vascular smooth muscle, adrenal gland). There is also an AT2 receptor found in many tissues but it is not known to be associated with cardiovascular homeostasis. Neither losartan nor its principal active metabolite exhibits any partial agonist activity at the AT1 receptor, and both have much greater affinity (about 1000-fold) for the AT1 receptor than for the AT2 receptor. In vitro binding studies indicate that losartan is a reversible, competitive inhibitor of the AT1 receptor. The active metabolite is 10 to 40 times more potent by weight than losartan and appears to be a reversible, non-competitive inhibitor of the AT1 receptor.

Neither losartan nor its active metabolite inhibits ACE (kininase II, the enzyme that converts angiotensin I to angiotensin II and degrades bradykinin), nor do they bind to or block other hormone receptors or ion channels known to be important in cardiovascular regulation.

12.2 Pharmacodynamics
Losartan inhibits the pressor effect of angiotensin II (as well as angiotensin I) infusion. A dose of 100 mg inhibited the pressor effect by about 85% at peak with 25-40% inhibition persisting for 24 hours. Removal of the negative feedback of angiotensin II causes a doubling in plasma renin activity and consequent rise in angiotensin II plasma concentration in hypertensive patients. Losartan does not affect the response to bradykinin, whereas ACE inhibitors increase the response to bradykinin. Aldosterone plasma concentrations fall following losartan administration. In spite of the effect of losartan on aldosterone secretion, very little effect on serum potassium was observed.

The effect of losartan is substantially present within one week but in some studies the maximal effect occurred in 3-6 weeks. In long-term follow-up studies (without placebo control) the effect of losartan appeared to be maintained for up to a year. There is no apparent rebound effect after abrupt withdrawal of losartan. There was essentially no change in average heart rate in losartan-treated patients in long-term follow-up studies (without placebo control). Losartan does not affect the response to bradykinin, whereas ACE inhibitors increase the response to bradykinin.

12.3 Pharmacokinetics
Absorption: Following oral administration, losartan is well absorbed and undergoes substantial first-pass metabolism. The systemic bioavailability of losartan is approximately 33%. Mean peak concentrations of losartan and its active metabolite are reached in 1 hour and in 3-4 hours, respectively. While maximum plasma concentrations of losartan and its active metabolite are approximately equal, the AUC (area under the curve) of the metabolite is about 4 times as great as that of losartan. A meal slows absorption of losartan and decreases its Cmax but has only minor effects on losartan AUC or on the AUC of the metabolite (~10% decrease). The pharmacokinetics of losartan and its active metabolite are linear with oral losartan doses up to 200 mg and do not change over time.

Distribution: The volume of distribution of losartan and the active metabolite is about 34 liters and 12...
13.3 Carcinogenesis, Mutagenesis, Impairment of Fertility

NONCLINICAL TOXICOLOGY

have a specific, rare defect in cytochrome P450 2C9. These data suggest that the conversion of

not been examined. Subjects who do not metabolize losartan to active metabolite have been shown to

affected by erythromycin, an inhibitor of P450 3A4, but the AUC of losartan was increased by 30%.

approximately 40%, but increased the AUC of losartan by approximately 70% following multiple

Fluconazole, an inhibitor of cytochrome P450 2C9, decreased the AUC of the active metabolite by

shown to decrease the AUC of losartan and its active metabolite by 30% and 40%, respectively. Fluconazole, an inhibitor of cytochrome P450 2C9, decreased the AUC of the active metabolite by approximately 40%, but increased the AUC of losartan by approximately 70% following multiple doses. Conversion of losartan to its active metabolite after intravenous administration is not affected by ketoconazole, an inhibitor of P450 3A4. The AUC of active metabolite following oral losartan was not affected by erythromycin, an inhibitor of P450 3A4, but the AUC of losartan was increased by 30%.

The pharmacodynamic consequences of concomitant use of losartan and inhibitors of P450 2C9 have not been examined. Subjects who do not metabolize losartan to active metabolite have been shown to have a specific, rare defect in cytochrome P450 2C9. These data suggest that the conversion of losartan to its active metabolite is mediated primarily by P450 2C9 and not P450 3A4.

13 NONCLINICAL TOXICOLOGY

13.3 Carcinogenesis, Mutagenesis, Impairment of Fertility

Table 2: Pharmacokinetic Parameters in Hypertensive Adults and Children Age 6-16
Following Multiple Dosing

<table>
<thead>
<tr>
<th>Adults given 50 mg once daily for 7 days</th>
<th>Age 6-16 given 0.7 mg/kg once daily for 7 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent</td>
<td>Active Metabolite</td>
</tr>
<tr>
<td>AUC_{0-24} (ng•hr/mL)*</td>
<td>442 ± 173</td>
</tr>
<tr>
<td>CMAX (ng/mL)†</td>
<td>224 ± 82</td>
</tr>
<tr>
<td>T_{1/2} (h)†</td>
<td>2.1 ± 0.7</td>
</tr>
<tr>
<td>T_{PEAK} (h)*</td>
<td>0.9</td>
</tr>
<tr>
<td>CL_{REN} (ml/min)†</td>
<td>56 ± 23</td>
</tr>
<tr>
<td>Parent</td>
<td>Active Metabolite</td>
</tr>
<tr>
<td>AUC_{0-24} (ng•hr/mL)</td>
<td>1685 ± 452</td>
</tr>
<tr>
<td>CMAX (ng/mL)‡</td>
<td>212 ± 73</td>
</tr>
<tr>
<td>T_{1/2} (h)‡</td>
<td>7.4 ± 2.4</td>
</tr>
<tr>
<td>T_{PEAK} (h)‡</td>
<td>3.5</td>
</tr>
<tr>
<td>CL_{REN} (ml/min)‡</td>
<td>20 ± 3</td>
</tr>
</tbody>
</table>

The bioavailability of the suspension formulation was compared with losartan tablets in healthy adults. The suspension and tablet are similar in their bioavailability with respect to both losartan and the active metabolite [see Dosage and Administration (2.5)].

Geriatric and Gender: Losartan pharmacokinetics have been investigated in the elderly (65-75 years) and in both genders. Plasma concentration of losartan and its active metabolite are similar in elderly and young hypertensives. Plasma concentration of losartan were about twice as high in female hypertensives as male hypertensives, but concentrations of the active metabolite were similar in males and females. No dosage adjustment is necessary [see Dosage and Administration (2.1)].

Race: Pharmacokinetic differences due to race have not been studied [see Use in Specific Populations (8.6)].

Renal Insufficiency: Following oral administration, plasma concentrations and AUCs of losartan and its active metabolite are increased by 50-90% in patients with mild (creatinine clearance of 50 to 74 mL/min) or moderate (creatinine clearance 30 to 49 mL/min) renal insufficiency. In this study, renal clearance was reduced by 55-85% for both losartan and its active metabolite in patients with mild or moderate renal insufficiency. Neither losartan nor its active metabolite can be removed by hemodialysis [see Warnings and Precautions (5.3) and Use in Specific Populations (8.7)].

Hepatic Insufficiency: Following oral administration in patients with mild to moderate alcoholic cirrhosis of the liver, plasma concentrations of losartan and its active metabolite were, respectively, 5-times and about 1.7-times those in young male volunteers. Compared to normal subjects the total plasma clearance of losartan in patients with hepatic insufficiency was about 50% lower and the oral bioavailability was about doubled. Use a starting dose of 25 mg for patients with mild to moderate hepatic impairment. Losartan potassium has not been studied in patients with severe hepatic impairment [see Dosage and Administration (2.4) and Use in Specific Populations (8.8)].

Drug Interactions

No clinically significant drug interactions have been found in studies of losartan potassium with hydrochlorothiazide, digoxin, warfarin, cimetidine and phenobarbital. However, rifampin has been shown to decrease the AUC of losartan and its active metabolite by 30% and 40%, respectively. Fluconazole, an inhibitor of cytochrome P450 2C9, decreased the AUC of the active metabolite by approximately 40%, but increased the AUC of losartan by approximately 70% following multiple doses. Conversion of losartan to its active metabolite after intravenous administration is not affected by ketoconazole, an inhibitor of P450 3A4. The AUC of active metabolite following oral losartan was not affected by erythromycin, an inhibitor of P450 3A4, but the AUC of losartan was increased by 30%.

The pharmacodynamic consequences of concomitant use of losartan and inhibitors of P450 2C9 have not been examined. Subjects who do not metabolize losartan to active metabolite have been shown to have a specific, rare defect in cytochrome P450 2C9. These data suggest that the conversion of losartan to its active metabolite is mediated primarily by P450 2C9 and not P450 3A4.
Losartan potassium was not carcinogenic when administered at maximally tolerated dosages to rats and mice for 105 and 92 weeks, respectively. Female rats given the highest dose (270 mg/kg/day) had a slightly higher incidence of pancreatic acinar adenoma. The maximally tolerated dosages (270 mg/kg/day in rats, 200 mg/kg/day in mice) provided systemic exposures for losartan and its pharmacologically active metabolite that were approximately 160 and 90 times (rat) and 30 and 15 times (mice) the exposure of a 50 kg human given 100 mg per day.

Losartan potassium was negative in the microbial genotoxicity and V-79 mammalian cell mutagenesis assays and in the in vitro alkaline elution and in vitro and in vivo chromosomal aberration assays. In addition, the active metabolite showed no evidence of genotoxicity in the microbial genotoxicity, in vitro alkaline elution, and in vitro chromosomal aberration assays.

Fertility and reproductive performance were not affected in studies with male rats given oral doses of losartan potassium up to approximately 150 mg/kg/day. The administration of toxic dosage levels in females (300/200 mg/kg/day) was associated with a significant (p<0.05) decrease in the number of corpora lutea/female, implant/female, and live fetuses/female at C-section. At 100 mg/kg/day only a decrease in the number of corpora lutea/female was observed. The relationship of these findings to drug-treatment is uncertain since there was no effect at these dosage levels on implants/pregnant female, percent post-implantation loss, or live animals/litter at parturition. In nonpregnant rats dosed at 135 mg/kg/day for 7 days, systemic exposure (AUCs) for losartan and its active metabolite were approximately 66 and 26 times the exposure achieved in man at the maximum recommended human daily dosage (100 mg).

14 CLINICAL STUDIES

14.1 Hypertension

Adult Hypertension

The antihypertensive effects of losartan potassium tablets were demonstrated principally in 4 placebo-controlled, 6- to 12-week trials of dosages from 10 to 150 mg per day in patients with baseline diastolic blood pressures of 95-115. The studies allowed comparisons of two doses (50-100 mg/day) as once-daily or twice-daily regimens, comparison of peak and trough effects, and comparison of response by gender, age, and race. Three additional studies examined the antihypertensive effects of losartan and hydrochlorothiazide in combination.

The 4 studies of losartan monotherapy included a total of 1075 patients randomized to several doses of losartan and 334 to placebo. The 10- and 25-mg doses produced some effect at peak (6 hours after dosing) but small and inconsistent trough (24 hour) responses. Dosages of 50, 100, and 150 mg once daily gave statistically significant systolic/diastolic mean decreases in blood pressure, compared to placebo in the range of 5.5-10.5/3.5-7.5 mm Hg, with the 150-mg dose giving no greater effect than 50-100 mg. Twice-daily dosing at 50-100 mg/day gave consistently larger trough responses than once-daily dosing at the same total dose. Peak (6 hour) effects were uniformly small, but moderately larger than trough effects, with the trough-to-peak ratio for systolic and diastolic responses 50-95% and 60-90%, respectively.

Addition of a low dose of hydrochlorothiazide (12.5 mg) to losartan 50 mg once daily resulted in placebo-adjusted blood pressure reductions of 15.5/9.2 mm Hg.

Analysis of age, gender, and race subgroups of patients showed that men and women, and patients over and under 65, had generally similar responses. Losartan potassium tablets was effective in reducing blood pressure regardless of race, although the effect was somewhat less in Black patients (usually a low-renin population).

Pediatric Hypertension

The antihypertensive effect of losartan was studied in one trial enrolling 177 hypertensive pediatric patients aged 6 to 16 years old. Children who weighed <50 kg received 2.5, 25 or 50 mg of losartan daily and patients who weighed ≥50 kg received 50, 100 or 100 mg of losartan daily. Children in the lowest dose group were given losartan in a suspension formulation (see Dosage and Administration (2.1)). The majority of the children had hypertension associated with renal and ureteral disease. The sitting diastolic blood pressure (SiDBP) on entry into the study was higher than the 95th percentile level for the patient's age, gender, and height. At the end of three weeks, losartan reduced systolic and diastolic blood pressure, measured at trough, in a dose-dependent manner. Overall, the two higher doses (25 to 50 mg in patients <50 kg; 50 to 100 mg in patients ≥50 kg) reduced diastolic blood pressure by 5 to 6 mm Hg more than the lowest dose used (2.5 mg in patients <50 kg; 5 mg in patients ≥50 kg). The lowest dose, corresponding to an average daily dose of 0.07 mg/kg, did not appear to offer consistent antihypertensive efficacy. When patients were randomized to continue losartan at the two higher doses or to placebo after 3 weeks of therapy, trough diastolic blood pressure rose in patients on placebo between 5 and 7 mm Hg more than patients randomized to continuing losartan. When the low dose of losartan was randomly withdrawn, the rise in trough diastolic blood pressure was the same in patients receiving placebo and in those continuing losartan, again suggesting that the lowest dose did not have significant antihypertensive efficacy. Overall, no significant differences in the overall antihypertensive effect of losartan were detected when the patients were analyzed according to age (<, ≥12 years old) or gender. While blood pressure was reduced in all racial subgroups examined, too few non-White patients were enrolled to compare the dose-response of losartan in the non-White subgroup.

14.2 Hypertensive Patients with Left Ventricular Hypertrophy

The LIFE study was a multinational, double-blind study comparing losartan potassium and atenolol in 9193 hypertensive patients with ECG-documented left ventricular hypertrophy. Patients with myocardial infarction or stroke within six months prior to randomization were excluded. Patients were randomized to receive once-daily losartan potassium tablets 50 mg or atenolol 50 mg. If goal blood pressure (<140/90 mm Hg) was not reached, hydrochlorothiazide (12.5 mg) was added first and, if needed, the dose of losartan potassium or atenolol was then increased to 100 mg once daily. If necessary, other antihypertensive treatments (e.g., increase in dose of hydrochlorothiazide to 25 mg or addition of other diuretic therapy, calcium-channel blockers, alpha-blockers, or centrally acting agents, but not ACE inhibitors, angiotensin II antagonists, or beta-blockers) were added to the treatment regimen to reach the goal blood pressure.

Of the randomized patients, 4963 (54%) were female and 533 (6%) were Black. The mean age was 67 with 5784 (62%) age ≥65. At baseline, 1195 (13%) had diabetes, 1326 (14%) had isolated systolic hypertension, 1469 (16%) had coronary heart disease, and 728 (8%) had cerebrovascular disease. Baseline mean blood pressure was 174.9/98 mm Hg, in both treatment groups. The mean length of follow-up was 4.8 years. At the end of study or at the last visit before a primary endpoint, 77% of the group treated with losartan potassium and 73% of the group treated with atenolol were still taking study medication. Of the patients still taking study medication, the mean doses of losartan potassium and atenolol were both around 80 mg/day, and 15% were taking atenolol or losartan as monotherapy, while 77% were also receiving hydrochlorothiazide (at a mean dose of 20 mg/day in each group). Blood pressure reduction measured at trough was similar for both treatment groups but blood pressure was not measured at any other time of the day. At the end of study or at the last visit before a primary endpoint, the mean blood pressures were 144/101.3 mm Hg for the group treated with losartan potassium and 145.4/90.9 mm Hg for the group treated with atenolol; the difference in systolic blood pressure (SBP) of 1.3 mm Hg was significant (p<0.001), while the difference of 0.4 mm Hg in diastolic blood pressure was not
(DBP) was not significant (p=0.098).

The primary endpoint was the first occurrence of cardiovascular death, nonfatal stroke, or nonfatal myocardial infarction. Patients with nonfatal events remained in the trial, so that there was also an examination of the first event of each type even if it was not the first event (e.g., a stroke following an initial myocardial infarction would be counted in the analysis of stroke). Treatment with losartan potassium resulted in a 13% reduction (p=0.021) in risk of the primary endpoint compared to the atenolol group (see Figure 1 and Table 3); this difference was primarily the result of an effect on fatal and nonfatal stroke. Treatment with losartan potassium reduced the risk of stroke by 25% relative to atenolol (p=0.001) (see Figure 2 and Table 3).

Figure 1: Kaplan-Meier estimates of the primary endpoint of time to cardiovascular death, nonfatal stroke, or nonfatal myocardial infarction in the groups treated with losartan potassium and atenolol. The Risk Reduction is adjusted for baseline Framingham risk score and level of electrocardiographic left ventricular hypertrophy.

Figure 2: Kaplan-Meier estimates of the time to fatal/nonfatal stroke in the groups treated with losartan potassium and atenolol. The Risk Reduction is adjusted for baseline Framingham risk score and level of electrocardiographic left ventricular hypertrophy.

Table 3 shows the results for the primary composite endpoint and the individual endpoints. The primary endpoint was the first occurrence of stroke, myocardial infarction or cardiovascular death, analyzed using an ITT approach. The table shows the number of events for each component in two different ways. The Components of Primary Endpoint (as a first event) counts only the events that define the primary endpoint, while the Secondary Endpoints count all first events of a particular type, whether or not they were preceded by a different type of event.

<table>
<thead>
<tr>
<th>Table 3: Incidence of Primary Endpoint Events</th>
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<tr>
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<tr>
<td>Primary Composite Endpoint</td>
</tr>
<tr>
<td>Stroke (nonfatal)</td>
</tr>
<tr>
<td>Myocardial infarction (nonfatal)</td>
</tr>
<tr>
<td>Cardiovascular mortality</td>
</tr>
<tr>
<td>Secondary Endpoints (any time in study)</td>
</tr>
<tr>
<td>Stroke (fatal/nonfatal)</td>
</tr>
<tr>
<td>Myocardial infarction (fatal/nonfatal)</td>
</tr>
<tr>
<td>Cardiovascular mortality</td>
</tr>
<tr>
<td>Due to CHD</td>
</tr>
<tr>
<td>Due to Stroke</td>
</tr>
<tr>
<td>Other&lt;sup&gt;‡&lt;/sup&gt;</td>
</tr>
</tbody>
</table>
Although the LIFE study favored losartan potassium over atenolol with respect to the primary endpoint (p=0.021), this result is from a single study and, therefore, is less compelling than the difference between losartan potassium and placebo. Although not measured directly, the difference between losartan potassium and placebo is compelling because there is evidence that atenolol is itself effective (vs. placebo) in reducing cardiovascular events, including stroke, in hypertensive patients.

Other clinical endpoints of the LIFE study were: total mortality, hospitalization for heart failure or angina pectoris, coronary or peripheral revascularization procedures, and resuscitated cardiac arrest. There were no significant differences in the rates of these endpoints between the losartan potassium and atenolol groups.

For the primary endpoint and stroke, the effects of losartan potassium in patient subgroups defined by age, gender, race and presence or absence of isolated systolic hypertension (ISH), diabetes, and history of cardiovascular disease (CVD) are shown in Figure 3 below. Subgroup analyses can be difficult to interpret and it is not known whether these represent true differences or chance effects.

**Figure 3: Primary Endpoint Events within Demographic Subgroups**

14.3 Nephropathy in Type 2 Diabetic Patients

The RENAAL study was a randomized, placebo-controlled, double-blind, multicenter study conducted worldwide in 1513 patients with type 2 diabetes with nephropathy (serum creatinine 1.3 to 3.0 mg/dL in females or males ≤60 kg and 1.5 to 3.0 mg/dL in males >60 kg and proteinuria [urinary albumin to creatinine ratio ≥300 mg/g]).

Patients were randomized to receive losartan potassium tablets, 50 mg once daily or placebo on a background of conventional antihypertensive therapy excluding ACE inhibitors and angiotensin II antagonists. After one month, investigators were instructed to titrate study drug to 100 mg once daily if the trough blood pressure goal (140/90 mmHg) was not achieved. Overall, 72% of patients received the 100-mg daily dose more than 50% of the time they were on study drug. Because the study was designed to achieve equal blood pressure control in both groups, other antihypertensive agents (diuretics, calcium-channel blockers, alpha-or beta-blockers, and centrally acting agents) could be added as needed in both groups. Patients were followed for a mean duration of 3.4 years.

The study population was diverse with regard to race (Asian 16.7%, Black 15.2%, Hispanic 18.3%, White 48.6%). Overall, 63.2% of the patients were men, and 66.4% were under the age of 65 years. Almost all of the patients (96.6%) had a history of hypertension, and the patients entered the trial with a mean serum creatinine of 1.9 mg/dL and mean proteinuria (urinary albumin/creatinine) of 1808 mg/g at baseline.

The primary endpoint of the study was the time to first occurrence of any one of the following events: doubling of serum creatinine, end-stage renal disease (ESRD) (need for dialysis or transplantation), or death. Treatment with losartan potassium resulted in a 16% risk reduction in this endpoint (see Figure 4 and Table 4). Treatment with losartan potassium also reduced the occurrence of sustained doubling of serum creatinine by 25% and ESRD by 29% as separate endpoints, but had no effect on overall mortality (see Table 4).

The mean baseline blood pressures were 152/82 mmHg for losartan potassium plus conventional antihypertensive therapy and 153/82 mmHg for placebo plus conventional antihypertensive therapy. At the end of the study, the mean blood pressures were 143/76 mmHg for the group treated with losartan potassium and 146/77 mmHg for the group treated with placebo.
The secondary endpoints of the study were change in proteinuria, change in the rate of progression of renal disease, and the composite of morbidity and mortality from cardiovascular causes (hospitalization for heart failure, myocardial infarction, revascularization, stroke, hospitalization for unstable angina, or cardiovascular death). Compared with placebo, losartan potassium significantly reduced proteinuria by an average of 34%, an effect that was evident within 3 months of starting therapy, and significantly reduced the rate of decline in glomerular filtration rate during the study by 13%, as measured by the reciprocal of the serum creatinine concentration. There was no significant difference in the incidence of the composite endpoint of cardiovascular morbidity and mortality.

The favorable effects of losartan potassium were seen in patients also taking other anti-hypertensive medications (angiotensin II receptor antagonists and angiotensin converting enzyme inhibitors were not allowed), oral hypoglycemic agents and lipid-lowering agents.

For the primary endpoint and ESRD, the effects of losartan potassium in patient subgroups defined by age, gender and race are shown in Table 5 below. Subgroup analyses can be difficult to interpret and it is not known whether these represent true differences or chance effects.

### Table 5: Efficacy Outcomes within Demographic Subgroups

<table>
<thead>
<tr>
<th>No. of Patients</th>
<th>Primary Composite Endpoint</th>
<th>ESRD</th>
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<tr>
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<td>Losartan potassium Event Rate</td>
<td>Placebo Event Rate</td>
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<td>Overall Results</td>
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<td>43.5</td>
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<tr>
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<td></td>
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<tr>
<td>&lt;65 years</td>
<td>1005</td>
<td>44.1</td>
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<tr>
<td>≥65 years</td>
<td>508</td>
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<tr>
<td>Gender</td>
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<td></td>
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<tr>
<td>Female</td>
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<td>Male</td>
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<td>40.9</td>
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<tr>
<td>Race</td>
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<td></td>
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<tr>
<td>Asian</td>
<td>252</td>
<td>41.9</td>
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<tr>
<td>Black</td>
<td>230</td>
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<td>Hispanic</td>
<td>277</td>
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<tr>
<td>White</td>
<td>735</td>
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### 16 HOW SUPPLIED/STORAGE AND HANDLING

**Losartan potassium tablets, USP** are supplied as:

**Losartan potassium tablets, USP 25 mg:**
- Green to light green, oval shaped, biconvex, film coated tablets with code “144” debossed on one side and “U” on other side.
- Bottles of 30: NDC 29300-144-13
- Bottles of 90: NDC 29300-144-19
- Bottles of 100: NDC 29300-144-01
- Bottles of 1000: NDC 29300-144-10

**Losartan potassium tablets, USP 50 mg:**
- Green to light green, oval shaped, biconvex, film coated tablets with code “145” debossed on one side and “U” and scored on other side.
- Bottles of 30: NDC 29300-145-13
- Bottles of 90: NDC 29300-145-19
Bottles of 100: NDC 29300-145-01
Bottles of 1000: NDC 29300-145-10

Losartan potassium tablets, USP 100 mg:
Green to light green, oval shaped, biconvex, film coated tablets with code “146” debossed on one side and “U” on other side.

Bottles of 30: NDC 29300-146-13
Bottles of 90: NDC 29300-146-19
Bottles of 100: NDC 29300-146-01
Bottles of 1000: NDC 29300-146-10

Storage
Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].
Keep container tightly closed. Protect from light.

17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Patient Information).

Additional patient information leaflets can be obtained by calling Unichem at 1-866-562-4616.

Pregnancy
Advise female patients of childbearing age about the consequences of exposure to losartan potassium during pregnancy. Discuss treatment options with women planning to become pregnant. Tell patients to report pregnancies to their physicians as soon as possible [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].

Potassium Supplements
Advise patients receiving losartan potassium not to use potassium supplements or salt substitutes containing potassium without consulting their healthcare provider [see Drug Interactions (7.1)].

The trademarks depicted herein are owned by their respective companies.

PATIENT INFORMATION
Losartan Potassium Tablets
(Ioe sar' tan poe tas' ee um)
25 mg, 50 mg, 100 mg
Rx only

Read the Patient Information that comes with losartan potassium tablets before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your condition and treatment.

What is the most important information I should know about losartan potassium tablets?
• Losartan potassium tablets can cause harm or death to an unborn baby.
• Talk to your doctor about other ways to lower your blood pressure if you plan to become pregnant.
• If you get pregnant while taking losartan potassium tablets tell your doctor right away.

What are losartan potassium tablets?
Losartan potassium tablets are prescription medicine called an angiotensin receptor blocker (ARB). It is used:
• alone or with other blood pressure medicines to lower high blood pressure (hypertension).
• to lower the chance of stroke in patients with high blood pressure and a heart problem called left ventricular hypertrophy. Losartan potassium tablets may not help Black patients with this problem.
• to slow the worsening of diabetic kidney disease (nephropathy) in patients with type 2 diabetes who have or had high blood pressure.

Losartan potassium tablets has not been studied in children less than 6 years old or in children with certain kidney problems.

High Blood Pressure (hypertension). Blood pressure is the force in your blood vessels when your heart beats and when your heart rests. You have high blood pressure when the force is too much. Losartan potassium tablets can help your blood vessels relax so your blood pressure is lower.

Left Ventricular Hypertrophy (LVH) is an enlargement of the walls of the left chamber of the heart (the heart's main pumping chamber). LVH can happen from several things. High blood pressure is the most common cause of LVH.

Type 2 Diabetes with Nephropathy. Type 2 diabetes is a type of diabetes that happens mainly in adults. If you have diabetic nephropathy it means that your kidneys do not work properly because of damage from the diabetes.

Who should not take losartan potassium tablets?
• Do not take losartan potassium tablets if you have diabetes and are taking a medicine called aliskiren to reduce blood pressure.

What should I tell my doctor before taking losartan potassium tablets?
Tell your doctor about all of your medical conditions including if you:
• are pregnant or planning to become pregnant. See “What is the most important information I should know about losartan potassium tablets?”
• are breastfeeding. It is not known if losartan potassium passes into your breast milk. You should choose either to take losartan potassium tablets or breastfeed, but not both.
• are vomiting a lot or have a lot of diarrhea
• have liver problems
• have kidney problems

Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Losartan potassium tablets and certain other medicines may interact with each other. Especially tell your doctor if you are taking:
• potassium supplements
• salt substitutes containing potassium
• other medicines that may increase serum potassium
• water pills (diuretics)
• lithium (a medicine used to treat a certain kind of depression)
medicines used to treat pain and arthritis, called non-steroidal anti-inflammatory drugs (NSAIDs), including COX-2 inhibitors.

other medicines to reduce blood pressure

How should I take losartan potassium tablets?

- Take losartan potassium tablets exactly as prescribed by your doctor. Your doctor may change your dose if needed.
- Losartan potassium tablets can be taken with or without food.
- If you miss a dose, take it as soon as you remember. If it is close to your next dose, do not take the missed dose. Just take the next dose at your regular time.
- If you take too much losartan potassium tablets, call your doctor or Poison Control Center, or go to the nearest hospital emergency room right away.

What are the possible side effects of losartan potassium tablets?

Losartan potassium tablets may cause the following side effects that may be serious:
- Injury or death of unborn babies. See "What is the most important information I should know about losartan potassium tablets?"
- Allergic reaction. Symptoms of an allergic reaction are swelling of the face, lips, throat or tongue. Get emergency medical help right away and stop taking losartan potassium tablets.
- Low blood pressure (hypotension). Low blood pressure may cause you to feel faint or dizzy. Lie down if you feel faint or dizzy. Call your doctor right away.
- For people who already have kidney problems, you may see a worsening in how well your kidneys work. Call your doctor if you get swelling in your feet, ankles, or hands, or unexplained weight gain.
- High blood levels of potassium

The most common side effects of losartan potassium tablets in people with high blood pressure are:
- "colds" (upper respiratory infection)
- dizziness
- stuffy nose
- back pain

The most common side effects of losartan potassium tablets in people with type 2 diabetes with diabetic kidney disease are:
- diarrhea
- tiredness
- low blood sugar
- chest pain
- high blood potassium
- low blood pressure

Tell your doctor if you get any side effect that bothers you or that won’t go away.

This is not a complete list of side effects. For a complete list, ask your doctor or pharmacist.

How do I store losartan potassium tablets?

- Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].
- Keep losartan potassium tablets in a tightly closed container that protects the medicine from light.
- Keep losartan potassium tablets and all medicines out of the reach of children.

General information about losartan potassium tablets

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use losartan potassium tablets for a condition for which it was not prescribed. Do not give losartan potassium tablets to other people, even if they have the same symptoms that you have. It may harm them.

This leaflet summarizes the most important information about losartan potassium tablets. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about losartan potassium tablets that is written for health professionals.

What are the ingredients in losartan potassium tablets?

Active ingredients:
- losartan potassium

Inactive ingredients:
- microcrystalline cellulose, lactose monohydrate, pregelatinized starch, sodium starch glycolate, corn starch, magnesium stearate, hypromellose, polyethylene glycol, titanium dioxide, D&C yellow no. 10 aluminium lake and FD&C blue no. 2 aluminium lake.

Additional patient information leaflets can be obtained by calling Unichem at 1-866-562-4616.

Manufactured by:
UNICHEM LABORATORIES LTD.
Ind. Area, Meerut Road, Ghaziabad – 201 003, India.

Manufactured for:

UNICHEM PHARMACEUTICALS (USA) INC.

East Brunswick, NJ 08816
11-R-12/2019
13012513

PACKAGE LABEL:PRINCIPAL DISPLAY PANEL
LOSARTAN POTASSIUM
losartan potassium tablet

Product Information

Product Type: HUMAN PRESCRIPTION DRUG
Item Code (Source): NDC:29300-144-
Route of Administration: ORAL

Active Ingredient/Active Moiety

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<td>LOSARTAN POTASSIUM</td>
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Inactive Ingredients

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- Score: no score
- Shape: OVAL
- Size: 8mm
- Flavor: Imprint Code: 144

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**Product Type**: HUMAN PRESCRIPTION DRUG  
**Item Code (Source)**: NDC:29300-146

**Route of Administration**: ORAL

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### Inactive Ingredients

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### Product Characteristics

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- **Score**: no score  
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- **Size**: 12mm  
- **Flavor**: Imprint Code: 146;U

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### Marketing Information

- **Marketing Category**: ANDA  
- **Application Number or Monograph Citation**: ANDA203030  
- **Marketing Start Date**: 10/14/2015
| NDC: 29300-146-01 | 100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product | 02/28/2018 |
| NDC: 29300-146-20 | 1000 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product | 02/28/2018 |

### Marketing Information

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**Labeler** - Unichem Pharmaceuticals (USA), Inc. (181620514)

Revised: 12/2019

Unichem Pharmaceuticals (USA), Inc.