

OLMESARTAN MEDOXOMIL- olmesartan medoxomil tablet Bryant Ranch Prepack

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

Initial U.S. Approval: 2002

WARNING: FETAL TOXICITY

See full prescribing information for complete boxed warning.

- When pregnancy is detected, discontinue olmesartan medoxomil tablets as soon as possible (5.1, 8.1).
- Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus (5.1, 8.1).

RECENT MAJOR CHANGES

Warnings and Precautions (5.3, 5.6) 10/2019

INDICATIONS AND USAGE

Olmesartan medoxomil is an angiotensin II receptor blocker (ARB) indicated for the treatment of hypertension in adult and pediatric patients six years of age and older, alone or with other antihypertensive agents, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions (1).

DOSAGE AND ADMINISTRATION

Indication	Starting Dose	Dose Range
Adult Hypertension (2.1)	20 mg once daily	20 - 40 mg once daily
Pediatric Hypertension (6 years of age and older) (2.2)	20 to <35 kg 10 mg once daily ≥35 kg 20 mg once daily	20 to <35 kg 10 - 20 mg once daily ≥35 kg 20 - 40 mg once daily

DOSAGE FORMS AND STRENGTHS

Tablets: 5 mg, 20 mg, and 40 mg (3).

CONTRAINDICATIONS

Do not co-administer aliskiren with olmesartan medoxomil tablets in patients with diabetes (4).

WARNINGS AND PRECAUTIONS

- Avoid fetal (in utero) exposure (5.1).
- Use of olmesartan medoxomil tablets in children <1 year of age is not recommended (5.2).
- Observe for signs and symptoms of hypotension in volume- or salt-depleted patients with treatment initiation (5.3).
- Monitor for worsening renal function in patients with renal impairment (5.4).
- Sprue-like enteropathy has been reported. Consider alternative antihypertensive therapy in cases where no other etiology is found (5.5).

ADVERSE REACTIONS

The most common adverse reaction in adults was dizziness (3%) (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Solco Healthcare US, LLC at 1-866-257-2597 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Agents increasing potassium levels may lead to increase in serum potassium (7.1).
- NSAID use may lead to increased risk of renal impairment and loss of antihypertensive effect (7.2).
- Dual inhibition of the renin-angiotensin system: Increased risk of renal impairment, hypotension, and hyperkalemia (7.3).

- Lithium: Increases in serum lithium concentrations and lithium toxicity (7.4).
- Colesevelam hydrochloride: Consider administering olmesartan at least 4 hours before colesevelam hydrochloride dose (7.5).

----- **USE IN SPECIFIC POPULATIONS** -----

- Lactation: Choose to discontinue nursing or drug (8.2).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2026

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FULL PRESCRIBING INFORMATION

WARNING: FETAL TOXICITY

- **When pregnancy is detected, discontinue olmesartan medoxomil tablets as soon as possible (5.1, 8.1).**
- **Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus (5.1, 8.1).**

1 INDICATIONS AND USAGE

Olmesartan medoxomil is indicated for the treatment of hypertension in adults and children six years of age and older, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including the class to which this drug principally belongs. There are no controlled trials demonstrating risk reduction with olmesartan medoxomil tablets.

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 one 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 hypertension (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.

It may be used alone or in combination with other antihypertensive agents.

2 DOSAGE AND ADMINISTRATION

2.1 Adult Hypertension

Dosage must be individualized. The usual recommended starting dose of olmesartan medoxomil tablets is 20 mg once daily when used as monotherapy in patients who are not volume-contracted. For patients requiring further reduction in blood pressure after 2 weeks of therapy, the dose of olmesartan medoxomil tablets may be increased to 40 mg. Doses above 40 mg do not appear to have greater effect. Twice-daily dosing offers no advantage over the same total dose given once daily.

For patients with possible depletion of intravascular volume (e.g., patients treated with diuretics, particularly those with impaired renal function), initiate olmesartan medoxomil tablets under close medical supervision and give consideration to use of a lower starting dose [see *Warnings and Precautions (5.3)*].

2.2 Pediatric Hypertension (6 Years of Age and Older)

Dosage must be individualized. For children who can swallow tablets, the usual recommended starting dose of olmesartan medoxomil tablets is 10 mg once daily for patients who weigh 20 to <35 kg (44 to 77 lb), or 20 mg once daily for patients who weigh \geq 35 kg. For patients requiring further reduction in blood pressure after 2 weeks of therapy, the dose of olmesartan medoxomil tablets may be increased to a maximum of 20 mg once daily for patients who weigh <35 kg or 40 mg once daily for patients who weigh \geq 35 kg.

Use of olmesartan medoxomil tablets in children <1 year of age is not recommended [see *Warnings and Precautions (5.2)* and *Use in Specific Populations (8.4)*].

For children who cannot swallow tablets, the same dose can be given using an extemporaneous suspension as described below [see *Clinical Pharmacology (12.3)*]. Follow the suspension preparation instructions below to administer olmesartan medoxomil tablets as a suspension.

Preparation of Suspension (for 200 mL of a 2 mg/mL suspension)

Add 50 mL of Purified Water to an amber polyethylene terephthalate (PET) bottle

containing twenty olmesartan medoxomil 20 mg tablets and allow to stand for a minimum of 5 minutes. Shake the container for at least 1 minute and allow the suspension to stand for at least 1 minute. Repeat 1-minute shaking and 1-minute standing for four additional times. Add 100 mL of ORA-Sweet[®] and 50 mL of ORA-Plus[®]1* to the suspension and shake well for at least 1 minute. The suspension should be refrigerated at 2-8°C (36-46°F) and can be stored for up to 4 weeks. Shake the suspension well before each use and return promptly to the refrigerator.

1 * ORA-Sweet[®] and ORA-Plus[®] are registered trademarks of their respective owners.

3 DOSAGE FORMS AND STRENGTHS

- 5 mg pink, round, film-coated, non-scored tablets debossed with S299 on one side and plain on the other side
- 20 mg white, round, film-coated, non-scored tablets debossed with S300 on one side and plain on the other side
- 40 mg white, capsule-shaped, film-coated, non-scored tablets debossed with S301 on one side and plain on the other side

4 CONTRAINDICATIONS

Do not co-administer aliskiren with olmesartan medoxomil tablets in patients with diabetes [see *Drug Interactions (7.3)*].

5 WARNINGS AND PRECAUTIONS

5.1 Fetal Toxicity

Olmesartan medoxomil tablets can cause fetal harm when administered to a pregnant woman. Use of drugs that act on the renin-angiotensin system (RAS) 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 olmesartan medoxomil tablets as soon as possible [see *Use in Specific Populations (8.1)*].

5.2 Morbidity in Infants

Use of olmesartan medoxomil tablets in children <1 year of age is not recommended. Drugs that act directly on the renin-angiotensin-aldosterone system (RAAS) can have effects on the development of immature kidneys [see *Use in Specific Populations (8.4)*].

5.3 Hypotension in Volume- or Salt-Depleted Patients

In patients with an activated renin-angiotensin-aldosterone system, such as volume- and/or salt-depleted patients (e.g., those being treated with high doses of diuretics), symptomatic hypotension may be anticipated after initiation of treatment with olmesartan medoxomil tablets. Initiate treatment under close medical supervision and

consider starting at a lower dose. If hypotension does occur, place the patient in the supine position and, if necessary, give an intravenous infusion of normal saline [see *Dosage and Administration (2.1)*]. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized.

5.4 Impaired Renal Function

As a consequence of inhibiting the renin-angiotensin-aldosterone system, changes in renal function may be anticipated in susceptible individuals treated with olmesartan medoxomil tablets. In patients whose renal function may depend upon the activity of the renin-angiotensin-aldosterone system (e.g., patients with severe congestive heart failure), treatment with angiotensin converting enzyme (ACE) inhibitors and angiotensin receptor antagonists has been associated with oliguria and/or progressive azotemia and rarely with acute renal failure and/or death. Similar results may be anticipated in patients treated with olmesartan medoxomil tablets [see *Dosage and Administration (2.1)*, *Drug Interactions (7.3)*, *Use in Specific Populations (8.7)* and *Clinical Pharmacology (12.3)*].

In studies of ACE inhibitors in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen (BUN) have been reported. There has been no long-term use of olmesartan medoxomil tablets in patients with unilateral or bilateral renal artery stenosis, but similar results may be expected.

5.5 Sprue-like Enteropathy

Severe, chronic diarrhea with substantial weight loss has been reported in patients taking olmesartan months to years after drug initiation. Intestinal biopsies of patients often demonstrated villous atrophy. If a patient develops these symptoms during treatment with olmesartan, exclude other etiologies. Consider alternative antihypertensive therapy in cases where no other etiology is identified.

5.6 Hyperkalemia

Serum potassium should be monitored in patients receiving olmesartan medoxomil tablets. Drugs that inhibit the renin-angiotensin system can cause hyperkalemia. Risk factors for the development of hyperkalemia include renal insufficiency, diabetes mellitus, and the concomitant use of potassium-sparing diuretics, potassium supplements and/or potassium-containing salt substitutes [see *Drug Interactions (7.3)*].

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

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

Adult Hypertension

Olmesartan medoxomil tablets has been evaluated for safety in more than 3825 patients/subjects, including more than 3275 patients treated for hypertension in controlled trials. This experience included about 900 patients treated for at least 6

credibility of the finding of increased CV risk, notably the observation in the large epidemiologic study for a survival benefit in non-diabetics of a magnitude similar to the adverse finding in diabetics.

7 DRUG INTERACTIONS

7.1 Agents Increasing Serum Potassium

Concomitant use of olmesartan with other agents that block the renin-angiotensin system, potassium-sparing diuretics (e.g., spironolactone, triamterene, amiloride), potassium supplements, salt substitutes containing potassium or other drugs that may increase potassium levels (e.g., heparin) may lead to increases in serum potassium. If co-medication is considered necessary, monitoring of serum potassium is advisable.

7.2 Non-Steroidal Anti-Inflammatory Agents 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, co-administration of NSAIDs, including selective COX-2 inhibitors, with angiotensin II receptor antagonists, including olmesartan medoxomil, may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible. Monitor renal function periodically in patients receiving olmesartan medoxomil and NSAID therapy.

The antihypertensive effect of angiotensin II receptor antagonists, including olmesartan medoxomil, may be attenuated by NSAIDs including selective COX-2 inhibitors.

7.3 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, hyperkalemia, and changes in renal function (including acute renal failure) compared to monotherapy. Most patients receiving the combination of two RAS inhibitors do not obtain any additional benefit compared to monotherapy. In general, avoid combined use of RAS inhibitors. Closely monitor blood pressure, renal function and electrolytes in patients on olmesartan medoxomil tablets and other agents that affect the RAS.

Do not co-administer aliskiren with olmesartan medoxomil tablets in patients with diabetes [see *Contraindications (4)*]. Avoid use of aliskiren with olmesartan medoxomil tablets in patients with renal impairment (GFR <60 ml/min).

7.4 Lithium

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

7.5 Colesevelam Hydrochloride

Concurrent administration of bile acid sequestering agent colesevelam hydrochloride reduces the systemic exposure and peak plasma concentration of olmesartan. Administration of olmesartan at least 4 hours prior to colesevelam hydrochloride

decreased the drug interaction effect. Consider administering olmesartan at least 4 hours before the colesevelam hydrochloride dose [see *Clinical Pharmacology (12.3)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Olmesartan medoxomil tablets can cause fetal harm when administered to a pregnant woman. 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. 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. In animal reproduction studies, olmesartan medoxomil tablets treatment during organogenesis resulted in increased embryofetal toxicity in rats at doses lower than maternally toxic doses.

When pregnancy is detected, discontinue olmesartan medoxomil tablets as soon as possible. Consider alternative antihypertensive therapy during pregnancy.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%–4% and 15%–20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Hypertension in pregnancy increases the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

Fetal/Neonatal Adverse Reactions

Oligohydramnios in pregnant women who use drugs affecting the renin-angiotensin system in the second and third trimesters of pregnancy can result in the following: reduced fetal renal function leading to anuria and renal failure, fetal lung hypoplasia, skeletal deformations, including skull hypoplasia, hypotension and death. In patients taking olmesartan medoxomil tablets during pregnancy, perform serial ultrasound examinations to assess the intra-amniotic environment. Fetal testing may be appropriate, based on the week of gestation. 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 olmesartan medoxomil tablets for hypotension, oliguria, and hyperkalemia. In neonates with a history of *in utero* exposure to olmesartan medoxomil tablets, if oliguria or hypotension occurs, utilize measures to maintain adequate blood pressure and renal perfusion. Exchange

transfusions or dialysis may be required as a means of reversing hypotension and supporting renal function.

Data

Animal Data

No teratogenic effects were observed when olmesartan medoxomil was administered to pregnant rats at oral doses up to 1000 mg/kg/day (240 times the maximum recommended human dose (MRHD) on a mg/m² basis) or pregnant rabbits at oral doses up to 1 mg/kg/day (half the MRHD on a mg/m² basis; higher doses could not be evaluated for effects on fetal development as they were lethal to the does). In rats, significant decreases in pup birth weight and weight gain were observed at doses ≥ 1.6 mg/kg/day, and delays in developmental milestones (delayed separation of ear auricula, eruption of lower incisors, appearance of abdominal hair, descent of testes, and separation of eyelids) and dose-dependent increases in the incidence of dilation of the renal pelvis were observed at doses ≥ 8 mg/kg/day. The no observed effect dose for developmental toxicity in rats is 0.3 mg/kg/day, about one-tenth the MRHD of 40 mg/day.

8.2 Lactation

Risk Summary

There is no information regarding the presence of olmesartan in human milk, the effects on the breastfed infant, or the effects on milk production. Olmesartan is secreted at low concentration in the milk of lactating rats (*see Data*). 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.

Data

Presence of olmesartan in milk was observed after a single oral administration of 5 mg/kg [¹⁴C] olmesartan medoxomil to lactating rats.

8.4 Pediatric Use

The antihypertensive effects of olmesartan medoxomil tablets were evaluated in one randomized, double-blind clinical study in pediatric patients 1 to 16 years of age [*see Clinical Studies (14.2)*]. The pharmacokinetics of olmesartan medoxomil tablets were evaluated in pediatric patients 1 to 16 years of age [*see Clinical Pharmacology (12.3)*]. Olmesartan medoxomil tablets were generally well tolerated in pediatric patients, and the adverse experience profile was similar to that described for adults.

Olmесartan medoxomil tablets has not been shown to be effective for hypertension in children <6 years of age.

Use of olmesartan medoxomil tablets in children <1 year of age is not recommended [*see Warnings and Precautions (5.2)*]. The renin-angiotensin-aldosterone system (RAAS) plays a critical role in kidney development. RAAS blockade has been shown to lead to abnormal kidney development in very young mice. Administering drugs that act directly on the renin-angiotensin-aldosterone system (RAAS) can alter normal renal development.

8.5 Geriatric Use

Of the total number of hypertensive patients receiving olmesartan medoxomil tablets in clinical studies, more than 20% were 65 years of age and over, while more than 5% were 75 years of age and older. No overall differences in effectiveness or safety were observed between elderly patients and younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out [see *Clinical Pharmacology (12.3)*].

8.6 Hepatic Impairment

Increases in $AUC_{0-\infty}$ and C_{max} were observed in patients with moderate hepatic impairment compared to those in matched controls, with an increase in AUC of about 60%. No initial dosage adjustment is recommended for patients with moderate to marked hepatic dysfunction [see *Clinical Pharmacology (12.3)*].

8.7 Renal Impairment

Patients with renal insufficiency have elevated serum concentrations of olmesartan compared to subjects with normal renal function. After repeated dosing, the AUC was approximately tripled in patients with severe renal impairment (creatinine clearance <20 mL/min). No initial dosage adjustment is recommended for patients with moderate to marked renal impairment (creatinine clearance <40 mL/min) [see *Dosage and Administration (2.1)*, *Warnings and Precautions (5.4)* and *Clinical Pharmacology (12.3)*].

8.8 Black Patients

The antihypertensive effect of olmesartan medoxomil tablets was smaller in black patients (usually a low-renin population), as has been seen with ACE inhibitors, beta-blockers and other angiotensin receptor blockers.

10 OVERDOSAGE

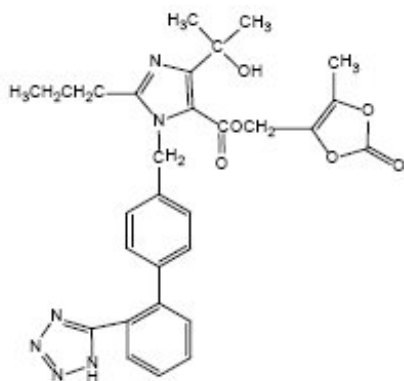
Limited data are available related to overdosage in humans. The most likely manifestations of overdosage would be hypotension and tachycardia; bradycardia could be encountered if parasympathetic (vagal) stimulation occurs. If symptomatic hypotension occurs, initiate supportive treatment. The dialyzability of olmesartan is unknown.

11 DESCRIPTION

Olmесartan medoxomil, a prodrug, is hydrolyzed to olmesartan during absorption from the gastrointestinal tract. Olmesartan is a selective AT₁ subtype angiotensin II receptor antagonist.

Olmесartan medoxomil is described chemically as 2,3-dihydroxy-2-butenyl 4-(1-hydroxy-1-methylethyl)-2-propyl-1-[p-(o-1H-tetrazol-5-yl)phenyl]benzyl]imidazole-5-carboxylate, cyclic 2,3-carbonate.

Its empirical formula is C₂₉H₃₀N₆O₆ and its structural formula is:



Olmesartan medoxomil is a white or off-white crystalline powder with a molecular weight of 558.59. It is practically insoluble in water and sparingly soluble in methanol.

Olmesartan medoxomil tablets, USP, are available for oral use as film-coated tablets containing 5 mg, 20 mg, or 40 mg of olmesartan medoxomil (USP) and the following inactive ingredients: hydroxypropyl cellulose, lactose monohydrate, low-substituted hydroxypropyl cellulose, magnesium stearate, microcrystalline cellulose, colloidal silicon dioxide, polyvinyl alcohol-part hydrolyzed, titanium dioxide, macrogol/polyethylene glycol 3350, talc, (5 mg only) FD&C Red #40 Aluminum Lake, (5 mg only) FD&C Yellow #6 Aluminum Lake, (5 mg only) FD&C Blue #1 Aluminum Lake.

FDA approved dissolution test specifications differ from USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Angiotensin II is formed from angiotensin I in a reaction catalyzed by angiotensin converting enzyme (ACE, kininase II). Angiotensin II is the principal pressor agent of the renin-angiotensin system, with effects that include vasoconstriction, stimulation of synthesis and release of aldosterone, cardiac stimulation and renal reabsorption of sodium. Olmesartan blocks the vasoconstrictor effects of angiotensin II by selectively blocking the binding of angiotensin II to the AT₁ receptor in vascular smooth muscle. Its action is, therefore, independent of the pathways for angiotensin II synthesis.

An AT₂ receptor is found also in many tissues, but this receptor is not known to be associated with cardiovascular homeostasis. Olmesartan has more than a 12,500-fold greater affinity for the AT₁ receptor than for the AT₂ receptor.

Blockade of the renin-angiotensin system with ACE inhibitors, which inhibit the biosynthesis of angiotensin II from angiotensin I, is a mechanism of many drugs used to treat hypertension. ACE inhibitors also inhibit the degradation of bradykinin, a reaction also catalyzed by ACE. Because olmesartan medoxomil does not inhibit ACE (kininase II), it does not affect the response to bradykinin. Whether this difference has clinical relevance is not yet known.

Blockade of the angiotensin II receptor inhibits the negative regulatory feedback of angiotensin II on renin secretion, but the resulting increased plasma renin activity and circulating angiotensin II levels do not overcome the effect of olmesartan on blood

pressure.

12.2 Pharmacodynamics

Olmesartan medoxomil tablets doses of 2.5 mg to 40 mg inhibit the pressor effects of angiotensin I infusion. The duration of the inhibitory effect was related to dose, with doses of olmesartan medoxomil tablets >40 mg giving >90% inhibition at 24 hours.

Plasma concentrations of angiotensin I and angiotensin II and plasma renin activity (PRA) increase after single and repeated administration of olmesartan medoxomil tablets to healthy subjects and hypertensive patients. Repeated administration of up to 80 mg olmesartan medoxomil tablets had minimal influence on aldosterone levels and no effect on serum potassium.

12.3 Pharmacokinetics

Absorption

Olmesartan medoxomil is rapidly and completely bioactivated by ester hydrolysis to olmesartan during absorption from the gastrointestinal tract.

Olmesartan medoxomil tablets and the suspension formulation prepared from olmesartan medoxomil tablets are bioequivalent [*see Dosage and Administration (2.2)*].

The absolute bioavailability of olmesartan is approximately 26%. After oral administration, the peak plasma concentration (C_{max}) of olmesartan is reached after 1 to 2 hours. Food does not affect the bioavailability of olmesartan. Olmesartan medoxomil tablets may be administered with or without food.

Distribution

The volume of distribution of olmesartan is approximately 17 L. Olmesartan is highly bound to plasma proteins (99%) and does not penetrate red blood cells. The protein binding is constant at plasma olmesartan concentrations well above the range achieved with recommended doses.

In rats, olmesartan crossed the blood-brain barrier poorly, if at all. Olmesartan passed across the placental barrier in rats and was distributed to the fetus. Olmesartan was distributed to milk at low levels in rats.

Metabolism and Excretion

Following the rapid and complete conversion of olmesartan medoxomil to olmesartan during absorption, there is virtually no further metabolism of olmesartan. Total plasma clearance of olmesartan is 1.3 L/h, with a renal clearance of 0.6 L/h. Approximately 35% to 50% of the absorbed dose is recovered in urine while the remainder is eliminated in feces via the bile.

Olmesartan appears to be eliminated in a biphasic manner with a terminal elimination half-life of approximately 13 hours. Olmesartan shows linear pharmacokinetics following single oral doses of up to 320 mg and multiple oral doses of up to 80 mg. Steady-state levels of olmesartan are achieved within 3 to 5 days and no accumulation in plasma occurs with once-daily dosing.

Specific Populations

Geriatric Patients

The pharmacokinetics of olmesartan were studied in the elderly (≥ 65 years). Overall, maximum plasma concentrations of olmesartan were similar in young adults and the elderly. Modest accumulation of olmesartan was observed in the elderly with repeated dosing; $AUC_{SS, \tau}$ was 33% higher in elderly patients, corresponding to an approximate 30% reduction in CL_R [see *Dosage and Administration (2.1)* and *Use in Specific Populations (8.5)*].

Pediatric Patients

The pharmacokinetics of olmesartan were studied in pediatric hypertensive patients aged 1 to 16 years. The clearance of olmesartan in pediatric patients was similar to that in adult patients when adjusted by the body weight [see *Use in Specific Populations (8.4)*].

Olmесartan pharmacokinetics have not been investigated in pediatric patients less than 1 year of age [see *Warnings and Precautions (5.2)* and *Use in Specific Populations (8.4)*].

Male and Female Patients

Minor differences were observed in the pharmacokinetics of olmesartan in women compared to men. AUC and C_{max} were 10-15% higher in women than in men.

Patients with Hepatic Impairment

Increases in $AUC_{0-\infty}$ and C_{max} were observed in patients with moderate hepatic impairment compared to those in matched controls, with an increase in AUC of about 60% [see *Dosage and Administration (2.1)* and *Use in Specific Populations (8.6)*].

Patients with Renal Impairment

In patients with renal insufficiency, serum concentrations of olmesartan were elevated compared to subjects with normal renal function. After repeated dosing, the AUC was approximately tripled in patients with severe renal impairment (creatinine clearance < 20 mL/min). The pharmacokinetics of olmesartan in patients undergoing hemodialysis has not been studied [see *Dosage and Administration (2.1)*, *Warnings and Precautions (5.4)* and *Use in Specific Populations (8.7)*].

Drug Interaction Studies

Bile Acid Sequestering Agent Colesevelam

Concomitant administration of 40 mg olmesartan medoxomil and 3750 mg colesevelam hydrochloride in healthy subjects resulted in 28% reduction in C_{max} and 39% reduction in AUC of olmesartan. Lesser effects, 4% and 15% reduction in C_{max} and AUC respectively, were observed when olmesartan medoxomil was administered 4 hours prior to colesevelam hydrochloride [see *Drug Interactions (7.5)*].

Other Studies

No significant drug interactions were reported in studies in which olmesartan medoxomil was co-administered with digoxin or warfarin in healthy volunteers.

The bioavailability of olmesartan was not significantly altered by the co-administration of antacids [$Al(OH)_3/Mg(OH)_2$].

Olmесartan medoxomil is not metabolized by the cytochrome P450 system and has no effects on P450 enzymes; thus, interactions with drugs that inhibit, induce, or are

metabolized by those enzymes are not expected.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Olmesartan medoxomil was not carcinogenic when administered by dietary administration to rats for up to 2 years. The highest dose tested (2000 mg/kg/day) was, on a mg/m² basis, about 480 times the maximum recommended human dose (MRHD) of 40 mg/day. Two carcinogenicity studies conducted in mice, a 6-month gavage study in the p53 knockout mouse and a 6-month dietary administration study in the Hras2 transgenic mouse, at doses of up to 1000 mg/kg/day (about 120 times the MRHD), revealed no evidence of a carcinogenic effect of olmesartan medoxomil.

Both olmesartan medoxomil and olmesartan tested negative in the *in vitro* Syrian hamster embryo cell transformation assay and showed no evidence of genetic toxicity in the Ames (bacterial mutagenicity) test. However, both were shown to induce chromosomal aberrations in cultured cells *in vitro* (Chinese hamster lung) and tested positive for thymidine kinase mutations in the *in vitro* mouse lymphoma assay. Olmesartan medoxomil tested negative *in vivo* for mutations in the MutaMouse intestine and kidney and for clastogenicity in mouse bone marrow (micronucleus test) at oral doses of up to 2000 mg/kg (olmesartan not tested).

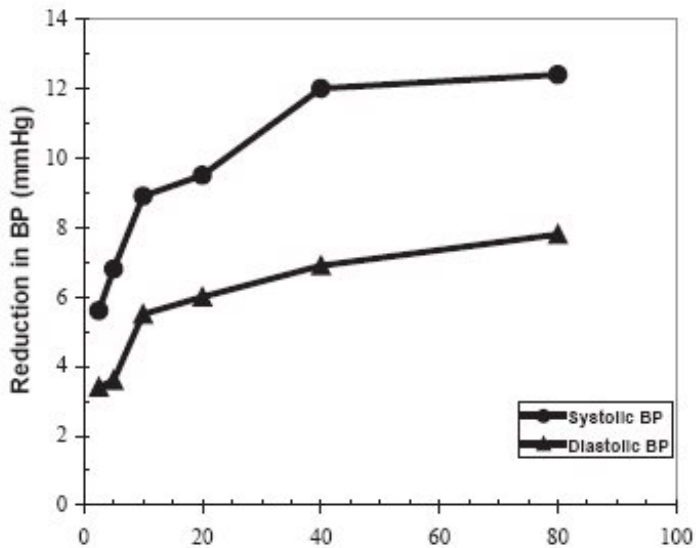
Fertility of rats was unaffected by administration of olmesartan medoxomil at dose levels as high as 1000 mg/kg/day (240 times the MRHD) in a study in which dosing was begun 2 (female) or 9 (male) weeks prior to mating.

14 CLINICAL STUDIES

14.1 Adult Hypertension

The antihypertensive effects of olmesartan medoxomil tablets have been demonstrated in seven placebo-controlled studies at doses ranging from 2.5 mg to 80 mg for 6 to 12 weeks, each showing statistically significant reductions in peak and trough blood pressure. A total of 2693 patients (2145 olmesartan medoxomil tablets; 548 placebo) with essential hypertension were studied. Olmesartan medoxomil tablets once daily lowered diastolic and systolic blood pressure. The response was dose related, as shown in the following graph. A olmesartan medoxomil tablets dose of 20 mg daily produces a trough sitting blood pressure (BP) reduction over placebo of about 10/6 mmHg and a dose of 40 mg daily produces a trough sitting BP reduction over placebo of about 12/7 mmHg. Olmesartan medoxomil tablets doses greater than 40 mg had little additional effect. The onset of the antihypertensive effect occurred within 1 week and was largely manifest after 2 weeks.

Olmesartan Medoxomil Tablets Dose Response Placebo-Adjusted Reduction in Blood Pressure (mmHg)



Olmesartan Medoxomil Tablets Dose (mg)

Data above are from seven placebo-controlled studies (2145 olmesartan medoxomil tablets patients, 548 placebo patients). The blood pressure lowering effect was maintained throughout the 24-hour period with olmesartan medoxomil tablets once daily, with trough-to-peak ratios for systolic and diastolic response between 60 and 80%.

The blood pressure lowering effect of olmesartan medoxomil tablets, with and without hydrochlorothiazide, was maintained in patients treated for up to 1 year. There was no evidence of tachyphylaxis during long-term treatment with olmesartan medoxomil tablets or rebound effect following abrupt withdrawal of olmesartan medoxomil after 1 year of treatment.

The antihypertensive effect of olmesartan medoxomil tablets was similar in men and women and in patients older and younger than 65 years. The effect was smaller in black patients (usually a low-renin population), as has been seen with ACE inhibitors, beta-blockers and other angiotensin receptor blockers. Olmesartan medoxomil tablets had an additional blood pressure lowering effect when added to hydrochlorothiazide.

There are no trials of olmesartan medoxomil tablets demonstrating reductions in cardiovascular risk in patients with hypertension, but at least one pharmacologically similar drug has demonstrated such benefits.

14.2 Pediatric Hypertension

The antihypertensive effects of olmesartan medoxomil tablets in the pediatric population were evaluated in a randomized, double-blind study involving 302 hypertensive patients aged 6 to 16 years. The study population consisted of an all-black cohort of 112 patients and a mixed racial cohort of 190 patients, including 38 black patients. The etiology of the hypertension was predominantly essential hypertension (87% of the black cohort and 67% of the mixed cohort). Patients who weighed 20 to <35 kg were randomized to 2.5 or 20 mg of olmesartan medoxomil tablets once daily and patients who weighed ≥ 35 kg were randomized to 5 or 40 mg of olmesartan medoxomil tablets once daily. At the end of 3 weeks, patients were re-randomized to continuing olmesartan medoxomil tablets or to taking placebo for up to 2 weeks. During the initial dose-response phase, olmesartan medoxomil tablets significantly reduced both systolic and diastolic blood pressure in a

weight-adjusted, dose-dependent manner. Overall, the two dose levels of olmesartan medoxomil tablets (low and high) significantly reduced systolic blood pressure by 6.6 and 11.9 mmHg from the baseline, respectively. These reductions in systolic blood pressure included both drug and placebo effect. During the randomized withdrawal to placebo phase, mean systolic blood pressure at trough was 3.2 mmHg lower and mean diastolic blood pressure at trough was 2.8 mmHg lower in patients continuing olmesartan medoxomil tablets than in patients withdrawn to placebo. These differences were statistically different. As observed in adult populations, the blood pressure reductions were smaller in black patients.

In the same study, 59 patients aged 1 to 5 years who weighed ≥ 5 kg received 0.3 mg/kg of olmesartan medoxomil tablets once daily for three weeks in an open-label phase and then were randomized to receiving olmesartan medoxomil tablets or placebo in a double-blind phase. At the end of the second week of withdrawal, the mean systolic/diastolic blood pressure at trough was 3/3 mmHg lower in the group randomized to olmesartan medoxomil tablets; this difference in blood pressure was not statistically significant (95% C.I. -2 to 7/-1 to 7).

16 HOW SUPPLIED/STORAGE AND HANDLING

Olmesartan medoxomil tablets, USP, - white, capsule-shaped, film-coated, non-scored tablets containing 40 mg of olmesartan medoxomil.

Tablets are plain on one side and debossed with S301

NDC: 71335-2605-1: 30 Tablets in a BOTTLE

NDC: 71335-2605-2: 90 Tablets in a BOTTLE

NDC: 71335-2605-3: 28 Tablets in a BOTTLE

Storage

Store at 20-25°C (68-77°F) [see USP Controlled Room Temperature].

Repackaged/Relabeled by:
Bryant Ranch Prepack
Burbank, CA 91504

17 PATIENT COUNSELING INFORMATION

Pregnancy: Advise female patients of childbearing age about the consequences of exposure to olmesartan medoxomil tablets 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)*].

Lactation: Advise nursing women not to breastfeed during treatment with olmesartan medoxomil tablets [see *Use in Specific Populations (8.2)*].

Hyperkalemia: Advise patients not to use potassium supplements or salt substitutes that contain potassium without consulting their healthcare provider [see *Drug Interactions (7.1)*].

Manufactured for: Solco Healthcare US, LLC

Somerset, NJ 08873, USA

Manufactured by: Zhejiang Huahai Pharmaceutical Co., Ltd.

Xunqiao, Linhai, Zhejiang 317024, China

Revised: 02/2022

Rx Only

Olmesartan Medoxomil 40mg Tablet



GTIN
Lot
SN

Each tablet contains: Olmesartan Medoxomil USP 40 mg.

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

Dosage and Use: Scan Package Insert QR Code.

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



Package
Insert

NDC 71335-2605-1

**Olmesartan Medoxomil
Tablets USP**

40 mg



Repackaged by:
Bryant Ranch Prepack, Inc.
Burbank, CA 91504 USA

Rx only
30 Tablets

Manufactured by:
Zhejiang Huahai
Pharmaceutical Co., Ltd.



OLMESARTAN MEDOXOMIL

olmesartan medoxomil tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-2605(NDC:43547-301)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
OLMESARTAN MEDOXOMIL (UNII: 6M97XTV3HD) (OLMESARTAN - UNII:8W1IQP3U10)	OLMESARTAN MEDOXOMIL	40 mg

Inactive Ingredients

Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
HYDROXYPROPYL CELLULOSE (160000 WAMW) (UNII: RFW2ET671P)	
LOW-SUBSTITUTED HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 2165RE0K14)	

SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
WATER (UNII: 059QF0KO0R)	
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics

Color	WHITE	Score	no score
Shape	OVAL (capsule-shaped)	Size	15mm
Flavor		Imprint Code	S301
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335-2605-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	03/12/2026	
2	NDC:71335-2605-2	90 in 1 BOTTLE; Type 0: Not a Combination Product	03/12/2026	
3	NDC:71335-2605-3	28 in 1 BOTTLE; Type 0: Not a Combination Product	03/12/2026	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206720	03/04/2022	

Labeler - Bryant Ranch Prepack (171714327)

Registrant - Bryant Ranch Prepack (171714327)

Establishment

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(71335-2605) , RELABEL(71335-2605)

Revised: 3/2026

Bryant Ranch Prepack