

How should I take escitalopram oxalate oral solution?

- Take escitalopram oxalate oral solution exactly as prescribed. Your healthcare provider may need to change the dose of escitalopram oxalate oral solution until it is the right dose for you.
- Escitalopram oxalate oral solution may be taken with or without food.
- If you miss a dose of escitalopram oxalate oral solution, take the missed dose as soon as you remember. If it is almost time for the next dose, skip the missed dose and take your next dose at the regular time. Do not take two doses of escitalopram oxalate oral solution at the same time.
- If you take too much escitalopram oxalate oral solution, call your healthcare provider or poison control center right away, or get emergency treatment.

What should I avoid while taking escitalopram oxalate oral solution?

Escitalopram oxalate oral solution can cause drowsiness or may affect your ability to make decisions, think clearly, or react quickly. You should not drive, operate heavy machinery, or do other dangerous activities until you know how escitalopram oxalate oral solution affects you. Do not drink alcohol while using escitalopram oxalate oral solution.

What are the possible side effects of escitalopram oxalate oral solution?
Escitalopram oxalate oral solution may cause serious side effects, including all of those described in the section entitled "What is the most important information I should know about escitalopram oxalate oral solution?"

Common possible side effects in people who take escitalopram oxalate oral solution include:

- Nausea
- Drowsiness
- Weakness
- Dizziness
- Fainting
- Feeling anxious
- Trouble sleeping
- Swallowing problems
- Swelling
- Shaking
- Not feeling hungry
- Dry mouth
- Constipation
- Infection
- Yawning

Other side effects in children and adolescents include:

- Increased thirst
 - abnormal increase in muscle movement or agitation
 - nose bleed
 - difficult urination
 - heavy menstrual periods
 - possible slowed growth rate and weight change
- Your child's height and weight should be monitored during treatment with escitalopram oxalate oral solution.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all of the possible side effects of escitalopram oxalate oral solution. For more information, ask your healthcare provider or pharmacist.

CALL YOUR DOCTOR FOR MEDICAL ADVICE ABOUT SIDE EFFECTS. YOU MAY REPORT SIDE EFFECTS TO THE FDA AT 1-800-FDA-1088.

How should I store escitalopram oxalate oral solution?

- Store escitalopram oxalate oral solution at 20° to 25°C (68° to 77° F) using USP Controlled Room Temperature.
- Keep escitalopram oxalate oral solution bottle tightly closed.

Keep escitalopram oxalate oral solution out of medicines out of the reach of children.

General information about escitalopram oxalate oral solution
Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use escitalopram oxalate oral solution for a condition for which it was not prescribed. Do not give escitalopram oxalate oral solution to other people, even if they have the same condition. It may harm them.

This Medication Guide summarizes the most important information about escitalopram oxalate oral solution. If you would like more information, talk with your healthcare provider. You may ask your healthcare provider or pharmacist for information about escitalopram oxalate oral solution that is written for healthcare professionals.

What are the ingredients in escitalopram oxalate oral solution?

Active ingredients: escitalopram oxalate
Inactive ingredients: anhydrous citric acid, glycerin, malic acid, methylparaben, natural peppermint flavor, non-crystallizable sorbitol solution, propylene glycol, propylparaben, purified water and sodium citrate dihydrate.
Manufactured by:
Camber Pharmaceuticals, Inc.
Piscataway, NJ 08854

By: Hetero Labs Limited
Jodhpur, Rajasthan - 340 005, India

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This Medication Guide has been approved by the U.S. Food and Drug Administration.

Weight Changes

Patients treated with escitalopram oxalate in controlled trials did not differ from placebo-treated patients with regard to clinically important change in body weight.

Laboratory Changes

Escitalopram oxalate and placebo groups were compared with respect to (1) mean change from baseline in various serum chemistry, hematology, and urinalysis variables, and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses revealed no clinically important changes in laboratory test parameters associated with escitalopram oxalate treatment.

ECG Changes

Electrocardiograms from escitalopram oxalate (N=425) and placebo (N=527) groups were compared with respect to values defined as subjects with QTc changes over 60 msec from baseline or absolute values over 400 msec (men) and over 360 msec (women) or QTc increases from 100 bpm or decreases to less than 50 bpm with a 25% change from baseline (bradycardia or tachycardia outliers, respectively). None of the patients in the escitalopram oxalate group had a QTc interval ≥ 500 msec or a prolonged QTc interval ≥ 60 msec compared to 0.2% of patients in the placebo group. The incidence of bradycardia outliers was 0.2% in the escitalopram oxalate and the placebo group. The incidence of bradycardia outliers was 0.5% in the escitalopram oxalate group and 0.2% in the placebo group.

QTc interval was evaluated in a randomized, placebo and active (moxifloxacin 400 mg controlled crossover, escalating multiple-dose study in 113 healthy subjects). The maximum mean (95% upper confidence bound) difference from placebo arm was 4.6 (4.0 to 5.1) (12.7 msec) for 10 mg and 5.0 (supersubtherapeutic 30 mg escitalopram given once daily, respectively. Based on the established exposure-response relationship, the predicted QTc change from placebo arm was 4.6 (4.0 to 5.1) msec for 10 mg and 5.0 (supersubtherapeutic 30 mg) in 10 mg. Escitalopram 30 mg given once daily resulted in 10.0 (9.3 to 10.7) msec higher than baseline for the maximum QTc interval at steady state (20 mg). The exposure ratio (supersubtherapeutic 30 mg) was similar to the steady state concentrations exposed in CYP2D6 poor metabolizers following a therapeutic dose of 20 mg.

Other Reactions Observed During the Premarketing Evaluation of Escitalopram Oxalate
Following is a list of treatment-emergent adverse events, as defined in the introduction to the **ADVERSE REACTIONS** section, reported by the 1428 patients treated with escitalopram oxalate for periods of up to one year in double-blind or open-label placebo trials during its premarketing evaluation. The listing does not include those events already listed in **Table 2** & 3, those events for which a drug cause was more remote and at a rate less than 1% for those placebo-treated patients who were so general as to be unidentifiable, and those events reported only once which did not have a substantial probability of being acutely life threatening. Events are categorized by body system. Events of major clinical importance are described in the **Warnings and Precautions** section (5).

Cardiovascular: hypertension, palpitation.

Central and Peripheral Nervous System Disorders: light-headed feeling, migraine.

Gastrointestinal Disorders: abdominal cramp, heartburn, gastroenteritis.

General: allergy, chest pain, fever, hot flashes, pain in limb.

Metabolic and Nutritional Disorders: increased weight.

Musculoskeletal System Disorders: arthralgia, myalgia jaw stiffness.

Psychiatric Disorders: appetite increased, concentration improved, irritability.

Reproductive Disorders/Female: menstrual cramps, menstrual disorder.

Respiratory System Disorders: bronchitis, coughing, nasal congestion, sinus congestion, sinus headache.

Skin and Appendages Disorders: rash.

Special Senses: vision blurred, blurred vision.

Urogenital System Disorders: urinary tract infection.

6.2 Post-Marketing Experience

Adverse Reactions Reported Subsequent to the Marketing of Escitalopram

The following additional adverse reactions have been observed in spontaneous reports of escitalopram received worldwide. These adverse reactions have been reported for inclusion because of a combination of seriousness, frequency of occurrence, or potential causal connection to escitalopram and have not been listed elsewhere in labeling. However, because these adverse reactions were reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency or establish a causal relationship to drug exposure. These include:

Blood and Lymphatic System Disorders: anemia, agranulocytosis, aplastic anemia, hemolytic anemia, idiopathic thrombocytopenic purpura, leukopenia, thrombocytopenia.

Cardiac Disorders: atrial fibrillation, bradycardia, cardiac failure, myocardial infarction, tachycardia, torsade de pointes, ventricular arrhythmia, first-degree atrioventricular block.

Ear and labyrinth disorders: vertigo.

Endocrine Disorders: diabetes mellitus, hyperparathyroidism, SIADH.

Eye Disorders: diplopia, glaucoma, myopia, visual disturbance.

Gastrointestinal Disorders: dysphagia, gastrointestinal hemorrhage, gastroesophageal reflux, pancreatitis, ileus.

Immune System Disorders: allergic reaction, angioedema, anaphylaxis.

Investigations: bilirubin increased, decreased weight, electrocardiogram QT prolongation, hepatic enzymes abnormal, hyperkalemia, hemoglobin decreased.

Metabolic and Nutrition Disorders: hypoglycemia, hypoglycemia, hypoglycemia, hyponatremia.

Musculoskeletal and Connective Tissue Disorders: muscle cramp, muscle stiffness, muscle weakness, myofasciitis.

Nervous System Disorders: akathisia, amnesia, ataxia, choreoathetosis, convulsions, oculomotor, diplopia, dizziness, euphoric, escitalopram overdose, grand mal seizure, convulsions, hypoaesthesia, myoclonus, nystagmus, Parkinsonism, restless legs, seizures, syncope, tardive dyskinesia, tremor.

Precedence: Pericarditis, supraventricular arrhythmia.

Psychiatric Disorders: acute psychosis, aggression, agitation, anger, anxiety, apathy, completed suicide, delirium, depersonalization, depression aggravated, delirium, delusion, delusional thinking, feeling unreal, hallucinations (visual and auditory), mood swings, paranoia, schizophrenia, nightmares, panic reaction, paranoia, restlessness, self-harm or thoughts of self-harm, suicide attempt, suicidal ideation, suicidal tendency.

Blood and Lymphatic System Disorders: acute psychosis, aggression, agitation, anger, anxiety, apathy, completed suicide, delirium, depersonalization, depression aggravated, delirium, delusion, delusional thinking, feeling unreal, hallucinations (visual and auditory), mood swings, paranoia, schizophrenia, nightmares, panic reaction, paranoia, restlessness, self-harm or thoughts of self-harm, suicide attempt, suicidal ideation, suicidal tendency.

Reproductive System and Breast Disorders: menorrhagia, ptitaxia.

Respiratory, Thoracic and Mediastinal Disorders: dyspnea, epistaxis, pulmonary embolism, pulmonary hypertension of the newborn.

Skin and Subcutaneous Tissue Disorders: alopecia, angioedema, dermatitis, eczematoid, erythema multiforme, photosensitivity reaction, pruritus, rash, skin rash, urticaria.

Vascular Disorders: deep vein thrombosis, flushing, hypertension crisis, hypertension, orthostatic hypotension, phlebitis, thrombosis.

DRUG INTERACTIONS

7.1 Serotonergic Drugs

Based on the mechanism of action of SSRI's and SSRI's including escitalopram oxalate, and the potential for serotonergic syndrome, caution is advised when escitalopram oxalate is administered with other agents that may affect the serotonergic neurotransmitter systems, such as triptans, levorotid (an antibiotic which is a reversible non-selective MAO-A inhibitor), tramadol, or St. John's Wort (See **Warnings and Precautions (5.2)**). The concomitant use of escitalopram oxalate with other SSRI's, SNRI's or tryptophan is not recommended.

There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If the patient is treated with escitalopram oxalate with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose changes. (See **Warnings and Precautions (5.2)**).

7.2 Triptans

There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If the patient is treated with escitalopram oxalate with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose changes. (See **Warnings and Precautions (5.2)**).

7.3 CNS Drugs

Given the primary CNS effects of escitalopram, caution should be used when it is taken in combination with other centrally acting CNS drugs.

7.4 Alcohol

Although escitalopram oxalate does not potentiate the cognitive and motor effects of alcohol in a clinical trial, there are reports of increased sedation with escitalopram oxalate in patients taking escitalopram oxalate is not recommended.

7.5 Monoamine Oxidase Inhibitors (MAOIs)

(See **Contraindications (4.1)** and **Warnings and Precautions (5.1)** and **Warnings and Precautions (5.2)**).

7.6 Drug That Interfers With Hemostasis (NSAIDs, Aspirin, Warfarin, etc.)

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding have also shown that concurrent use of an NSAID or aspirin may potentiate the risk of bleeding. Adverse anticoagulant effects, including with selective MAO-A inhibitors, have been reported in patients taking escitalopram oxalate. Patients receiving warfarin therapy should be carefully monitored when escitalopram oxalate is initiated or discontinued.

7.7 Cimetidine

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of 400 mg/day cimetidine for 5 days resulted in an increase in citalopram AUC and C₂₄ of 43% and 39%, respectively. The clinical significance of these findings is unknown.

7.8 Digoxin

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of citalopram and digoxin (single dose of 1 mg) did not significantly affect the pharmacokinetics of either citalopram or digoxin.

7.9 Lithium

Combined administration of racemic citalopram (40 mg/day for 10 days) and lithium (30 mmol/day for 5 days) had no significant effect on the pharmacokinetics of citalopram or lithium. Nevertheless, plasma lithium levels should be monitored with appropriate adjustment to the lithium dose as according with standard clinical practice. Because lithium may enhance the serotonergic effects of escitalopram, caution should be exercised when escitalopram oxalate and lithium are administered.

7.10 Pseudoephedrine and Citalopram

In a controlled study, a single dose of pseudoephedrine 20 mg administered with racemic citalopram 40 mg given once daily for 10 days was associated with a mean increase in QTc values of approximately 10 msec compared to placebo given alone. Racemic citalopram did not alter the mean AUC or C₂₄ of pseudoephedrine. The mechanism of this pharmacokinetic interaction is not known.

7.11 Sumatriptan

There have been rare postmarketing reports describing patients with weakness, hyperreflexia, and incoordination following the use of an SSRI and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluoxetine, paroxetine, sertraline, citalopram, escitalopram) is clinically warranted, appropriate observation of the patient is advised.

7.12 Theophylline

Combined administration of racemic citalopram (40 mg/day for 21 days) and the CYP2A6 substrate theophylline (single dose of 200 mg) did not affect the pharmacokinetics of theophylline. The effect of theophylline on the pharmacokinetics of citalopram was not evaluated.

7.13 Warfarin

Administration of 40 mg/day racemic citalopram for 21 days did not affect the pharmacokinetics of warfarin, a CYP2A6 substrate. Prothrombin time was increased by 5%, the clinical significance of which is unknown.

7.14 Carbamazepine

Combined administration of racemic citalopram (40 mg/day for 14 days) and carbamazepine (titrated to 400 mg/day for 20 days) did not significantly affect the pharmacokinetics of carbamazepine, a CYP2A6 substrate. Although both citalopram plasma levels were unaffected, given the enzyme-inducing properties of carbamazepine, the possibility that carbamazepine might increase the clearance of escitalopram should be considered if the two drugs are administered.

7.15 Triazolam

Combined administration of racemic citalopram (titrated to 40 mg/day for 28 days) and the CYP2A6 substrate triazolam (single dose of 0.25 mg) did not significantly affect the pharmacokinetics of either citalopram or triazolam.

7.16 Ketorolac

Combined administration of racemic citalopram (40 mg) and ketorolac (200 mg), a potent CYP2A6 inhibitor, decreased the C₂₄ and AUC of ketorolac by 21% and 10%, respectively, and did not significantly affect the pharmacokinetics of citalopram.

7.17 Fluoxetine

Combined administration of a single dose of ritonavir (600 mg), both a CYP2A6 substrate and a potent inhibitor of CYP2A6, and escitalopram (20 mg) did not affect the pharmacokinetics of either ritonavir or escitalopram.

7.18 CYP2A6 and -2C19 Inhibitors

In vitro studies indicated that CYP2A6 and -2C19 are the primary enzymes involved in the metabolism of escitalopram. However, coadministration of escitalopram (20 mg) and ritonavir (600 mg), a potent inhibitor of CYP2A6, did not significantly affect the pharmacokinetics of escitalopram. Because escitalopram is metabolized by multiple enzyme systems, inhibition of a single enzyme may not appreciably decrease escitalopram clearance.

7.19 Drugs Metabolized by Cytochrome P4502D6

In vitro studies did not reveal an inhibitory effect of escitalopram on CYP2D6. In addition, steady state levels of racemic citalopram were not significantly affected by poor metabolizers and extensive CYP2D6 metabolizers after multiple-dose administration of citalopram, suggesting that coadministration with escitalopram, of a drug that is metabolized by CYP2D6, is unlikely to have clinically important effects on escitalopram metabolism. However, there is limited *in vivo* data suggesting a modest CYP2D6 inhibitory effect for escitalopram. In a study in which 10 mg of escitalopram was administered with the CYP2D6 substrate desipramine, escitalopram increased the clearance of desipramine by 10% and increased its AUC of desipramine. The clinical significance of this finding is unknown. Nevertheless, caution is indicated in the coadministration of escitalopram and drugs metabolized by CYP2D6.

7.20 Metoprolol

Administration of 20 mg/day escitalopram oxalate for 21 days in healthy volunteers resulted in a 50% increase in C₂₄ and 80% increase in AUC of the beta-adrenergic blocker metoprolol (given in a single dose of 100 mg). Increased metoprolol plasma levels have been associated with decreased cardiovascular morbidity and mortality in patients with heart failure who did not clinically significant effects on blood pressure or heart rate.

7.21 Electroconvulsive Therapy (ECT)

There are no clinical studies of the combined use of ECT and escitalopram.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy - Teratogenic Effects:

Pregnancy Category C:
In a rat embryofetal development study, oral administration of escitalopram (56, 112, or 150 mg/kg/day) from implantation through the period of organogenesis resulted in decreased fetal body weight and associated delays in ossification at the two higher doses (approximately 2-6 times the maximum recommended human oral dose [MRHD]) of 20 mg/day or a body surface area (BSA) based dose of 1.6 mg/kg/day. Similar effects on offspring mortality and growth were seen when dams were treated throughout gestation and early lactation at doses of 24 mg/kg/day. The effect dose was not determined in that study.

No teratogenicity was observed at any of the doses tested (up to 75 times the MRHD on a mg/m² basis). When female rats were treated with racemic citalopram (16, 32, or 48 mg/kg/day) during pregnancy and through weaning, slightly increased offspring mortality and growth retardation were noted at 48 mg/kg/day which was similar to the maternal mortality and growth retardation noted at 48 mg/kg/day. However, decreased body weight gain and food consumption was the only dose. Slightly increased offspring mortality was observed at 48 mg/kg/day. The no-effect dose was 12 mg/kg/day which is approximately 6 times the MRHD on a mg/m² basis.

In animal reproduction studies, racemic citalopram has been shown to have adverse effects on embryonic development, including teratogenic effects, when administered at doses greater than 1.6 mg/kg/day.

In a human embryofetal development study, oral administration of racemic citalopram (22, 56, or 112 mg/kg/day) to pregnant animals during the period of organogenesis resulted in decreased embryofetal body weight and increased incidence of fetal anomalies (including increased cardiovascular and skeletal defects) at the high dose. This was associated with maternal toxicity (clinical signs, decreased body weight, and decreased food consumption). In a rat embryofetal development study, oral administration of racemic citalopram was observed at a maternally toxic dose in the rat and were not observed in the rabbit.

When female rats were treated with racemic citalopram (4.8, 12.8, or 32 mg/kg/day) from late gestation through weaning, increased offspring mortality during the first 4 days after birth and persistent offspring growth retardation were observed at the highest dose. The no-effect dose was 12.8 mg/kg/day. Similar effects on offspring mortality and growth were seen when dams were treated throughout gestation and early lactation at doses of 24 mg/kg/day. The effect dose was not determined in that study.

There are no adequate and well-controlled studies in pregnant women; therefore, escitalopram should be used with pregnancy only if the potential benefit justifies the potential risk to the fetus.

Pregnancy-Neonatal Effects:
Neonates exposed to escitalopram oxalate or other SSRI's or SNRI's, late in the third trimester, have developed complications requiring intensive medical management, including hypothermia, malnutrition, weight loss; complications can arise immediately after delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, temperature instability, feeding difficulty, hypoglycemia, hypocalcemia, hypothermia, hyperkalemia, tremor; irritability, and constant crying. These features are consistent with those reported by a neonatal abstinence syndrome scale. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (See **Warnings and Precautions (5.2)**).

Infants exposed to SSRI's in late pregnancy may have an increased risk for persistent pulmonary hypertension (see **Warnings and Precautions (5.2)**).

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