



1181

These are not all the possible side effects of oxcarbazepine oral suspension. Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

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

How should I store oxcarbazepine oral suspension?

- Store oxcarbazepine oral suspension at room temperature between 15°C to 30°C (59°F to 86°F)
- Keep oxcarbazepine oral suspension in the original container and use within 7 weeks of first opening the bottle. Shake well before using.

Keep oxcarbazepine oral suspension and all medicines out of the reach of children.

General Information about the safe and effective use of oxcarbazepine oral suspension.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use oxcarbazepine oral suspension for a condition for which it was not prescribed. Do not give oxcarbazepine oral suspension to other people, even if they have the same symptoms that you have. It may harm them.

You can ask your pharmacist or healthcare provider for information about oxcarbazepine oral suspension that is written for health professionals.

What are the ingredients in oxcarbazepine oral suspension?

Active ingredient: oxcarbazepine

Inactive ingredients: ascorbic acid, carboxymethylcellulose sodium, lemon flavor, methyl paraben, microcrystalline cellulose, sorbitol, polyoxyl 8 stearate type I, propylene glycol, propyl paraben, purified water, saccharin sodium and sorbic acid.

For more information, call Hetero Labs Limited at 1-866-495-1995.

Medication Guide available at <http://camberpharma.com/medication-guides>.

CAMBER

Manufactured for:
Camber Pharmaceuticals, Inc.
Piscataway, NJ 08854

Manufactured by:

HETERO LABS LIMITED

22-110, I.O.A., Jeedimetla,
Hyderabad - 500 055, India

Revised: 10/2023

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

**Instructions for Use
Oxcarbazepine Oral Suspension, USP
(ox[®] kar baz[®] pen)
300 mg/5 mL**

Each 5 mL contains 300 mg oxcarbazepine

Read these instructions carefully to learn how to use the medicine dispensing system correctly.

The Medicine Dispensing System

There are 3 parts to the dispensing system:

1. A **plastic adapter** that you push into the neck of the bottle the first time that you open the bottle. The adapter must always stay in the bottle.
2. A **bottle** containing 250 mL of the medicine, with a child-resistant cap. Always replace the cap after use.
3. A **10 mL oral dosing syringe** that fits into the plastic adapter to withdraw the prescribed dose of medicine from the bottle.

Preparing the Bottle

1. Shake the bottle of medicine for **at least 10 seconds**.
 2. Remove the child-resistant cap by pushing it **firmly** down and turning it counter clockwise – to the left (as shown on the top of the cap).
 3. Hold the open bottle upright on a table and push the plastic adapter **firmly** into the neck of the bottle as far as you can.
 4. **Replace the cap to be sure that the adapter has been fully forced into the neck of the bottle.**
- Note:** You may not be able to push the adapter fully down, but it will be forced into the bottle when you screw the cap back on.
- Now the bottle is ready to use with the syringe. The adapter must always stay in the bottle. The child-resistant cap should seal the bottle in between uses.

Taking the Medicine

1. Shake the bottle well. Prepare the dose right away.
 2. Push and turn the child-resistant cap to open the bottle.
Note: Always replace the cap after use.
 3. Check that the plunger is all the way down inside the barrel of the syringe.
 4. Keep the bottle upright and push the syringe **firmly** into the plastic adapter.
 5. Hold the syringe in place and carefully turn the bottle upside down.
 6. Slowly pull the plunger out so that the syringe fills with some medicine. Push the plunger back in just far enough to completely push out any large air bubbles that may be trapped in the syringe.
 7. Slowly pull the plunger out until the top edge of the plunger is exactly level with the marker on the syringe barrel for the prescribed dose.
Note: If the prescribed dose is more than 10 mL, you will need to refill the syringe to make up the full dose.
 8. Carefully turn the bottle upright. Take out the syringe by gently twisting it out of the plastic adapter. The plastic adapter should stay in the bottle.
 9. You can mix the dose of medicine in a small glass of water before it is swallowed, or you can drink it directly from the syringe.
 - a. If you mix the medicine with water, add some water to a glass. Push in the plunger on the syringe all the way to empty all the medicine into the glass. Stir the medicine in the water and drink it all.
 - b. If you use the syringe to take the medicine, the patient must sit upright. Push the plunger slowly to let the patient swallow the medicine.
 10. Replace the child-resistant cap after use.
- Cleaning:** After use, rinse the syringe with warm water and allow it to dry thoroughly.

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Oxcarbazepine, USP is a light orange to creamish white or off-white powder. Sparingly soluble in acetic acid, slightly soluble in chloroform and practically insoluble in water. Intrinsic viscosity is 0.52 dL/g.

Oxcarbazepine oral suspension, USP contains the following inactive ingredients: ascorbic acid, carboxymethylcellulose sodium, lemon flavor, methyl paraben, microcrystalline cellulose, sorbitol, polyoxyl 8 stearate type I, propylene glycol, propyl paraben, purified water, saccharin sodium and sorbic acid. FDA-approved colorants used in this suspension differ from USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The pharmacological activity of oxcarbazepine is primarily exerted through the 10-monohydroxy metabolite (MHD) of oxcarbazepine [see Clinical Pharmacology (12.3)]. The precise mechanism by which oxcarbazepine and MHD exert their anti-seizure effect is unknown; however, *in vitro* electrophysiological studies indicate that they produce blockade of voltage-sensitive sodium channels, resulting in stabilization of hyperexcited neural membranes, inhibition of repetitive neuronal firing, and diversion of propagation of synaptic impulses. These actions are thought to be important in the prevention of seizure spread in the intact brain. In addition, increased potassium conductance and modulation of high-voltage activated calcium channels may contribute to the anticonvulsant effects of the drug. No significant interactions of oxcarbazepine or MHD with brain neurotransmitter or modulator receptors (that have been demonstrated).

12.2 Pharmacodynamics

Oxcarbazepine and its active metabolite MHD inhibit anticonvulsant properties in animal seizure models. They protected rodents against electrically induced tonic extension seizures and, to a lesser degree, chemically induced clonic seizures, and abolished or reduced the frequency of chronically recurring focal seizures in Rhesus monkeys with aluminum implants. No development of tolerance (i.e., attenuation of anticonvulsant activity) was observed in the maximal electroshock test when mice and rats were treated daily for 7 days and 4 weeks, respectively, with oxcarbazepine or MHD.

12.3 Pharmacokinetics

Following oral administration of oxcarbazepine tablets, oxcarbazepine is completely absorbed and extensively metabolized to its pharmacologically active 10-monohydroxy metabolite (MHD). In a mass balance study in people, only 2% of total radioactivity in plasma was due to unchanged oxcarbazepine, with approximately 75% present as MHD, and the remainder attributable to minor metabolites. The half-life of the parent is about 2 hours, while the half-life of MHD is about 8 hours, so that MHD is responsible for most antiepileptic activity.

12.4 Absorption

Based on MHD concentrations, oxcarbazepine tablets and suspension were shown to have similar bioavailability. After single-dose administration of oxcarbazepine tablets to healthy male volunteers under fasted conditions, the median t_{max} was 4.5 (range 3 to 13) hours. After single-dose administration of oxcarbazepine oral suspension to healthy male volunteers under fasted conditions, the median t_{max} was 3 hours. Steady-state plasma concentrations of MHD are reached within 2 to 3 days in patients when oxcarbazepine is given twice a day. At steady state the pharmacokinetics of MHD are linear and show dose proportionality over the dose range of 300 to 2400 mg/day.

Although not directly studied, the oral bioavailability of the oxcarbazepine suspension is unlikely to be affected under fed conditions. Therefore, oxcarbazepine suspension can be taken with or without food.

12.5 Distribution

The apparent volume of distribution of MHD is 48 L. Approximately 40% of MHD is bound to serum proteins, predominantly to albumin. Binding is independent of the serum concentration within the therapeutically relevant range. Oxcarbazepine and MHD do not bind to albumin 1-acidophobically (DHO).

Oxcarbazepine is rapidly reduced by cytochrome enzymes in the liver to its 10-monohydroxy metabolite, MHD, which is primarily responsible for the pharmacological effect of oxcarbazepine. MHD is metabolized both by conjugation with glucuronic acid. Minor amounts (4%) of the dose are excreted in the pharmacologically inactive 10, 11-dihydroxy metabolite (DHD). Oxcarbazepine is cleared from the body mostly in the form of metabolites which are predominantly excreted in the kidneys. More than 95% of the dose appears in the urine, with less than 1% as unchanged oxcarbazepine. Fecal excretion accounts for less than 4% of the administered dose. Approximately 80% of the dose is excreted in the urine either as glucuronides of MHD (40%) or as unchanged MHD (20%). The inactive DHD accounts for approximately 2% and conjugates of MHD and oxcarbazepine account for 13% of the dose.

The half-life of the parent is about 2 hours, while the half-life of MHD is about 8 hours.

12.6 Specific Populations

Geriatrics
Following administration of single 300 mg and multiple 600 mg/day doses of oxcarbazepine to elderly volunteers (60 to 82 years of age), the mean plasma concentrations and AUC values of MHD were 30% to 60% higher than in younger volunteers (18 to 32 years of age). Comparisons of creatinine clearance in young and elderly volunteers indicate that the difference was due to age-related reductions in creatinine clearance.

12.7 Pediatrics

Weight-adjusted MHD clearance decreases as age and weight increases, approaching that of adults. The mean weight-adjusted clearance in children 2 years to < 4 years of age is approximately 80% higher than that of adults. Therefore, MHD exposure in these children is expected to be about one-half that of adults when treated with a similar weight-adjusted dose. The mean weight-adjusted clearance in children 4 to 12 years of age is approximately 40% higher on average than that of adults. Therefore, MHD exposure in these children is expected to be about three-quarters that of adults when treated with a similar weight-adjusted dose. As weight increases, for patients 13 years of age and above, the weight-adjusted MHD clearance is expected to reach that of adults.

12.8 Gender

No gender-related pharmacokinetic differences have been observed in children, adults, or the elderly.

12.9 Race

No specific studies have been conducted to assess what effect, if any, race may have on the disposition of oxcarbazepine.

12.10 Renal Impairment

There is a linear correlation between creatinine clearance and the renal clearance of MHD. When oxcarbazepine is administered as a single 300 mg dose to healthy impaired patients (creatinine clearance < 30 mL/min), the elimination half-life of MHD is prolonged by 19 hours, with a 2-fold increase in AUC [see Dosage and Administration (2.7) and Use in Specific Populations (8.6)].

12.11 Hepatic Impairment

Pharmacokinetic studies of oxcarbazepine and MHD were evaluated in healthy volunteers and hepatically-impaired subjects after a single 900 mg oral dose. MHD-to-metabolic hepatic impairment did not affect the pharmacokinetics of oxcarbazepine and MHD [see Dosage and Administration (2.8)].

Due to physiological changes during pregnancy, MHD plasma levels may gradually decrease throughout pregnancy [see Use in Specific Populations (8.7)].

12.12 Drug Interactions

Oxcarbazepine can inhibit CYP2C19 and induce CYP3A45 with potentially important effects on plasma concentrations of other drugs. In addition, several AEDs that are cytochrome P450 inducers can decrease plasma concentrations of oxcarbazepine and MHD. No autoinduction has been observed with oxcarbazepine.

Oxcarbazepine was evaluated in human liver microsomes to determine its capacity to inhibit the major cytochrome P450 enzymes responsible for the metabolism of other drugs. Results demonstrate that oxcarbazepine and its pharmacologically active 10-monohydroxy metabolite (MHD) have little or no capacity to function as inhibitors for most of the human cytochrome P450 enzymes evaluated (CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2E1, CYP2A6 and CYP4A11) with the exception of CYP2C19 and CYP3A45. Although inhibition of CYP3A45 by oxcarbazepine and MHD did occur at high concentrations, it is not likely to be of clinical significance. The inhibition of CYP2C19 by oxcarbazepine and MHD can cause increased plasma concentrations of drugs that are substrates of CYP2C19, which is clinically relevant.

In vitro, the UGP glucuronidation level was increased, indicating induction of this enzyme. Increases of 22% with MHD and 47% with oxcarbazepine were observed. In MHD, the predominant plasma substrate, is only a weak inducer of UGP glucuronidation. It is unlikely to have an effect on drugs that are mainly eliminated by conjugation (UGP glucuronidation) (e.g., valproic acid, lamotrigine).

In addition, oxcarbazepine and MHD induce a subgroup of cytochrome P450s (CYP2A6, CYP2A8, CYP2A10, CYP2A12, CYP2A13, CYP2A14, CYP2A15, CYP2A16, CYP2A17, CYP2A18, CYP2A19, CYP2A20, CYP2A21, CYP2A22, CYP2A23, CYP2A24, CYP2A25, CYP2A26, CYP2A27, CYP2A28, CYP2A29, CYP2A30, CYP2A31, CYP2A32, CYP2A33, CYP2A34, CYP2A35, CYP2A36, CYP2A37, CYP2A38, CYP2A39, CYP2A40, CYP2A41, CYP2A42, CYP2A43, CYP2A44, CYP2A45, CYP2A46, CYP2A47, CYP2A48, CYP2A49, CYP2A50, CYP2A51, CYP2A52, CYP2A53, CYP2A54, CYP2A55, CYP2A56, CYP2A57, CYP2A58, CYP2A59, CYP2A60, CYP2A61, CYP2A62, CYP2A63, CYP2A64, CYP2A65, CYP2A66, CYP2A67, CYP2A68, CYP2A69, CYP2A70, CYP2A71, CYP2A72, CYP2A73, CYP2A74, CYP2A75, CYP2A76, CYP2A77, CYP2A78, CYP2A79, CYP2A80, CYP2A81, CYP2A82, CYP2A83, CYP2A84, CYP2A85, CYP2A86, CYP2A87, CYP2A88, CYP2A89, CYP2A90, CYP2A91, CYP2A92, CYP2A93, CYP2A94, CYP2A95, CYP2A96, CYP2A97, CYP2A98, CYP2A99, CYP2A100, CYP2A101, CYP2A102, CYP2A103, CYP2A104, CYP2A105, CYP2A106, CYP2A107, CYP2A108, CYP2A109, CYP2A110, 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