

- trouble with walking and coordination
 - seizures that can happen more often or become worse, especially in children
- Get medical help right away if you have any of the symptoms listed above or listed in “What is the most important information I should know about oxcarbazepine oral suspension?”**
- The most common side effects of oxcarbazepine oral suspension include:**

- dizziness
- problems with vision
- sleepiness
- trembling
- double vision
- problems with walking and coordination (unsteadiness)
- tiredness
- rash
- nausea
- vomiting

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 1, propylene glycol, propyl paraben, purified water, saccharin sodium and sorbic acid.

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



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

By: **HETERO™**
Hetero Labs Limited
Jeedimetla, Hyderabad - 500 055, India.

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

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

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Instructions for Use Oxcarbazepine Oral Suspension, USP (ox* kar baz* e pen)

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

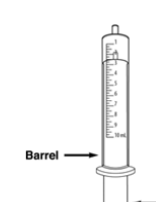
There are 3 parts to the dispensing system:



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).

Note: Save the cap so you can close the bottle after each use.



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.

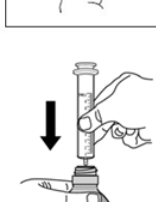
Now the bottle is ready to use with the syringe. The adapter must always stay in the bottle. The child-resistant cap should seal the bottle in between use.

Taking the Medicine

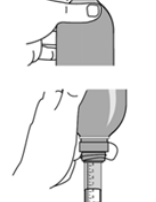


1. Shake the bottle well. Prepare the dose right away.
2. Push and turn the child-resistant cap to open the bottle.

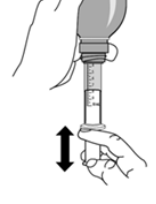
Note: Always replace the cap after use.



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.

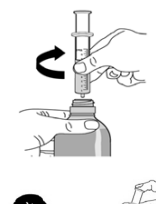


5. Hold the syringe in place and carefully turn the bottle upside down.
6. Slowly pull the plunger out so that the syringe fills with some medicine. Push the plunger back in just far enough to completely push out any large air bubbles that may be trapped in the syringe.



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 off 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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2.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of oxcarbazepine. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Body as a Whole: multi-organ hypersensitivity disorders characterized by features such as rash, fever, lymphadenopathy, abnormal liver function tests, eosinophilia and arthralgia [see Warnings and Precautions (5.6)]

Cardiovascular System: drowsiness/fatigue

Immune System Disorders: anaphylaxis [see Warnings and Precautions (5.2)]

Digestive System: pancreatitis and/or lipase and/or amylase increase
Hematologic and Lymphatic Systems: aplastic anemia [see Warnings and Precautions (5.8)]

Metabolism and Nutrition Disorders: hyponatremia and syndrome of inappropriate antidiuretic hormone secretion (SIADH)
Skin and Subcutaneous Tissue Disorders: erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis [see Warnings and Precautions (5.4)], Acute Generalized Exanthematous Purpuriform (AGEP)

Musculoskeletal, Connective Tissue and Bone Disorders: There have been reports of decreased bone mineral density, osteoporosis, and fractures in patients on long-term therapy with oxcarbazepine.

Injury, Poisoning, and Procedural Complications: fall

Nervous System Disorders: dysarthria

3. DRUG INTERACTIONS

7.1 Effect of Oxcarbazepine on Other Drugs
Phenytoin levels have been shown to increase with concomitant use of oxcarbazepine at doses greater than 1200 mg/day [see Clinical Pharmacology (7.2.3)]. Therefore, it is recommended that the plasma levels of phenytoin be monitored during the period of oxcarbazepine initiation and dosage modification. A decrease in the dose of phenytoin may be required.

7.2 Effect of Other Drugs on Oxcarbazepine
Strong inducers of cytochrome P450 enzymes and/or inducers of UGT (e.g., rifampin, carbamazepine, phenytoin and phenobarbital) have been shown to decrease the plasma/serum levels of MHD. The active metabolite of oxcarbazepine (25% to 49%) [see Clinical Pharmacology (7.2.3)]. If oxcarbazepine and strong CYP3A4 inducers, or UGT inducers are administered concurrently, it is recommended that the plasma levels of MHD be monitored during the period of oxcarbazepine titration. Dose adjustment of oxcarbazepine may be required after initiation, dosage modification, or discontinuation of such inducers.

7.3 Hormonal Contraceptives
Concurrent use of oxcarbazepine with hormonal contraceptives may render these contraceptives less effective [see Use in Specific Populations (8.3) and Clinical Pharmacology (7.2.3)]. Studies with other oral or implant contraceptives have not been conducted.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Fertility: Excludes Reproductive Toxicology
There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to AEDs, such as oxcarbazepine, during pregnancy. Encourage women who are taking oxcarbazepine during pregnancy to enroll in the North American Antiepileptic Drug (NAED) Pregnancy Registry by calling 1-888-233-2334 or visiting <http://http://www.aepregistry.org/>.

Risk Summary

There are no adequate data on the developmental risks associated with the use of oxcarbazepine in pregnant women; however, oxcarbazepine is closely related structurally to carbamazepine, which is considered to be teratogenic in humans. Data on a limited number of pregnancies from pregnancy registries suggest that oxcarbazepine monotherapy use is associated with congenital malformations (e.g., craniofacial defects, such as oral clefts and cardiac malformations, such as ventricular septal defects). Increased incidences of fetal structural abnormalities and other manifestations of developmental toxicity (embryofetality, growth retardation) were observed in the offspring of animals treated with either oxcarbazepine or its active 10-hydroxy metabolite (MHD) during pregnancy at doses similar to the maximum recommended human dose (MRHD).

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 10% to 12%, respectively. The background risk of major birth defects and miscarriage for the indicated population is unknown.

Clinical Considerations
Increase in seizure frequency may occur during pregnancy because of altered levels of the active metabolite of oxcarbazepine. Monitor patients carefully during pregnancy and through the postpartum period [see Warnings and Precautions (5.10)].

Data
Human Data
Data from published registries have reported craniofacial defects, such as oral clefts and cardiac malformations, such as ventricular septal defects in children with prenatal oxcarbazepine exposure.

Animal Data
When pregnant rats were given oxcarbazepine (0, 300, or 1000 mg/kg/day) orally throughout the period of organogenesis, increased incidences of fetal malformations (craniofacial, cardiovascular, and skeletal) and variations were observed at the intermediate and high doses (approximately 1.2 and 4 times, respectively, the MRHD on a mg/m² basis). Increased embryofetal loss and decreased fetal body weights were seen at the high dose. Doses >300 mg/kg/day were also maternally toxic (decreased body weight gain, clinical signs) and were considered to suggest that teratogenicity was secondary to the maternal effects. In a study in which pregnant rabbits were orally administered MHD (0, 20, 100, or 200 mg/kg/day) during organogenesis, embryofetal mortality was increased at the highest dose (1.5 times the MRHD on a mg/m² basis). This dose produced only minimal maternal toxicity.

In a study in which female rats were dosed orally with oxcarbazepine (0, 25, 50, or 150 mg/kg/day) during the latter part of gestation and throughout the lactation period, no adverse effects on body weights and altered behavior, decreased survival, or decreased pup weight gain were observed in offspring exposed to the highest dose (less than the MRHD on a mg/m² basis). Oral administration of MHD (0, 25, 75, or 250 mg/kg/day) rats during gestation and lactation resulted in a persistent reduction in offspring weights at the highest dose (equivalent to the MRHD on a mg/m² basis).

8.2 Lactation
Risk Summary
Oxcarbazepine and its active metabolite (MHD) are present in human milk after oxcarbazepine administration. The effects of oxcarbazepine and its active metabolite (MHD) on the breastfed infant or on milk production are unknown. The developmental and health benefits of breastfeeding should be weighed along with the mother's clinical need for oxcarbazepine and any potential adverse effects on the breastfed infant from oxcarbazepine or from the underlying maternal condition.

8.3 Females and Males of Reproductive Potential
Contraception
Use of oxcarbazepine with hormonal contraceptives containing ethinylloestradiol or levonorgestrel is associated with decreased plasma concentrations of these hormones and may result in a failure of the therapeutic effect of the oral contraceptive drug. Advise women of reproductive potential taking oxcarbazepine to use a contraceptive containing ethinylloestradiol or levonorgestrel to use additional or alternative non-hormonal birth control [see Drug Interactions (7.2) and Clinical Pharmacology (7.2.3)].

8.4 Pediatric Use
Oxcarbazepine is indicated for use as adjunctive therapy for partial-onset seizures in patients aged 2 to 16 years. The safety and effectiveness for use as adjunctive therapy for partial-onset seizures in pediatric patients below the age of 2 have not been established.

Oxcarbazepine is also indicated for use as monotherapy for partial-onset seizures in pediatric patients aged 4 to 16 years.

The safety and effectiveness for use as monotherapy for partial-onset seizures in pediatric patients below the age of 4 have not been established.

Oxcarbazepine has been given to 808 patients between the ages of 1 month to 17 years in controlled clinical trials (332 treated as monotherapy) and about 677 patients between the ages of 1 month to 17 years in other trials [see Warnings and Precautions (5.1), Adverse Reactions (6.1), Clinical Pharmacology (7.2.3), and Clinical Studies (14)].

8.5 Geriatric Use
There were 52 patients over age 65 in controlled clinical trials and 565 patients over age 65 in other trials. Following administration of single (300 mg) and multiple (600 mg/day) doses of oxcarbazepine in elderly volunteers (60 to 82 years of age), the maximum plasma concentrations and AUC values of MHD were 30% to 85% higher than in younger volunteers (18 to 32 years of age). Comparison of creatinine clearance in young and elderly volunteers indicate that the difference in clearance is attributable to the anticonvulsant effects of the drug. No significant interactions of oxcarbazepine or MHD have been reported for risk for hypotension [see Warnings and Precautions (5.1)].

8.6 Renal Impairment
Dose adjustment is recommended for renally impaired patients (creatinine clearance < 30 mL/min) [see Dosage and Administration (7.2) and Clinical Pharmacology (7.2.3)].

9. DRUG ABUSE AND DEPENDENCE

9.2 Abuse
The abuse potential of oxcarbazepine has not been evaluated in human studies.

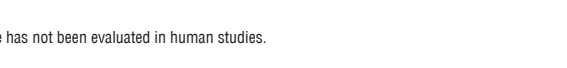
9.3 Dependence
Intragastric injections of oxcarbazepine to 4 cynomolgus monkeys demonstrated no signs of physical dependence as measured by the desire to self-administer oxcarbazepine by lever pressing activity.

10. OVERDOSAGE

10.1 Human Toxic Experience
Isolated cases of overdose with oxcarbazepine have been reported. The maximum dose taken was approximately 4800 mg. All patients recovered with symptomatic treatment: Nausea, vomiting, somnolence, aggression, agitation, hypertension, and tremor each occurred in more than one patient. Constipation, dizziness, hypotension, decreased level of consciousness, dyspnea, diarrhea, dyskinesia, dyspnea, QT prolongation, headache, muscle, nystagmus, overactive, decreased urine output and blurred vision were also reported.

10.2 Treatment and Management
There is no specific antidote. Symptomatic and supportive treatment should be administered as appropriate. Removal of the drug by gastric lavage and/or induction by administering activated charcoal should be considered.

11. DESCRIPTION
Oxcarbazepine is an AED available as 300 mg/5 mL (60 mg/mL) oral suspension. Oxcarbazepine is 10,11-Dihydro-10-oxo-5H-dibenz[b,f]azepine-5-carboxamide, and its structural formula is:



Oxcarbazepine, USP is a light orange to creamish white or off-white powder. Sparingly soluble in acetic acid, slightly soluble in tetrahydrofuran and possibly insoluble in water. Its molecular weight is 252.27 g/mol.

Oxcarbazepine oral suspension, USP contains the following inactive ingredients: ascorbic acid, carboxymethylcellulose sodium, lemon flavor, methyl paraben, microcrystalline cellulose, sorbitol, polyoxyl 8 stearate type 1, propylene glycol, propyl paraben, purified water, saccharin sodium and sorbic acid.

FDA approved dissolution test specifications 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 (7.2.3)]. 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 a reduction of the slow component of repetitive firing, inhibition of repetitive firing, and diminution 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 have been reported for neurotransmitter or modulator receptor sites have been demonstrated.

12.2 Pharmacokinetics
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 tonic seizures, and abolished or reduced the frequency of chemically 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 5 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 71% 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 9 hours, so that MHD is responsible for most anticonvulsant activity.

Algebraic
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 $t_{1/2}$ 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 $t_{1/2}$ was 6 hours.

Steady-state plasma concentrations of MHD are linear and show within 2 to 3 days in patients when oxcarbazepine is given twice a day. At steady state the plasma 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 oxcarbazepine suspension is unlikely to be affected under fed conditions. Therefore, oxcarbazepine suspension can be taken with or without food.

Distribution
The apparent volume of distribution of MHD is 49 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 alpha-1-acid glycoprotein.

Metabolism and Excretion
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 further by conjugation with glucuronic acid. Minor amounts (4% of the dose) are excreted in the urine as the pharmacologically inactive 10,11-dihydro metabolite (DHD). Oxcarbazepine is cleared from the body mostly in the form of metabolites which are predominantly excreted by the kidneys. More than 95% of the dose appears in the urine, with less than 1% as unchanged oxcarbazepine. Renal 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 (49%) or as unchanged MHD (27%); the inactive DHD accounts for approximately 3% 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 9 hours.

Specific Populations
Geriatric
Following administration of single (300 mg) and multiple (600 mg/day) doses of oxcarbazepine to elderly volunteers (60 to 82 years of age), the maximum plasma concentrations and AUC values of MHD were 30% to 85% higher than in younger volunteers (18 to 32 years of age), and correlations between creatinine clearance in young and elderly volunteers indicate that the difference was due to age-related reductions in creatinine clearance.

Pediatric
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 on average than that of adults. Therefore, MHD exposure in these children is expected to be about one-third 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.

Pediatric Patients With Obesity
A population PK analysis of oxcarbazepine was conducted that included $n = 92$ obese and non-obese pediatric patients < 18 years of age to evaluate the potential effect of obesity on plasma oxcarbazepine exposure. Obesity was defined as BMI ≥ 30 percentiles for age and sex based on CDC 2000 growth chart recommendations. Simulated results from this analysis suggested that the target maintenance doses for oxcarbazepine, applied in pediatric patients ≥ 2 years of age, produced equivalent steady-state exposure of MHD between pediatric patients with obesity and children when using the same weight-adjusted dose, or when using half-free mass in patients > 3 years and total body weight in patients < 3 years in the simulations. Dose adjustment according to obesity status is not necessary.

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

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

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 in renally-impaired patients (creatinine clearance < 30 mL/min), the elimination half-life of MHD is prolonged to 13 hours, with a 5-fold increase in AUC [see Dosage and Administration (7.2) and Use in Specific Populations (8.3)].

Hepatic Impairment
The pharmacokinetics and metabolism of oxcarbazepine and MHD were evaluated in healthy volunteers and hepatically-impaired subjects after a single 300-mg oral dose. MHD-to-parent plasma substrate is 9; only a weak indicator of UDF-glucuronid transferase. It is unlikely to have an effect on drugs that are mainly eliminated by conjugation through UDF-glucuronid transferase (e.g., valproic acid, lamotrigine).

Pregnancy
Due to physiological changes during pregnancy, MHD plasma levels may gradually decrease throughout pregnancy [see Use in Specific Populations (8.1)].

Drug Interactions:
• In Vitro
Oxcarbazepine can inhibit CYP2C19 and induce CYP3A4/5 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 induction 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, CYP3A4, and CYP3A5) with the exception of CYP2C19 and CYP3A4. Although inhibition of CYP3A4 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 UDF-glucuronid transferase level was increased, indicating induction of this enzyme. Increases of 32% with MHD and 47% with oxcarbazepine were observed. As MHD, the predominant plasma substrate, is only a weak inducer of UDF-glucuronid transferase, it is unlikely to have an effect on drugs that are mainly eliminated by conjugation through UDF-glucuronid transferase (e.g., valproic acid, lamotrigine).

In addition, oxcarbazepine and MHD induce a subgroup of the cytochrome P450 3A family (CYP3A4 and CYP3A5) responsible for the metabolism of dihydropyridine calcium antagonists, oral contraceptives and cyclosporine resulting in a lower plasma concentration of these drugs.

As binding of MHD to plasma proteins is low (40%), clinically significant interactions with other drugs through competition for protein binding are unlikely.

• In Vivo

Other Antiepileptic Drugs
Potential interactions between oxcarbazepine and other AEDs were assessed in clinical studies. The effect of these interactions on mean AUC and C_{min} are summarized in Table 3 [see Drug Interactions (7.1, 7.2)].

Table 3. Summary of Antiepileptic Drug Interactions With Oxcarbazepine

AED coadministered	Dose of AED (mg/day)	Oxcarbazepine dose (mg/day)	Influence of Oxcarbazepine on AED concentration (mean change, 90% confidence interval)	Influence of AED on MHD concentration (mean change, 90% confidence interval)
Carbamazepine	400 to 2000	900	nc*	40% decrease [CI: 17% decrease, 57% decrease]
Phenobarbital	100 to 150	600 to 1800	14% increase [CI: 12% increase, 24% increase]	25% decrease [CI: 12% decrease, 51% decrease]
Phenytoin	250 to 500	600 to 1800 > 1200 to 2400	up to 40% increase* [CI: 12% increase, 80% increase]	30% decrease [CI: 3% decrease, 48% decrease]
Valproic acid	400 to 800	600 to 1800	nc*	18% decrease [CI: 13% decrease, 40% decrease]
Lamotrigine	200	1200	nc*	nc*

Abbreviations: AED, antiepileptic drug; CI, confidence interval; MHD, 10-monohydroxy derivative.
*nc denotes a mean change of less than 10%.

Mean increase in adults at high oxcarbazepine doses.

Hormonal Contraceptives
Concomitant administration of oxcarbazepine with an oral contraceptive has been shown to influence the plasma concentrations of the two hormonal components, ethinylloestradiol (EE) and levonorgestrel (LNG) [see Drug Interactions (7.3)]. The mean AUC values of EE were decreased by 48% [90% CI: 22 to 65] in one study and 52% [90% CI: 38 to 62] in another study. The mean AUC values of LNG were decreased by 32% [90% CI: 20 to 46] in one study and 52% [90% CI: 42 to 62] in another study.

Other