



HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use OXCARBAZEPINE TABLETS safely and effectively. See full prescribing information for OXCARBAZEPINE TABLETS. OXCARBAZEPINE tablets, for oral use Initial U.S. Approval: 2000

--INDICATIONS AND USAGE---Oxcarbazepine tablets are indicated for: Adults: Monotherapy or adjunctive therapy in the treatment of partial-onset seizures

· Monotherapy in the treatment of partial-onset seizures in children 4 to 16 years

- Adjunctive therapy in the treatment of partial-onset seizures in children 2 to 16 years (1) ---DOSAGE AND ADMINISTRATION----

Adults: initiate with a dose of 600 mg/day, given twice-a-day

Adjunctive Therapy: Maximum increment of 600 mg/day at approximately weekly intervals. The

recommended daily dose is 1200 mg/day (2.1) Conversion to Monotherapy: withdrawal concomitant over 3 to 6 weeks; reach maximum dose of oxcarbazepine tablets in 2 to 4 weeks with increments of 600 mg/day at weekly intervals to a recommended daily dose of 2400 mg/day (2.2)

Initiation of Monotherapy: Increments of 300 mg/day every third day to a dose of 1200 mg/day (2.3) • Initiate at one-half the usual starting dose and increase slowly in patients with a creatinine clearance < 30 mL/min, (2.7)

 $\underline{\textit{Pediatrics}}: \text{initiation with 8 to 10 mg/kg/day, given twice-a-day. For patients aged 2 to } < 4 \text{ years and under } 20 \text{ kg, a starting dose of } 16 \text{ to } 20 \text{ mg/kg/day may be considered. Recommended daily dose is dependent upon}$ patient weight.

 Adjunctive Patients (Aged 2 to 16 Years): For patients aged 4 to 16 years, target maintenance dose should be achieved over 2 weeks (2.4).

For patients aged 2 to < 4 years, maximum maintenance dose should be achieved over 2 to 4 weeks and should not to exceed 60 mg/kg/day (2.4)

Conversion to Monotherapy for Patients (Aged 4 to 16 Years)

Maximum increment of 10 mg/kg/day at weekly intervals, concomitant antiepileptic drugs can be completely withdrawn over 3 to 6 weeks (2.5)

Initiation of Monotherapy for Patients (Aged 4 to 16 Years) Increments of 5 mg/kg/day every third day (2.6) -----DOSAGE FORMS AND STRENGTHS---

• Film-coated tablets (functional scoring): 150 mg, 300 mg and 600 mg (3)

## FULL PRESCRIBING INFORMATION: CONTENTS\*

INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION

2.1 Adjunctive Therapy for Adults

2.2 Conversion to Monotherapy for Adults 2.3 Initiation of Monotherapy for Adults 2.4 Adjunctive Therapy for Pediatric Patients (Aged 2 to 16 Years) 2.5 Conversion to Monotherapy for Pediatric Patients (Aged 4 to 16 Years)

2.6 Initiation of Monotherapy for Pediatric Patients (Aged 4 to 16 Years) 2.7 Dosage Modification for Patients with Renal Impairment

3 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS

WARNINGS AND PRECAUTIONS

5.2 Anaphylactic Reactions and Angioedema
5.3 Cross Hypersensitivity Reaction to Carbamazepine 5.4 Serious Dermatological Reactions 5.5 Suicidal Behavior and Ideation

5.6 Withdrawal of AEDs 5.7 Cognitive/Neuropsychiatric Adverse Reactions 5.9 Hematologic Events

5.8 Drug Reaction with Eosinophilia and Systemic Symptoms(DRESS)/Multi-Organ Hypersen 5.10 Seizure Control During Pregnancy 5.11 Risk of Seizure Aggravation

6 ADVERSE REACTIONS 6.1 Clinical Trials Experience

6.2 Postmarketing Experience DRUG INTERACTIONS

7.1 Effect of Oxcarbazepine on Other Drugs 7.2 Effect of Other Drugs on Oxcarbazepine

10.1 Human Overdose Experience 10.2 Treatment and Management 11 DESCRIPTION

9 DRUG ABUSE AND DEPENDENCE

Pregnancy: May cause fetal harm (8.1)

8 USE IN SPECIFIC POPULATIONS

Pregnancy

8.2 Lactation

9.2 Abuse

10 OVERDOSAGE

9.3 Dependence

8.4 Pediatric Use

8.5 Geriatric Use

8.6 Renal Impairment

12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action

12.2 Pharmacodynamics 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 14 CLINICAL STUDIES

14.2 Oxcarbazepine Adjunctive Therapy Trials

16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION Sections or subsections omitted from the full prescribing information are not listed

**FULL PRESCRIBING INFORMATION** 

Oxcarbazepine tablets are indicated for use as monotherapy or adjunctive therapy in the treatment of partial-onset seizures in adults and as monotherapy in the treatment of partial-onset seizures in pediatric patients aged 4 years and above, and as adjunctive therapy in pediatric patients aged 2 years and above with

2 DOSAGE AND ADMINISTRATION

2.1 Adjunctive Therapy for Adults may be increased by a maximum of 600 mg/day at approximately weekly intervals; the maximum mended daily dose is 1200 mg/day. patients were not able to tolerate the 2400 mg/day dose, primarily because of CNS effects.

Daily doses above 1200 mg/day show somewhat greater effectiveness in controlled trials, but most Dosage adjustment is recommended with concomitant use of strong CYP3A4 enzyme inducers or UGT inducers, which include certain antiepileptic drugs (AEDs) [see Drug Interactions (7.1, 7.2]] 2.2 Conversion to Monotherapy for Adults

Patients receiving concomitant AEDs may be converted to monotherapy by initiating treatment with oxcarbazepine tablets at 600 mg/day (given in a twice-a-day regimen) while simultaneously initiating the reduction of the dose of the concomitant AEDs. The concomitant AEDs should be completely withdrawn over 3 to 6 weeks, while the maximum dose of oxcarbazeoine tablets should be reached in about 2 to eeks. Oxcarbazepine tablets may be increased as clinically indicated by a maximum increment of 600 mg/day at approximately weekly intervals to achieve the maximum recommended daily dose of 2400 mg/day. A daily dose of 1200 mg/day has been shown in one study to be effective in patients in whom monotherapy has been initiated with oxcarbazepine tablets. Patients should be observed closely during this transition phase.

2.3 Initiation of Monotherapy for Adults Patients not currently being treated with AEDs may have monotherapy initiated with oxcarbazepine tablets. In these patients, initiate oxcarbazepine tablets at a dose of 600 mg/day (given a twice-a-day); the dose should be increased by 300 mglday every third day to a dose of 1200 mglday. Controlled trials in these patients examined the effectiveness of a 1200 mglday dose; a dose of 2400 mglday has been shown to be effective in nationts converted from other AEDs to excarbazenine tablets monotherapy (see above). 2.4 Adjunctive Therapy for Pediatric Patients (Aged 2 to 16 Years)

In pediatric patients aged 4 to 16 years, initiate oxcarbazepine tablets at a daily dose of 8 to 10 mg/kg generally not to exceed 600 mg/day, given twice-a-day. The target maintenance dose of oxcarbazepine tablets should be achieved over 2 weeks, and is dependent upon patient weight, according to the following

20 to 29 kg - 900 mg/day 29.1 to 39 kg - 1200 mg/day

> 39 kg · 1800 mg/day In the clinical trial, in which the intention was to reach these target doses, the median daily dose was  $31\,mg/kg$  with a range of 6 to  $51\,mg/kg$ . In pediatric patients aged 2 to <4 years, initiate excarbazeoine tablets at a daily dose of 8 to 10 mg/kg generally not to exceed 600 mg/day, given twice-a-day. For patients less than 20 kg, a starting dose of 16 to 20 mg/kg may be considered [see Clinical Pharmacology (12.3)]. The maximum maintenance dose of

oxcarbazepine tablets should be achieved over 2 to 4 weeks and should not exceed 60 mg/kg/day in a twicea-day regimen. In the clinical trial in pediatric patients (2 to 4 years of age) in which the intention was to reach the target dose of 60 mg/kg/day, 50% of patients reached a final dose of at least 55 mg/kg/day. Under adjunctive therapy (with and without enzyme-inducing AEDs), when normalized by body weight, apparent Clearance (Librikg) decreased when age increased such that children 2 to < 4 years of age may require up to twice the oxcarbazepine dose per body weight compared to adults; and children 4 to < 12 years of age may require a 50% higher oxcarbazepine dose per body weight compared to adults.

inducers, which include certain antiepileptic drugs (AEDs) (see Drug Interactions (7.1, 7.2)) 2.5 Conversion to Monotherapy for Pediatric Patients (Aged 4 to 16 Years) Patients receiving concomitant antiepileptic drugs may be converted to monotherapy by initiating treatment with oxcarbazepine tablets at approximately 8 to 10 mg/kg/day given twice-a-day, while simultaneously initiating the reduction of the dose of the concomitant antiepileptic drugs. The concomitant antiepileptic drugs can be completely withdrawn over 3 to 6 weeks while oxcarbazepine tablets may be increased as clinically indicated by a maximum increment of 10 mg/kg/day at approximately weekly intervals to achieve the recommended daily dose. Patients should be observed closely during this transition phase.

Dosage adjustment is recommended with concomitant use of strong CYP3A4 enzyme inducers or UGT

2.6 Initiation of Monotherapy for Pediatric Patients (Aged 4 to 16 Years)

Patients not currently being treated with antiepileptic drugs may have monotherapy initiated with oxcarbazepine tablets. In these patients, initiate oxcarbazepine tablets at a dose of 8 to 10 mg/kg/day given twice-a-day. The dose should be increased by 5 mg/kg/day every third day to the recommended daily dose

Table 1: Range of Maintenance Doses of Oxcarbazepine Tablets for Pediatrics by Weight During

Mainhain ho	From	To
Weight in kg	Dose (mg/day)	Dose (mg/day)
20	600	900
25	900	1200
30	900	1200
35	900	1500
40	900	1500
45	1200	1500
50	1200	1800
55	1200	1800
60	1200	2100
65	1200	2100
70	1500	2100

2.7 Dosage Modification for Patients with Renal Impairmen In patients with impaired renal function (creatinine clearance  $<\!30\,\text{mL/min}$  ) initiate oxcarbazepine tablets at

one-half the usual starting dose (300 mg/day, given twice-a-day) and increase slowly to achieve the desired clinical response [see Clinical Pharmacology (12.3/]. 2.8 Administration Information Oxcarbazepine tablets can be taken with or without food (see Clinical Pharmacology (12.3)).

Oxcarbazepine oral suspension and oxcarbazepine tablets may be interchanged at equal doses. 3 DOSAGE FORMS AND STRENGTHS Film-coated Tablets:

Clinically significant hype

**MEDICATION GUIDE** 

150 mg: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side and '7' and '6' on another side senarated by a score line (functional scoring) on both sides. . 300 mg: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side and '7' and '7' on another side separated by a score line (functional scoring) on both sides.

 600 mg: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side and '7' and '8' on another side separated by a score line (functional scoring) on both sides. CONTRAINDICATIONS

mia (sodium < 125 mmol/L) can develop during oxcarbazenine use. In the 14

Oxcarbazepine tablets are contraindicated in patients with a known hypersensitivity to oxcarbazepine or to any of its components, or to eslicarbazepine acetate [see Warnings and Precautions (5.2, 5.3)]. 5 WARNINGS AND PRECAUTIONS 5.1 Hyponatremia

controlled epilepsy studies 2.5% of oxcarbazepine-treated patients (38/1,524) had a sodium of less than 125 mmol/L at some point during treatment, compared to no such patients assigned placebo or active control (carbamazepine and phenobarbital for adjunctive and monotherapy substitution studies, and phenytoin and valproate for the monotherapy initiation studies). Clinically significant hyponatremia generally occurred during the first 3 months of treatment with oxcarbazegine, although there were patients who first developed a serum sodium < 125 mmol/L more than 1 year after initiation of therapy. Mos patients who developed hyponatremia were asymptomatic but patients in the clinical trials were frequently monitored and some had their excarbazenine dose reduced, discontinued, or had their fluid intake restricted for hyponatremia. Whether or not these maneuvers prevented the occurrence of more severe events is unknown. Cases of symptomatic hyponatremia and syndrome of inappropriate antidiuretic hormone secretion (SIADH) have been reported during postmarketing use. In clinical trials, patients whose treatment with oxcarbazepine was discontinued due to hyponatremia generally experienced normalization of serum sodium within a few days without additional treatment.

Measurement of serum sodium levels should be considered for patients during maintenance treatment with oxcarbazepine, particularly if the patient is receiving other medications known to decrease serum sodium levels (e.g., drugs associated with inappropriate ADH secretion) or if symptoms possibly indicating hyponatremia develop (e.g., nausea, malaise, headache, lethargy, confusion, obtundation, or increase in 5.2 Anaphylactic Reactions and Angioedema

Rare cases of anaphylaxis and angioedema involving the larynx, glottis, lips and eyelids have been reported in patients after taking the first or subsequent doses of oxerabazepine. Angioedema associated with laryngeal edema can be fatal. If a patient develops any of these reactions after treatment with 5.3 Cross Hypersensitivity Reaction to Carbamazepine

Approximately 25% to 30% of patients who have had hypersensitivity reactions to carbamazepine will experience hypersensitivity reactions with oxcarbazepine. For this reason patients should be specifically questioned about any prior experience with carbamazepine, and patients with a history of hypersensitivity reactions to carbamazepine should ordinarily be treated with oxcarbazepine only if the potential benefit justifies the potential risk. If signs or symptoms of hypersensitivity develop, oxcarbazepine should be discontinued immediately [see Warnings and Precautions (5.2, 5.8)]. 5.4 Serious Dermatological Reactions

---CONTRAINDICATIONS--

Known hypersensitivity to oxcarbazepine or to any of its components, or to eslicarbazepine acetate (4, 5.2)

Hyponatremia: Monitor serum sodium levels (5.1)

Hematologic Events: Consider discontinuing (5.9)

Risk of Seizure Aggravation: Discontinue if occurs. (5.11)

abnormal vision, headache, nystagmus, tremor, and abnormal gait. (6.1)

1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

-----WARNINGS AND PRECAUTIONS---

Cross Hypersensitivity Reaction to Carbamazepine: Discontinue immediately if hypersensitivity

Cognitive/Neuropsychiatric Adverse Reactions: May cause cognitive dysfunction, somnolence

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypersensitivity: Monitor and discontinue if another cause cannot be established (5.8)

....ADVERSE REACTIONS...

The most common (  $\geq$  10% more than placebo for adjunctive or low dose for monotherapy) adverse

reactions in adults and pediatrics were: dizziness, somnolence, diplopia, fatigue, nausea, vomiting, ataxia,

To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at

-----DRUG INTERACTIONS-----Phenytoin: Increased phenytoin levels. Reduced dose of phenytoin may be required (7.1)

Carbamazepine, Phenytoin, Phenobarbital: Decreased plasma levels of MHD (the active metabolite).

Dose adjustments may be necessary (7.1)

Revised: 03/2024

Oral Contraceptive: Oxcarbazepine may decrease the effectiveness of hormonal contraceptives (7.2)

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

Serious Dermatological Reactions: If occurs consider discontinuation (5.4)

Suicidal Behavior and Ideation: Monitor for suicidal thoughts/ behavior (5.5)

coordination abnormalities. Use caution when operating machinery (5.7)

eure Control During Pregnancy: Active metabolite may decrease (5.10)

Withdrawal of AEDs: Withdraw oxcarbazepine gradually (5.6)

Serious dermatological reactions, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TFN) have he skin reactions may be life threatening, and some patients have required hospitalization with very rare reports of fatal outcome. The median time of onset for reported cases was 19 days after treatment initiation. Recurrence of the serious skin reactions following rechallenge with oxcarbazepine has also been

The reporting rate of TEN and SJS associated with oxcarbazepine use, which is generally accepted to be an inderestimate due to underreporting, exceeds the background incidence rate estimates by a factor of 3- to 10-fold. Estimates of the background incidence rate for these serious skin reactions in the general population range between 0.5 to 6 cases per million-person years. Therefore, if a patient develops a skin reaction while taking oxcarbazepine, consideration should be given to discontinuing oxcarbazepine use and Association with HI A-R\*1502

Patients carrying the HLA-B\*1502 allele may be at increased risk for SJS/TEN with oxcarbazepine Human Leukocyte Antigen (HLA) allele B\*1502 increases the risk for developing SJS/TEN in patients Treated with carbamazepine. The chemical structure of oxacrbazepine is similar to that of carbamazepine. Available clinical evidence, and data from nonclinical studies showing a direct interaction between excarbazepine and HLA-B\*1502 protein, suggest that the HLA-B\*1502 allele may also increase the risk for

The frequency of HLA-B\*1502 allele ranges from 2 to 12% in Han Chinese populations, is about 8% in Thai populations, and above 15% in the Philippines and in some Malaysian populations. Allele frequencies up to about 2% and 6% have been reported in Korea and India, respectively. The frequency of the HLA-B\*1502

allele is negligible in people from European descent, several African populations, indigenous peoples of the Americas, Hispanic populations, and in Japanese (< 1%). Testing for the presence of the HLA-B\*1502 allele should be considered in patients with ancestry in genetically at-risk populations, prior to initiating treatment with oxcarbazepine. The use of oxcarbazepine should be avoided in patients positive for HLA-B\*1502 unless the benefits clearly outweigh the risks. Consideration should also be given to avoid the use of other drugs associated with SJS/TEN in HLA-B\*1502 positive patients, when alternative therapies are otherwise equally acceptable. Screening is not generally recommended in patients from populations in which the prevalence of HLAB\*1502 is low, or in current oxcarbazepine users, as the risk of SJS/TEN is largely confined to the first few months of therapy, The use of HLA-B\*1502 genotyping has important limitations and must never substitute for appropriate linical vigilance and patient management. The role of other possible factors in the development of, and

morbidity from, SJS/TEN, such as antiepileptic drug (AED) dose, compliance, concomitant medications, Antiepileptic drugs (AEDs), including oxcarbazepine, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be

monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% Cl:1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were 4 suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on suicide The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed. Table 2 shows absolute and relative risk by indication for all

	Placebo Patients with Events Per 1,000 Patients	Drug Patients with Events Per 1,000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events Per 1.000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9
	tric or other conditi		igher in clinical trials for epil risk differences were simi	

ring prescribing oxcarbazepine or any other AED must balance the risk of suicidal thoughts o behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Should suicidal thoughts and behavior emerge during treatment, the prescriber needs to consider whether the emergence of these symptoms in any given patient may be related to the illness being treated. Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare

5.6 Withdrawal of AEDs As with most antiepileptic drugs, oxcarbazepine should generally be withdrawn gradually because of the

risk of increased seizure frequency and status epilepticus [see Dosage and Administration (2.4) Studies (14)]. But if withdrawal is needed because of a serious adverse event, rapid discontinua stration (2.4) and Clinical 5.7 Cognitive/Neuropsychiatric Adverse Reactions

Use of oxcarbazepine has been associated with central nervous system-related adverse reactions. The most significant of these can be classified into 3 general categories: 1) cognitive symptoms including psychomotor slowing, difficulty with concentration, and speech or language problems, 2) somnolence of fatigue, and 3) coordination abnormalities, including ataxia and gait disturbances Patients should be monitored for these signs and symptoms and advised not to drive or operate machinery until they have gained sufficient experience on oxcarbazepine to gauge whether it adversely affects their ability to drive or operate machinery. Adult Patients

In one large, fixed-dose study, oxcarbazepine was added to existing AED therapy (un to three concomitant AEDs). By protocol, the dosage of the concomitant AEDs could not be reduced as oxcarbazepine was added reduction in oxcarbazepine dosage was not allowed if intolerance developed, and patients were discontinued if unable to tolerate their highest target maintenance doses. In this trial, 65% of patients were discontinued because they could not tolerate the 2400 mg/day dose of oxcarbazepine on top of existing AEDs. The adverse events seen in this study were primarily CNS related and the risk for discontinuation

In this trial, 7.1% of excarbazenine-treated natients and 4% of placebo-treated natients experienced a cognitive adverse reaction. The risk of discontinuation for these events was about 6.5 times greater on oxcarbazepine than on placebo. In addition, 26% of oxcarbazepine-treated patients and 12% of placebotreated patients experienced somnolence. The risk of discontinuation for somnolence was about 10 times greater on oxcarbazepine than on placebo. Finally, 28.7% of oxcarbazepine-treated patients and 6.4% of placebo-treated patients experienced ataxia or gait disturbances. The risk for discontinuation for these events was about 7 times greater on oxcarbazepine than on placebo In a single placebo-controlled monotherapy trial evaluating 2400 mg/day of oxcarbazepine, no patients in either treatment group discontinued double-blind treatment because of cognitive adverse

somnolence, ataxia, or gait disturbance. In the 2 dose-controlled conversion to monotherapy trials comparing 2400 mg/day and 300 mg/day oxcarbazepine, 1.1% of patients in the 2400 mg/day group discontinued double-blind treatment beca somnolence or cognitive adverse reactions compared to 0% in the 300 mg/day group. In these trials, no patients discontinued because of ataxia or gait disturbances in either treatment group

Pediatric Patients A study was conducted in pediatric patients (3 to 17 years old) with inadequately controlled partial-onset seizures in which oxcarbazepine was added to existing AED therapy (up to 2 concomitant AEDs). By protocol, the dosage of concomitant AEDs could not be reduced as oxcarbazepine was added. Oxcarbazepine was titrated to reach a target dose ranging from 30 mg/kg to 46 mg/kg (based on a patient's body weight with fixed doses for predefined weight ranges).

Cognitive adverse events occurred in 5.8% of oxcarbazepine-treated patients (the single most cor being concentration impairment, 4 of 138 patients) and in 3.1% of patients treated with placebo. In addition, 34.8% of oxcarbazepine-treated patients and 14.0% of placebo-treated patients experienced somnolence. (No patient discontinued due to a cognitive adverse reaction or somnolence.). Finally, 23.2% of oxcarbazepine-treated patients and 7.0% of placebo-treated patients experienced ataxia or gait disturbances. Two (1.4%) oxcarbazepine-treated patients and 1 (0.8%) placebo-treated patient discont due to ataxia or gait disturbances.

5.8 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypers Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS), also known as multi-organ hypersensitivity, has occurred with oxcarbazepine. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy and/or facial swelling, in association with other organ system involvement, such as hepatitis, nephritis, hematologic ies, myocarditis, or myositis sometimes resembling an acute viral infection. Eosinophilia is ofte present. This disorder is variable in its expression, and other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity (e.g., fever, lymphadenopathy) may be present even though rash is not evident. If such signs or symptoms are present, the patient should be evaluated immediately. Oxcarbazepine should be discontinued if an alternative etiology for the signs or symptoms cannot be established

5.9 Hematologic Events Rare reports of pancytopenia, agranulocytosis, and leukopenia have been seen in patients treated with oxcarbazepine during postmarketing experience. Discontinuation of the drug should be considered if any evidence of these hematologic events develops.

5.10 Seizure Control During Pregnancy Due to physiological changes during pregnancy, plasma levels of the active metabolite of oxcarbazepine, the 10-monohydroxy derivative (MHD), may gradually decrease throughout pregnancy. It is recommended that

patients be monitored carefully during pregnancy. Close monitoring should continue through the postpartum period because MHD levels may return after delivery. 5 11 Risk of Seizure Angravation Exacerbation of or new onset primary generalized seizures has been reported with oxcarbazepine. The risk of

aggravation of primary generalized seizures is seen especially in children but may also occur in adults. In case of seizure aggravation, oxcarbazepine should be discontinued. 6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in the labeling: Hyponatremia (see Warnings and Precautions (5.1)) Anaphylactic Reactions and Angioedema [see Warnings and Precautions (5.2)]

Cross Hypersensitivity Reaction to Carbamazepine [see Warnings and Precautions (5.3]] Serious Dermatological Reactions (see Warnings and Precautions (5.4)) Suicidal Behavior and Ideation (see Warnings and Precautions (5.5))

 $Cognitive | Neuropsychiatric \ Adverse \ Reactions | \textit{(see Warnings and Precautions (5.7))}|$ 

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypersensitivity /see Warnings and Precautions (5.8)] Hematologic Events (see Warnings and Precautions (5.9))

6.1 Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. Most Common Adverse Reactions in All Clinical Studies

Adjunctive Therapy/Monotherapy in Adults Previously Treated with Other AEDs The most common (  $\geq$  10% more than placebo for adjunctive or low dose for monotherapy) adverse reactions with oxcarbazepine: dizziness, somnolence, diplopia, fatigue, nausea, vomiting, ataxia, abnormal vision, headache, nystagmus tremor, and abnormal gait. Approximately 23% of these 1,537 adult patients discontinued treatment because of an adverse reaction.

The adverse reactions most commonly associated with discontinuation were: dizziness (6.4%), diplopia (5.9%), ataxia (5.2%), vomiting (5.1%), nausea (4.9%), somnolence (3.8%), headache (2.9%), fatigue (2.1%), abnormal vision (2.1%), tremor (1.8%), abnormal gait (1.7%), rash (1.4%), hyponatremia (1.0%). Monotherapy in Adults Not Previously Treated with Other AEDs The most common (≥5%) adverse reactions with oxcarbazepine in these patients were similar to those in previously treated patients

Approximately 9% of these 295 adult patients discontinued treatment because of an adverse reaction adverse reactions most commonly associated with discontinuation were: dizziness (1.7%), nausea (1.7%), rash (1.7%), headache (1.4%), Adjunctive Therapy/Monotherapy in Pediatric Patients 4 Years Old and Above Previously Treated with Other

The most common (≥5%) adverse reactions with oxcarbazepine in these patients were similar to those seen Approximately 11% of these 456 pediatric patients discontinued treatment because of an adverse reaction. (2.0%), ataxia (1.8%), diplopia (1.3%), dizziness (1.3%), fatigue (1.1%), nystagmus (1.1%).

Monotherapy in Pediatric Patients 4 Years Old and Above Not Previously Treated with Other AEDs The most common (≥5%) adverse reactions with oxcarbazepine in these patients were similar to those in

Approximately 9.2% of 152 pediatric patients discontinued treatment because of an adverse reaction. The adverse reactions most commonly associated ( $\geq$ 1%) with discontinuation were rash (5.3%) and maculopapular rash (1.3%). Adjunctive Therapy/Monotherapy in Pediatric Patients 1 Month to < 4 Years Old Previously Treated or Not Previously Treated with Other AEDs: The most common (  $\geq$  5%) adverse reactions with oxcarbazepine in these patients were similar to those seen in older children and adults except for infections and infestations which were more frequently seen in these

The adverse reactions most commonly associated with discontinuation were: convulsions (3.7%), status epilepticus (1.2%), and ataxia (1.2%).  $\underline{\textbf{Controlled Clinical Studies of Adjunctive Therapy} \\ \underline{\textbf{Monotherapy in Adults Previously Treated with Other AEDs}}$ Table 3 lists adverse reactions that occurred in at least 2% of adult patients with epilepsy, treated with oxcarbazepine or placebo as adjunctive treatment and were numerically more common in the patie with any dose of oxcarbazepine.

Approximately 11% of these 241 pediatric patients discontinued treatment because of an adverse reaction.

Table 4 lists adverse reactions in patients converted from other AEDs to either high-dose oxcarbazepine (2400 mn/day) or low-dose (300 ma/day) oxcarbazepine. Note that in some of these monotherapy studies

		Oxcarbazepine D	(vehlam) anesa	
Body System/ Adverse Reaction	Oxcarbazepine 600 N=163 %	Oxcarbazepine Oxcarbazepine 1200 N=171 %	Oxcarbazepine 2400 N=126 %	Placebo N=166%
dy as a Whole	14-103 /0	14-17170	N=120 /0	
atique	15	12	15	7
Isthenia	6	3	6	5
eg Edema	2	1	2	1
ncreased Weight	1	2	2	1
eeling Abnormal	0	1	2	0
rdiovascular System		'		- 0
lypotension	0	1	2	0
qestive System	U		2	U
	15	25	29	10
lausea /omiting	13	25	36	5
	10			
Abdominal Pain		13	11	5
Diarrhea	5	6	7	6
)yspepsia	5	5	6	2
Constipation	2	2	6	4
lastritis	2	1	2	1
etabolic and Nutritional	Disorders			
lyponatremia	3	1	2	1
isculoskeletal System				
Muscle Weakness	1	2	2	0
prains and Strains	0	2	2	1
rvous System				
leadache	32	28	26	23
lizziness	26	32	49	13
omnolence	20	28	36	12
taxia	9	17	31	5
lystagmus	7	20	26	5
bnormal Gait	5	10	17	1
nsomnia	4	2	3	1
remor	3	8	16	5
lervousness	2	4	2	1
gitation	1	1	2	1
bnormal Coordination	1	3	2	1
bnormal EEG	0	0	2	0
peech Disorder	1	1	3	0
onfusion	1	1	2	1
ranial Injury NOS	1	0	2	1
lysmetria	1	2	3	0
bnormal Thinking	0	2	4	0
spiratory System				
thinitis	2	4	5	4
in and Appendages				
cne	1	2	2	0
ecial Senses				
liplopia	14	30	40	5
/ertigo	6	12	15	2
Abnormal Vision	6	14	13	4
hnormal				

Special Senses				
Diplopia	14	30	40	5
Vertigo	6	12	15	2
Abnormal Vision	6	14	13	4
Abnormal	0	0	2	0
Accommodation	U	U	2	U
				·
able 4: Adverse Reactions in C		al Studies of Mo	notherapy with Ox	carbazepine
dults Previously Treated with 0				
Body System/		ırbazepine	Oxcarba	
Adverse Reaction		0 mg/day	300 m	
	N	=86 %	N=8	6 %
Body as a Whole				
Fatigue		21	5	
Fever	_	3	0	
Allergy		2	0	
Generalized Edema		2	1 0	
Chest Pain		2	U	
Digestive System Nausea		22	7	
Vomiting		15	5	
Diarrhea		7	5	
Dyspepsia		6	1	
Anorexia		5	3	
Abdominal Pain		5	3	
Dry Mouth		3	0	
Hemorrhage Rectum		2	0	
Toothache		2	1	
Hemic and Lymphatic System		_		
Lymphadenopathy		2	0	
Infections and Infestations				
Viral Infection		7	5	
Infection		2	0	
Metabolic and Nutritional Disc	rders		•	
Hyponatremia		5	0	
Thirst		2	0	
Nervous System	-			
Headache		31	15	i
Dizziness		28	8	
Somnolence		19	5	
Anxiety		7	5	
Ataxia		7	1	
Confusion		7	0	
Nervousness		7	0	
Insomnia		6	3	
Tremor		6	3	
Amnesia		5	1	
Aggravated Convulsions		5	2	
Emotional Lability		3	2	
Hypoesthesia		3	1	
Abnormal Coordination		2	1	
Nystagmus		2	0	
Speech Disorder		2	0	
Respiratory System	-			
Upper Respiratory Tract Infection	1	10	5	
Coughing		5	0	
Bronchitis		3	0	
Pharyngitis		3	0	
Skin and Appendages	-1	-	-	
U - FL - L		0	1	

Body System/ Adverse Reaction	Oxcarbazepine 2400 mg/day N=86 %	Oxcarbazepine 300 mg/day N=86 %
Vertigo	3	0
Earache	2	1
Ear Infection NOS	2	0
ogenital and Reproductive Sys	stem	
Urinary Tract Infection	5	1
Micturition Frequency	2	1
Vaginitis	2	0

Table 5 lists adverse reactions in a controlled clinical study of monotherapy in adults not previously treated with other AEDs that occurred in at least 2% of adult patients with epilepsy treated with excarbagepine or placebo and were numerically more common in the patients treated with oxcarbazepine

Oxcarbazepine

N=55 %

N=49%

Table 5: Adverse Reactions in a Controlled Clinical Study of Monotherapy with Oxcarbazenine in

Adults Not Previously Treated with Other AEDs

Body System/

**Adverse Reaction** 

Body as a Whole

Douy as a willole		
Falling Down NOS	4	0
Digestive System		
Nausea	16	12
Diarrhea	7	2
Vomiting	7	6
Constipation	5	0
Dyspepsia	5	4
Musculoskeletal System		•
Back Pain	4	2
Nervous System		•
Dizziness	22	6
Headache	13	10
Ataxia	5	0
Nervousness	5	2
Amnesia	4	2
Abnormal Coordination	4	2
Tremor	4	0
Respiratory System		•
Upper Respiratory Tract Infection	7	0
Epistaxis	4	0
Infection Chest	4	0
Sinusitis	4	2
Skin and Appendages		•
Rash	4	2
Special Senses		•
Vision Abnormal	4	0
Controlled Clinical Studies of Adjunctive The with Other AEDs Table 6 lists adverse reactions that occurred excarbazepine or placebo as adjunctive treat treated with oxcarbazepine.	in at least 2% of pediatric patie	nts with epilepsy treated with
Table 6: Adverse Reactions in Controlle with Oxcarbazepine in Pediatric Patients	Previously Treated with Oth	er AEDs
Body System/	Oxcarbazepine	Placebo
Adverse Reaction	N=171%	N=139%
Body as a Whole		1
Fatigue	13	9
Allergy	2	n

able 6: Adverse Reactions in Controlled ith Oxcarbazepine in Pediatric Patients I		
Body System/	Oxcarbazepine	Placebo
Adverse Reaction	N=171%	N=139%
Body as a Whole		
Fatigue	13	9
Allergy	2	0
Asthenia	2	1
Digestive System		
Vomiting	33	14
Nausea	19	5
Constipation	4	1
Dyspepsia	2	0
Nervous System		
Headache	31	19
Somnolence	31	13
Dizziness	28	8
Ataxia	13	4
Nystagmus	9	1
Emotional Lability	8	4
Abnormal Gait	8	3
Tremor	6	4
Speech Disorder	3	1
Impaired Concentration	2	1
Convulsions	2	1
Involuntary Muscle Contractions	2	1
Respiratory System		
Rhinitis	10	9
Pneumonia	2	1
Skin and Appendages		
Bruising	4	2
Increased Sweating	3	0
Special Senses	-	
Diplopia	17	1
Abnormal Vision	13	1
Vertigo	2	0

occurred in a total of 565 children and 1,574 adults exposed to oxcarbazepine and that are reasonably likely to be related to drug use are presented. Events common in the population, events reflecting chronic illness and events likely to reflect concomitant illness are omitted particularly if minor. They are listed in order of decreasing frequency. Because the reports cite events observed in open label and uncontrolled trials, the role of oxcarbazepine in their causation cannot be reliably deter Body as a Whole: fever, malaise, pain chest precordial, rigors, weight decrease

Cardinyascular System: hradycardia cardiac failure cerebral hemorrhage hypertension hypotension postural, palpitation, syncope, tachycardia. Digestive System: appetite increased, blood in stool, cholelithiasis, colitis, duodenal ulcer, dysphagia, enteritis, eructation, esophagitis, flatulence, gastric ulcer, gingival bleeding, gum hyperplasia, hematemesis, hemorrhage rectum, hemorrhoids, hiccup, mouth dry, pain biliary, pain right hypochondrium, retching, sialoadenitis, stomatitis, stomatitis ulcerative Hematologic and Lymphatic System: thrombocytopenia

Laboratory Abnormality: gamma-GT increased, hyperglycemia, hypocalcemia, hypoglycemia, hypokalemia, liver enzymes elevated, serum transamina Musculoskeletal System: hypertonia muscle.

Nervous System: aggressive reaction, amnesia, anguish, anxiety, apathy, aphasia, aura, convulsions aggravated, delirium, delusion, depressed level of consciousness, dysphonia, dystonia, emotional lability, euphoria, extrapyramidal disorder, feeling drunk, hemiplegia, hyperkinesia, hyperreflexia, hypoesthesia, hypokinesia, hyporeflexia, hypotonia, hysteria, libido decreased, libido increased, manic reaction, migraine, muscle contractions involuntary, nervousness, neuralgia, oculogyric crisis, panic disorder, paralysis, paroniria, personality disorder, psychosis, ptosis, stupor, tetany Respiratory System: asthma, dyspnea, epistaxis, laryngismus, pleurisy. Skin and Appendages: acne, alopecia, angioedema, bruising, dermatitis contact, eczema, facial rash,

Special Senses: accommodation abnormal, cataract, conjunctival hemorrhage, edema eye, hemianopia, mydriasis, otitis externa, photophobia, scotoma, taste perversion, tinnitus, xerophthalmia. Surgical and Medical Procedures: procedure dental oral, procedure female reproductive, procedure Urogenital and Reproductive System: dysuria, hematuria, intermenstrual bleeding, leukorrhea, menorrhagia, micturition frequency, pain renal, pain urinary tract, polyuria, priapism, renal calculus

 $flushing, folliculitis, heat \ rash, \ hot \ flushes, \ photosensitivity \ reaction, \ pruritus \ genital, \ psoriasis, \ purpura,$ 

rash erythematous, rash maculopapular, vitiligo, urticaria.

Other: Systemic lupus erythematosus Serum sodium levels below 125 mmol/L have been observed in patients treated with oxcarbazepine [see Warnings and Precautions (5.1). Experience from clinical trials indicates that serum sodium levels return toward normal when the oxcarbazepine dosage is reduced or discontinued, or when the patient was

treated conservatively (e.g., fluid restriction Laboratory data from clinical trials suggest that oxcarbazepine use was associated with decreases in T<sub>st</sub>

6.2 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, athy, abnormal liver function tests, eosinophilia and arthralgia [see Warnings and Pre (5.8/)

Cardiovascular System: atrioventricular block 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 (5.9)]

Metabolism and Nutrition Disorders: hypothyroidism and syndrome of inappropriate antidiuretic hormone

Skin and Subcutaneous Tissue Disorders: erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis [see Warnings and Precautions (5.4/), Acute Generalized Exanthematous Pustulosis Musculnskeletal. 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

7 DRUGINTERACTIONS 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 (12.3//. Therefore, it is recommended that the plasma levels

of phenytoin be monitored during the period of oxcarbazepine titration 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 (12.3)/. 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

7.3 Hormonal Contraceptives Concurrent use of oxcarbazeptine with hormonal contraceptives may render these contraceptives less effective [see Use in Specific Populations (8.3) and Clinical Pharmacology (12.3)]. Studies with other oral

be required after initiation, dosage modification, or discontinuation of such induc

8 USE IN SPECIFIC POPULATIONS Pregnancy Exposure Registry

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 (NAAED) Pregnancy Registry by calling 1-888-233-2334 or visiting http://www.aedpregnancyregistry.org/. Risk Summary

There are no adequate data on the developmental risks associated with the use of oxcarbazenine 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 tox (embryolethality, 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

birth defects and miscarriage for the indicated population is unknown. An 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)].

clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively. The background risk of major

Data from published registries have reported craniofacial defects such as oral clefts and cardiac

have liver problems

Oxcarbazepine Tablets USP, for oral use	
(ox kar baz' e peen)	
What is the most important information I should know about oxcarbazepine tablets?  Do not stop taking oxcarbazepine tablets without first talking to your healthcare provider. Stopping oxcarbazepine tablets suddenly can cause serious problems.  Oxcarbazepine tablets can cause serious side effects, including:	ping oxcarbazepine tablets suddenly can cause serious
<ul> <li>1. Oxcarbazepine tablets may cause the level of sodium in your blood to be low. Symptoms of low blood sodium include:</li> <li>nausea</li> </ul>	lood sodium include:
<ul> <li>tiredness (lack of energy)</li> <li>more frequent or more severe seizures</li> <li>hoadache</li> </ul>	
Similar symptoms that are not related to low sodium may occur from taking oxcarbazepine tablets. You should tell your healthcare provider if you have any of these side effects and if they bother you or they do not go away.	should tell your healthcare provider if you have any
Some other medicines can also cause low sodium in your blood. Be sure to tell your healthcare provider about all the other medicines that you are taking. Your healthcare provider may do blood tests to check your sodium levels during your treatment with oxcarbazepine tablets.	nt all the other medicines that you are taking. azepine tablets.
2. Oxcarbazepine tablets may also cause allergic reactions or serious problems which may affect organs and other parts of your body like the liver or blood cells. You may or may not have a rash with these types of reactions.	t organs and other parts of your body like the liver:
Call your healthcare provider right away if you have any of the following:	
swelling of your face, eyes, lips, or tongue     tongue     tongue every	ur eyes
•	
<ul> <li>hives</li> <li>severe fatigue or weakness</li> </ul>	
<ul> <li>fever, swollen glands, or sore throat that</li> <li>do not go away or come and go</li> </ul>	
<ul> <li>frequent infections or infections that do not go away</li> </ul>	
Many people who are allergic to carbamazepine are also allergic to oxcarbazepine tablets. Tell your healthcare provider if you are allergic to carbamazepine.	are provider if you are allergic to carbamazepine.
3. Like other antiepileptic drugs, oxcarbazepine tablets may cause suicidal thoughts or actions in a very small number of people, about 1 in 500.	a very small number of people, about 1 in 500.
Call a healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:	w, worse, or worry you:
• Bu	
9.0	,
The work worse depression     The work worse anxiety     The work worse anxiety	-
• • •	ing (mania)
panic attacks     other unusual changes in behavior or mood	poc

It is not known if oxcarbazepine tablets are safe and effective for use alone to treat partial-onset seizures in children less than 4 years of age or for use with other medicines to treat partial-onset seizures in children less than 2 years of age. have kidney problems are allergic to carbamazepine are also allergic to oxcarbazepine tablets.

are allergic to carbamazepine. Many people who are allergic to carbamazepine are also allergic to oxcarbazepine. Oxcarbazepine tablets may cause your birth control medicine to be less effective. Talk to your healthcare provider about the best birth control method to use. are pregnant or plan to become pregnant. Oxcarbazepine tablets may harm your unborn baby. Tell your healthcare provider right away if you become pregnant
while taking oxcarbazepine tablets. You and your healthcare provider will decide if you should take oxcarbazepine tablets while you are pregnant.
 If you become pregnant while taking oxcarbazepine tablets, talk to your healthcare provider about registering with the North American Antiepileptic Drug (NAAED)
Pregnancy Registry. The purpose of this registry is to collect information about the safety of antiepileptic medicine during pregnancy. You can enroll in this registry by calling 1-888-233-233-2334. are breastfeeding or plan to breastfeed. Oxcarbazepine passes into breast milk. Talk with your healthcare provider about the best way to feed your baby if you take oxcarbazepine tablets. Suicidal thoughts or actions may be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may check for other ne tablets or any of the other ingredients in oxcarbazepine tablets, or to eslicarbazepi Many people who are allergic to carbamazepine are also allergic to oxcarbazepine tablets. Tell your healthcare provider if you are allergic to carbamazepine. Before taking oxcarbazepine tablets, tell your healthcare provider about all your medical conditions, including if you:

have or have had suicidal thoughts or actions, depression or mood problems Stopping oxcarbazepine tablets suddenly can cause serious problems. Stopping a seizure medicine suddenly in a patient who has epilepsy may cause seizures that will not stop (status epilepticus). medicines to treat partial-onset seizures in children less than 2 years of age. **Do not take oxcarbazepine tablets if you are** allergic to oxcarbazepine tablets or any of the other is acetate. See the end of this Medication Guide for a complete list of ingredients in oxcarbazepine tablets. Pay attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings Keep all follow-up visits with your healthcare provider as scheduled. Call your healthcare provider between visits as needed, especially if you are worried about symptoms. Similar symptoms that are not related to low sodium may occur from taking oxcarbazepine table of these side effects and if they bother you or they do not go away. painful sores in the mouth or ar more frequent or more severe se Many people who are allergic to carbamazepine are also allergic to oxcarbazepine tablets. Tell your 3. Like other antiepileptic drugs, oxcarbazepine tablets may cause suicidal thoughts or ac acting aggressive, being angry, acting on dangerous impulses an extreme increase in activity other unusual changes in behav Some other medicines can also cause low sodium in your blood. Be sure to tell your healthcare prov Your healthcare provider may do blood tests to check your sodium levels during your treatment wit Oxcarbazepine tablets may also cause allergic reactions or serious problems which m yellowing of your skin or eyes unusual bruising or bleeding Call a healthcare provider right away if you have any of these symptoms, especially if the Do not stop taking oxcarbazepine tablets without first talking to a healthcare provider. severe fatigue or weakness new or worse irritability alone to treat partial-onset seizures in children 4 years and older with other medicines to treat partial-onset seizures in children 2 years and older How can I watch for early symptoms of suicidal thoughts and actions? Oxcarbazepine tablets may also cause allergic reactions or serious or blood cells. You may or may not have a rash with these types of reactions Oxcarbazepine tablets are a prescription medicine used:

alone or with other medicines to treat partial onset seizures in adults do not go away or come and go frequent infections or infections that do not go away fever, swollen glands, or sore throat that

What are oxcarbazepine tablets?

Special Senses

Diplopia Taste Perversion

Artwork information			
Customer	Camber	Market	USA
Dimensions (mm)	330 x 800 mm	Non Printing Colors	Die cu
Pharma Code No.	Front-663 & Back-66	54	
Printing Colours	Black		

based on folding size.

When pregnant rats were given oxcarbazepine (0, 30, 300, or 1000 mg/kg/day) or ally 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 death 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), but there is no evidence to suggest that teratogenicity was secondary to the mat

In a study in which pregnant rabbits were orally administered MHD (0, 20, 100, or 200 mg/kg/day) during  $\overline{\phantom{a}}$ organogenesis, embryofetal mortality was increased at the highest dose (1.5 times the MRHD on a mg/r

basis). This dose produced only minimal maternal toxicity. In a study in which female rats were dosed orally with oxcarbazenine (0, 25, 50, or 150 mg/kg/day) during the latter part of gestation and throughout the lactation period, a persistent reduction in body weights and altered behavior (decreased activity) were observed in offspring exposed to the highest dose (less than the MRHD on a  $mq/m^2$  basis). Oral administration of MHD (0, 25, 75, or 250 mg/kg/day) to 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 considered 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 Use of excarbazepine with hormonal contraceptives containing ethinvlestradiol or levenorgestrel is associated with decreased plasma concentrations of these hornones and may result in a failure of the therapeutic effect of the oral contraceptive drug. Advise women of reproductive potential taking

oxcarbazepine who are using a contraceptive containing ethinylestradiol or levonorgestrel to use additional or alternative non-hormonal birth control [see Drug interactions (7.3) and Clinical Pharmacology (12.3)]. Oxcarbazenine is indicated for use as adjunctive therapy for partial-onset seizures in patients aged 2 to

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.

Ox carbaze pine is also indicated as monotherapy for partial-onset seizures in patients aged 4 to 16 years.The safety and effectiveness for use as monotherapy for partial-onset seizures in pediatric patients below

Oxcarbazepine has been given to 898 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 (5.11), Adverse Reactions (6.1), Clinical Pharmacology (12.3),

8.5 Geriatric Use There were 52 patients over age 65 in controlled clinical trials and 565 patients over the age of 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 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. Close monitoring of sodium levels is required in elderly patients at risk for remia [see Warnings and Precautions (5.1)]. 8.6 Renal Impairment Dose adjustment is recommended for renally impaired patients (CLcr < 30 mL/min) [see Dosage and Administration (2.7) and Clinical Pharmacology (12.3/].

9 DRUG ABUSE AND DEPENDENCE 9.2 Abuse

The abuse notential of excarbazenine has not been evaluated in human studies.

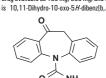
10 OVERDOSAGE

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.

10.1 Human Overdose Experience Isolated cases of overdose with excarbazenine have been reported. The maximum dose taken was approximately 48,000 mg. All patients recovered with symptomatic treatment. Nausea, vomiting, somnolence, aggression, agitation, hypotension, and tremor each occurred in more than one natient. Coma confusional state, convulsion, dyscoordination, depressed level of consciousness, diplopia, dizziness, dyskinesia, dyspnea, QT prolongation, headache, miosis, nystagmus, overdose, decreased urine output,

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

11 DESCRIPTION Oxcarbazepine is an antiepileptic drug available as 150 mg, 300 mg, and 600 mg film-coated tablets for oral administration. Oxcarbazenine is 10.11-Dihydro-10-oxo-5/H-dihenzlh.flazenine-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 chloroform and practically insoluble in water. Its molecular weight is 252.268. Oxcarbazepine film-coated tablets USP contain the following inactive ingredients: colloidal silicon dioxide Oxeanozepinie nini-coateu taluets Ost contain the ronoving interve nigreuents, continua sincon noxide, crospovidone, hypromellose, magnesium stearate, microrystalline cellulose, black iron oxide, iron oxide yellow, iron oxide red, polyethylene glycol, polyvinyl alcohol, talc, and titanium dioxide.

12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action

The nharmacological activity of excarbazenine 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 electronhysiological studies indicate that they produce blockade of voltage-sensitive sodium channels, resulting in stabilization of hyperexcited neural membranes, inhibition of repetitive neuronal 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 Oxcarbazepine and its active metabolite (MHD) exhibit 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 anticonvolusive 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 excarbazepine, with approximately 70% 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

Based on MHD concentrations, oxcarbazepine tablets and suspension were shown to have similar After single-dose administration of oxcarbazepine tablets to healthy male volunteers under fasted and a single-cose administration to Activate to the conditions, the median  $t_{\rm min}$  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  $t_{\rm min}$  was 6 hours.  $Steady \cdot state\ plasma\ concentrations\ of\ MHD\ are\ reached\ within\ 2\ to\ 3\ days\ in\ patients\ when\ oxcarbaze pine$ 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.

Food has no effect on the rate and extent of absorption of oxcarbazenine from oxcarbazenine tablets. Although not directly studied, the oral bioavailability of the oxcarbazepine suspension is unlikely to be affected under fed conditions. Therefore, oxcarbazepine tablets and suspension can be taken with or

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

Geriatrics

alpha-1-acid glycoprotein. Metabolism and Excretion epine is rapidly reduced by cytosolic 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 oxidized to the pharmacologically

inactive 10,11-dihydroxy metabolite (DHD). Oxcarbazenine is cleared from the body mostly in the form of metabolites which are predominantly excreted Oxfortiage principles treated from the own you makely in the following which are preventionally exceeded by 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 (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

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 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

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. I herefore, 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. average than that of adults. Therefore, MHD exposure in these children is expected to be about one-half that

No gender-related pharmacokinetic differences have been observed in children, adults, or the elderly, No specific studies have been conducted to assess what effect, if any, race may have on the disposition of

oxcarbazepine. 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 19 hours, with a 2-fold increase in AUC [see

Dosage and Administration (2.7) and Use in Specific Populations (8.6). Hepatic Impairment The pharmacokinetics and metabolism of excarbazenine and MHD were evaluated in healthy volunteers and hepatically-impaired subjects after a single 900-mg oral dose. Mild-to-moderate 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 (8.1/]

**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 excarbazenine and MHD. No autoinduction has been observed with

Oxcarbazenine 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 4950 enzymes evaluated (CYP1A2, CYP2A6, CYP2C9, CYP2C9, CYP2C9, CYP2C9, CYP2C19 and CYP3A4/5. Although inhibition of CYP3A4/5 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 UDP-glucuronyl transferase level was increased, indicating induction of this enzyme. Increases of 22% with MHD and 47% with oxcarbazepine were observed. As MHD, the predominant plasma substrate, is only a weak inducer of UDP-glucuronyl transferase, it is unlikely to have an effect on drugs that

are mainly eliminated by conjugation through UDP-qlucuronyl 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 dihydronyridine calcium antagonists, oral contracentives and e 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

For more information, call 1-866-495-1995.

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

Other Antienilentic Drugs

Otential interactions between oxcarbazepine and other AEDs were assessed in clinical studies. The effect of these interactions on mean AUCs and C<sub>m</sub> are summarized in Table 7 (see Drug Interactions (7.1, 7.2)). Table 7: Summary of AED Interactions with Oxcarbazepine

able 7: Summary	OT ALU INT	eractions with U)	ccarpazepine	
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- 2000	900	nc¹	40% decrease (CI: 17% decrease, 57% decrease)
Phenobarbital	100-150	600-1800	14% increase [Cl: 2% increase, 24% increase]	25% decrease (CI: 12% decrease, 51% decrease)
Phenytoin	250-500	600-1800 > 1200-2400	nc <sup>1,2</sup> up to 40% increase <sup>3</sup> [CI: 12% increase, 60% increase]	30% decrease [Cl: 3% decrease, 48% decrease]
Valproic acid	400- 2800	600-1800	nc¹	18% decrease [CI: 13% decrease, 40% decrease]
Lamotrigine	200	1200	nc <sup>1</sup>	nc¹

<sup>1</sup>nc denotes a mean change of less than 10%

<sup>2</sup>Pediatrics Mean increase in adults at high oxcarbazepine doses

Hormonal Contraceptives
Coadministration of oxcarbazepine with an oral contraceptive has been shown to influence the plasma Concentrations of the two hormonal components, ethinylestradiol (EE) and levonorgestre (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 52] in another study. The mean AUC values of LNG were decreased by 32% [90% CI: 20 to 451 in one study and 52% [90% CI: 42 to 521 in another study

Other Drug Interactions Calcium Antagonists: After repeated coadministration of oxcarbazepine, the AUC of felodipine was lowered by 28% [90% CI: 20 to 33]. Verapamil produced a decrease of 20% [90% CI: 18 to 27] of the plasma levels of

Cimetidine, erythromycin and dextropropoxyphene had no effect on the pharmacokinetics of MHD. Results with warfarin show no evidence of interaction with either single or repeated doses of oxcarbazepine

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In 2-year carcinogenicity studies, oxcarbazepine was administered in the diet at doses of up to 100 mg/kg/day to mice and by gavage at doses of up to 250 mg/kg/day to rats, and the pharmacologically active 10-hydroxy metabolite (MHD) was administered orally at doses of up to 600 mg/kg/day to rats. In mice, a dose-related increase in the incidence of hepatocellular adenomas was observed at oxcarbazening  $\geq$  70 mg/kg/day, which is less than the maximum recommended human dose (MRHD) on a mg/m basis. In rats, the incidence of hepatocellular carcinomas was increased in females treated with oxcarbazepine at doses ≥25 mg/kg/day (less than the MRHD on a mg/m² basis), and incidences of oxeduacepine at uses ≥ 2.5 mg/kg/usey less time the mirror on a mg/m basis/, and industries or hepatocellular adenomas and/or carcinomas were increased in males and females treated with MHD at doses of 600 mg/kg/day (2.4 times the MRHD on a mg/m² basis) and ≥ 250 mg/kg/day (equivalent to the MRHD on a mg/m<sup>2</sup> basis), respectively. There was an increase in the incidence of benign testicular interstitial cell tumors in rats at 250 mg oxcarbazepine/kg/day and at ≥250 mg MHD/kg/day, and an increase in the

Mutagenesis Oxcarbazepine increased mutation frequencies in the in vitro Ames test in the absence of metabolic activation. Both oxcarbazepine and MHD produced increases in chromosomal aberrations and polyploidy in the Chinese hamster ovary assay *in vitro* in the absence of metabolic activation. MHD was negative in the Ames test, and no mutagenic or clastogenic activity was found with either oxcarbazepine or MHD in V79 Chinese hamster cells *in vitro*. Oxcarbazepine and MHD were both negative for clastogenic or aneugenic effects (micronucleus formation) in an in vivo rat bone marrow assay

incidence of granular cell tumors in the cervix and vagina in rats at 600 mg MHD/kg/day

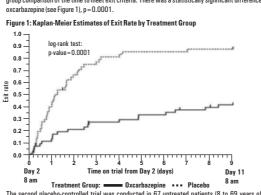
Impairment of Fertility In a study in which male and female rats were administered oxcarbazepine (0, 25, 75 and 150 mg/kg/day) orally prior to and during mating and continuing in females during gestation, no adverse effects on fertility or reproductive performance were observed. The highest dose tested is less than the MRHD on a mg/m² basis. In a fertility study in which rats were administered MHD (0, 50, 150, or 450 mg/kg/day) orally prior to and during mating and early gestation, estrous cyclicity was disrupted and numbers of corpora lutea, implantations, and live embryos were reduced in females receiving the highest dose (approximately 2 times the MRHD on a mg/m² basis).

The effectiveness of oxcarbazeoine as adjunctive and monotherapy for partial-onset seizures in adults, and as adjunctive therapy in children aged 2 to 16 years was established in seven multicenter, randomized, controlled trials. The effectiveness of oxcarbazepine as monotherapy for partial-onset seizures in children aged 4 to 16 years

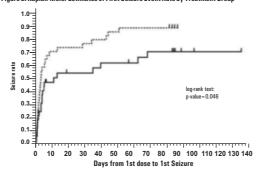
was determined from data obtained in the studies described, as well as by obarmacokinetic/obarmacodynamic Four randomized, controlled, double-blind, multicenter trials, conducted in a predominately adult population

lemonstrated the efficacy of oxcarbazepine as monotherapy. Two trials compared oxcarbazepine to placebo and 2 trials used a randomized withdrawal design to compare a high dose (2400 mg) with a low dose (300 mg) of oxcarbazepine, after substituting oxcarbazepine 2400 mg/day for 1 or more antiepileptic drugs (AEDs). All doses were administered on a twice-a-day schedule. A fifth randomized, controlled, rater-blind, multicenter study, conducted in a pediatric population, failed to demonstrate a statistically significant difference between low and high dose oxcarbazepine treatment groups.

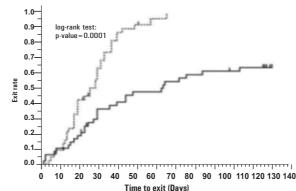
One placebo-controlled trial was conducted in 102 patients (11 to 62 years of age) with refractory partialonset seizures who had completed an inpatient evaluation for epilepsy surgery. Patients had been withdrawn from all AEDs and were required to have 2 to 10 partial-onset seizures within 48 hours prior to randomization. Patients were randomized to receive either placebo or oxcarbazepine given as 1500 mg/day on Day 1 and 2400 mg/day thereafter for an additional 9 days, or until 1 of the following 3 exit criteria occurred: 1) the occurrence of a fourth partial-onset seizure, excluding Day 1, 2) 2 new-onset secondarily generalized seizures, where such seizures were not seen in the 1-year period prior to randomization, or 3 occurrence of serial seizures or status epilepticus. The primary measure of effectiveness was a betweengroup comparison of the time to meet exit criteria. There was a statistically significant difference in favor of carbazepine (see Figure 1), p = 0.0001.



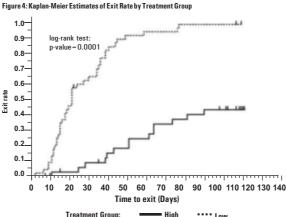
The second placebo-controlled trial was conducted in 67 untreated patients (8 to 69 years of age) with newly-diagnosed and recent-onset partial seizures. Patients were randomized to placebo or oxcarbazepine initiated at 300 mg twice a day and titrated to 1200 mg/day (given as 600 mg twice a day) in 6 days, followed by maintenance treatment for 84 days. The primary measure of effectiveness was a between group comparison of the time to first seizure. The difference between the 2 treatments was statistically ignificant in favor of oxcarbazepine (see Figure 2), p = 0.046. Figure 2: Kaplan-Meier Estimates of First Seizure Event Rate by Trea



 $\begin{tabular}{lll} \textbf{Treatment Group:} & \blacksquare \blacksquare & \textbf{Oxcarbazepine * • • Placebo} \\ A third trial substituted oxcarbazepine monotherapy at 2400 mg/day for carbamazepine in 143 patients (12 and 12 and 13 and 14 an$ to 65 years of age) whose partial-onset seizures were inadequately controlled on carbamazepine (CBZ) therapy at a stable dose of 800 to 1600 mg/day, and maintained this oxcarbazenine dose for 56 days aseline phase). Patients who were able to tolerate titration of oxcarbazepine to 2400 mg/day during simultaneous carbamazepine withdrawal were randomly assigned to either 300 mg/day of oxcarbazepine or 2400 mg/day oxcarbazepine. Patients were observed for 126 days or until 1 of the following 4 exit criteria occurred: 1) a doubling of the 28-day seizure frequency compared to baseline, 2) a 2-fold increase in the highest consecutive 2-day seizure frequency during baseline, 3) a single generalized seizure if none had occurred during baseline, or 4) a prolonged generalized seizure. The primary measure of effectiveness was a between-group comparison of the time to meet exit criteria. The difference between the curves was statistically significant in favor of the oxcarbazepine 2400 mg/day group (see Figure 3), p = 0.0001. Figure 3: Kaplan-Meier Estimates of Exit Rate by Treatment Groun



Treatment Group: High .... Low Another monotherapy substitution trial was conducted in 87 patients (11 to 66 years of age) whose seizures were inadequately controlled on 1 or 2 AEDs. Patients were randomized to either oxcarbazepine 2400 mg/day or 300 mg/day and their standard AED regimen(s) were eliminated over the first 6 weeks of double blind therapy. Double-blind treatment of 126 days) or until 1 of the 4 exit criteria described for the previous study occurred. The primary measure of effectiveness was a between-group comparison of the percentage of patients meeting exit criteria. The results were statistically significant in favor of the oxcarbazepine 2400 mg/day group (14/34; 41.2%) compared to the oxcarbazepine 300 mg/day group (42/45; 93.3%) (p < 0.0001). The time to meeting one of the exit criteria was also statistically significant in favor of the oxcarbazepine 2400 mg/day group (see Figure 4), p = 0.0001.



Treatment Group: High .... Low A monotherapy trial was conducted in 92 pediatric patients (1 month to 16 years of age) with inadequately

10 mg/kg/day or were titrated up to 40 to 60 mg/kg/day within 3 days while withdrawing the previous AED on the second day of oxcarbazepine. Seizures were recorded through continuous video-EEG monitoring from Day 3 to Day 5. Patients either completed the 5-day treatment or met 1 of the 2 exit criteria: 1) three studyspecific seizures (i.e., electrographic partial-onset seizures with a behavioral correlate), 2) a prolonged studyspecific seizure. The primary measure of effectiveness was a between-group comparison of the time to meet exit criteria in which the difference between the curves was not statistically significant (p=0.904). The majority of patients from both dose groups completed the 5-day study without exiting.

Although this study failed to demonstrate an effect of oxcarbazepine as monotherapy in pediatric patients, several design elements, including the short treatment and assessment period, the absence of a true placebo, and the likely persistence of plasma levels of previously administered AEDs during the treatment period, make the results uninterpretable. For this reason, the results do not undermine the conclusion, based on pharmacokinetic/pharmacodynamic considerations, that oxcarbazepine is effective as monotherapy in pediatric patients 4 years old and older.

14.2 Oxcarbazepine Adjunctive Therapy Trials
The effectiveness of oxcarbazepine as an adjunctive therapy for partial-onset seizures was established in 2 multicenter, randomized, double-blind, placebo-controlled trials, one in 692 patients (15 to 66 years of age) and one in 264 pediatric patients (3 to 17 years of age), and in one multicenter, rater-blind, randomized, age stratified, parallel-group study comparing 2 doses of oxcarbazepine in 128 pediatric patients (1 month to < 4 Patients in the 2 placeho-controlled trials were on 1 to 3 concomitant AFDs. In both of the trials, natients

were stabilized on optimum dosages of their concomitant AEDs during an 8-week baseline phase. Patients who experienced at least 8 (minimum of 1 to 4 per month) partial-onset seizures during the baseline phase were randomly assigned to placebo or to a specific dose of oxcarbazepine in addition to their other AEDs. In these studies, the dose was increased over a 2-week period until either the assigned dose was reached, or tolerance prevented increases. Patients then entered a 14- (pediatrics) or 24-week (adults) maintenance

In the adult trial, patients received fixed doses of 600, 1200 or 2400 mg/day. In the pediatric trial, patients received maintenance doses in the range of 30 to 46 mg/kg/day, depending on baseline weight. The primary measure of effectiveness in both trials was a between-group comparison of the percentage change in partial onset seizure frequency in the double-blind treatment phase relative to baseline phase. This comparison was statistically significant in favor of oxcarbazepine at all doses tested in both trials (p = 0.0001 for all doses for both trials). The number of patients randomized to each dose, the median baseline seizure rate, and the median percentage seizure rate reduction for each trial are shown in Table 8. It is important to note that in the highdose group in the study in adults, over 65% of natients discontinued treatment because of adverse events

only 46 (27%) of the patients in this group completed the 28-week study [see Adverse Reactions (6/], an outcome not seen in the monotherapy studies. Table 8: Summary of Percentage Change in Partial-Onset Seizure Frequency from Baseline for

Trial	Treatment Group			
		N	Baseline Median Seizure Rate*	Median % Reduction
(madinarian)	Oxcarbazepine	136	12.5	34.8 <sup>1</sup>
1 (pediatrics)	Placebo	128	13.1	9.4
	Oxcarbazepine 2400 mg/day	174	10.0	49.9 <sup>1</sup>
2 (adults)	Oxcarbazepine 1200 mg/day	177	9.8	40.21
	Oxcarbazepine 600 mg/day	168	9.6	26.41
	Placebo	173	8.6	7.6

Subset analyses of the antiepileptic efficacy of oxcarbazepine with regard to gender in these trials revealed no

The third adjunctive therapy trial enrolled 128 pediatric patients (1 month to <4 years of age) with

inadequately-controlled partial-onset seizures on 1 to 2 concomitant AEDs. Patients who experienced at least

2 study-specific seizures (i.e., electrographic partial-onset seizures with a behavioral correlate) during the 72-

age of 65 years in controlled trials, the effect of the drug in the elderly has not been adequately assessed.

tant differences in response between men and women. Because there were very few patients over the

hour baseline period were randomly assigned to either oxcarbazepine 10 mg/kg/day or were titrated up to 60  $mg/kg/day\ within\ 26\ days.\ Patients\ were\ maintained\ on\ their\ randomized\ target\ dose\ for\ 9\ days\ and\ seizures$  were\ recorded\ through\ continuous\ video. EEG\ monitoring\ during\ the\ last\ 72\ hours\ of\ the\ maintenance\ period. The primary measure of effectiveness in this trial was a between-group comparison of the change in seizure frequency per 24 hours compared to the seizure frequency at baseline. For the entire group of patients enrolled, this comparison was statistically significant in favor of oxcarbazepine 60 mg/kg/day. In this study, there was no evidence that oxcarbazepine was effective in patients below the age of 2 years (N = 75).

16 HOW SUPPLIED/STORAGE AND HANDLING Oxcarbazepine Tablets, USP are provided as: 150 mg Film-Coated Tablets: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side and '7' and '6' on another side separated by a score line (functional scoring) on both sides

Bottle of 100 NDC 31722-023-01 Bottle of 500 NDC 31722-023-05 NDC 31722-023-10 Bottle of 1000 Carton of 100 (10x10) unit-dose Tablets NDC 31722-023-31 300 mg Film-Coated Tablets: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on

one side and '7' and '7' on another side separated by a score line (functional scoring) on both sides. Bottle of 100 NDC 31722-024-01 Bottle of 500 Bottle of 1000 NDC 31722-024-10 Carton of 100 (10x10) unit-dose Tablets NDC 31722-024-31

600 mg Film-Coated Tablets: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side and '7' and '8' on another side separated by a score line (functional scoring) on both sides Bottle of 100 NDC 31722-025-01 Bottle of 500 NDC 31722-025-05 NDC 31722-025-10 Bottle of 1000 Carton of 100 (10x10) unit-dose Tablets NDC 31722-025-31 Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP

Controlled Room Temperature]. Dispense in tight container (USP). 17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide). Administration Information

Counsel nationts that excarbazenine tablets may be taken with or without food

ents that oxcarbazepine tablets may reduce the serum sodium concentrations especially if they are taking other medications that can lower sodium. Instruct patients to report symptoms of low sodium like nausea, tiredness, lack of energy, confusion, and more frequent or more severe seizures [see Warnings and

Precautions (5.1)]. Anaphylactic Reactions and Angioedema Anaphylactic reactions and angioedema may occur during treatment with oxcarbazepine tablets. Advise

patients to report immediately signs and symptoms suggesting angioedema (swelling of the face, eyes, lips, tongue or difficulty in swallowing or breathing) and to stop taking the drug until they have consulted with their physician [see Warnings and Precautions (5.2/). Cross Hypersensitivity Reaction to Carbamazepine Inform patients who have exhibited hypersensitivity reactions to carbamazepine that approximately 25% to 30% of these patients may experience hypersensitivity reactions with oxcarbazepine tablets. Patients should be advised that if they experience a hypersensitivity reaction while taking oxcarbazepine tablets they should

consult with their physician immediately (see Warnings and Precautions (5.3)). Serious Dermatological Reactions

Sensous Deminationgues neactions.

Advise patients that serious skin reactions have been reported in association with oxcarbazepine tablets. In the event a skin reaction should occur while taking oxcarbazepine tablets, patients should consult with their nhysician immediately [see Warnings and Precautions (5.4)] Suicidal Behavior and Ideation

Sanction Denoving and Incention.

Patients, their caregivers, and families should be counseled that AEDs, including oxcarbazepine tablets, may increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the nergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers (see Warnings and Precautions (5.5)). Driving and Operating Machinery Advise patients that oxcarbazepine tablets may cause adverse reactions such as dizziness, somnolence,

adataia, visual disturbances, and depressed level of consciousness. Accordingly, advise patients not to drive or operate machinery until they have gained sufficient experience on oxcarbazepine tablets to gauge whether it adversely affects their ability to drive or operate machinery (see Warnings and Precautions (5.7) and Adverse Multi-Organ Hyperser

Instruct patients that a fever associated with other organ system involvement (e.g., rash, lymphadenopathy, hepatic dysfunction) may be drug-related and should be reported to their healthcare provider immediately [see Warnings and Precautions (5.8). Hematologic Events

Advise patients that there have been rare reports of blood disorders reported in patients treated with oxcarbazepine tablets. Instruct patients to immediately consult with their physician if they experience symptoms suggestive of blood disorders [see Warnings and Precautions (5.9/]. Caution female patients of reproductive potential that the concurrent use of oxcarbazepine tablets with

hormonal contraceptives may render this method of contraception less effective [see Drug Interactions (7.2) and Use in Specific Populations (8.1)]. Additional non-hormonal forms of contraception are recommended when using oxcarbazepine tablets. Caution should be exercised if alcohol is taken in combination with oxcarbazepine tablets, due to a possible Pregnancy Registry

ourage patients to enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of antiepileptic drugs during pregnancy (see Use in Specific Populations (8.1)).



Manufactured for: Camber Pharmaceuticals Inc Piscataway, NJ 08854 By: Annora Pharma Pyt. Ltd.

Revised: 03/2024

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Oxcarbazepine tablets may cause other serious side effects including:

See "What is the most important information I should know about oxcarbazepine tablets?"

What are the possible side effects of oxcarbazepine tablets?

What should I avoid while taking oxcarbazepine tablets? How should I take oxcarbazepine tablets? Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine **Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Taking oxcarbazepine tablets with certain other medicines may cause side effects or affect how well they work. Do not start or stop other medicines without talking to your healthcare provider. Do not drive or operate machinery until you know how oxcarbazepine tablets affect you. Oxcarbazepine tablets may slow your thinking and motor skills.

Do not drink alcohol or take other drugs that make you sleepy or dizzy while taking oxcarbazepine tablets until you talk to your healthcare provider.

Oxcarbazepine tablets taken with alcohol or drugs that cause sleepiness or dizziness may make your sleepiness or dizziness worse. If you take too much oxcarbazepine, call your healthcare provider right away Take ox carbazepine tablets with or without food Take oxcarbazepine tablets 2 times a day. Do not stop taking oxcarbazepine tablets without talking to your healthcare provider. Stopping oxcarbazepine tablets suddenly can cause serious problems Take oxcarbazepine tablets exactly as prescribed. Your healthcare provider may change your dose. Your healthcare provider will tell you how much ıding seizures that will not stop (status epilepticus).

By: Annora Pharma Pvt. Ltd. Sangareddy - 502313, Telangana, India. Piscataway, NJ 08854 Camber Pharmaceuticals, Inc. Manufactured for: AMBER®

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

iron oxide red, polyethylene glycol, polyvinyl alcohol, talc, and titanium dioxide. What are the ingredients in oxcarbazepine tablets? Inactive ingredients: colloidal silicon dioxide, crospovidone, hypromellose, magnesium stearate, microcrystalline cellulose, black iron oxide, iron oxide yellow

Active ingredient: oxcarbazepi

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

General Information about the safe and effective use of oxcarbazepine tablets.

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

Keep oxcarbazepine tablets and all medicines out of the reach of children

Keep oxcarbazepine tablets film-coated tablets dry. Store oxcarbazepine film-coated tablets at room temperature between 15°C to 30°C (59°F to 86°F)

How should I store oxcarbazepine tablets? Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088

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

problems with walking and coordination (unsteadiness)

trembling

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 tablets?"

problems with vision

The most common side effects of oxcarbazepine tablets include:

trouble with walking and coordination seizures that can happen more often or become worse, especially in children

feeling sleepy and tired

problems with your speech and language

sleepiness double vision

tiredness

Revised: 03/2024