



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 Pediatrics:

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 kg, a starting dose of 16 to 20 mg/kg/day may be considered. Recommended daily dose is dependent upon

- 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 exceed 60 mg/kg/day (2.4)

 $\bullet \quad \text{Conversion to Monotherapy for Patients (Aged 4 to 16 Years): Maximum increment of 10\,mg/kg/day at}\\$ weekly intervals, concomitant antiepileptic drugs (AEDs) can be completely withdrawn over 3 to 6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

....DOSAGE FORMS AND STRENGTHS..... · Film-coated tablets (functional scoring): 150 mg, 300 mg and 600 mg (3)

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INDICATIONS AND USAGE

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1 INDICATIONS AND USAGE 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

ended daily dose is 1200 mg/day.

Dosage adjustment is recommended with concomitant use of strong CYP3A4 enzyme inducers or UDPglucuronosyltransferases (UGT) inducers, which include certain antiepileptic drugs (AEDs) [see Drug

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 oxcarbazepine tablets should be reached in about 2 to 4

weeks. 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

In these patients, initiate excarbazenine tablets at a dose of 600 mg/day (given a twice a day); the dose should be increased by 300 mg/day every third day to a dose of 1200 mg/day. Controlled trials in these patients examined the effectiveness of a 1200 mg/day dose; a dose of 2400 mg/day has been shown to be effective in natients converted from other AEDs to excarbazenine tablets monotherapy (see above

2.4 Adjunctive Therapy for Pediatric Patients (Aged 2 to 16 Years)

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

mg/kg with a range of 6 to 51 mg/kg. In pediatric patients aged 2 to < 4 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. For patients less than 20 kg, a starting dose of 16 to 20 mglkg 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 twice a day regimen. In the clinical trial in pediatric patients (2 to 4 years of age), in which the intention was to reach the target

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. The recommended total daily dose of oxcarbazepine tablets is shown in Table 1 2.6 Initiation of Monotherapy for Pediatric Patients (Aged 4 to 16 Years)

Wainht in kn	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

2.8 Administration Information Oxcarbazenine tablets can be taken with or without food /see Clinical Pharmacology (12.3). Oxcarbazegine oral suspension and oxcarbazegine tablets may be interchanged at equal doses.

3 DOSAGE FORMS AND STRENGTHS

- 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.
- 4 CONTRAINDICATIONS

any of its components, or to eslicarbazepine acetate (see Warnings and Precautions (5.2, 5.3)). 5 WARNINGS AND PRECAUTIONS nia (sodium < 125 mmol/L) can develop during oxcarbazepine use. In the 14

patients who developed hyponatremia were asymptomatic, but patients in the clinical trials were frequently monitored and some had their oxcarbazepine dose reduced, discontinued, or had their fluid intake restric 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 sodium within a few days without additional treatmer

nia develon (e.g., nausea, malaise, headache, lethargy, confusion, obtundation, or increase i seizure frequency or severity). 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 oxcarbazepine. Angioedema associated with

----CONTRAINDICATIONS---- $Known\,hypersensitivity\,to\,ox carbazepine\,or\,to\,any\,of\,its\,components,\,or\,to\,es licarbazepine\,acetate\,(4,5.2)$ ·····WARNINGS AND PRECAUTIONS····

 $Hyponatremia: Monitor serum sodium \, levels \, (5.1)$ Cross Hypersensitivity Reaction to Carbamazepine: Discontinue immediately if hypersensitivity occurs

Serious Dermatological Reactions: If occurs, consider discontinuation (5.4 Suicidal Behavior and Ideation: Monitor for suicidal thoughts/behavior (5.5)

Withdrawal of AEDs: Withdraw oxcarbazepine gradually (5.6)
Cognitive/Neuropsychiatric Adverse Reactions: May cause cognitive dysfunction, somnolence, and coordination abnormalities. Use caution when operating machinery (5.7) Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypersensitivity Monitor and discontinue if another cause cannot be established (5.8)

Hematologic Events: Consider discontinuing (5.9) Seizure Control During Pregnancy: Active metabolite may decrease (5.10)

.....ADVERSE REACTIONS... The most common (≥ 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, abnormal vision, headache, nystagmus, tremor, and abnormal gait (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.DRUG INTERACTIONS

 Phenytoin: Increased phenytoin levels. Reduced dose of phenytoin may be required (7.1) • Carbamazepine, Phenytoin, and Phenobarbital: Decreased plasma levels of MHD (the active metabolite). Dose adjustments may be necessary (7.1) Oral Contraceptive: Oxcarbazepine may decrease the effectiveness of hormonal contraceptives (7.3)

.....USE IN SPECIFIC POPULATIONS.....

 Pregnancy: May cause fetal harm (8.1) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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8 USE IN SPECIFIC POPULATIONS

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Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION excarbazepine, the drug should be discontinued and an alternative treatment started. These patients should not be rechallenged with the drug (see Warnings and Precautions (5.3)).

2.1 Adjunctive Therapy for Adults

may be increased by a maximum of 600 mg/day at approximately weekly intervals; the maximum Daily doses above 1200 mg/day show somewhat greater effectiveness in controlled trials, but most nts were not able to tolerate the 2400 mg/day dose, primarily because of central nervous (CNS)

Interactions (7.1, 7.2)]. 2.2 Conversion to Monotherapy for Adults

 $Patients \ not \ currently \ being \ treated \ with \ AEDs \ may \ have \ monotherapy \ initiated \ with \ oxcarbazepine \ tablets.$

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

 39 kg-1800 mg/day In the clinical trial, in which the intention was to reach these target doses, the median daily dose was $31\,$

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 (L/hr/kg) 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. Dosage adjustment is recommended with concomitant use of strong CYP3A4 enzyme inducers or UGT inducers, which include certain AEDs [see Drug Interactions (7.1, 7.2)]. 2.5 Conversion to Monotherapy for Pediatric Patients (Aged 4 to 16 Years)

Patients receiving concomitant AEDs 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 AEDs. The concomitant AEDs can be completely withdrawn

Patients not currently being treated with AEDs may have montherapy 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

Weight in kg	From	To
weight in ky	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

1500 2.7 Dosage Modification for Patients With Renal Impairmen ents with impaired renal function (creatinine clearance < 30 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)).

Film-coated Tablets:

• 150 mg: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on one side

 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. carbazepine tablets are contraindicated in patients with a known hypersensitivity to oxcarbazepine or to

controlled epilepsy studies, 2.5% of oxcarbazepine-treated patients (38/1524) had a sodium of less than 125 mmoll. 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 oxcarbazepine, although there were patients who first developed a serum sodium < 125 mmol/L more than 1 year after initiation of therapy. Most for hyponatremia. Whether or not these maneuvers prevented the occurrence of more severe events is with oxcarbazepine was discontinued due to hyponatremia generally experienced normalization of serum

Measurement of serum sodium levels should be considered for nationts 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

Pregnancy

Risk of Seizure Aggravation: Discontinue if occurs (5.11)

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5.3 Cross Hypersensitivity Reaction to Carbamazenine 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 experience hypersensionary reactions with unconargenies or time 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)).

Serious dermatological reactions, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), have been reported in both children and adults in association with oxcarbazepine use. Such serious 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 oxcarbazegine has also been

 $The reporting \ rate \ of \ TEN \ and \ SJS \ associated \ with oxcarbazepine \ use, \ which \ is \ generally \ accepted \ to \ be \ an$ timate 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 prescribing another antiepileptic medication

Association With HLA-B*1502 Patients carrying the HLA-B*1502 allele may be at increased risk for SJS/TEN with oxcarbazepine treatment. Human Leukocyte Antigen (HLA) allele B*1502 increases the risk for developing SJS/TEM in patients treated with carbamazepine. The chemical structure of oxcarbazepine is similar to that of carbamazepine. Available clinical evidence, and data from nonclinical studies showing a direct interaction between oxcarbazepine and HLA-B*1502 protein, suggest that the HLA-B*1502 allele may also increase 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 nenetically at-risk nonulations, prior to initiating treatment with excarbazenine. The use of excarbazenine genetically actiss populations, prior to initiating treatment with oxeroacepine. The use of oxtendezepine should be avoided in partients positive for HLAB*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 HLA-B*1502 is low, or in current oxcarbazepine users, as the risk of SJS/TEN is largely confined to the first few months of therapy, egardless of HLA-B*1502 status The use of HLA-B*1502 genotyping has important limitations, and must never substitute for appropriate clinical vigilance and patient management. The role of other possible factors in the development of, and morbidity from, SJS/TEN, such as AED dose, compliance, concomitant medications, comorbidities, and the

level of dermatologic monitoring have not been well characterized. 5.5 Suicidal Behavior and Ideation Antiepileptic drugs, 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 mo 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 ted patients, but the number is too small to allow any conclusion about drug effect on suici

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 neyond 24 weeks could not be assessed 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

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after

l OO year luated A		als analyzed. Table 2 s	shows absolute and relative	risk by indication for all
ole 2: Ris	sk by Indication for	Antiepileptic Drugs	in the Pooled Analysis	
	Placebo patients with events per 1000 patients	Drug patients with events per 1000 patients	Relative risk: incidence of events in drug patients/incidence in placebo patients	Risk difference: additional drug patients with events per 1000 patients
lepsy	1.0	3.4	3.5	2.4
chiatric	5.7	8.5	1.5	2.9
ner	1.0	1.8	1.9	0.9
tal	2.4	4.3	1.8	1.9

Anyone considering prescribing excarbazepine or any other AED must balance the risk of suicidal thoughts or vior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescri 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 healthc

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and

 $\textbf{5.6} \quad \textbf{Withdrawal of Antiepileptic Drugs} \\ \textbf{As with most AEDs}, ox carbaze pine should generally be withdrawn gradually because of the risk of increase.} \\$ seizure frequency and status epilepticus (see Dosage and Administration (2.4) and Clinical Studies (14)). But if withdrawal is needed because of a serious adverse event, rapid disconti 5.7 Counitive/Neuropsychiatric Adverse Reactions Use of oxcarbazepine has been associated with CNS-related adverse reactions. The most significant of

these can be classified into three general categories: 1) cognitive symptoms, including psychom

slowing, difficulty with concentration, and speech or language problems; 2) somnolence or 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 (up to three concomitan 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 disco In this trial, 7.1% of oxcarbazepine-treated patients and 4% of placebo-treated patients 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 events.

oxcarbazepine, 1.1% of patients in the 2400 mg/day group discontinued double-blind treatment because of 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 treatn 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 excarbagenine was added.

Oxcarbazepine was titrated to reach a target dose ranging from 30 mg/kg to $46\,\text{mg/kg}$ (based on a patient's

In the 2 dose-controlled conversion to monotherapy trials comparing 2400 mg/day and 300 mg/day

somnolence, ataxia, or gait disturbance.

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 (in patient discontinued due to a cognitive adverse reaction or somnolence). Finally, 23.2% of oxcarbazepinetreated 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 discontinued due to ataxia or gai

 $5.8 \quad Drug\,Reaction\,With\,Eosinophilia\,and\,Systemic\,Symptoms/Multi-Organ\,Hypersen$ 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 abnormalities, myocarditis, or myositis sometimes resembling an acute viral infection. Eosinophilia is often 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

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 Aggravation

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. 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)] ${\tt Cross\,Hypersensitivity\,Reaction\,to\,Carba maze pine} \textit{[see Warnings and Precautions\,(5.3)]}$

Serious Dermatological Reactions [see Warnings and Precautions (5.4]] Suicidal Behavior and Ideation [see Warnings and Precautions (5.5)] Cognitive/Neuronsychiatric Adverse Reactions (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

Most Common Adverse Reactions in All Clinical Studies Adjunctive Therapy/Monotherapy in Adults Previously Treated With Other AEDs The most common (≥ 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 1537 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%), and hyponatremia (1.0%). $\label{eq:monotherapy in Adults Not Previously Treated With Other AEDs \\ \mbox{The most common } (\geq 5\%) \mbox{ adverse reactions with oxcarbazepine in these patients were similar to those in the second of the property of$

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

Approximately 11% of these 456 pediatric patients discontinued treatment because of an adverse re The adverse reactions most commonly associated with discontinuation were: somnolence (2.4%), vomiting (2.0%), ataxia (1.8%), diplopia (1.3%), dizziness (1.3%), fatigue (1.1%), and nystagmus (1.1%). Monotherany in Pediatric Patients 4 Years Old and Above Not Previously Treated With Other AFDs

The most common ($\geq 5\%$) 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 The most common (≥ 5 %) adverse reactions with oxcarbazepine in these patients were similar to those see 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 enilenticus (1.2%), and ataxia (1.2%). Controlled Clinical Studies of Adjunctive Therapy/Monotherapy in Adults Previously Treated With Other AEDs Table 3 lists adverse reactions that occurred in at least 2% of adult nationts with epilensy, treated with oxcarbazepine or placebo as adjunctive treatment and were numerically more common in the patients treated with any dose of oxcarbazepine.

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

e 4 lists adverse reactions in 10 mg/day) or low-dose (300 r				
ents who dropped out during a p				
le 3: Adverse Reactions	in a Controlled			
Oxcarbazepine in Adu			, ,, ,	
		Oxcarbazepine do		
Body system/	Oxcarbazepine	Oxcarbazepine	Oxcarbazepine	Placebo
Adverse reaction	600 N=163	1200 N=171	2400 N=126	N=166
	W=103 %	% %	%	%
ody as a whole	, ,,	, ,,	/	
Fatigue	15	12	15	7
Asthenia	6	3	6	5
Leg edema	2	1	2	1
ncreased weight	1	2	2	1
Feeling abnormal	0	1	2	0
ardiovascular system	•	•	•	
Hypotension	0	1	2	0
gestive system	•	•	•	
Nausea	15	25	29	10
Vomiting	13	25	36	5
Abdominal pain	10	13	11	5
Diarrhea	5	6	7	6
Dyspepsia	5	5	6	2
Constipation	2	2	6	4
Gastritis	2	1	2	1
etabolic and nutritional disc				
Hyponatremia	3	1	2	1
usculoskeletal system				
Muscle weakness	1	2	2	0
Sprains and strains	0	2	2	1
ervous system				
Headache	32	28	26	23
Dizziness	26	32	49	13
Somnolence	20	28	36	12
Ataxia	9	17	31	5
Nystagmus	7	20	26	5
Abnormal gait	5	10	17	1
nsomnia	4	2	3	1
Tremor	3	8	16	5
Nervousness	2	4	2	1
Agitation	1	1	2	1
Abnormal coordination	1	3	2	1
Abnormal EEG	0	0	2	0
Speech disorder	1	1	3	0
Confusion	1	1	2	1
Cranial injury NOS	1	0	2	1
Dysmetria	1	2	3	0
Abnormal thinking	0	2	4	0
espiratory system	2	4	-	
Rhinitis	2	4	5	4
kin and appendages				

Abnormal	0	0	2	0
accommodation	U	U	2	U
bbreviations: EEG, electroencepha	alonram: NOS not o	therwise specified		
able 4: Adverse Reactions in C				carhazonino
Adults Previously Trea			Julierapy With Ox	cai nazehille
Addits I reviously 116a	LEU WILLIO CLIET AL		dosage (mg/day)	
	0			!
Body system/		rbazepine O mg/day	Oxcarba 300 mg	
Adverse reaction		u ilig/day =86	N=8	
		%	%	U
Body as a whole		,-		
Fatigue		21	5	
Fever		3	0	
Allergy		2	0	
Generalized edema		2	1	
Chest pain		2	0	
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	orders	_		
Hyponatremia		5	0	
Thirst	_	2	0	
Nervous system		31	15	
Headache			15	
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 coor dination		2	1	
Nystagmus		2	0	
Speech disorder		2	0	
Respiratory system				
Upper respiratory tract infection	1	10	5	
Coughing		5	0	

Vertigo	3	n
Earache	2	1
Ear infection NOS	2	0
Jrogenital and reproductive syste	m	·
Urinary tract infection	5	1
Micturition frequency	2	1
Vaginitis	2	0

 $\underline{\textbf{Controlled Clinical Study of Monotherapy in Adults Not Previously Treated With Other AEDs}$ 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 oxcarbazepine or placebo and were numerically more common in the patients treated with oxcarbazepine $\textbf{Table 5: Adverse Reactions in a Controlled Clinical Study of Monotherapy With Oxcarbazepine in a controlled Clinical Study of Monotherapy With Oxcarbazepine in the control of the con$

Adults Not Previously Treated With Other Antiepileptic Drugs

Body system/ Adverse reaction	Oxcarbazepine N=55 %	Placebo N=49 %
Body as a whole	70	70
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
Abbreviation: NOS, not otherwise specified. Controlled Clinical Studies of Adjunctive The	rapy/Monotherapy in Pediatric Pa	ntients Previously Tr
Vith Other AEDs		

oxcarbazepine or placebo as adjunctive treatment and were numerically more common in the patients

Table 6: Adverse Reactions in Controlled Clinical Studies of Adjunctive Therapy/Mon

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
-		

Other Events Observed in Association With the Administration of Oxcarbazepine In the paragraphs that follow, the adverse reactions, other than those in the preceding tables or text, that occurred in a total of 565 children and 1574 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 determined. Body as a Whole: fever, malaise, pain chest precordial, rigors, weight decrea

Cardiovascular System: bradycardia, 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 transaminase increase uloskeletal System: hypertonia muscle

Nervous System: aggressive reaction, amnesia, anguish, anxiety, apathy, aphasia, aura, convulsion aggravated, delirium, delusion, depressed level of consciousness, dysphonia, dystonia, emotional lability, euphoria, extrapyramidal disorder, feeling drunk, hemiplegia, hyperknesia, 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, tetan Respiratory System: asthma, dyspnea, epistaxis, laryngismus, pleurisy Skin and Appendages: acne, alopecia, angioedema, bruising, dermatitis contact, eczema, facial rash,

flushing, folliculitis, heat rash, hot flushes, photosensitivity reaction, pruritus genital, psoriasis, pu

rash erythematous, rash maculopapular, vitiligo, urticarial

mydriasis, otitis externa, photophobia, scotoma, taste perversion, tinnitus, xerophtha Surgical and Medical Procedures: procedure dental oral, procedure female reproductive, procedure ıloskeletal, procedure skin Urogenital and Reproductive System: dysuria, hematuria, intermenstrual bleeding, leukorrhea, menorrhagia, micturition frequency, pain renal, pain urinary tract, polyuria, priapism, renal calculus Other: Systemic lunus erythematosus <u>Laboratory Tests</u>
Serum sodium levels below 125 mmol/L have been observed in patients treated with oxcarbazepine *(see*

Special Senses: accommodation abnormal, cataract, conjunctival hemorrhage, edema eye, hemianopia,

toward normal when the oxerfazepine 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_{ar} without changes in T3 or TSH. 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

Warnings and Precautions (5.1)/. Experience from clinical trials indicates that serum sodium levels return

ymphadenopathy, abnormal liver function tests, eosinophilia and arthralgia *[see Warnings and Precau* (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

Body as a Whole: multi-organ hypersensitivity disorders characterized by features such as rash, fever,

reliably estimate their frequency or establish a causal relationship to drug exposi

Skin and Subcutaneous Tissue Disorders: erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis (see Warnings and Precautions (5.4)), Acute Generalized Exanthematous Pustulosis Musculoskeletal, Connective Tissue and Bone Disorders: There have been reports of decreased bone mineral density, osteoporosis, and fractures in patients on long-term therapy with oxcarbazepin

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 mglday /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,

phenyloin and phenobarbitall 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 oxcarbaz may be required after initiation, dosage modification, or discontinuation of such inducers. 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

or implant contracentives have not been conducted 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy 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 oxcarbazepine in pregnant women; however, oxcarbazepine is closely related structurally to carbamazepine, which is considered to be teratogenic in humans. Data on a limited number of pregnancies from pregnancy registries suggest that oxcarbazepine monotherapy use is associated with congenital malformations (e.g., craniofacial defects, such as oral clefts, and cardiac malformations, such as ventricular septal defects). Increased incidences of fetal structural abnormalities and other manifestations of developmental toxicity (embryolethality, growth retardation) were observed in the offspring of animals treated with eithe oxcarbazepine or its active 10-hydroxy metabolite (MHD) during pregnancy at doses simil

maximum recommended human dose (MRHD). In the U.S. general population, the estimated background risk of major birth defects and miscarriage in inized pregnancies is 2% to 4% and 15% to 20%, respectively. The background risk of major **Clinical Considerations**

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 eriod (see Warnings and Precautions (5.10)). Human Data Data from published registries have reported craniofacial defects, such as oral clefts and cardiac

malformations, such as ventricular septal defects in children with prenatal oxcarbaz

althcare provider if you have any	ines that you are taking.	r parts of your body like the liver

more frequent or more severe seizures

headache

Oxcarbazepine Tablets USP, for oral use

(ox" kar baz' e peen)

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:

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

1. Oxcarbazepine tablets may cause the level of sodium in your blood to be low. Symptoms of low blood sodium include:

Similar symptoms that are not related to low sodium may occur from taking oxcarbazepine tablets. You should tell your hea of these side effects and if they bother you or they do not go away. Some other medicines can also cause low sodium in your blood. Be sure to tell your healthcare provider about all the other medici Your healthcare provider may do blood tests to check your sodium levels during your treatment with oxcarbazepine tablets. around your eyes

Oxcarbazepine tablets may also cause allergic reactions or serious problems which may affect organs and other frequent infections or infections that do not go away painful sores in the mouth or a
yellowing of your skin or eyes unusual bruising or bleeding severe fatigue or weakness Call your healthcare provider right away if you have any of the following: 2. 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. swelling of your face, eyes, lips, or tongue trouble swallowing or breathing fever, swollen glands, or sore throat that do not go away or come and go a skin rash

Many people who are allergic to carbamazepine are also allergic to oxcarbazepine tablets. Tell your healthcare provider if you are allergic to carbamazepine.

Like other antiepileptic drugs (AEDs), oxcarbazepine tablets may cause suicidal thoughts or actions in a very small number of people, about 1 in Call a healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:

an extreme increase in activity and talking (mania) other unusual changes in behavior or mood acting aggressive, being angry, or violent acting on dangerous impulses new or worse irritability thoughts about suicide or dying attempts to commit suicide new or worse depression new or worse anxiety

How can I watch for early symptoms of suicidal thoughts and actions? feeling agitated or restless

Bronchitis

Skin and append

Abnormal vision

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. 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.

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 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). Do not stop taking ox carbazepine tablets without first talking to a healthcare provider.

Oxcarbazepine tablets are a prescription medicine used:

alone or with other medicines to treat partial-onset seizures in adults What are oxcarbazepine tablets?

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

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.

Do not take oxcarbazepine tablets if you are allergic to oxcarbazepine or any of the other ingredients in oxcarbazepine tablets, or to eslicarbazepine acetate. See the end of this Medication Guide for a complete list of ingredients in oxcarbazepine tablets.

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
have liver problems
have kidney problems

 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. 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 nlan to hard and to hard an another and a safety of an are breastfeeding or nlan to hard an another and a safety of an are breastfeeding or nlan to hard an another and a safety of an are breastfeeding or nlan to hard a safety of an are breastfeeding or nlan to hard a safety of an are breastfeeding or nlan to hard a safety of an are breastfeeding or nlan to hard a safety of a safety of an are breastfeeding or nlan to hard a safety of a safet are allergic to carbamazepine. Many people who are allergic to carbamazepine are also allergic to oxcarbazepine tablets. use birth control medicine. Oxcarbazepine tablets may cause your birth control medicine to be less effective. Talk to your healthcare provider about the best

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.

Artwork information				
Customer	Camber	Market	USA	
Dimensions (mm)	330 x 800 mm	Non Printing Colors	Die cut	
Pharma Code No.	Front-962 & Back-963			
Printing Colours	Black			
Others: Pharma code based on fold	position and Orientation	on are tentative, will be	changed	

When pregnant rats were given oxcarbazepine (0, 30, 300, or 1000 mg/kg/day) orally throughout the period of organogenesis, increased incidences of fetal malformations (craniofacial, cardiovascular, and skeletal) and variations were observed at the intermediate and high doses (approximately 1.2 and 4 times, $respectively, the \, MRHD \, on \, a \, mg/m^2 \, basis). \, Increased \, embryofetal \, death \, and \, decreased \, fetal \, body \, weights \, decreased \, fetal \, body \, weights \, decreased \, fetal \, body \, decreased \, decrea$ 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 maternal

In a study in which pregnant rabbits were orally administered MHD (0, 20, 100, or 200 mg/kg/day) during organogenesis, embryofetal mortality was increased at the highest dose (1.5 times the MRHD on a mg/m basis). This dose produced only minimal maternal toxicity.

In a study in which female rats were dosed orally with oxcarbazepine (0, 25, 50, or 150 mg/kg/day) during the latter part of gestation and throughout the lactation period, 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 mg/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/m²basis).

8.2 Lactation Risk Summary

Oxcarbazepine and its active metabolite (MHD) are present in human milk after oxcarbazepine 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 $\frac{1}{2}$ infant from oxcarbazepine or from the underlying maternal condition 8.3 Females and Males of Reproductive Potential

Contraception Use of oxcarbazepine with hormonal contraceptives containing ethinylestradiol or levonorgestrel is associated with decreased plasma concentrations of these hormones and may result in a failure of the therapeutic effect of the oral contraceptive drug. Advise women of reproductive potential taking oxcarbazepine 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)]. Oxcarbazepine is indicated for use as adjunctive therapy for partial-onset seizures in patients aged 2 to 16

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. ${\tt Oxcarbazepine}\ is\ also\ indicated\ as\ monotherapy\ for\ partial-onset\ seizures\ in\ patients\ aged\ 4\ to\ 16\ years.$

The safety and effectiveness for use as monotherapy for partial-onset seizures in pediatric patients below the age of 4 have not been established. 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), and Clinical Studies (14) 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 area under the curve (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

8.6 Renal Impairment

Dose adjustment is recommended for renally impaired patients (creatinine clearance < 30 mL/min)/see

9 DRUG ABUSE AND DEPENDENCE The abuse potential of oxcarbazenine has not been evaluated in human studies

9.3 Dependence ragastric injections of oxcarbazepine to 4 cynomolgus monkeys demonstrated no signs of physical

10 OVERDOSAGE 10.1 Human Overdose Experience Isolated cases of overdose with oxcarbazepine have been reported. The maximum dose taken was

approximately 48,000 mg. All patients recovered with symptomatic treatment. Nausea, vomiting, somnolence, aggression, agilation, hypotension, and tremor each occurred in more than one patient. Coma, confusional state, convulsion, dyscoordination, depressed level of consciousness, diplopia, dizziness, dyskinesia, dyspnea, QT prolongation, headache, miosis, nystagmus, overdose, decreased urine output, and 10.2 Treatment and Management There is no specific antidote. Symptomatic and supportive treatment should be administered as appropriate

Removal of the drug by gastric lavage and/or inactivation by administering activated charcoal should be 11 DESCRIPTION

Oxcarbazepine is an AED available as 150 mg, 300 mg, and 600 mg film-coated tablets for oral $administration. \ \ Ox carbazepine \ \ is \ \ 10,11-Dihydro-10-ox o-5 \textit{H-} dibenz [\textit{b,f}] a zepine-5-carbox amide, \ \ and \ \ its$ 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, crospovidone, hypromellose, magnesium stearate, microcrystalline cellulose, black iron oxide, iron oxide yellow, iron oxide red, polyethylene glycol, polyvinyl alcohol, talc, and titanium dioxide.

12.1 Mechanism of Action

(MHD) of oxcarbazepine (see Clinical Pharmacology (12.3)). The precise mechanism by which oxcarbazepine and MHD exert their anti-seizure effect is unknown; however, in vitro electrophysiological studies indicate that they produce blockade of voltage-sensitive sodium channels, resulting in stabilization of hyperexcited ${\sf S}$ 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

Oxcarbazenine 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 convulsive activity) was observed in the maximal electroshock test when mice and rats were treated daily for 5 days and 4 weeks, respectively, with oxcarbazenine or MHD. 12.3 Pharmacokinetics

sively metabolized to its pharmacologically active 10-monohydroxy metabolite (MHD). In a mass balance study in people, only 2% of total radioactivity in plasma was due to unchanged oxcarbazepine, with approximately 70% present as MHD, and the remainder attributable to minor metab The half-life of the parent is about 2 hours, while the half-life of MHD is about 9 hours, so that MHD is responsible for most antiepileptic activity.

After single-dose administration of oxcarbazepine tablets to healthy male volunteers under fasted conditions, the median t_{\max} was 4.5 (range, 3 to 13) hours. After single-dose administration of oxcarbazepine and the same of the same oral suspension to healthy male volunteers under fasted conditions, the median t__was 6 hours. Steady-state plasma concentrations of MHD are reached within 2 to 3 days in patients when oxcarbazepine is given twice a day. At steady state the pharmacokinetics of MHD are linear and show dose proportionality

over the dose range of 300 to 2400 mg/day. Food has no effect on the rate and extent of absorption of oxcarbazepine from oxcarbazepine 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 without food.

The apparent volume of distribution of MHD is 49 L.

alpha-1-acid glycoprotein. Metabolism and Excretion Oxcarbazepine 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). ${\tt Oxcarbazepine}\ is\ cleared\ from\ the\ body\ mostly\ in\ the\ form\ of\ metabolites\ which\ are\ predominantly\ excreted$ by the kidneys. More than 95% of the dose appears in the urine, with less than 1% as unchanged oxcarbazepine. 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 half-life of the parent is about 2 hours, while the half-life of MHD is about 9 hours.

Specific Populations Geriatrics Following administration of single (300 mg) and multiple (600 mg/day) doses of oxcarbazepine to elderly

Weight-adjusted MHD clearance decreases as age and weight increases, approaching that of adults. The mean weight-adjusted clearance in children 2 years to < 4 years of age is approximately 80% higher on average than that of adults. Therefore, MHD exposure in these children is expected to be about one-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 weightadjusted dose. As weight increases, for patients 13 years of age and above, the weight-adjusted MHD clearance is expected to reach that of adults. Pediatric Patients With Obesity A nonulation PK analysis of excarbazenine was conducted that included n = 92 obese and non-obese pediatric patients < 18 years of age to evaluate the potential impact of obesity on plasma oxcarbazepine exposures. Obesity was defined as BMI \geq 95th percentile for age and sex based on CDC 2000 growth chart

recommendations. Simulated results from this analysis suggested that the target maintenance doses for

oxcarbazepine, applied in pediatric patients ≥ 2 years of age, produced equivalent steady-state exposure of

MHD between nediatric nationts with and without obesity. This finding is consistent when using total body

weight, or when using fat-free mass in patients ≥ 3 years and total body weight in patients < 3 years in

the simulations. Dosage adjustment according to obesity status is not neces No gender-related pharmacokinetic differences have been observed in children, adults, or the elderly

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 oxcarbazepine 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: Oxcarbazepine can inhibit CYP2C19 and induce CYP3A4/5 with potentially important effects on plasma

concentrations of other drugs. In addition, several AEDs that are cytochrome P450 inducers can decrease plasma concentrations of oxcarbazepine and MHD. No autoinduction has been observed with

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cytochrome P450 enzymes responsible for the metabolism of other drugs. Results demonstrate that oxcarbazepine and its pharmacologically active 10-monohydroxy metabolite (MHD) have little or no capacity to function as inhibitors for most of the human cytochrome P450 enzymes evaluated (CYP1A2, CYP2A6 CYP2C9, CYP2D6, CYP2E1, CYP4A9, and CYP4A11) with the exception of 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-glucuronyl transferase (e.g., valproic acid, lamotrigine). n addition, oxcarbazepine and MHD induce a subgroup of the cytochrome P450 3A family (CYP3A4 and CYP3A5) responsible for the metabolism of dihydropyridine calcium antagonists, oral contraceptives and cyclosporine resulting in a lower plasma concentration of these drugs. As binding of MHD to plasma proteins is low (40%), clinically significant interactions with other drugs

Other Antienilentic Drugs Potential interactions between oxcarbazepine and other AEDs were assessed in clinical studies. The effect

of these interactions on mean AUCs and C_{min} are summarized in Table 1 (see Drug Interactions (1.1, 1.2)).				
Table 7: Summary	of Antiepi	leptic Drug Intera	ctions With Oxcarbazepine	
AED coadministered	Dose of AED (mg/day)	Oxcarbazepine dose (mg/day)	Influence of Oxcarbazepine on AED concentration (mean change, 90% confidence interval)	Influence of AED or MHD concentration (mean change, 90% confidence interval
Carbamazepine	400 to 2000	900	nc¹	40% decrease [Cl: 17% decrease, 57% decrease]
Phenobarbital	100 to 150	600 to 1800	14% increase (Cl: 2% increase, 24% increase)	25% decrease (Cl: 12% decrease, 51% decrease)
Phenytoin	250 to 500	600 to 1800 > 1200 to 2400	nc ^{1,2} up to 40% increase ³ [CI: 12% increase, 60% increase]	30% decrease [CI: 3% decrease, 48% decrease]
Valproic acid	400 to 2800	600 to 1800	nc¹	18% decrease [Cl: 13% decrease, 40% decrease]
Lamotrigine	200	1200	nc¹	nc¹

Abbreviations: AED, antiepileptic drugs; CI, confidence interval; MHD, 10-monohydroxy derivative. ¹nc denotes a mean change of less than 10%.

³Mean increase in adults at high oxcarbazepine doses.

In Vivo

Coadministration of oxcarbazepine with an oral contraceptive has been shown to influence the plasma concentrations of the two hormonal components: ethinylestradiol (EE) and levonorgestrel (LNG) [see Drug Interactions (7.3)]. The mean AUC values of EE were decreased by 48% [90% CI: 22 to 65] in one study and 52% [90% CI: 38 to 52] in another study. The mean AUC values of LNG were decreased by 32% [90% CI: 20 to 45] in one study and 52% [90% CI: 42 to 52] in another study. Other Drug Interactions

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

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 pharmacol 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 oxcarbazepine doses ≥ 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 wit oxcarbazepine at doses \geq 25 mg/kg/day (less than the MRHD on a mg/m 2 basis), and incidences of 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/m 2 basis) and $\,\geq\,$ 250 mg/kg/day (equivalent to the MRHD on a mg/m2 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 \geq 250 mg MHD/kg/day, and an

Oxcarbazepine increased mutation frequencies in the *in vitro* Ames test in the absence of metabolic $activation.\ Both\ oxcarbaze pine\ and\ MHD\ produced\ increases\ in\ chromosomal\ aberrations\ and\ polyploidy\ in$ 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.

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

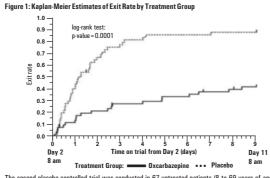
In a study in which male and female rats were administered oxcarbazepine (0, 25, 75, and 150 mg/kg/day) orally prior to and during mating and continuing in females during gestation, no adverse ance were observed. The highest dose tested is less than the MRHD on a mg/m^2 basis. In a fertility study in 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/m^2 basis). 14 CLINICAL STUDIES

The effectiveness of excarbazenine 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, The effectiveness of excarbazenine as monotherapy for partial-onset seizures in children aged 4 to 16 years

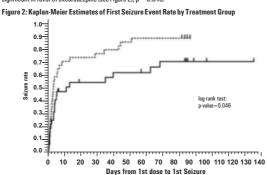
was determined from data obtained in the studies described, as well as by pharmacokinetic/ 14.1 Oxcarbazepine Monotherapy Trials Four randomized, controlled, double-blind, multicenter trials, conducted in a predominately adult population,

demonstrated 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 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 lowand 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 oxcarbazepine (see Figure 1), p = 0.0001.



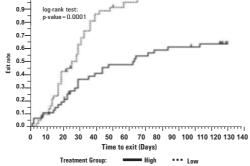
The second placebo-controlled trial was conducted in 67 untreated patients (8 to 69 years of age) with newly-diagnosed and recent-onset partial seizures. Patients were randomized to placebo or oxcarbazepine, initiated at 300 mg twice a day and titrated to 1200 mg/day (given as 600 mg twice a day) in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



A third trial substituted oxcarbazepine monotherapy at 2400 mg/day for carbamazepine in 143 patients (12 to 65 years of age) whose partial-onset seizures were inadequately controlled on carbamazepine (CBZ) monotherapy at a stable dose of 800 to 1600 mg/day, and maintained this oxcarbazepine dose for 56 days (baseline 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.

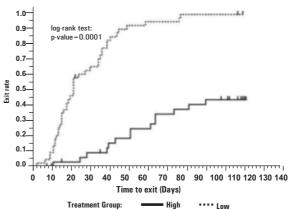
Figure 3: Kaplan-Meier Estimates of Exit Rate by Treatment Group

Treatment Group: Oxcarbazepine - - Placebo



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 doubleblind therapy. Double-blind treatment continued for another 84 days (total 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





A monotherapy trial was conducted in 92 pediatric patients (1 month to 16 years of age) with inadequatelycontrolled or new-onset partial seizures. Patients were hospitalized and randomized to either oxcarbazenine 10 mg/kg/day or were titrated up to 40 to 60 mg/kg/day within 3 days while withdrawing the previous AED or the second day of oxcarbazegine. 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 study-specific 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, service to leading retainings, including up a most treatment and assessment period, the assence or a use placeby, 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

The effectiveness of oxcarbazepine as an adjunctive therapy for partial-onset seizures was established in 2 The effectiveness of oxeroacepine as an adjunctive unetapy for partial onset sezures was established in Expension 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, agestratified, parallel-group study comparing 2 doses of oxcarbazepine in 128 pediatric patients (1 month to < 4

14.2 Oxcarbazepine Adjunctive Therapy Trials

Patients in the 2 placebo-controlled trials were on 1 to 3 concomitant AEDs. In both of the trials, patients 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 intolerance 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 partialonset 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 highdoes group in the study in adults, over 65% of patients 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
1 (pediatrics)	Oxcarbazepine	136	12.5	34.8 ¹
i (peulatrics)	Placebo	128	13.1	9.4
	Oxcarbazepine 2400 mg/day	174	10.0	49.9 ¹
2 (-4-4-)	Oxcarbazepine 1200 mg/day	177	9.8	40.21
2 (adults)	Oxcarbazepine 600 mg/day	168	9.6	26.4 ¹
	Placebo	173	8.6	7.6

= number of seizures per 28 days.

Subset analyses of the antiepileptic efficacy of oxcarbazepine with regard to gender in these trials revealed no important differences in response between men and women. Because there were very few patients over the age of 65 years in controlled trials, the effect of the drug in the elderly has not been adequately assessed. The third adjunctive therapy trial enrolled 128 pediatric patients (1 month to < 4 years of age) with nadequately-controlled partial-onset seizures on 1 to 2 concomitant AEDs. Patients who experienced at leas $2\ study-specific seizures\ (i.e., electrographic partial-onset seizures with a behavioral correlate)\ during the 72-hour baseline period were randomly assigned to either oxcarbazepine 10\ mg/lkg/day or were titrated up to 60-like the control of the control o$ mg/kg/day within 26 days. Patients were maintained on their randomized target dose for 9 days and seizures video.FFG monitoring during the last 72 h 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 mglkglday. 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

arbazepine Tablets, USP are provided as:	
mg Film-Coated Tablets: Brown colored, oval sha side and '7' and '6' on another side separated by a	aped, biconvex, film coated tablets debossed with 'V' on
le of 100	NDC 31722-023-01
le of 500	NDC 31722-023-05
le of 1000	NDC 31722-023-10
on of 100 (10x10) unit-dose Tablets	NDC 31722-023-31
mg Film-Coated Tablets: Brown colored, oval sha	aped, biconvex, film coated tablets debossed with 'V' on
side and '7' and '7' on another side separated by a score line (functional scoring) on both sides.	
tle of 100	NDC 31722-024-01
tle of 500	NDC 31722-024-05
le of 1000	NDC 31722-024-10
on of 100 (10x10) unit-dose Tablets	NDC 31722-024-31
mg Film-Coated Tablets: Brown colored, oval shaped, biconvex, film coated tablets debossed with 'V' on	
side and '7' and '8' on another side separated by a score line (functional scoring) on both sides.	
le of 100	NDC 31722-025-01
le of 500	NDC 31722-025-05

NDC 31722-025-10 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).

 $\label{prop:continuous} \textbf{Advise the patient to read the FDA-approved patient labeling (Medication Guide)}.$ Administration Information Counsel patients that oxcarbazepine tablets may be taken with or without food.

17 PATIENT COUNSELING INFORMATION

Advise patients that oxcarbazepine tablets may reduce the serum sodium concentrations especially if they $are \ taking \ other \ medications \ that \ can \ lower \ so dium. Instruct \ patients \ to \ report \ symptoms \ of \ low \ so dium \ like \ patients \ to \ report \ symptoms \ of \ low \ so dium \ like \ patients \ to \ report \ symptoms \ of \ low \ so \ dium \ like \ patients \ to \ report \ symptoms \ of \ low \ so \ dium \ like \ patients \ p$ 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)!. $\underline{Cross\,Hypersensitivity\,Reaction\,to\,Carbamazepine}$

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

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 physician immediately [see Warnings and Precautions [5.4]]. Suicidal Behavior and Ideation 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 emergence 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,

ataxia, 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

 $\underline{\textbf{Multi-Organ Hypersensitivity}}\\ \textbf{Instruct patients that a fever associated with other organ system involvement (e.g., rash, lymphadenopathy, and long the latter of the latter of$ hepatic dysfunction) may be drug-related and should be reported to their healthcare provider immediately (see Warnings and Precautions (5.8)1.

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))

Drug Interactions 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 additive sedative effect

Pregnancy Registry Encourage 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 AEDs during pregnancy [see Use in Specific Populations (8.1)].



Piscataway, NJ 08854 Rv. Annora Pharma Pvt 1td Sangareddy - 502313, Telangana, India.

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ox carbazepine tablets to take.

Take oxcarbazepine tablets 2 times a day.
Take oxcarbazepine tablets with or without food.

What should lavoid while taking oxcarbazepine tablets?

If you take too much oxcarbazepine, call your healthcare provider right away

Take oxcarbazepine tablets exactly as prescribed. Your healthcare provider may change your dose. Your healthcare provider will tell you how many

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 stop taking oxcarbazepine tablets without talking to your healthcare provider. Stopping oxcarbazepine tablets suddenly can cause serious problems, including seizures that will not stop (status epilepticus).

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.

See "What is the most important information I should know about oxcarbazepine tablets?" Oxcarbazepine tablets may cause other serious side effects, including:

 $What are the possible side effects of oxcarbaze pine \ tablets?$

problems with your speech and language

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?"

The most common side effects of oxcarbazepine tablets include:

problems with vision

seizures that can happen more often or become worse, especially in children

trouble with walking and coordination

feeling sleepy and tired

double vision

tiredness

rasn

problems with walking and coordination (unsteadiness)

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

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

How should I store oxcarbazepine tablets?

86°F). Keep oxcarbazepine tablets film-coated tablets dry.

Keep oxcarbazepine tablets and all medicines out of the reach of children Store oxcarbazepine film-coated tablets at room temperature between 20°C to 25°C (68°F to 77°F), excursions permitted between 15°C to 30°C (59°F to

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. They may harm them.

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

What are the ingredients in oxcarbazepine tablets?

Active ingredient: oxcarbazepine

Inactive ingredients: colloidal silicon dioxide, crospovidone, hypromellose, magnesium stearate, microcrystalline cellulose, black iron oxide, iron oxide yellow iron oxide red, polyethylene glycol, polyvinyl alcohol, talc, and titanium dioxide.

age-related reductions in creatinine clearance. Close monitoring of sodium levels is required in elderly patients at risk for hyponatremia (see Warnings and Precautions (5.1)). Dosage and Administration (2.7) and Clinical Pharmacology (12.3)]. dependence as measured by the desire to self-administer oxcarbazepine by lever pressing activity.

12 CLINICAL PHARMACOLOGY The pharmacological activity of oxcarbazepine is primarily exerted through the 10-monohydroxy metabolite

Following oral administration of oxcarbazepine tablets, oxcarbazepine is completely absorbed and Based on MHD concentrations, oxcarbazepine tablets and suspension were shown to have similar

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

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

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

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