

Lamictal™ tablets and liqutabs



Lamotrigine

QUALITATIVE AND QUANTITATIVE COMPOSITION

One tablet of the preparation LAMICTAL contains 25 mg, 50 mg or 100 mg of Lamotrigine respectively.
One Liqutab of the preparation LAMICTAL contains 2 mg, 5 mg, 25 mg, 50 mg, 100 mg or 200 mg of Lamotrigine respectively.

PHARMACEUTICAL FORM

LAMICTAL tablets: light yellow tablets, square of rounded corners, of one surface multiphase, and the other one flat with an engraving; tablets: 25 mg "G5C67" on one side and "25T" on the other; tablets 50 mg "G5EE1" on one side and "50T" on the other; tablets 100 mg "G5EE5" on one side and "100T" on the other, respectively.
LAMICTAL Liqutabs 2 mg: round, white or almost white tablets, on one side the edges are cutasant, with an engraving "LTG 2" on the other there are two ellipses engraved, which cross perpendicularly.
LAMICTAL Liqutabs 5 mg: white tablets, hexagon, oblong, with an engraving "G5L2T" on one side and "5" on the other.
LAMICTAL Liqutabs 25 mg, 50 mg, 100 mg and 200 mg: white tablets, square of rounded corners, of one surface multiphase and the other one flat, with an engraving; tablets 25 mg: "G5GL5" on one side and "25" on the other; tablets 50 mg: "G5C9T" on one side and "50" on the other; tablets 100 mg: "G5CL7" on one side and "100" on the other; tablets 200 mg: "G5CES" on one side and "200T" on the other.

CLINICAL PARTICULARS

Indications

EPILEPSY

Adults and children over 12 years of age

The preparation LAMICTAL is an antiepileptic drug used in monotherapy of:
• partial simple and complex seizures,
• generalized seizures (including tonic-clonic seizures with primary and secondary generalization).

Adults and children over 2 years of age

The preparation LAMICTAL is indicated in the combined treatment (with other antiepileptic drugs) of:
• partial simple and complex seizures,
• generalized seizures (including tonic-clonic seizures with primary and secondary generalization).
The preparation LAMICTAL is also indicated in the treatment of epileptic seizures related to the Lennox-Gastaut syndrome. Tablets containing 2 mg and 5 mg of lamotrigine are indicated solely in the treatment of epilepsy. Initial monotherapy treatment in newly diagnosed paediatric patients from 2 to 12 years of age is not recommended.

BIPOLAR DISORDER

Adults (16 years of age and over)

LAMICTAL is indicated in the prophylaxis of bipolar affective disorders, especially in the prevention of depressive episodes recurrence.
Tablets containing 2 mg and 5 mg of lamotrigine are not indicated in the prophylaxis of bipolar affective disorders.

Dosage and Administration

LAMICTAL Tablets should be swallowed whole with a little water.
LAMICTAL Liqutabs may be chewed, dispersed in a small volume of water (at least enough to cover the whole tablet) or swallowed whole with a little water.

If a calculated dose of LAMICTAL (e.g. for use in children (epilepsy only) or patients with hepatic impairment) cannot be divided into multiple lower strength tablets, the dose to be administered is that equal to the nearest lower strength of white tablets.

Restarting Therapy

Prescribers should assess the need for escalation to maintenance dose when restarting LAMICTAL in patients who have discontinued LAMICTAL for any reason, since the risk of serious rash is associated with high initial doses and exceeding the recommended dose escalation for LAMICTAL (see Warnings and Precautions). The greater the interval of time since the previous treatment the more consideration should be given to escalation to the maintenance dose. When the interval since discontinuing LAMICTAL exceeds five half-lives (see Pharmacokinetics), LAMICTAL should generally be escalated to the maintenance dose according to the appropriate schedule. It is recommended that LAMICTAL not be restarted in patients who have discontinued due to rash associated with prior treatment with LAMICTAL unless the potential benefit clearly outweighs the risk.

EPILEPSY

When concomitant antiepileptic drugs are withdrawn to achieve LAMICTAL monotherapy or other AEDs are added-on to treatment regimes containing lamotrigine, consideration should be given to the effect this may have on lamotrigine pharmacokinetics (see Interactions).

DOSE IN EPILEPSY MONOTHERAPY

Adults (over 12 years of age)

The initial LAMICTAL dose in monotherapy is 25 mg once a day for two weeks, followed by 50 mg once a day for two weeks. Thereafter, the dose should be increased by a maximum of 50 to 100 mg every one to two weeks until the optimal response is achieved. The usual maintenance dose to achieve optimal response is 100 to 200 mg/day given once a day or as two divided doses. Some patients have required 500 mg/day of LAMICTAL to achieve the desired response. Because of a risk of rash the initial dose and subsequent dose escalation should not be exceeded (see Precautions and Warnings).

It is not recommended to use monotherapy with the preparation LAMICTAL in newly diagnosed epilepsy in children from 2 to 12 years of age.

DOSE IN EPILEPSY ADD-ON THERAPY

Adults (over 12 years of age)

In patients taking valproate without any other AED, the initial LAMICTAL dose is 25 mg every alternate day for two weeks, followed by 50 mg every one to two weeks. Thereafter, the dose should be increased by a maximum of 25 to 50 mg every one to two weeks until the optimal response is achieved. The usual maintenance dose to achieve optimal response is 100 to 200 mg/day given once a day or in two divided doses.

In these patients taking concomitant AEDs or other medications (see Interactions) that induce lamotrigine glucuronidation without other AEDs (except valproate), the initial LAMICTAL dose is 50 mg once a day for two weeks, followed by 100 mg/day given in two divided doses for two weeks.

Thereafter, the dose should be increased by a maximum of 100 mg every one to two weeks until the optimal response is achieved. The usual maintenance dose to achieve optimal response is 200 to 400 mg/day given in two divided doses. Some patients have required 700 mg/day of LAMICTAL to achieve the desired response.

In these patients taking carbamazepine without any other inducers or inhibitors of lamotrigine glucuronidation, the initial LAMICTAL dose is 25 mg once a day for two weeks, followed by 50 mg once a day for two weeks. Thereafter, the dose should be increased by a maximum of 50 to 100 mg every one to two weeks until the optimal response is achieved. The usual maintenance dose to achieve optimal response is 100 to 200 mg/day given once a day or as two divided doses.

In patients taking carbamazepine with other inducers or inhibitors of lamotrigine glucuronidation (see Interactions), the initial LAMICTAL dose is 50 mg once a day for two weeks, followed by 100 mg/day given in two divided doses for two weeks.

Thereafter, the dose should be increased by a maximum of 100 mg every one to two weeks until the optimal response is achieved. The usual maintenance dose to achieve optimal response is 200 to 400 mg/day given in two divided doses. Some patients have required 700 mg/day of LAMICTAL to achieve the desired response.

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The initial LAMICTAL dose is 50 mg once a day for two weeks, followed by 100 mg/day given in two divided doses for two weeks. Thereafter, the dose should be increased to 200 mg/day given in two divided doses in week 5. The dose may be increased in week 6 to 300 mg/day given as two divided doses however, the usual target dose to achieve optimal response is 400 mg/day given in two divided doses. Lamotrigine may be given from week 7.

c) Monotherapy with LAMICTAL OR Adjunctive therapy in patients taking lithium, bupropion, olanzapine, oxcarbazepine, or other agents known not to significantly induce or inhibit lamotrigine glucuronidation. The initial LAMICTAL dose is 25 mg once a day for two weeks, followed by 50 mg once a day (or in two divided doses) for two weeks. The usual target dose to achieve optimal response is 200 mg/day given once a day or as two divided doses. However, a range of 100 to 400 mg was used in clinical trials.

Once the target daily maintenance stabilisation dose has been achieved, other psychotropic medications may be withdrawn as listed out in the dosing schedule below.

Table 4: Maintenance stabilisation total daily dose in BIPOLAR DISORDER following withdrawal of concomitant psychotropic or antiepileptic drugs

Treatment regimen	Week 1	Week 2	Week 3 onwards*
(a) Following withdrawal of inhibitors of lamotrigine glucuronidation e.g. Valproate	Double the dose which supports stabilisation, but by not more than 100 mg within a week. i.e. 100 mg/day target stabilisation dose will be increased in week 1 to 200 mg/day	Maintain this dose (200 mg/day) (two divided doses)	

(b) Following withdrawal of inducers of lamotrigine glucuronidation depending on original dose. This dosage regimen should be used with: Phenytoin Carbamazepine Phenobarbitone Primidone Or with other inducers of lamotrigine glucuronidation (see Interactions)	400 mg 300 mg 200 mg	300 mg 225 mg 150 mg	200 mg 150 mg 100 mg
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(c) Following withdrawal of other AED drugs or AED drugs in patients not taking significant inducers or inhibitors of lamotrigine glucuronidation (including lithium salts, bupropion, olanzapine, oxcarbazepine)	Maintain target dose achieved in dose escalation (200 mg/day)		
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NOTE: In patients taking psychotropic drugs where the pharmacokinetic interaction with LAMICTAL is currently not known, the treatment regimen as recommended for LAMICTAL with concurrent valproate, should be used.

* Dose may be increased to 400 mg/day as needed.

(a) Following withdrawal of adjunct therapy with inhibitors of lamotrigine glucuronidation e.g. valproate
The dose of LAMICTAL should be increased to double the original target stabilisation dose and maintained at this, once valproate has been terminated.

(b) Following withdrawal of adjunct therapy with inducers of lamotrigine glucuronidation depending on original maintenance dose. This dosage regimen should be used with Phenytoin, Carbamazepine, Phenobarbitone, Primidone or other drugs known to induce LAMICTAL glucuronidation (see Interactions).

The dose of LAMICTAL should be gradually reduced over three weeks as the glucuronidation inducer is withdrawn.

(c) Following withdrawal of adjunct therapy with other psychotropic or antiepileptic drugs with no significant pharmacokinetic interaction with LAMICTAL e.g. lithium salts, bupropion, olanzapine, oxcarbazepine.

The target dose achieved in the dose escalation programme should be maintained throughout withdrawal of the other medication.

Adjustment of LAMICTAL daily dosing in patients with BIPOLAR DISORDER following addition of other medications
There is no clinical experience in adjusting the LAMICTAL daily dose following the addition of other medications. However, based on drug interaction studies, the following recommendations can be made (see Table 5, below).

Table 5: Adjustment of LAMICTAL daily dosing in patients with BIPOLAR DISORDER following the addition of other medications

Treatment regimen	Current LAMICTAL Stabilisation dose (mg/day)	Week 1	Week 2	Week 3 onwards
(a) Addition of inhibitors of lamotrigine glucuronidation e.g. Valproate, depending on original dose of LAMICTAL	200 mg 300 mg 400 mg	100 mg 150 mg 200 mg	Maintain this dose (100 mg/day) Maintain this dose (150 mg/day) Maintain this dose (200 mg/day)	

(b) Addition of inducers of lamotrigine glucuronidation in patients NOT taking valproate and depending on original dose of LAMICTAL. This dosage regimen should be used with: Phenytoin Carbamazepine Phenobarbitone Primidone Or with other inducers of lamotrigine glucuronidation (see Interactions)	200 mg	200 mg 300 mg 400 mg		
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(c) Addition of other psychotropic or AED drugs with no significant pharmacokinetic interaction with LAMICTAL e.g. lithium salts, bupropion, olanzapine, oxcarbazepine	Maintain target dose achieved in dose escalation (200 mg/day)			
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NOTE: In patients taking psychotropic drugs where the pharmacokinetic interaction with LAMICTAL is currently not known, the treatment regimen as recommended for LAMICTAL with concurrent valproate, should be used.

Discontinuation of LAMICTAL in Patients With Bipolar Disorder

In clinical trials, there was no increase in the incidence, severity or type of adverse experiences following abrupt termination of LAMICTAL versus placebo. Therefore, patients may terminate LAMICTAL without a step-wise reduction of dose.

Children (less than 18 years of age)
Safety and efficacy of LAMICTAL in bipolar disorder has not been evaluated in this age group. Therefore, LAMICTAL is not indicated in the treatment of bipolar affective disorders in children less than 18 years of age.

GENERAL DOSING RECOMMENDATIONS FOR LAMICTAL IN SPECIAL PATIENT POPULATIONS

Women taking hormonal contraceptives

(a) Starting LAMICTAL in patients already taking hormonal contraceptives:
Although an oral contraceptive has been shown to decrease the clearance of lamotrigine (see Warnings and Precautions and Interactions), no adjustments to the recommended dose escalation guidelines for LAMICTAL should be necessary solely based on the use of hormonal contraceptives. Dose escalation should follow the recommended guidelines based on whether lamotrigine is added to an inhibitor of lamotrigine glucuronidation e.g. valproate, whether LAMICTAL is added to an inducer of lamotrigine glucuronidation e.g. carbamazepine, phenytoin, phenobarbitone, primidone or rifampicin, or whether LAMICTAL is added in the absence of valproate, carbamazepine, phenytoin, phenobarbitone, primidone or rifampicin (see Table 1 for epilepsy and Table 3 for bipolar patients).

(b) Starting hormonal contraceptives in patients already taking maintenance doses of LAMICTAL and NOT taking inducers of lamotrigine glucuronidation:
The maintenance dose of LAMICTAL may need to be increased by as much as two-fold according to the individual clinical response (see Warnings and Precautions & Interactions).

(c) Stopping hormonal contraceptives in patients already taking maintenance doses of LAMICTAL and NOT taking inducers of lamotrigine glucuronidation:
The maintenance dose of LAMICTAL may need to be decreased by as much as 50% according to the individual clinical response (see Warnings and Precautions & Interactions).

Elderly (over 65 years of age)
No dosage adjustment from recommended schedule is required. The pharmacokinetics of LAMICTAL in this age group do not differ significantly from a non-elderly adult population.

Hepatic impairment

Initial, escalation and maintenance doses should generally be reduced by approximately 50% in patients with moderate (Child-Pugh grade B) and 75% in patients with severe (Child-Pugh grade C) hepatic impairment. Escalation and maintenance doses should be adjusted according to clinical response (see Pharmacokinetics).

Renal impairment

Caution should be exercised when administering LAMICTAL to patients with renal failure. For patients with end-stage renal disease, the maintenance dose of LAMICTAL should be based on the individual patient's clinical response.

Caution should be exercised when treating patients with a history of allergy or rash to other antiepileptic drugs as the frequency of non-serious rash after treatment with LAMICTAL was approximately three times higher in these patients than in those without such history.

Children (adults and children) who develop a rash should be promptly evaluated and LAMICTAL withdrawn immediately unless the rash is clearly not drug related. It is recommended that LAMICTAL not be restarted in patients who have discontinued due to rash associated with prior treatment with LAMICTAL unless the potential benefit clearly outweighs the risk.

Rash has also been reported as part of a hypersensitivity syndrome associated with a variable pattern of systemic symptoms including fever, lymphadenopathy, facial oedema and abnormalities of the blood and liver and aseptic meningitis (see Adverse Reactions). The syndrome shows a wide spectrum of clinical severity and may, rarely, lead to disseminated intravascular coagulation (DIC) and multiorgan failure. 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 and symptoms are present the patient should be evaluated immediately and LAMICTAL discontinued if an alternative aetiology cannot be established. Severe aseptic meningitis may be reversible on withdrawal of the drug in most cases, but occurred in a number of cases in re-exposure to lamotrigine. Re-exposure resulted in a rapid return of symptoms that were frequently more severe. Lamotrigine should not be restarted in patients who have discontinued due to aseptic meningitis associated with prior treatment of lamotrigine.

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