LAMICTAL- lamotrigine tablet LAMICTAL- lamotrigine tablet, for suspension LAMICTAL ODT- lamotrigine tablet, orally disintegrating LAMICTAL- lamotrigine LAMICTAL ODT- lamotrigine GlaxoSmithKline LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use LAMICTAL safely and effectively. See full prescribing information for LAMICTAL.

LAMICTAL (lamotrigine) tablets, for oral use LAMICTAL (lamotrigine) tablets for oral suspension LAMICTAL ODT (lamotrigine) orally disintegrating tablets, for oral use Initial U.S. Approval: 1994

WARNING: SERIOUS SKIN RASHES

See full prescribing information for complete boxed warning.

- Cases of life-threatening serious rashes, including Stevens-Johnson syndrome and toxic epidermal necrolysis, and/or rash-related death have been caused by lamotrigine. The rate of serious rash is greater in pediatric patients than in adults. Additional factors that may increase the risk of rash include:
 - coadministration with valproate.
 - exceeding recommended initial dose of LAMICTAL.
 - exceeding recommended dose escalation for LAMICTAL. (5.1)
- Benign rashes are also caused by lamotrigine; however, it is not possible to predict which rashes will prove to be serious or life threatening. LAMICTAL should be discontinued at the first sign of rash, unless the rash is clearly not drug related. (5.1)

RECENT MAJOR CHANGES

Dosage and Administration (2.1, 2.2, 2.4)	4/2025
Warnings and Precautions, Concomitant Use with Estrogen-Containing Products, Including Oral Contraceptives (5.9)	4/2025 4/2025
Sudden Unexplained Death in Epilepsy (5.12) – removal	.,

LAMICTAL is indicated for:

Epilepsy—adjunctive therapy in patients aged 2 years and older:

- partial-onset seizures.
- primary generalized tonic-clonic (PGTC) seizures.
- generalized seizures of Lennox-Gastaut syndrome. (1.1)

<u>Epilepsy</u>—monotherapy in patients aged 16 years and older: Conversion to monotherapy in patients with partial-onset seizures who are receiving treatment with carbamazepine, phenytoin, phenobarbital, primidone, or valproate as the single antiepileptic drug. (1.1)

<u>Bipolar disorder:</u> Maintenance treatment of bipolar I disorder to delay the time to occurrence of mood episodes in patients treated for acute mood episodes with standard therapy. (1.2)

Limitations of Use: Treatment of acute manic or mixed episodes is not recommended. Effectiveness of LAMICTAL in the acute treatment of mood episodes has not been established.

Dosing is based on concomitant medications, indication, and patient age. (2.1, 2.2, 2.3, 2.4)

Dosing is based on concompany medications, indication, and patient age. (2.1, 2.2, 2.3, 2.4)
 To avoid an increased risk of rash, the recommended initial dose and subsequent dose escalations should not be exceeded. LAMICTAL Starter Kits and LAMICTAL ODT Patient Titration Kits are available for the first 5 weeks of treatment. (2.1, 16)

------ DOSAGE AND ADMINISTRATION ------

- Do not restart LAMICTAL in patients who discontinued due to rash unless the potential benefits clearly outweigh the risks. (2.1, 5.1)
- Adjustments to maintenance doses will be necessary in most patients starting or stopping estrogencontaining products, including oral contraceptives. (2.1, 5.9)
- Discontinuation: Taper over a period of at least 2 weeks (approximately 50% dose reduction per week). (2.1, 5.10)

Epilepsy:

- Adjunctive therapy—See Table 1 for patients older than 12 years and Tables 2 and 3 for patients aged 2 to 12 years. (2.2)
- Conversion to monotherapy—See Table 4. (2.3)

Bipolar disorder: See Tables 5 and 6. (2.4)

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- Tablets: 25 mg, 100 mg, 150 mg, and 200 mg; scored. (3.1, 16)
- Tablets for oral suspension: 2 mg, 5 mg, and 25 mg. (3.2, 16)
- Orally disintegrating tablets: 25 mg, 50 mg, 100 mg, and 200 mg. (3.3, 16)

------ WARNINGS AND PRECAUTIONS ------

- Life-threatening serious rash and/or rash-related death: Discontinue at the first sign of rash, unless the rash is clearly not drug related. (Boxed Warning, 5.1)
- Hemophagocytic lymphohistiocytosis: Consider this diagnosis and evaluate patients immediately if they develop signs or symptoms of systemic inflammation. Discontinue LAMICTAL if an alternative etiology is not established. (5.2)
- Fatal or life-threatening hypersensitivity reaction: Multiorgan hypersensitivity reactions, also known as drug reaction with eosinophilia and systemic symptoms, may be fatal or life threatening. Early signs may include rash, fever, and lymphadenopathy. These reactions may be associated with other organ involvement, such as hepatitis, hepatic failure, blood dyscrasias, or acute multiorgan failure. LAMICTAL should be discontinued if alternate etiology for this reaction is not found. (5.3)
- Cardiac rhythm and conduction abnormalities: Based on in vitro findings, LAMICTAL could cause serious arrhythmias and/or death in patients with certain underlying cardiac disorders or arrhythmias. Any expected or observed benefit of LAMICTAL in an individual patient with clinically important structural or functional heart disease must be carefully weighed against the risk for serious arrythmias and/or death for that patient. (5.4)
- Blood dyscrasias (e.g., neutropenia, thrombocytopenia, pancytopenia): May occur, either with or without an associated hypersensitivity syndrome. Monitor for signs of anemia, unexpected infection, or bleeding. (5.5)
- Suicidal behavior and ideation: Monitor for suicidal thoughts or behaviors. (5.6)
- Aseptic meningitis: Monitor for signs of meningitis. (5.7)
- Medication errors due to product name confusion: Strongly advise patients to visually inspect tablets to verify the received drug is correct. (5.8, 16, 17)

 ADVERSE REACTIONS

 Epilepsy:
 Most common adverse reactions (incidence ≥10%) in adults were dizziness, headache, diplopia, ataxia, nausea, blurred vision, somnolence, rhinitis, pharyngitis, and rash. Additional adverse reactions (incidence ≥10%) reported in children included vomiting, infection, fever, accidental injury, diarrhea, abdominal pain, and tremor. (6.1)

 Bipolar disorder:
 Most common adverse reactions (incidence >5%) in adults were nausea, insomnia, somnolence, back pain, fatigue, rash, rhinitis, abdominal pain, and xerostomia. (6.1)

 To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or

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

DRUG INTERACTIONS

- Valproate increases lamotrigine concentrations more than 2-fold. (7, 12.3)
- Carbamazepine, phenytoin, phenobarbital, primidone, and rifampin decrease lamotrigine concentrations by approximately 40%. (7, 12.3)
- Estrogen-containing oral contraceptives decrease lamotrigine concentrations by approximately 50%. (7, 12.3)
- Protease inhibitors lopinavir/ritonavir and atazanavir/lopinavir decrease lamotrigine exposure by approximately 50% and 32%, respectively. (7, 12.3)
- Coadministration with organic cationic transporter 2 substrates with narrow therapeutic index is not recommended (7, 12.3)
- - Pregnancy: Based on animal data may cause fetal harm. (8.1)
 - Hepatic impairment: Dosage adjustments required in patients with moderate and severe liver impairment. (2.1, 8.6)
 - Renal impairment: Reduced maintenance doses may be effective for patients with significant renal impairment. (2.1, 8.7)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 4/2025

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FULL PRESCRIBING INFORMATION

WARNING: SERIOUS SKIN RASHES

LAMICTAL can cause serious rashes requiring hospitalization and discontinuation of treatment. The incidence of these rashes, which have included Stevens-Johnson syndrome, is approximately 0.3% to 0.8% in pediatric patients (aged 2 to 17 years) and 0.08% to 0.3% in adults receiving LAMICTAL. One rash-related death was reported in a prospectively followed cohort of 1,983 pediatric patients (aged 2 to 16 years) with epilepsy taking LAMICTAL as adjunctive therapy. In worldwide postmarketing experience, rare cases of toxic epidermal necrolysis and/or rash-related death have been reported in adult and pediatric patients, but their numbers are too few to permit a precise estimate of the rate.

Other than age, there are as yet no factors identified that are known to predict the risk of occurrence or the severity of rash caused by LAMICTAL. There are suggestions, yet to be proven, that the risk of rash may also be increased by (1) coadministration of LAMICTAL with valproate (includes valproic acid and divalproex sodium), (2) exceeding the recommended initial dose of LAMICTAL, or (3) exceeding the recommended dose escalation for LAMICTAL. However, cases have occurred in the absence of these factors.

Nearly all cases of life-threatening rashes caused by LAMICTAL have occurred within 2 to 8 weeks of treatment initiation. However, isolated cases have occurred after prolonged treatment (e.g., 6 months). Accordingly, duration of therapy cannot be relied upon as means to predict the potential risk heralded by the first appearance of a rash.

Although benign rashes are also caused by LAMICTAL, it is not possible to predict reliably which rashes will prove to be serious or life threatening. Accordingly, LAMICTAL should ordinarily be discontinued at the first sign of rash, unless the rash is clearly not drug related. Discontinuation of treatment may not prevent a rash from becoming life threatening or permanently disabling or disfiguring [see Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE

1.1 Epilepsy

Adjunctive Therapy

LAMICTAL is indicated as adjunctive therapy for the following seizure types in patients aged 2 years and older:

- partial-onset seizures.
- primary generalized tonic-clonic (PGTC) seizures.
- generalized seizures of Lennox-Gastaut syndrome.

<u>Monotherapy</u>

LAMICTAL is indicated for conversion to monotherapy in adults (aged 16 years and older) with partial-onset seizures who are receiving treatment with carbamazepine, phenytoin, phenobarbital, primidone, or valproate as the single antiepileptic drug (AED).

Safety and effectiveness of LAMICTAL have not been established (1) as initial monotherapy; (2) for conversion to monotherapy from AEDs other than carbamazepine, phenytoin, phenobarbital, primidone, or valproate; or (3) for simultaneous conversion to monotherapy from 2 or more concomitant AEDs.

1.2 Bipolar Disorder

LAMICTAL is indicated for the maintenance treatment of bipolar I disorder to delay the time to occurrence of mood episodes (depression, mania, hypomania, mixed episodes) in patients treated for acute mood episodes with standard therapy [see Clinical Studies (14.2)].

Limitations of Use

Treatment of acute manic or mixed episodes is not recommended. Effectiveness of LAMICTAL in the acute treatment of mood episodes has not been established.

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Considerations

<u>Rash</u>

There are suggestions, yet to be proven, that the risk of severe, potentially lifethreatening rash may be increased by (1) coadministration of LAMICTAL with valproate, (2) exceeding the recommended initial dose of LAMICTAL, or (3) exceeding the recommended dose escalation for LAMICTAL. However, cases have occurred in the absence of these factors [see Boxed Warning]. Therefore, it is important that the dosing recommendations be followed closely.

The risk of nonserious rash may be increased when the recommended initial dose and/or the rate of dose escalation for LAMICTAL is exceeded and in patients with a history of allergy or rash to other AEDs.

LAMICTAL Starter Kits and LAMICTAL ODT Patient Titration Kits provide LAMICTAL at doses consistent with the recommended titration schedule for the first 5 weeks of treatment, based upon concomitant medications, for patients with epilepsy (older than 12 years) and bipolar I disorder (adults) and are intended to help reduce the potential for rash. The use of LAMICTAL Starter Kits and LAMICTAL ODT Patient Titration Kits is recommended for appropriate patients who are starting or restarting LAMICTAL [see How Supplied/Storage and Handling (16)].

It is recommended that LAMICTAL not be restarted in patients who discontinued due to rash associated with prior treatment with lamotrigine unless the potential benefits clearly outweigh the risks. If the decision is made to restart a patient who has discontinued LAMICTAL, the need to restart with the initial dosing recommendations should be assessed. The greater the interval of time since the previous dose, the greater consideration should be given to restarting with the initial dosing recommendations. If a patient has discontinued lamotrigine for a period of more than 5 half-lives, it is recommended that initial dosing recommendations and guidelines be followed. The halflife of lamotrigine is affected by other concomitant medications [see Clinical Pharmacology (12.3)].

LAMICTAL Added to Drugs Known to Induce or Inhibit Glucuronidation

Because lamotrigine is metabolized predominantly by glucuronic acid conjugation, drugs that are known to induce or inhibit glucuronidation may affect the apparent clearance of lamotrigine. Drugs that induce glucuronidation include carbamazepine, phenytoin, phenobarbital, primidone, rifampin, estrogen-containing products, including oral contraceptives, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir. Valproate inhibits glucuronidation. For dosing considerations for LAMICTAL in patients on estrogen-containing products, including contraceptives, and atazanavir/ritonavir, see below and Table 13. For dosing considerations for LAMICTAL in patients on other drugs known to induce or inhibit glucuronidation, see Tables 1, 2, 5-6, and 13.

Target Plasma Levels for Patients with Epilepsy or Bipolar Disorder

A therapeutic plasma concentration range has not been established for lamotrigine. Dosing of LAMICTAL should be based on therapeutic response [see Clinical Pharmacology (12.3)].

Women Taking Estrogen-Containing Oral Contraceptives

Starting LAMICTAL in Women Taking Estrogen-Containing Oral Contraceptives: Although estrogen-containing oral contraceptives have been shown to increase the clearance of lamotrigine [see Clinical Pharmacology (12.3)], no adjustments to the recommended dose-escalation guidelines for LAMICTAL should be necessary solely based on the use of estrogen-containing oral contraceptives. Therefore, dose escalation should follow the recommended guidelines for initiating adjunctive therapy with LAMICTAL based on the concomitant AED or other concomitant medications (see Tables 1, 5, and 7). See below for adjustments to maintenance doses of LAMICTAL in women taking estrogencontaining oral contraceptives.

Adjustments to the Maintenance Dose of LAMICTAL in Women Taking Estrogen-Containing Oral Contraceptives:

(1) Taking Estrogen-Containing Oral Contraceptives: In women not taking carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation [see Drug Interactions (7), Clinical Pharmacology (12.3)], the maintenance dose of LAMICTAL will in most cases need to be increased by as much as 2-fold over the recommended target maintenance dose to maintain a consistent lamotrigine plasma level.

(2) Starting Estrogen-Containing Oral Contraceptives: In women taking a stable dose of LAMICTAL and not taking carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation [see Drug Interactions (7), Clinical Pharmacology (12.3)], the maintenance dose will in most cases need to be increased by as much as 2-fold to maintain a consistent lamotrigine plasma level. The dose increases should begin at the same time that the oral contraceptive is introduced and continue, based on clinical response, no more rapidly than 50 to 100 mg/day every week. Dose increases should not exceed the recommended rate (see Tables 1 and 5)

unless lamotrigine plasma levels or clinical response support larger increases. Gradual transient increases in lamotrigine plasma levels may occur during the week of inactive hormonal preparation (pill-free week), and these increases will be greater if dose increases are made in the days before or during the week of inactive hormonal preparation. Increased lamotrigine plasma levels could result in additional adverse reactions, such as dizziness, ataxia, and diplopia. If adverse reactions attributable to LAMICTAL consistently occur during the pill-free week, dose adjustments to the overall maintenance dose may be necessary. Dose adjustments limited to the pill-free week are not recommended. For women taking LAMICTAL in addition to carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation, no adjustment to the dose of LAMICTAL should be necessary[*see Drug Interactions (7), Clinical Pharmacology (12.3)*].

(3) Stopping Estrogen-Containing Oral Contraceptives: In women not taking carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation [see Drug Interactions (7), Clinical Pharmacology (12.3)], the maintenance dose of LAMICTAL will in most cases need to be decreased by as much as 50% in order to maintain a consistent lamotrigine plasma level. The decrease in dose of LAMICTAL should not exceed 25% of the total daily dose per week over a 2-week period, unless clinical response or lamotrigine plasma levels indicate otherwise [see Clinical Pharmacology (12.3)]. In women taking LAMICTAL in addition to carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation [see Drug Interactions (7), Clinical Pharmacology (12.3)], no adjustment to the dose of LAMICTAL should be necessary.

Women and Other Hormonal Contraceptive Preparations or Hormone Replacement Therapy

The effect of other hormonal contraceptive preparations or hormone replacement therapy (HRT) on the pharmacokinetics of lamotrigine has not been systematically evaluated. Other-estrogen containing therapies, such as HRT, may interfere with lamotrigine. Therefore, close clinical monitoring on effectiveness of LAMICTAL with dose adjustment may be necessary [see Warnings and Precautions (5.9)]. It has been reported that ethinylestradiol, not progestogens, increased the clearance of lamotrigine up to 2-fold, and the progestin-only pills had no effect on lamotrigine plasma levels. Therefore, adjustments to the dosage of LAMICTAL in the presence of progestogens alone will likely not be needed.

Patients Taking Atazanavir/Ritonavir

While atazanavir/ritonavir does reduce the lamotrigine plasma concentration, no adjustments to the recommended dose-escalation guidelines for LAMICTAL should be necessary solely based on the use of atazanavir/ritonavir. Dose escalation should follow the recommended guidelines for initiating adjunctive therapy with LAMICTAL based on concomitant AED or other concomitant medications (see Tables 1, 2, and 5). In patients already taking maintenance doses of LAMICTAL and not taking glucuronidation inducers, the dose of LAMICTAL may need to be increased if atazanavir/ritonavir is added or decreased if atazanavir/ritonavir is discontinued [see Clinical Pharmacology (12.3)].

Patients with Hepatic Impairment

Experience in patients with hepatic impairment is limited. Based on a clinical pharmacology study in 24 subjects with mild, moderate, and severe liver impairment *[see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)]*, the following general recommendations can be made. No dosage adjustment is needed in patients with mild liver impairment. Initial, escalation, and maintenance doses should generally be reduced by approximately 25% in patients with moderate and severe liver impairment without ascites and 50% in patients with severe liver impairment with ascites. Escalation and maintenance doses may be adjusted according to clinical response.

Patients with Renal Impairment

Initial doses of LAMICTAL should be based on patients' concomitant medications (see Tables 1-3 and 5); reduced maintenance doses may be effective for patients with significant renal impairment [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)]. Few patients with severe renal impairment have been evaluated during chronic treatment with LAMICTAL. Because there is inadequate experience in this population, LAMICTAL should be used with caution in these patients.

Discontinuation Strategy

Epilepsy: For patients receiving LAMICTAL in combination with other AEDs, a reevaluation of all AEDs in the regimen should be considered if a change in seizure control or an appearance or worsening of adverse reactions is observed.

If a decision is made to discontinue therapy with LAMICTAL, a step-wise reduction of dose over at least 2 weeks (approximately 50% per week) is recommended unless safety concerns require a more rapid withdrawal [see Warnings and Precautions (5.10)].

Discontinuing carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation should prolong the half-life of lamotrigine; discontinuing valproate should shorten the half-life of lamotrigine.

Bipolar Disorder: In the controlled clinical trials, there was no increase in the incidence, type, or severity of adverse reactions following abrupt termination of LAMICTAL. In the clinical development program in adults with bipolar disorder, 2 patients experienced seizures shortly after abrupt withdrawal of LAMICTAL. Discontinuation of LAMICTAL should involve a step-wise reduction of dose over at least 2 weeks (approximately 50% per week) unless safety concerns require a more rapid withdrawal *[see Warnings and Precautions (5.10)]*.

2.2 Epilepsy—Adjunctive Therapy

This section provides specific dosing recommendations for patients older than 12 years and patients aged 2 to 12 years. Within each of these age-groups, specific dosing recommendations are provided depending upon concomitant AEDs or other concomitant medications (see Table 1 for patients older than 12 years and Table 2 for patients aged 2 to 12 years). A weight-based dosing guide for patients aged 2 to 12 years on concomitant valproate is provided in Table 3.

Patients Older than 12 Years

Recommended dosing guidelines are summarized in Table 1.

	with	n Epilepsy	Older than 12 rears
		In Patients NOT TAKING	In Patients TAKING
		Carbamazepine,	Carbamazepine,
		Phenytoin,	Phenytoin,
	In Patients	Phenobarbital,	Phenobarbital, or
	TAKING	Primidone, ^b or	Primidone ^b and NOT
	Valproate ^a	Valproate ^a	TAKING Valproate ^a
Weeks 1 and 2	25 mg everv <i>other</i>	25 mg every day	50 mg/dav

Weeks 1 and 2	25 mg every <i>other</i> day	25 mg every day	50 mg/day
Weeks 3 and 4	25 mg every day	50 mg/day	100 mg/day (in 2 divided doses)
Week 5 onward to maintenance	Increase by 25 to 50 mg/day every 1 to 2 weeks.	Increase by 50 mg/day every 1 to 2 weeks.	Increase by 100 mg/day every 1 to 2 weeks.
Usual maintenance dose	100 to 200 mg/day with valproate alone 100 to 400 mg/day with valproate and other drugs that induce glucuronidation (in 1 or 2 divided doses)	225 to 375 mg/day (in 2 divided doses)	300 to 500 mg/day (in 2 divided doses)

^a Valproate has been shown to inhibit glucuronidation and decrease the apparent clearance of lamotrigine [see Drug Interactions (7), Clinical Pharmacology (12.3)]. ^b Drugs that induce lamotrigine glucuronidation and increase clearance, other than the specified AEDs, include estrogen-containing oral contraceptives, rifampin, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir. Dosing recommendations for estrogen-containing products, including oral contraceptives, and the protease inhibitor atazanavir/ritonavir can be found in General Dosing Considerations *[see Dosage*] and Administration (2.1)]. Patients on rifampin and the protease inhibitor lopinavir/ritonavir should follow the same dosing titration/maintenance regimen used with AEDs that induce glucuronidation and increase clearance [see Dosage and Administration (2.1), Drug Interactions (7), Clinical Pharmacology (12.3)].

Patients Aged 2 to 12 Years

Recommended dosing guidelines are summarized in Table 2.

Lower starting doses and slower dose escalations than those used in clinical trials are recommended because of the suggestion that the risk of rash may be decreased by lower starting doses and slower dose escalations. Therefore, maintenance doses will take longer to reach in clinical practice than in clinical trials. It may take several weeks to months to achieve an individualized maintenance dose. Maintenance doses in patients weighing <30 kg, regardless of age or concomitant AED, may need to be increased as much as 50%, based on clinical response.

The smallest available strength of LAMICTAL tablets for oral suspension is 2 mg, and only whole tablets should be administered. If the calculated dose cannot be achieved using whole tablets, the dose should be rounded down to the nearest whole tablet [see How Supplied/Storage and Handling (16), Medication Guide].

			r
	In Patients TAKING Valproate ^a	In Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone, ^b or Valproate ^a	In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone ^b and NOT TAKING Valproate ^a
Weeks 1 and 2	0.15 mg/kg/day in 1 or 2 divided doses, rounded down to the nearest whole tablet (see Table 3 for weight-based dosing guide)	0.3 mg/kg/day in 1 or 2 divided doses, rounded down to the nearest whole tablet	0.6 mg/kg/day in 2 divided doses, rounded down to the nearest whole tablet
Weeks 3 and 4	0.3 mg/kg/day in 1 or 2 divided doses, rounded down to the nearest whole tablet (see Table 3 for weight-based dosing guide)	0.6 mg/kg/day in 2 divided doses, rounded down to the nearest whole tablet	1.2 mg/kg/day in 2 divided doses, rounded down to the nearest whole tablet
Week 5 onward to maintenance	The dose should be increased every 1 to 2 weeks as follows: calculate 0.3 mg/kg/day, round this amount down to the nearest whole tablet, and add this amount to the previously administered daily dose.	The dose should be increased every 1 to 2 weeks as follows: calculate 0.6 mg/kg/day, round this amount down to the nearest whole tablet, and add this amount to the previously administered daily dose.	The dose should be increased every 1 to 2 weeks as follows: calculate 1.2 mg/kg/day, round this amount down to the nearest whole tablet, and add this amount to the previously administered daily dose.
Usual maintenance dose	<pre>1 to 5 mg/kg/day (maximum 200 mg/day in 1 or 2 divided doses) 1 to 3 mg/kg/day with valproate alone</pre>	4.5 to 7.5 mg/kg/day (maximum 300 mg/day in 2 divided doses)	5 to 15 mg/kg/day (maximum 400 mg/day in 2 divided doses)
Maintenance dose in patients <30 kg	May need to be increased by as much as 50%, based on	May need to be increased by as much as 50%, based on	May need to be increased by as much as 50%, based on

Table 2. Escalation Regimen for LAMICTAL in Patients Aged 2 to 12 Yearswith Epilepsy

Note: Only whole tablets should be used for dosing.

^a Valproate has been shown to inhibit glucuronidation and decrease the apparent clearance of lamotrigine [see Drug Interactions (7), Clinical Pharmacology (12.3)]. ^b Drugs that induce lamotrigine glucuronidation and increase clearance, other than the specified AEDs, include estrogen-containing oral contraceptives, rifampin, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir. Dosing recommendations for estrogen-containing products, including oral contraceptives, and the protease inhibitor atazanavir/ritonavir, can be found in General Dosing Considerations [see Dosage and Administration (2.1)]. Patients on rifampin and the protease inhibitor lopinavir/ritonavir should follow the same dosing titration/maintenance regimen used with AEDs that induce glucuronidation and increase clearance [see Dosage and Administration (2.1), Drug Interactions (7), Clinical Pharmacology (12.3)].

Table 3. The Initial Weight-Based Dosing Guide for Patients Aged 2 to 12Years Taking Valproate (Weeks 1 to 4) with Epilepsy

		Give this daily dose, using the most appropriate combination of LAMICTAL 2- and 5-mg tablets		
Greater than	And less than	Weeks 1 and 2 Weeks 3 and 4		
6.7 kg	14 kg	2 mg every <i>other</i> day	2 mg every day	
14.1 kg	27 kg	2 mg every day	4 mg every day	
27.1 kg	34 kg	4 mg every day	8 mg every day	
34.1 kg	40 kg	5 mg every day	10 mg every day	

Usual Adjunctive Maintenance Dose for Epilepsy

The usual maintenance doses identified in Tables 1 and 2 are derived from dosing regimens employed in the placebo-controlled adjunctive trials in which the efficacy of LAMICTAL was established. In patients receiving multidrug regimens employing carbamazepine, phenytoin, phenobarbital, or primidone <u>without valproate</u>, maintenance doses of adjunctive LAMICTAL as high as 700 mg/day have been used. In patients receiving <u>valproate alone</u>, maintenance doses of adjunctive LAMICTAL as high as 200 mg/day have been used. The advantage of using doses above those recommended in Tables 1-4 has not been established in controlled trials.

2.3 Epilepsy—Conversion from Adjunctive Therapy to Monotherapy

The goal of the transition regimen is to attempt to maintain seizure control while mitigating the risk of serious rash associated with the rapid titration of LAMICTAL.

The recommended maintenance dose of LAMICTAL as monotherapy is 500 mg/day given in 2 divided doses.

To avoid an increased risk of rash, the recommended initial dose and subsequent dose escalations for LAMICTAL should not be exceeded [see Boxed Warning].

<u>Conversion from Adjunctive Therapy with Carbamazepine, Phenytoin, Phenobarbital, or</u> <u>Primidone to Monotherapy with LAMICTAL</u>

After achieving a dose of 500 mg/day of LAMICTAL using the guidelines in Table 1, the

concomitant enzyme-inducing AED should be withdrawn by 20% decrements each week over a 4-week period. The regimen for the withdrawal of the concomitant AED is based on experience gained in the controlled monotherapy clinical trial.

Conversion from Adjunctive Therapy with Valproate to Monotherapy with LAMICTAL

The conversion regimen involves the 4 steps outlined in Table 4.

Table 4. Conversion from Adjunctive Therapy with Valproate to Monotherapywith LAMICTAL in Patients Aged 16 Years and Older with Epilepsy

	LAMICTAL	Valproate
Step 1	Achieve a dose of 200 mg/day according to guidelines in Table 1.	Maintain established stable dose.
Step 2	Maintain at 200 mg/day.	Decrease dose by decrements no greater than 500 mg/day/week to 500 mg/day and then maintain for 1 week.
Step 3	Increase to 300 mg/day and maintain for 1 week.	Simultaneously decrease to 250 mg/day and maintain for 1 week.
Step 4	Increase by 100 mg/day every week to achieve maintenance dose of 500 mg/day.	Discontinue.

<u>Conversion from Adjunctive Therapy with Antiepileptic Drugs other than Carbamazepine,</u> <u>Phenytoin, Phenobarbital, Primidone, or Valproate to Monotherapy with LAMICTAL</u>

No specific dosing guidelines can be provided for conversion to monotherapy with LAMICTAL with AEDs other than carbamazepine, phenytoin, phenobarbital, primidone, or valproate.

2.4 Bipolar Disorder

The goal of maintenance treatment with LAMICTAL is to delay the time to occurrence of mood episodes (depression, mania, hypomania, mixed episodes) in patients treated for acute mood episodes with standard therapy [see Indications and Usage (1.2)].

Patients taking LAMICTAL for more than 16 weeks should be periodically reassessed to determine the need for maintenance treatment.

<u>Adults</u>

The target dose of LAMICTAL is 200 mg/day (100 mg/day in patients taking valproate, which decreases the apparent clearance of lamotrigine, and 400 mg/day in patients not taking valproate and taking either carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitor lopinavir/ritonavir that increase the apparent clearance of lamotrigine). In the clinical trials, doses up to 400 mg/day as monotherapy were evaluated; however, no additional benefit was seen at 400 mg/day compared with 200 mg/day [see Clinical Studies (14.2)]. Accordingly, doses above 200 mg/day are not recommended.

Treatment with LAMICTAL is introduced, based on concurrent medications, according to the regimen outlined in Table 5. If other psychotropic medications are withdrawn

following stabilization, the dose of LAMICTAL should be adjusted. In patients discontinuing valproate, the dose of LAMICTAL should be doubled over a 2-week period in equal weekly increments (see Table 6). In patients discontinuing carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation, the dose of LAMICTAL should remain constant for the first week and then should be decreased by half over a 2-week period in equal weekly decrements (see Table 6). The dose of LAMICTAL may then be further adjusted to the target dose (200 mg) as clinically indicated.

If other drugs are subsequently introduced, the dose of LAMICTAL may need to be adjusted. In particular, the introduction of valproate requires reduction in the dose of LAMICTAL [see Drug Interactions (7), Clinical Pharmacology (12.3)].

To avoid an increased risk of rash, the recommended initial dose and subsequent dose escalations of LAMICTAL should not be exceeded [see Boxed Warning].

	In Patients TAKING Valproate ^a	In Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone, ^b or Valproate ^a	In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone ^b and NOT TAKING Valproate ^a
Weeks 1 and 2	25 mg every <i>other</i> day	25 mg daily	50 mg daily
Weeks 3 and 4	25 mg daily	50 mg daily	100 mg daily, in divided doses
Week 5	50 mg daily	100 mg daily	200 mg daily, in divided doses
Week 6	100 mg daily	200 mg daily	300 mg daily, in divided doses
Week 7	100 mg daily	200 mg daily	up to 400 mg daily, in divided doses

Table 5. Escalation Regimen for LAMICTAL in Adults with Bipolar Disorder

^a Valproate has been shown to inhibit glucuronidation and decrease the apparent clearance of lamotrigine [see Drug Interactions (7), Clinical Pharmacology (12.3)]. ^b Drugs that induce lamotrigine glucuronidation and increase clearance, other than the specified AEDs, include estrogen-containing products, including oral contraceptives, rifampin, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir. Dosing recommendations for oral contraceptives and the protease inhibitor atazanavir/ritonavir can be found in General Dosing Considerations [see Dosage and Administration (2.1)]. Patients on rifampin and the protease inhibitor lopinavir/ritonavir should follow the same dosing titration/maintenance regimen used with AEDs that induce glucuronidation and increase clearance [see Dosage and Administration (2.1), Drug Interactions (7), Clinical Pharmacology (12.3)].

Table 6. Dosage Adjustments to LAMICTAL in Adults with Bipolar Disorderfollowing Discontinuation of Psychotropic Medications

	Discontinuation of Psychotropic Drugs (excluding Valproate, ^a Carbamazepine,	After Discontinuation of Valproate ^a	After Discontinuation of Carbamazepine, Phenytoin, Phenobarbital, or Primidone ^b
	Phenytoin, Phenobarbital, or Primidone ^b)	Current Dose of LAMICTAL (mg/day) 100	Current Dose of LAMICTAL (mg/day) 400
Week 1	Maintain current dose of LAMICTAL	150	400
Week 2	Maintain current dose of LAMICTAL	200	300
Week 3 onward	Maintain current dose of LAMICTAL	200	200

^a Valproate has been shown to inhibit glucuronidation and decrease the apparent clearance of lamotrigine [see Drug Interactions (7), Clinical Pharmacology (12.3)]. ^b Drugs that induce lamotrigine glucuronidation and increase clearance, other than the specified AEDs, include estrogen-containing products, including oral contraceptives, rifampin, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir. Dosing recommendations for oral contraceptives and the protease inhibitor atazanavir/ritonavir can be found in General Dosing Considerations [see Dosage and Administration (2.1)]. Patients on rifampin and the protease inhibitor lopinavir/ritonavir should follow the same dosing titration/maintenance regimen used with AEDs that induce glucuronidation and increase clearance [see Dosage and Administration (2.1), Drug Interactions (7), Clinical Pharmacology (12.3)].

2.5 Administration of LAMICTAL Tablets for Oral Suspension

LAMICTAL tablets for oral suspension may be swallowed whole, chewed, or dispersed in water or diluted fruit juice. If the tablets are chewed, consume a small amount of water or diluted fruit juice to aid in swallowing.

To disperse LAMICTAL tablets for oral suspension, add the tablets to a small amount of liquid (1 teaspoon, or enough to cover the medication). Approximately 1 minute later, when the tablets are completely dispersed, swirl the solution and consume the entire quantity immediately. *No attempt should be made to administer partial quantities of the dispersed tablets.*

2.6 Administration of LAMICTAL ODT Orally Disintegrating Tablets

LAMICTAL ODT orally disintegrating tablets should be placed onto the tongue and moved around in the mouth. The tablet will disintegrate rapidly, can be swallowed with or without water, and can be taken with or without food.

3 DOSAGE FORMS AND STRENGTHS

3.1 Tablets

25-mg, white, scored, shield-shaped tablets debossed with "LAMICTAL" and "25."

100-mg, peach, scored, shield-shaped tablets debossed with "LAMICTAL" and "100." 150-mg, cream, scored, shield-shaped tablets debossed with "LAMICTAL" and "150." 200-mg, blue, scored, shield-shaped tablets debossed with "LAMICTAL" and "200."

3.2 Tablets for Oral Suspension

2-mg, white to off-white, round tablets debossed with "LTG" over "2."

5-mg, white to off-white, caplet-shaped tablets debossed with "GX CL2."

25-mg, white, super elliptical-shaped tablets debossed with "GX CL5."

3.3 Orally Disintegrating Tablets

25-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "25" on the other side.

50-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "50" on the other side.

100-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "100" on the other side.

200-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "200" on the other side.

4 CONTRAINDICATIONS

LAMICTAL is contraindicated in patients who have demonstrated hypersensitivity (e.g., rash, angioedema, acute urticaria, extensive pruritus, mucosal ulceration) to the drug or its ingredients [see Boxed Warning, Warnings and Precautions (5.1, 5.3)].

5 WARNINGS AND PRECAUTIONS

5.1 Serious Skin Rashes [see Boxed Warning]

Pediatric Population

The incidence of serious rash associated with hospitalization and discontinuation of LAMICTAL in a prospectively followed cohort of pediatric patients (aged 2 to 17 years) is approximately 0.3% to 0.8%. One rash-related death was reported in a prospectively followed cohort of 1,983 pediatric patients (aged 2 to 16 years) with epilepsy taking LAMICTAL as adjunctive therapy. Additionally, there have been rare cases of toxic epidermal necrolysis with and without permanent sequelae and/or death in U.S. and foreign postmarketing experience.

There is evidence that the inclusion of valproate in a multidrug regimen increases the risk of serious, potentially life-threatening rash in pediatric patients. In pediatric patients who used valproate concomitantly for epilepsy, 1.2% (6 of 482) experienced a serious rash compared with 0.6% (6 of 952) patients not taking valproate.

Adult Population

Serious rash associated with hospitalization and discontinuation of LAMICTAL occurred in 0.3% (11 of 3,348) of adult patients who received LAMICTAL in premarketing clinical trials of epilepsy. In the bipolar and other mood disorders clinical trials, the rate of serious rash was 0.08% (1 of 1,233) of adult patients who received LAMICTAL as initial monotherapy and 0.13% (2 of 1,538) of adult patients who received LAMICTAL as adjunctive therapy. No fatalities occurred among these individuals. However, in worldwide postmarketing experience, rare cases of rash-related death have been reported, but their numbers are too few to permit a precise estimate of the rate.

Among the rashes leading to hospitalization were Stevens-Johnson syndrome, toxic epidermal necrolysis, angioedema, and those associated with multiorgan hypersensitivity [see Warnings and Precautions (5.3)].

There is evidence that the inclusion of valproate in a multidrug regimen increases the risk of serious, potentially life-threatening rash in adults. Specifically, of 584 patients administered LAMICTAL with valproate in epilepsy clinical trials, 6 (1%) were hospitalized in association with rash; in contrast, 4 (0.16%) of 2,398 clinical trial patients and volunteers administered LAMICTAL in the absence of valproate were hospitalized.

Patients with History of Allergy or Rash to Other Antiepileptic Drugs

The risk of nonserious rash may be increased when the recommended initial dose and/or the rate of dose escalation for LAMICTAL is exceeded and in patients with a history of allergy or rash to other AEDs.

5.2 Hemophagocytic Lymphohistiocytosis

Hemophagocytic lymphohistiocytosis (HLH) has occurred in pediatric and adult patients taking LAMICTAL for various indications. HLH is a life-threatening syndrome of pathologic immune activation characterized by clinical signs and symptoms of extreme systemic inflammation. It is associated with high mortality rates if not recognized early and treated. Common findings include fever, hepatosplenomegaly, rash, lymphadenopathy, neurologic symptoms, cytopenias, high serum ferritin, hypertriglyceridemia, and liver function and coagulation abnormalities. In cases of HLH reported with LAMICTAL, patients have presented with signs of systemic inflammation (fever, rash, hepatosplenomegaly, and organ system dysfunction) and blood dyscrasias. Symptoms have been reported to occur within 8 to 24 days following the initiation of treatment. Patients who develop early manifestations of pathologic immune activation should be evaluated immediately, and a diagnosis of HLH should be considered. LAMICTAL should be discontinued if an alternative etiology for the signs or symptoms cannot be established.

5.3 Multiorgan Hypersensitivity Reactions and Organ Failure

Multiorgan hypersensitivity reactions, also known as drug reaction with eosinophilia and systemic symptoms (DRESS), have occurred with LAMICTAL. Some have been fatal or life threatening. DRESS typically, although not exclusively, presents with fever, rash, and/or lymphadenopathy 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.

Fatalities associated with acute multiorgan failure and various degrees of hepatic failure

have been reported in 2 of 3,796 adult patients and 4 of 2,435 pediatric patients who received LAMICTAL in epilepsy clinical trials. Rare fatalities from multiorgan failure have also been reported in postmarketing use.

Isolated liver failure without rash or involvement of other organs has also been reported with LAMICTAL.

It is important to note that early manifestations of hypersensitivity (e.g., fever, lymphadenopathy) may be present even though a rash is not evident. If such signs or symptoms are present, the patient should be evaluated immediately. LAMICTAL should be discontinued if an alternative etiology for the signs or symptoms cannot be established.

Prior to initiation of treatment with LAMICTAL, the patient should be instructed that a rash or other signs or symptoms of hypersensitivity (e.g., fever, lymphadenopathy) may herald a serious medical event and that the patient should report any such occurrence to a healthcare provider immediately.

5.4 Cardiac Rhythm and Conduction Abnormalities

In vitro testing showed that LAMICTAL exhibits Class IB antiarrhythmic activity at therapeutically relevant concentrations *[see Clinical Pharmacology (12.2)]*. Based on these in vitro findings, LAMICTAL could slow ventricular conduction (widen QRS) and induce proarrhythmia, which can lead to sudden death, in patients with clinically important structural or functional heart disease (i.e., patients with heart failure, valvular heart disease, congenital heart disease, conduction system disease, ventricular arrhythmias, cardiac channelopathies [e.g., Brugada syndrome], clinically important ischemic heart disease, or multiple risk factors for coronary artery disease). Any expected or observed benefit of LAMICTAL in an individual patient with clinically important structural or functional heart disease must be carefully weighed against the risks for serious arrythmias and/or death for that patient. Concomitant use of other sodium channel blockers may further increase the risk of proarrhythmia.

5.5 Blood Dyscrasias

There have been reports of blood dyscrasias that may or may not be associated with multiorgan hypersensitivity (also known as DRESS) [see Warnings and Precautions (5.3)]. These have included neutropenia, leukopenia, anemia, thrombocytopenia, pancytopenia, and, rarely, aplastic anemia and pure red cell aplasia.

5.6 Suicidal Behavior and Ideation

Antiepileptic drugs, including LAMICTAL, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior.

Pooled analyses of 199 placebo-controlled clinical trials (monotherapy and adjunctive therapy) of 11 different AEDs showed that patients randomized to 1 of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% CI: 1.2, 2.7) of suicidal thinking or behavior compared with patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared with

0.24% among 16,029 placebo-treated patients, representing an increase of approximately 1 case of suicidal thinking or behavior for every 530 patients treated. There were 4 suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number of events is too small to allow any conclusion about drug effect on suicide.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as 1 week after starting 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 beyond 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 mechanism of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed.

Table 7 shows absolute and relative risk by indication for all evaluated AEDs.

Indication	Placebo Patients with Events per 1,000 Patients	Drug Patients with Events per 1,000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events per 1,000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

Table 7. Risk by Indication for Antiepileptic Drugs in the Pooled Analysis

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 psychiatric indications.

Anyone considering prescribing LAMICTAL or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Should suicidal thoughts and behavior emerge during treatment, the prescriber needs to consider whether the emergence of these symptoms in any given patient may be related to the illness being treated.

Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior, the emergence of suicidal thoughts or suicidal behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

5.7 Aseptic Meningitis

Therapy with LAMICTAL increases the risk of developing aseptic meningitis. Because of the potential for serious outcomes of untreated meningitis due to other causes, patients should also be evaluated for other causes of meningitis and treated as appropriate.

Postmarketing cases of aseptic meningitis have been reported in pediatric and adult patients taking LAMICTAL for various indications. Symptoms upon presentation have included headache, fever, nausea, vomiting, and nuchal rigidity. Rash, photophobia, myalgia, chills, altered consciousness, and somnolence were also noted in some cases. Symptoms have been reported to occur within 1 day to one and a half months following the initiation of treatment. In most cases, symptoms were reported to resolve after discontinuation of LAMICTAL. Re-exposure resulted in a rapid return of symptoms (from within 30 minutes to 1 day following re-initiation of treatment) that were frequently more severe. Some of the patients treated with LAMICTAL who developed aseptic meningitis had underlying diagnoses of systemic lupus erythematosus or other autoimmune diseases.

Cerebrospinal fluid (CSF) analyzed at the time of clinical presentation in reported cases was characterized by a mild to moderate pleocytosis, normal glucose levels, and mild to moderate increase in protein. CSF white blood cell count differentials showed a predominance of neutrophils in a majority of the cases, although a predominance of lymphocytes was reported in approximately one third of the cases. Some patients also had new onset of signs and symptoms of involvement of other organs (predominantly hepatic and renal involvement), which may suggest that in these cases the aseptic meningitis observed was part of a hypersensitivity reaction [see Warnings and Precautions (5.3)].

5.8 Potential Medication Errors

Medication errors involving LAMICTAL have occurred. In particular, the names LAMICTAL or lamotrigine can be confused with the names of other commonly used medications. Medication errors may also occur between the different formulations of LAMICTAL. To reduce the potential of medication errors, write and say LAMICTAL clearly. Depictions of the LAMICTAL tablets, tablets for oral suspension, and orally disintegrating tablets can be found in the Medication Guide that accompanies the product to highlight the distinctive markings, colors, and shapes that serve to identify the different presentations of the drug and thus may help reduce the risk of medication errors. To avoid the medication error of using the wrong drug or formulation, patients should be strongly advised to visually inspect their tablets to verify that they are LAMICTAL, as well as the correct formulation of LAMICTAL, each time they fill their prescription.

5.9 Concomitant Use with Estrogen-Containing Products, Including Oral Contraceptives

Some estrogen-containing oral contraceptives have been shown to decrease serum concentrations of lamotrigine [see Clinical Pharmacology (12.3)]. Dosage adjustments will be necessary in most patients who start or stop estrogen-containing oral contraceptives while taking LAMICTAL [see Dosage and Administration (2.1)]. During the week of inactive hormone preparation (pill-free week) of oral contraceptive therapy, plasma lamotrigine levels are expected to rise, as much as doubling at the end of the week. Adverse reactions consistent with elevated levels of lamotrigine, such as dizziness, ataxia, and diplopia, could occur. Other oral contraceptive and other

estrogen-containing therapies (such as HRT) have not been studied, though they may similarly affect lamotrigine pharmacokinetic parameters.

5.10 Withdrawal Seizures

As with other AEDs, LAMICTAL should not be abruptly discontinued. In patients with epilepsy there is a possibility of increasing seizure frequency. In clinical trials in adults with bipolar disorder, 2 patients experienced seizures shortly after abrupt withdrawal of LAMICTAL. Unless safety concerns require a more rapid withdrawal, the dose of LAMICTAL should be tapered over a period of at least 2 weeks (approximately 50% reduction per week) [see Dosage and Administration (2.1)].

5.11 Status Epilepticus

Valid estimates of the incidence of treatment-emergent status epilepticus among patients treated with LAMICTAL are difficult to obtain because reporters participating in clinical trials did not all employ identical rules for identifying cases. At a minimum, 7 of 2,343 adult patients had episodes that could unequivocally be described as status epilepticus. In addition, a number of reports of variably defined episodes of seizure exacerbation (e.g., seizure clusters, seizure flurries) were made.

5.12 Addition of LAMICTAL to a Multidrug Regimen that Includes Valproate

Because valproate reduces the clearance of lamotrigine, the dosage of LAMICTAL in the presence of valproate is less than half of that required in its absence [see Dosage and Administration (2.2, 2.3, 2.4), Drug Interactions (7)].

5.13 Binding in the Eye and Other Melanin-Containing Tissues

Because lamotrigine binds to melanin, it could accumulate in melanin-rich tissues over time. This raises the possibility that lamotrigine may cause toxicity in these tissues after extended use. Although ophthalmological testing was performed in 1 controlled clinical trial, the testing was inadequate to exclude subtle effects or injury occurring after longterm exposure. Moreover, the capacity of available tests to detect potentially adverse consequences, if any, of lamotrigine's binding to melanin is unknown [see Clinical Pharmacology (12.2)].

Accordingly, although there are no specific recommendations for periodic ophthalmological monitoring, prescribers should be aware of the possibility of long-term ophthalmologic effects.

5.14 Laboratory Tests

False-Positive Drug Test Results

Lamotrigine has been reported to interfere with the assay used in some rapid urine drug screens, which can result in false-positive readings, particularly for phencyclidine (PCP). A more specific analytical method should be used to confirm a positive result.

Plasma Concentrations of Lamotrigine

The value of monitoring plasma concentrations of lamotrigine in patients treated with LAMICTAL has not been established. Because of the possible pharmacokinetic interactions between lamotrigine and other drugs, including AEDs (see Table 13),

monitoring of the plasma levels of lamotrigine and concomitant drugs may be indicated, particularly during dosage adjustments. In general, clinical judgment should be exercised regarding monitoring of plasma levels of lamotrigine and other drugs and whether or not dosage adjustments are necessary.

6 ADVERSE REACTIONS

The following serious adverse reactions are described in more detail in the *Warnings and Precautions* section of the labeling:

- Serious Skin Rashes [see Warnings and Precautions (5.1)]
- Hemophagocytic Lymphohistiocytosis [see Warnings and Precautions (5.2)]
- Multiorgan Hypersensitivity Reactions and Organ Failure [see Warnings and Precautions (5.3)]
- Cardiac Rhythm and Conduction Abnormalities [see Warnings and Precautions (5.4)]
- Blood Dyscrasias [see Warnings and Precautions (5.5)]
- Suicidal Behavior and Ideation [see Warnings and Precautions (5.6)]
- Aseptic Meningitis [see Warnings and Precautions (5.7)]
- Withdrawal Seizures [see Warnings and Precautions (5.10)]
- Status Epilepticus [see Warnings and Precautions (5.11)]

6.1 Clinical Trial 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 with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

<u>Epilepsy</u>

Most Common Adverse Reactions in All Clinical Trials: Adjunctive Therapy in Adults with Epilepsy: The most commonly observed (\geq 5% for LAMICTAL and more common on drug than placebo) adverse reactions seen in association with LAMICTAL during adjunctive therapy in adults and not seen at an equivalent frequency among placebo-treated patients were: dizziness, ataxia, somnolence, headache, diplopia, blurred vision, nausea, vomiting, and rash. Dizziness, diplopia, ataxia, blurred vision occurred more commonly in patients receiving carbamazepine with LAMICTAL than in patients receiving other AEDs with LAMICTAL. Clinical data suggest a higher incidence of rash, including serious rash, in patients receiving concomitant valproate than in patients not receiving valproate [see Warnings and Precautions (5.1)].

Approximately 11% of the 3,378 adult patients who received LAMICTAL as adjunctive therapy in premarketing clinical trials discontinued treatment because of an adverse reaction. The adverse reactions most commonly associated with discontinuation were rash (3.0%), dizziness (2.8%), and headache (2.5%).

In a dose-response trial in adults, the rate of discontinuation of LAMICTAL for dizziness, ataxia, diplopia, blurred vision, nausea, and vomiting was dose related.

Monotherapy in Adults with Epilepsy: The most commonly observed (≥5% for LAMICTAL and more common on drug than placebo) adverse reactions seen in association with the use of LAMICTAL during the monotherapy phase of the controlled

trial in adults not seen at an equivalent rate in the control group were vomiting, coordination abnormality, dyspepsia, nausea, dizziness, rhinitis, anxiety, insomnia, infection, pain, weight decrease, chest pain, and dysmenorrhea. The most commonly observed (≥5% for LAMICTAL and more common on drug than placebo) adverse reactions associated with the use of LAMICTAL during the conversion to monotherapy (add-on) period, not seen at an equivalent frequency among low-dose valproate-treated patients, were dizziness, headache, nausea, asthenia, coordination abnormality, vomiting, rash, somnolence, diplopia, ataxia, accidental injury, tremor, blurred vision, insomnia, nystagmus, diarrhea, lymphadenopathy, pruritus, and sinusitis.

Approximately 10% of the 420 adult patients who received LAMICTAL as monotherapy in premarketing clinical trials discontinued treatment because of an adverse reaction. The adverse reactions most commonly associated with discontinuation were rash (4.5%), headache (3.1%), and asthenia (2.4%).

Adjunctive Therapy in Pediatric Patients with Epilepsy: The most commonly observed (\geq 5% for LAMICTAL and more common on drug than placebo) adverse reactions seen in association with the use of LAMICTAL as adjunctive treatment in pediatric patients aged 2 to 16 years and not seen at an equivalent rate in the control group were infection, vomiting, rash, fever, somnolence, accidental injury, dizziness, diarrhea, abdominal pain, nausea, ataxia, tremor, asthenia, bronchitis, flu syndrome, and diplopia.

In 339 patients aged 2 to 16 years with partial-onset seizures or generalized seizures of Lennox-Gastaut syndrome, 4.2% of patients on LAMICTAL and 2.9% of patients on placebo discontinued due to adverse reactions. The most commonly reported adverse reaction that led to discontinuation of LAMICTAL was rash.

Approximately 11.5% of the 1,081 pediatric patients aged 2 to 16 years who received LAMICTAL as adjunctive therapy in premarketing clinical trials discontinued treatment because of an adverse reaction. The adverse reactions most commonly associated with discontinuation were rash (4.4%), reaction aggravated (1.7%), and ataxia (0.6%).

Controlled Adjunctive Clinical Trials in Adults with Epilepsy: Table 8 lists adverse reactions that occurred in adult patients with epilepsy treated with LAMICTAL in placebocontrolled trials. In these trials, either LAMICTAL or placebo was added to the patient's current AED therapy.

Body System/ Adverse Reaction	Percent of Patients Receiving Adjunctive LAMICTAL (n = 711)	Percent of Patients Receiving Adjunctive Placebo (n = 419)
Body as a whole		
Headache	29	19
Flu syndrome	7	6
Fever	6	4
Abdominal pain	5	4
Neck pain	2	1
Reaction aggravated (seizure	2	1

Table 8. Adverse Reactions in Pooled, Placebo-Controlled Adjunctive Trials in Adult Patients with Epilepsy^{a,b}

exacerbation)		
Digestive		
Nausea	19	10
Vomiting	9	4
Diarrhea	6	4
Dyspepsia	5	2
Constipation	4	3
Anorexia	2	1
Musculoskeletal		
Arthralgia	2	0
Nervous		
Dizziness	38	13
Ataxia	22	6
Somnolence	14	7
Incoordination	6	2
Insomnia	6	2
Tremor	4	1
Depression	4	3
Anxiety	4	3
Convulsion	3	1
Irritability	3	2
Speech disorder	3	0
Concentration disturbance	2	1
Respiratory		
Rhinitis	14	9
Pharyngitis	10	9
Cough increased	8	6
Skin and appendages		
Rash	10	5
Pruritus	3	2
Special senses		
Diplopia	28	7
Blurred vision	16	5
Vision abnormality	3	1
Urogenital		
Female patients only	(n = 365)	(n = 207)
Dysmenorrhea	7	6
Vaginitis	4	1
Amenorrhea	2	1

^a Adverse reactions that occurred in at least 2% of patients treated with LAMICTAL and at a greater incidence than placebo.

^b Patients in these adjunctive trials were receiving 1 to 3 of the concomitant AEDs carbamazepine, phenytoin, phenobarbital, or primidone in addition to LAMICTAL or placebo. Patients may have reported multiple adverse reactions during the trial or at discontinuation; thus, patients may be included in more than 1 category.

In a randomized, parallel trial comparing placebo with 300 and 500 mg/day of LAMICTAL, some of the more common drug-related adverse reactions were dose related (see Table 9).

Table 9. Dose-Related Adverse Reactions from a Randomized, Placebo-
Controlled, Adjunctive Trial in Adults with Epilepsy

	Percent of Patients Experiencing Adverse Reactions		
Adverse Reaction	Placebo (n = 73)	LAMICTAL 300 mg (n = 71)	LAMICTAL 500 mg (n = 72)
Ataxia	10	10	28 ^{a,b}
Blurred vision	10	11	25 ^{a,b}
Diplopia	8	24 ^a	49 ^{a,b}
Dizziness	27	31	54 ^{a,b}
Nausea	11	18	25 ^a
Vomiting	4	11	18 ^a

^a Significantly greater than placebo group (P < 0.05).

^b Significantly greater than group receiving LAMICTAL 300 mg (*P*<0.05).

The overall adverse reaction profile for LAMICTAL was similar between females and males and was independent of age. Because the largest non-Caucasian racial subgroup was only 6% of patients exposed to LAMICTAL in placebo-controlled trials, there are insufficient data to support a statement regarding the distribution of adverse reaction reports by race. Generally, females receiving either LAMICTAL as adjunctive therapy or placebo were more likely to report adverse reactions than males. The only adverse reaction for which the reports on LAMICTAL were >10% more frequent in females than males (without a corresponding difference by gender on placebo) was dizziness (difference = 16.5%). There was little difference between females and males in the rates of discontinuation of LAMICTAL for individual adverse reactions.

Controlled Monotherapy Trial in Adults with Partial-Onset Seizures: Table 10 lists adverse reactions that occurred in patients with epilepsy treated with monotherapy with LAMICTAL in a double-blind trial following discontinuation of either concomitant carbamazepine or phenytoin not seen at an equivalent frequency in the control group.

Table 10. Adverse Reactions in a Controlled Monotherapy Trial in Adult Patients with Partial-Onset Seizures^{a,b}

Body System/ Adverse Reaction	Percent of Patients Receiving LAMICTAL ^c as Monotherapy (n = 43)	Percent of Patients Receiving Low-Dose Valproate ^d Monotherapy (n = 44)
Body as a whole		
Pain	5	0
Infection	5	2
Chest pain	5	2
Digestive		

Vomiting	9	0
Dyspepsia	7	2
Nausea	7	2
Metabolic and nutritional		
Weight decrease	5	2
Nervous		
Coordination abnormality	7	0
Dizziness	7	0
Anxiety	5	0
Insomnia	5	2
Respiratory		
Rhinitis	7	2
Urogenital (female patients only)	(n = 21)	(n = 28)
Dysmenorrhea	5	0

^a Adverse reactions that occurred in at least 5% of patients treated with LAMICTAL and at a greater incidence than valproate-treated patients.

^b Patients in this trial were converted to LAMICTAL or valproate monotherapy from adjunctive therapy with carbamazepine or phenytoin. Patients may have reported multiple adverse reactions during the trial; thus, patients may be included in more than 1 category.

^c Up to 500 mg/day.

^d 1,000 mg/day.

Adverse reactions that occurred with a frequency of <5% and >2% of patients receiving LAMICTAL and numerically more frequent than placebo were:

Body as a Whole: Asthenia, fever.

Digestive: Anorexia, dry mouth, rectal hemorrhage, peptic ulcer.

Metabolic and Nutritional: Peripheral edema.

Nervous System: Amnesia, ataxia, depression, hypesthesia, libido increase, decreased reflexes, increased reflexes, nystagmus, irritability, suicidal ideation.

Respiratory: Epistaxis, bronchitis, dyspnea.

Skin and Appendages: Contact dermatitis, dry skin, sweating.

Special Senses: Vision abnormality.

Incidence in Controlled Adjunctive Trials in Pediatric Patients with Epilepsy: Table 11 lists adverse reactions that occurred in 339 pediatric patients with partial-onset seizures or generalized seizures of Lennox-Gastaut syndrome who received LAMICTAL up to 15 mg/kg/day or a maximum of 750 mg/day.

Table 11. Adverse Reactions in Pooled, Placebo-Controlled, Adjunctive Trialsin Pediatric Patients with Epilepsya

Percent of Patients

Percent of Patients

Receiving

Body System/ Adverse Reaction	Receiving LAMICTAL (n = 168)	Placebo (n = 171)
Body as a whole		
Infection	20	17
Fever	15	14
Accidental injury	14	12
Abdominal pain	10	5
Asthenia	8	4
Flu syndrome	7	6
Pain	5	4
Facial edema	2	1
Photosensitivity	2	0
Cardiovascular		
Hemorrhage	2	1
Digestive		
Vomiting	20	16
Diarrhea	11	9
Nausea	10	2
Constipation	4	2
Dyspepsia	2	1
Hemic and lymphatic		
Lymphadenopathy	2	1
Metabolic and nutritional		
Edema	2	0
Nervous system		
Somnolence	17	15
Dizziness	14	4
Ataxia	11	3
Tremor	10	1
Emotional lability	4	2
Gait abnormality	4	2
Thinking abnormality	3	2
Convulsions	2	1
Nervousness	2	1
Vertigo	2	1
Respiratory		
Pharyngitis	14	11
Bronchitis	7	5
Increased cough	7	6
Sinusitis	2	1
Bronchospasm	2	1
Skin		
Rash	14	12
Eczema	2	1
Pruritus	2	1

Special senses		
Diplopia	5	1
Blurred vision	4	1
Visual abnormality	2	0
Urogenital		
Male and female patients		
Urinary tract infection	3	0
A duarca reactions that accurred in	at least 20/ of patients treated	with I ANICTAL and

^a Adverse reactions that occurred in at least 2% of patients treated with LAMICTAL and at a greater incidence than placebo.

Bipolar Disorder in Adults

The most common adverse reactions seen in association with the use of LAMICTAL as monotherapy (100 to 400 mg/day) in adult patients (aged 18 to 82 years) with bipolar disorder in the 2 double-blind, placebo-controlled trials of 18 months' duration are included in Table 12. Adverse reactions that occurred in at least 5% of patients and were numerically more frequent during the dose-escalation phase of LAMICTAL in these trials (when patients may have been receiving concomitant medications) compared with the monotherapy phase were: headache (25%), rash (11%), dizziness (10%), diarrhea (8%), dream abnormality (6%), and pruritus (6%).

During the monotherapy phase of the double-blind, placebo-controlled trials of 18 months' duration, 13% of 227 patients who received LAMICTAL (100 to 400 mg/day), 16% of 190 patients who received placebo, and 23% of 166 patients who received lithium discontinued therapy because of an adverse reaction. The adverse reactions that most commonly led to discontinuation of LAMICTAL were rash (3%) and mania/hypomania/mixed mood adverse reactions (2%). Approximately 16% of 2,401 patients who received LAMICTAL (50 to 500 mg/day) for bipolar disorder in premarketing trials discontinued therapy because of an adverse reaction, most commonly due to rash (5%) and mania/hypomania/mixed mood adverse reactions (2%).

The overall adverse reaction profile for LAMICTAL was similar between females and males, between elderly and nonelderly patients, and among racial groups.

Body System/ Adverse Reaction	Percent of Patients Receiving LAMICTAL (n = 227)	Percent of Patients Receiving Placebo (n = 190)
General		
Back pain	8	6
Fatigue	8	5
Abdominal pain	6	3
Digestive		
Nausea	14	11
Constipation	5	2
Vomiting	5	2
Nervous System		

Table 12. Adverse Reactions in 2 Placebo-Controlled Trials in Adult Patientswith Bipolar I Disorder^{a,b}

Insomnia	10	6
Somnolence	9	7
Xerostomia (dry mouth)	6	4
Respiratory		
Rhinitis	7	4
Exacerbation of cough	5	3
Pharyngitis	5	4
Skin		
Rash (nonserious) ^c	7	5

^a Adverse reactions that occurred in at least 5% of patients treated with LAMICTAL and at a greater incidence than placebo.

^b Patients in these trials were converted to LAMICTAL (100 to 400 mg/day) or placebo monotherapy from add-on therapy with other psychotropic medications. Patients may have reported multiple adverse reactions during the trial; thus, patients may be included in more than 1 category.

^c In the overall bipolar and other mood disorders clinical trials, the rate of serious rash was 0.08% (1 of 1,233) of adult patients who received LAMICTAL as initial monotherapy and 0.13% (2 of 1,538) of adult patients who received LAMICTAL as adjunctive therapy [see Warnings and Precautions (5.1)].

Other reactions that occurred in 5% or more patients but equally or more frequently in the placebo group included: dizziness, mania, headache, infection, influenza, pain, accidental injury, diarrhea, and dyspepsia.

Adverse reactions that occurred with a frequency of <5% and >1% of patients receiving LAMICTAL and numerically more frequent than placebo were:

General: Fever, neck pain.

Cardiovascular: Migraine.

Digestive: Flatulence.

Metabolic and Nutritional: Weight gain, edema.

Musculoskeletal: Arthralgia, myalgia.

Nervous System: Amnesia, depression, agitation, emotional lability, dyspraxia, abnormal thoughts, dream abnormality, hypoesthesia.

Respiratory: Sinusitis.

Urogenital: Urinary frequency.

Adverse Reactions following Abrupt Discontinuation: In the 2 controlled clinical trials, there was no increase in the incidence, severity, or type of adverse reactions in patients with bipolar disorder after abruptly terminating therapy with LAMICTAL. In the clinical development program in adults with bipolar disorder, 2 patients experienced seizures shortly after abrupt withdrawal of LAMICTAL [see Warnings and Precautions (5.10)].

Mania/Hypomania/Mixed Episodes: During the double-blind, placebo-controlled clinical trials in bipolar I disorder in which adults were converted to monotherapy with LAMICTAL (100 to 400 mg/day) from other psychotropic medications and followed for up to 18 months, the rates of manic or hypomanic or mixed mood episodes reported as adverse

reactions were 5% for patients treated with LAMICTAL (n = 227), 4% for patients treated with lithium (n = 166), and 7% for patients treated with placebo (n = 190). In all bipolar controlled trials combined, adverse reactions of mania (including hypomania and mixed mood episodes) were reported in 5% of patients treated with LAMICTAL (n = 956), 3% of patients treated with lithium (n = 280), and 4% of patients treated with placebo (n = 803).

6.2 Other Adverse Reactions Observed in All Clinical Trials

LAMICTAL has been administered to 6,694 individuals for whom complete adverse reaction data was captured during all clinical trials, only some of which were placebo controlled. During these trials, all adverse reactions were recorded by the clinical investigators using terminology of their own choosing. To provide a meaningful estimate of the proportion of individuals having adverse reactions, similar types of adverse reactions were grouped into a smaller number of standardized categories using modified COSTART dictionary terminology. The frequencies presented represent the proportion of the 6,694 individuals exposed to LAMICTAL who experienced an event of the type cited on at least 1 occasion while receiving LAMICTAL. All reported adverse reactions are included except those already listed in the previous tables or elsewhere in the labeling, those too general to be informative, and those not reasonably associated with the use of the drug.

Adverse reactions are further classified within body system categories and enumerated in order of decreasing frequency using the following definitions: *frequent* adverse reactions are defined as those occurring in at least 1/100 patients; *infrequent* adverse reactions are those occurring in 1/100 to 1/1,000 patients; *rare* adverse reactions are those occurring in fewer than 1/1,000 patients.

Body as a Whole

Infrequent: Allergic reaction, chills, malaise.

Cardiovascular System

Infrequent: Flushing, hot flashes, hypertension, palpitations, postural hypotension, syncope, tachycardia, vasodilation.

Dermatological

Infrequent: Acne, alopecia, hirsutism, maculopapular rash, skin discoloration, urticaria.

Rare: Angioedema, erythema, exfoliative dermatitis, fungal dermatitis, herpes zoster, leukoderma, multiforme erythema, petechial rash, pustular rash, Stevens-Johnson syndrome, vesiculobullous rash.

Digestive System

Infrequent: Dysphagia, eructation, gastritis, gingivitis, increased appetite, increased salivation, liver function tests abnormal, mouth ulceration.

Rare: Gastrointestinal hemorrhage, glossitis, gum hemorrhage, gum hyperplasia, hematemesis, hemorrhagic colitis, hepatitis, melena, stomach ulcer, stomatitis, tongue edema.

Endocrine System

Rare: Goiter, hypothyroidism.

Hematologic and Lymphatic System

Infrequent: Ecchymosis, leukopenia.

Rare: Anemia, eosinophilia, fibrin decrease, fibrinogen decrease, iron deficiency anemia, leukocytosis, lymphocytosis, macrocytic anemia, petechia, thrombocytopenia.

Metabolic and Nutritional Disorders

Infrequent: Aspartate transaminase increased.

Rare: Alcohol intolerance, alkaline phosphatase increase, alanine transaminase increase, bilirubinemia, general edema, gamma glutamyl transpeptidase increase, hyperglycemia.

Musculoskeletal System

Infrequent: Arthritis, leg cramps, myasthenia, twitching.

Rare: Bursitis, muscle atrophy, pathological fracture, tendinous contracture.

Nervous System

Frequent: Confusion, paresthesia.

Infrequent: Akathisia, apathy, aphasia, central nervous system depression, depersonalization, dysarthria, dyskinesia, euphoria, hallucinations, hostility, hyperkinesia, hypertonia, libido decreased, memory decrease, mind racing, movement disorder, myoclonus, panic attack, paranoid reaction, personality disorder, psychosis, sleep disorder, stupor, suicidal ideation.

Rare: Choreoathetosis, delirium, delusions, dysphoria, dystonia, extrapyramidal syndrome, faintness, grand mal convulsions, hemiplegia, hyperalgesia, hyperesthesia, hypokinesia, hypotonia, manic depression reaction, muscle spasm, neuralgia, neurosis, paralysis, peripheral neuritis.

Respiratory System

Infrequent: Yawn.

Rare: Hiccup, hyperventilation.

Special Senses

Frequent: Amblyopia.

Infrequent: Abnormality of accommodation, conjunctivitis, dry eyes, ear pain, photophobia, taste perversion, tinnitus.

Rare: Deafness, lacrimation disorder, oscillopsia, parosmia, ptosis, strabismus, taste loss, uveitis, visual field defect.

Urogenital System

Infrequent: Abnormal ejaculation, hematuria, impotence, menorrhagia, polyuria, urinary incontinence.

Rare: Acute kidney failure, anorgasmia, breast abscess, breast neoplasm, creatinine increase, cystitis, dysuria, epididymitis, female lactation, kidney failure, kidney pain, nocturia, urinary retention, urinary urgency.

6.3 Postmarketing Experience

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

Blood and Lymphatic

Agranulocytosis, hemolytic anemia, lymphadenopathy not associated with hypersensitivity disorder, pseudolymphoma.

Gastrointestinal

Esophagitis.

Hepatobiliary Tract and Pancreas

Pancreatitis.

Immunologic

Hypogammaglobulinemia, lupus-like reaction, vasculitis.

Lower Respiratory

Apnea.

Musculoskeletal

Rhabdomyolysis has been observed in patients experiencing hypersensitivity reactions.

Nervous System

Aggression, exacerbation of Parkinsonian symptoms in patients with pre-existing Parkinson's disease, tics.

Non-site Specific

Progressive immunosuppression.

Renal and Urinary Disorders

Tubulointerstitial nephritis (has been reported alone and in association with uveitis).

7 DRUG INTERACTIONS

Significant drug interactions with LAMICTAL are summarized in this section.

Uridine 5´-diphospho-glucuronyl transferases (UGT) have been identified as the enzymes responsible for metabolism of lamotrigine. Drugs that induce or inhibit glucuronidation may, therefore, affect the apparent clearance of lamotrigine. Strong or moderate inducers of the cytochrome P450 3A4 (CYP3A4) enzyme, which are also known to induce UGT, may also enhance the metabolism of lamotrigine.

Those drugs that have been demonstrated to have a clinically significant impact on lamotrigine metabolism are outlined in Table 13. Specific dosing guidance for these drugs is provided in the Dosage and Administration section, and, for women taking estrogen-containing products, including oral contraceptives, in the Warnings and Precautions section [see Dosage and Administration (2.1), Warnings and Precautions (5.9)].

Additional details of these drug interaction studies are provided in the Clinical Pharmacology section [see Clinical Pharmacology (12.3)].

Concomitant Drug	Effect on Concentration of Lamotrigine or Concomitant Drug	Clinical Comment
Estrogen-containing oral	↓ lamotrigine	Decreased lamotrigine
contraceptive preparations containing 30 mcg ethinylestradiol and 150 mcg	↓ levonorgestrel	concentrations approximately 50%.
levonorgestrel		Decrease in levonorgestrel component by 19%.
Carbamazepine and carbamazepine epoxide	↓ lamotrigine ? carbamazepine epoxide	Addition of carbamazepine decreases lamotrigine concentration approximately 40%.
		May increase carbamazepine epoxide levels.
Lopinavir/ritonavir	↓ lamotrigine	Decreased lamotrigine concentration approximately 50%.
Atazanavir/ritonavir	↓ lamotrigine	Decreased lamotrigine AUC approximately 32%.
Phenobarbital/primidone	↓ lamotrigine	Decreased lamotrigine concentration approximately 40%.
Phenytoin	↓ lamotrigine	Decreased lamotrigine concentration approximately 40%.
Rifampin	↓ lamotrigine	Decreased lamotrigine AUC approximately 40%.
Valproate	↑ lamotrigine ? valproate	Increased lamotrigine concentrations slightly more than 2-fold.
		There are conflicting study results regarding effect of lamotrigine on valproate concentrations: 1) a mean 25% decrease in valproate concentrations in healthy volunteers, 2) no change in valproate concentrations in controlled clinical trials in

- \downarrow = Decreased (induces lamotrigine glucuronidation).
- \uparrow = Increased (inhibits lamotrigine glucuronidation).
- ? = Conflicting data.

Effect of LAMICTAL on Organic Cationic Transporter 2 Substrates

Lamotrigine is an inhibitor of renal tubular secretion via organic cationic transporter 2 (OCT2) proteins [see Clinical Pharmacology (12.3)]. This may result in increased plasma levels of certain drugs that are substantially excreted via this route. Coadministration of LAMICTAL with OCT2 substrates with a narrow therapeutic index (e.g., dofetilide) is not recommended.

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, including LAMICTAL, during pregnancy. Encourage women who are taking LAMICTAL 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/.

<u>Risk Summary</u>

Data from several prospective pregnancy exposure registries and epidemiological studies of pregnant women have not detected an increased frequency of major congenital malformations or a consistent pattern of malformations among women exposed to lamotrigine compared with the general population *(see Data)*. The majority of LAMICTAL pregnancy exposure data are from women with epilepsy. In animal studies, administration of lamotrigine during pregnancy resulted in developmental toxicity (increased mortality, decreased body weight, increased structural variation, neurobehavioral abnormalities) at doses lower than those administered clinically.

Lamotrigine decreased fetal folate concentrations in rats, an effect known to be associated with adverse pregnancy outcomes in animals and humans (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

As with other AEDs, physiological changes during pregnancy may affect lamotrigine concentrations and/or therapeutic effect. There have been reports of decreased lamotrigine concentrations during pregnancy and restoration of pre-pregnancy concentrations after delivery. Dose adjustments may be necessary to maintain clinical response.

Human Data: Data from several international pregnancy registries have not shown an increased risk for malformations overall. The International Lamotrigine Pregnancy Registry reported major congenital malformations in 2.2% (95% CI: 1.6%, 3.1%) of 1,558 infants exposed to lamotrigine monotherapy in the first trimester of pregnancy. The NAAED Pregnancy Registry reported major congenital malformations among 2.0% of 1,562 infants exposed to lamotrigine monotherapy in the first trimester. EURAP, a large international pregnancy registry focused outside of North America, reported major birth defects in 2.9% (95% CI: 2.3%, 3.7%) of 2,514 exposures to lamotrigine monotherapy in the first trimester monotherapy in the first trimester. The frequency of major congenital malformations was similar to estimates from the general population.

The NAAED Pregnancy Registry observed an increased risk of isolated oral clefts: among 2,200 infants exposed to lamotrigine early in pregnancy, the risk of oral clefts was 3.2 per 1,000 (95% CI: 1.4, 6.3), a 3-fold increased risk versus unexposed healthy controls. This finding has not been observed in other large international pregnancy registries. Furthermore, a case-control study based on 21 congenital anomaly registries covering over 10 million births in Europe reported an adjusted odds ratio for isolated oral clefts with lamotrigine exposure of 1.45 (95% CI: 0.8, 2.63).

Several meta-analyses have not reported an increased risk of major congenital malformations following lamotrigine exposure in pregnancy compared with healthy and disease-matched controls. No patterns of specific malformation types were observed.

The same meta-analyses evaluated the risk of additional maternal and infant outcomes including fetal death, stillbirth, preterm birth, small for gestational age, and neurodevelopmental delay. Although there are no data suggesting an increased risk of these outcomes with lamotrigine monotherapy exposure, differences in outcome definition, ascertainment methods, and comparator groups limit the conclusions that can be drawn.

Animal Data: When lamotrigine was administered to pregnant mice, rats, or rabbits during the period of organogenesis (oral doses of up to 125, 25, and 30 mg/kg, respectively), reduced fetal body weight and increased incidences of fetal skeletal variations were seen in mice and rats at doses that were also maternally toxic. The no-effect doses for embryofetal developmental toxicity in mice, rats, and rabbits (75, 6.25, and 30 mg/kg, respectively) are similar to (mice and rabbits) or less than (rats) the human dose of 400 mg/day on a body surface area (mg/m²) basis.

In a study in which pregnant rats were administered lamotrigine (oral doses of 0, 5, or 25 mg/kg) during the period of organogenesis and offspring were evaluated postnatally, neurobehavioral abnormalities were observed in exposed offspring at both doses. The lowest effect dose for developmental neurotoxicity in rats is less than the human dose of 400 mg/day on a mg/m² basis. Maternal toxicity was observed at the higher dose tested.

When pregnant rats were administered lamotrigine (oral doses of 0, 5, 10, or 20 mg/kg) during the latter part of gestation and throughout lactation, increased offspring mortality (including stillbirths) was seen at all doses. The lowest effect dose for pre- and post-natal developmental toxicity in rats is less than the human dose of 400 mg/day on a mg/m² basis. Maternal toxicity was observed at the 2 highest doses tested.

When administered to pregnant rats, lamotrigine decreased fetal folate concentrations at doses greater than or equal to 5 mg/kg/day, which is less than the human dose of

400 mg/day on a mg/m² basis.

8.2 Lactation

<u>Risk Summary</u>

Lamotrigine is present in milk from lactating women taking LAMICTAL (see Data). Neonates and young infants are at risk for high serum levels because maternal serum and milk levels can rise to high levels postpartum if lamotrigine dosage has been increased during pregnancy but is not reduced after delivery to the pre-pregnancy dosage. Glucuronidation is required for drug clearance. Glucuronidation capacity is immature in the infant and this may also contribute to the level of lamotrigine exposure. Events including rash, apnea, drowsiness, poor sucking, and poor weight gain (requiring hospitalization in some cases) have been reported in infants who have been human milkfed by mothers using lamotrigine; whether or not these events were caused by lamotrigine is unknown. No data are available on the effects of the drug on milk production.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for LAMICTAL and any potential adverse effects on the breastfed infant from LAMICTAL or from the underlying maternal condition.

Clinical Considerations

Human milk-fed infants should be closely monitored for adverse events resulting from lamotrigine. Measurement of infant serum levels should be performed to rule out toxicity if concerns arise. Human milk-feeding should be discontinued in infants with lamotrigine toxicity.

<u>Data</u>

Data from multiple small studies indicate that lamotrigine plasma levels in nursing infants have been reported to be as high as 50% of maternal plasma concentrations.

8.4 Pediatric Use

Epilepsy

LAMICTAL is indicated as adjunctive therapy in patients aged 2 years and older for partial-onset seizures, the generalized seizures of Lennox-Gastaut syndrome, and PGTC seizures.

Safety and efficacy of LAMICTAL used as adjunctive treatment for partial-onset seizures were not demonstrated in a small, randomized, double-blind, placebo-controlled withdrawal trial in very young pediatric patients (aged 1 to 24 months). LAMICTAL was associated with an increased risk for infectious adverse reactions (LAMICTAL 37%, placebo 5%), and respiratory adverse reactions (LAMICTAL 26%, placebo 5%). Infectious adverse reactions included bronchiolitis, bronchitis, ear infection, eye infection, otitis externa, pharyngitis, urinary tract infection, and viral infection. Respiratory adverse reactions included nasal congestion, cough, and apnea.

<u>Bipolar Disorder</u>

Safety and efficacy of LAMICTAL for the maintenance treatment of bipolar disorder were not established in a double-blind, randomized withdrawal, placebo-controlled trial that evaluated 301 pediatric patients aged 10 to 17 years with a current manic/hypomanic, depressed, or mixed mood episode as defined by DSM-IV-TR. In the randomized phase of the trial, adverse reactions that occurred in at least 5% of patients taking LAMICTAL (n = 87) and were twice as common compared with patients taking placebo (n = 86) were influenza (LAMICTAL 8%, placebo 2%), oropharyngeal pain (LAMICTAL 8%, placebo 2%), vomiting (LAMICTAL 6%, placebo 2%), contact dermatitis (LAMICTAL 5%, placebo 2%), upper abdominal pain (LAMICTAL 5%, placebo 1%), and suicidal ideation (LAMICTAL 5%, placebo 0%).

<u>Juvenile Animal Data</u>

In a juvenile animal study in which lamotrigine (oral doses of 0, 5, 15, or 30 mg/kg) was administered to young rats from postnatal day 7 to 62, decreased viability and growth were seen at the highest dose tested and long-term neurobehavioral abnormalities (decreased locomotor activity, increased reactivity, and learning deficits in animals tested as adults) were observed at the 2 highest doses. The no-effect dose for adverse developmental effects in juvenile animals is less than the human dose of 400 mg/day on a mg/m² basis.

8.5 Geriatric Use

Clinical trials of LAMICTAL for epilepsy and bipolar disorder did not include sufficient numbers of patients aged 65 years and older to determine whether they respond differently from younger patients or exhibit a different safety profile than that of younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy.

8.6 Hepatic Impairment

Experience in patients with hepatic impairment is limited. Based on a clinical pharmacology study in 24 subjects with mild, moderate, and severe liver impairment *[see Clinical Pharmacology (12.3)]*, the following general recommendations can be made. No dosage adjustment is needed in patients with mild liver impairment. Initial, escalation, and maintenance doses should generally be reduced by approximately 25% in patients with moderate and severe liver impairment without ascites and 50% in patients with severe liver impairment with ascites. Escalation and maintenance doses may be adjusted according to clinical response *[see Dosage and Administration (2.1)]*.

8.7 Renal Impairment

Lamotrigine is metabolized mainly by glucuronic acid conjugation, with the majority of the metabolites being recovered in the urine. In a small study comparing a single dose of lamotrigine in subjects with varying degrees of renal impairment with healthy volunteers, the plasma half-life of lamotrigine was approximately twice as long in the subjects with chronic renal failure [see Clinical Pharmacology (12.3)].

Initial doses of LAMICTAL should be based on patients' AED regimens; reduced maintenance doses may be effective for patients with significant renal impairment. Few patients with severe renal impairment have been evaluated during chronic treatment with lamotrigine. Because there is inadequate experience in this population, LAMICTAL should be used with caution in these patients *[see Dosage and Administration (2.1)]*.

10.1 Human Overdose Experience

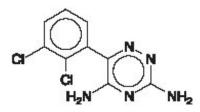
Overdoses involving quantities up to 15 g have been reported for LAMICTAL, some of which have been fatal. Overdose has resulted in ataxia, nystagmus, seizures (including tonic-clonic seizures), decreased level of consciousness, coma, and intraventricular conduction delay.

10.2 Management of Overdose

There are no specific antidotes for lamotrigine. Following a suspected overdose, hospitalization of the patient is advised. General supportive care is indicated, including frequent monitoring of vital signs and close observation of the patient. If indicated, emesis should be induced; usual precautions should be taken to protect the airway. It should be kept in mind that immediate-release lamotrigine is rapidly absorbed [*see Clinical Pharmacology (12.3)*]. It is uncertain whether hemodialysis is an effective means of removing lamotrigine from the blood. In 6 renal failure patients, about 20% of the amount of lamotrigine in the body was removed by hemodialysis during a 4-hour session. A Poison Control Center should be contacted for information on the management of overdosage of LAMICTAL.

11 DESCRIPTION

LAMICTAL (lamotrigine), an AED of the phenyltriazine class, is chemically unrelated to existing AEDs. Lamotrigine's chemical name is 3,5-diamino-6-(2,3-dichlorophenyl)-*as*-triazine, its molecular formula is $C_9H_7N_5Cl_2$, and its molecular weight is 256.09. Lamotrigine is a white to pale cream-colored powder and has a pK_a of 5.7. Lamotrigine is very slightly soluble in water (0.17 mg/mL at 25°C) and slightly soluble in 0.1 M HCl (4.1 mg/mL at 25°C). The structural formula is:



LAMICTAL tablets are supplied for oral administration as 25-mg (white), 100-mg (peach), 150-mg (cream), and 200-mg (blue) tablets. Each tablet contains the labeled amount of lamotrigine and the following inactive ingredients: lactose; magnesium stearate; microcrystalline cellulose; povidone; sodium starch glycolate; FD&C Yellow No. 6 Lake (100-mg tablet only); ferric oxide, yellow (150-mg tablet only); and FD&C Blue No. 2 Lake (200-mg tablet only).

LAMICTAL tablets for oral suspension are supplied for oral administration. The tablets contain 2 mg (white), 5 mg (white), or 25 mg (white) of lamotrigine and the following inactive ingredients: blackcurrant flavor, calcium carbonate, low-substituted hydroxypropylcellulose, magnesium aluminum silicate, magnesium stearate, povidone, saccharin sodium, and sodium starch glycolate. The tablets for oral suspension meet

Organic Impurities Procedure 2 as published in the current USP monograph for Lamotrigine Tablets for Oral Suspension.

LAMICTAL ODT orally disintegrating tablets are supplied for oral administration. The tablets contain 25 mg (white to off-white), 50 mg (white to off-white), 100 mg (white to off-white), or 200 mg (white to off-white) of lamotrigine and the following inactive ingredients: artificial cherry flavor, crospovidone, ethylcellulose, magnesium stearate, mannitol, polyethylene, and sucralose.

LAMICTAL ODT orally disintegrating tablets are formulated using technologies (Microcaps and AdvaTab) designed to mask the bitter taste of lamotrigine and achieve a rapid dissolution profile. Tablet characteristics including flavor, mouth-feel, after-taste, and ease of use were rated as favorable in a study in 108 healthy volunteers.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The precise mechanism(s) by which lamotrigine exerts its anticonvulsant action are unknown. In animal models designed to detect anticonvulsant activity, lamotrigine was effective in preventing seizure spread in the maximum electroshock (MES) and pentylenetetrazol (scMet) tests, and prevented seizures in the visually and electrically evoked after-discharge (EEAD) tests for antiepileptic activity. Lamotrigine also displayed inhibitory properties in the kindling model in rats both during kindling development and in the fully kindled state. The relevance of these models to human epilepsy, however, is not known.

One proposed mechanism of action of lamotrigine, the relevance of which remains to be established in humans, involves an effect on sodium channels. In vitro pharmacological studies suggest that lamotrigine inhibits voltage-sensitive sodium channels, thereby stabilizing neuronal membranes and consequently modulating presynaptic transmitter release of excitatory amino acids (e.g., glutamate and aspartate).

Effect of Lamotrigine on N-Methyl d-Aspartate-Receptor-Mediated Activity

Lamotrigine did not inhibit N-methyl d-aspartate (NMDA)-induced depolarizations in rat cortical slices or NMDA-induced cyclic GMP formation in immature rat cerebellum, nor did lamotrigine displace compounds that are either competitive or noncompetitive ligands at this glutamate receptor complex (CNQX, CGS, TCHP). The IC₅₀ for lamotrigine effects on NMDA-induced currents (in the presence of 3 μ M of glycine) in cultured hippocampal neurons exceeded 100 μ M.

The mechanisms by which lamotrigine exerts its therapeutic action in bipolar disorder have not been established.

12.2 Pharmacodynamics

Folate Metabolism

In vitro, lamotrigine inhibited dihydrofolate reductase, the enzyme that catalyzes the reduction of dihydrofolate to tetrahydrofolate. Inhibition of this enzyme may interfere with the biosynthesis of nucleic acids and proteins. When oral daily doses of lamotrigine were given to pregnant rats during organogenesis, fetal, placental, and maternal folate

concentrations were reduced. Significantly reduced concentrations of folate are associated with teratogenesis [see Use in Specific Populations (8.1)]. Folate concentrations were also reduced in male rats given repeated oral doses of lamotrigine. Reduced concentrations were partially returned to normal when supplemented with folinic acid.

Cardiac Electrophysiology

Effect of Lamotrigine: In vitro studies show that lamotrigine exhibits Class IB antiarrhythmic activity at therapeutically relevant concentrations. It inhibits human cardiac sodium channels with rapid onset and offset kinetics and strong voltage dependence, consistent with other Class IB antiarrhythmic agents. At therapeutic doses, LAMICTAL did not slow ventricular conduction (widen QRS) in healthy individuals in a thorough QT study; however, in patients with clinically important structural or functional heart disease (i.e., patients with heart failure, valvular heart disease, congenital heart disease, conduction system disease, ventricular arrhythmias, cardiac channelopathies [e.g., Brugada syndrome], clinically important ischemic heart disease, or multiple risk factors for coronary artery disease), LAMICTAL could slow ventricular conduction (widen QRS) and induce proarrhythmia, which can lead to sudden death. Elevated heart rates could also increase the risk of ventricular conduction slowing with LAMICTAL.

Effect of Lamotrigine Metabolite: In dogs, lamotrigine is extensively metabolized to a 2-Nmethyl metabolite. This metabolite causes dose-dependent prolongation of the PR interval, widening of the QRS complex, and, at higher doses, complete AV conduction block. The in vitro electrophysiological effects of this metabolite have not been studied. Similar cardiovascular effects from this metabolite are not anticipated in humans because only trace amounts of the 2-N-methyl metabolite (<0.6% of lamotrigine dose) have been found in human urine [*see Clinical Pharmacology (12.3)*]. However, it is conceivable that plasma concentrations of this metabolite could be increased in patients with a reduced capacity to glucuronidate lamotrigine (e.g., in patients with liver disease, patients taking concomitant medications that inhibit glucuronidation).

Accumulation in Kidneys

Lamotrigine accumulated in the kidney of the male rat, causing chronic progressive nephrosis, necrosis, and mineralization. These findings are attributed to α -2 microglobulin, a species- and sex-specific protein that has not been detected in humans or other animal species.

<u>Melanin Binding</u>

Lamotrigine binds to melanin-containing tissues, e.g., in the eye and pigmented skin. It has been found in the uveal tract up to 52 weeks after a single dose in rodents.

12.3 Pharmacokinetics

The pharmacokinetics of lamotrigine have been studied in subjects with epilepsy, healthy young and elderly volunteers, and volunteers with chronic renal failure. Lamotrigine pharmacokinetic parameters for adult and pediatric subjects and healthy normal volunteers are summarized in Tables 14 and 16.

Table 14. Mean Pharmacokinetic Parametersa in Healthy Volunteers andAdult Subjects with Epilepsy

Adult Study Population	Number of Subjects	T _{max} : Time of Maximum Plasma Concentration (h)	t½: Elimination Half-life (h)	CL/F: Apparent Plasma Clearance (mL/min/kg)
Healthy volunteers taking no other medications:				
Single-dose LAMICTAL	179	2.2 (0.25-12.0)	32.8 (14.0-103.0)	0.44 (0.12-1.10)
Multiple-dose LAMICTAL	36	1.7 (0.5-4.0)	25.4 (11.6-61.6)	0.58 (0.24-1.15)
Healthy volunteers taking valproate:				
Single-dose LAMICTAL	6	1.8 (1.0-4.0)	48.3 (31.5-88.6)	0.30 (0.14-0.42)
Multiple-dose LAMICTAL	18	1.9 (0.5-3.5)	70.3 (41.9-113.5)	0.18 (0.12-0.33)
Subjects with epilepsy taking valproate only:				
Single-dose LAMICTAL	4	4.8 (1.8-8.4)	58.8 (30.5-88.8)	0.28 (0.16-0.40)
Subjects with epilepsy taking carbamazepine, phenytoin, phenobarbital, or primidone ^b plus valproate: Single-dose LAMICTAL	25	3.8	27.2	0.53
Subjects with		(1.0-10.0)	(11.2-51.6)	(0.27-1.04)
epilepsy taking carbamazepine, phenytoin, phenobarbital, or primidone: ^b				
Single-dose LAMICTAL	24	2.3 (0.5-5.0)	14.4 (6.4-30.4)	1.10 (0.51-2.22)
Multiple-dose LAMICTAL	17	2.0 (0.75-5.93)	12.6 (7.5-23.1)	1.21 (0.66-1.82)

^a The majority of parameter means determined in each study had coefficients of variation between 20% and 40% for half-life and CL/F and between 30% and 70% for T_{max} . The overall mean values were calculated from individual study means that were weighted based on the number of volunteers/subjects in each study. The numbers in parentheses below each parameter mean represent the range of individual volunteer/subject values across studies.

^b Carbamazepine, phenytoin, phenobarbital, and primidone have been shown to increase

the apparent clearance of lamotrigine. Estrogen-containing oral contraceptives and other drugs, such as rifampin and protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir, that induce lamotrigine glucuronidation have also been shown to increase the apparent clearance of lamotrigine [see Drug Interactions (7)].

<u>Absorption</u>

Lamotrigine is rapidly and completely absorbed after oral administration with negligible first-pass metabolism (absolute bioavailability is 98%). The bioavailability is not affected by food. Peak plasma concentrations occur anywhere from 1.4 to 4.8 hours following drug administration. The lamotrigine tablets for oral suspension were found to be equivalent, whether administered as dispersed in water, chewed and swallowed, or swallowed whole, to the lamotrigine compressed tablets in terms of rate and extent of absorption. In terms of rate and extent of absorption, lamotrigine orally disintegrating tablets, whether disintegrated in the mouth or swallowed whole with water, were equivalent to the lamotrigine compressed tablets swallowed with water.

Dose Proportionality

In healthy volunteers not receiving any other medications and given single doses, the plasma concentrations of lamotrigine increased in direct proportion to the dose administered over the range of 50 to 400 mg. In 2 small studies (n = 7 and 8) of patients with epilepsy who were maintained on other AEDs, there also was a linear relationship between dose and lamotrigine plasma concentrations at steady state following doses of 50 to 350 mg twice daily.

Distribution

Estimates of the mean apparent volume of distribution (Vd/F) of lamotrigine following oral administration ranged from 0.9 to 1.3 L/kg. Vd/F is independent of dose and is similar following single and multiple doses in both patients with epilepsy and in healthy volunteers.

Protein Binding

Data from in vitro studies indicate that lamotrigine is approximately 55% bound to human plasma proteins at plasma lamotrigine concentrations from 1 to 10 mcg/mL (10 mcg/mL is 4 to 6 times the trough plasma concentration observed in the controlled efficacy trials). Because lamotrigine is not highly bound to plasma proteins, clinically significant interactions with other drugs through competition for protein binding sites are unlikely. The binding of lamotrigine to plasma proteins did not change in the presence of therapeutic concentrations of phenytoin, phenobarbital, or valproate. Lamotrigine did not displace other AEDs (carbamazepine, phenytoin, phenobarbital) from protein-binding sites.

<u>Metabolis m</u>

Lamotrigine is metabolized predominantly by glucuronic acid conjugation; the major metabolite is an inactive 2-N-glucuronide conjugate. After oral administration of 240 mg of ¹⁴C-lamotrigine (15 μ Ci) to 6 healthy volunteers, 94% was recovered in the urine and 2% was recovered in the feces. The radioactivity in the urine consisted of unchanged lamotrigine (10%), the 2-N-glucuronide (76%), a 5-N-glucuronide (10%), a 2-N-methyl metabolite (0.14%), and other unidentified minor metabolites (4%).

Enzyme Induction

The effects of lamotrigine on the induction of specific families of mixed-function oxidase isozymes have not been systematically evaluated.

Following multiple administrations (150 mg twice daily) to normal volunteers taking no other medications, lamotrigine induced its own metabolism, resulting in a 25% decrease in $t_{1/2}$ and a 37% increase in CL/F at steady state compared with values obtained in the same volunteers following a single dose. Evidence gathered from other sources suggests that self-induction by lamotrigine may not occur when lamotrigine is given as adjunctive therapy in patients receiving enzyme-inducing drugs such as carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation [see Drug Interactions (7)].

Elimination

The elimination half-life and apparent clearance of lamotrigine following oral administration of LAMICTAL to adult subjects with epilepsy and healthy volunteers is summarized in Table 14. Half-life and apparent oral clearance vary depending on concomitant AEDs.

Drug Interactions

The apparent clearance of lamotrigine is affected by the coadministration of certain medications [see Warnings and Precautions (5.9, 5.12), Drug Interactions (7)].

The net effects of drug interactions with lamotrigine are summarized in Tables 13 and 15, followed by details of the drug interaction studies below.

Drug	Drug Plasma Concentration with Adjunctive Lamotrigine ^a	Lamotrigine Plasma Concentration with Adjunctive Drugs ^b
Oral contraceptives (e.g., ethinylestradiol/levonorgestrel) ^c	⇔d	Ļ
Aripiprazole	Not assessed	⇔e
Atazanavir/ritonavir	⇔ ^f	\downarrow
Bupropion	Not assessed	\leftrightarrow
Carbamazepine	\leftrightarrow	Ļ
Carbamazepine epoxide ^g	?	
Felbamate	Not assessed	\leftrightarrow
Gabapentin	Not assessed	\leftrightarrow
Lacosamide	Not assessed	\leftrightarrow
Levetiracetam	\leftrightarrow	\leftrightarrow
Lithium	\leftrightarrow	Not assessed
Lopinavir/ritonavir	⇔ ^e	↓
Olanzapine	\leftrightarrow	⇔e
Oxcarbazepine	\leftrightarrow	\leftrightarrow
10-Monohydroxy oxcarbazepine	\leftrightarrow	

 Table 15. Summary of Drug Interactions with Lamotrigine

metabolite ^h		
Perampanel	Not assessed	⇔e
Phenobarbital/primidone	\leftrightarrow	\downarrow
Phenytoin	\leftrightarrow	\downarrow
Pregabalin	\leftrightarrow	\leftrightarrow
Rifampin	Not assessed	\downarrow
Risperidone	\leftrightarrow	Not assessed
9-Hydroxyrisperidone ⁱ	\leftrightarrow	
Topiramate	⇔j	\leftrightarrow
Valproate	Ļ	1
Valproate + phenytoin and/or	Not assessed	\leftrightarrow
carbamazepine		
Zonisamide	Not assessed	\leftrightarrow

^a From adjunctive clinical trials and volunteer trials.

^b Net effects were estimated by comparing the mean clearance values obtained in adjunctive clinical trials and volunteer trials.

^c The effect of other hormonal contraceptive preparations or hormone replacement therapy on the pharmacokinetics of lamotrigine has not been systematically evaluated in clinical trials, although the effect may be similar to that seen with the

ethinylestradiol/levonorgestrel combinations.

^d Modest decrease in levonorgestrel.

^e Slight decrease, not expected to be clinically meaningful.

^f Compared with historical controls.

^g Not administered, but an active metabolite of carbamazepine.

^h Not administered, but an active metabolite of oxcarbazepine.

ⁱ Not administered, but an active metabolite of risperidone.

^j Slight increase, not expected to be clinically meaningful.

 \leftrightarrow = No significant effect.

? = Conflicting data.

Estrogen-Containing Oral Contraceptives

In 16 female volunteers, an oral contraceptive preparation containing 30 mcg ethinylestradiol and 150 mcg levonorgestrel increased the apparent clearance of lamotrigine (300 mg/day) by approximately 2-fold with mean decreases in AUC of 52% and in C_{max} of 39%. In this study, trough serum lamotrigine concentrations gradually increased and were approximately 2-fold higher on average at the end of the week of the inactive hormone preparation compared with trough lamotrigine concentrations at the end of the active hormone cycle.

Gradual transient increases in lamotrigine plasma levels (approximate 2-fold increase) occurred during the week of inactive hormone preparation (pill-free week) for women not also taking a drug that increased the clearance of lamotrigine (carbamazepine, phenytoin, phenobarbital, primidone, or other drugs such as rifampin and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir that induce lamotrigine glucuronidation) [see Drug Interactions (7)]. The increase in lamotrigine plasma levels will be greater if the dose of LAMICTAL is increased in the few days before or during the pill-free week. Increases in lamotrigine plasma levels could result in dose-dependent adverse reactions.

In the same study, coadministration of lamotrigine (300 mg/day) in 16 female volunteers did not affect the pharmacokinetics of the ethinylestradiol component of the oral contraceptive preparation. There were mean decreases in the AUC and C_{max} of the levonorgestrel component of 19% and 12%, respectively. Measurement of serum progesterone indicated that there was no hormonal evidence of ovulation in any of the 16 volunteers, although measurement of serum FSH, LH, and estradiol indicated that there was some loss of suppression of the hypothalamic-pituitary-ovarian axis.

The effects of doses of lamotrigine other than 300 mg/day have not been systematically evaluated in controlled clinical trials. Studies with other female hormonal preparations (including progesterone/progesterone-containing HRT) have not been conducted.

The clinical significance of the observed hormonal changes on ovulatory activity is unknown. However, the possibility of decreased contraceptive efficacy in some patients cannot be excluded. Therefore, patients should be instructed to promptly report changes in their menstrual pattern (e.g., break-through bleeding).

Dosage adjustments may be necessary for women receiving estrogen-containing products, including oral contraceptive preparations [see Dosage and Administration (2.1)].

Other Hormonal Contraceptives or Hormone Replacement Therapy

The effect of other hormonal contraceptive preparations or hormone replacement therapy on the pharmacokinetics of lamotrigine has not been systematically evaluated. It has been reported that ethinylestradiol, not progestogens, increased the clearance of lamotrigine up to 2-fold, and the progestin-only pills had no effect on lamotrigine plasma levels. Therefore, adjustments to the dosage of LAMICTAL in the presence of progestogens alone will likely not be needed.

<u>Aripiprazole</u>

In 18 patients with bipolar disorder on a stable regimen of 100 to 400 mg/day of lamotrigine, the lamotrigine AUC and C_{max} were reduced by approximately 10% in patients who received aripiprazole 10 to 30 mg/day for 7 days, followed by 30 mg/day for an additional 7 days. This reduction in lamotrigine exposure is not considered clinically meaningful.

<u>Atazanavir/Ritonavir</u>

In a study in healthy volunteers, daily doses of atazanavir/ritonavir (300 mg/100 mg) reduced the plasma AUC and C_{max} of lamotrigine (single 100-mg dose) by an average of 32% and 6%, respectively, and shortened the elimination half-lives by 27%. In the presence of atazanavir/ritonavir (300 mg/100 mg), the metabolite-to-lamotrigine ratio was increased from 0.45 to 0.71 consistent with induction of glucuronidation. The pharmacokinetics of atazanavir/ritonavir were similar in the presence of concomitant lamotrigine to the historical data of the pharmacokinetics in the absence of lamotrigine.

<u>Bupropion</u>

The pharmacokinetics of a 100-mg single dose of lamotrigine in healthy volunteers (n = 12) were not changed by coadministration of bupropion sustained-release formulation (150 mg twice daily) starting 11 days before lamotrigine.

<u>Carbamazepine</u>

Lamotrigine has no appreciable effect on steady-state carbamazepine plasma concentration. Limited clinical data suggest there is a higher incidence of dizziness, diplopia, ataxia, and blurred vision in patients receiving carbamazepine with lamotrigine than in patients receiving other AEDs with lamotrigine [see Adverse Reactions (6.1)]. The mechanism of this interaction is unclear. The effect of lamotrigine on plasma concentrations of carbamazepine-epoxide is unclear. In a small subset of patients (n = 7) studied in a placebo-controlled trial, lamotrigine had no effect on carbamazepineepoxide plasma concentrations, but in a small, uncontrolled study (n = 9), carbamazepine-epoxide levels increased.

The addition of carbamazepine decreases lamotrigine steady-state concentrations by approximately 40%.

<u>Felbamate</u>

In a trial in 21 healthy volunteers, coadministration of felbamate (1,200 mg twice daily) with lamotrigine (100 mg twice daily for 10 days) appeared to have no clinically relevant effects on the pharmacokinetics of lamotrigine.

Folate Inhibitors

Lamotrigine is a weak inhibitor of dihydrofolate reductase. Prescribers should be aware of this action when prescribing other medications that inhibit folate metabolism.

Gabapentin

Based on a retrospective analysis of plasma levels in 34 subjects who received lamotrigine both with and without gabapentin, gabapentin does not appear to change the apparent clearance of lamotrigine.

<u>Lacosamide</u>

Plasma concentrations of lamotrigine were not affected by concomitant lacosamide (200, 400, or 600 mg/day) in placebo-controlled clinical trials in patients with partial-onset seizures.

<u>Levetiracetam</u>

Potential drug interactions between levetiracetam and lamotrigine were assessed by evaluating serum concentrations of both agents during placebo-controlled clinical trials. These data indicate that lamotrigine does not influence the pharmacokinetics of levetiracetam and that levetiracetam does not influence the pharmacokinetics of lamotrigine.

<u>Lithium</u>

The pharmacokinetics of lithium were not altered in healthy subjects (n = 20) by coadministration of lamotrigine (100 mg/day) for 6 days.

Lopinavir/Ritonavir

The addition of lopinavir (400 mg twice daily)/ritonavir (100 mg twice daily) decreased the AUC, C_{max}, and elimination half-life of lamotrigine by approximately 50% to 55.4% in 18 healthy subjects. The pharmacokinetics of lopinavir/ritonavir were similar with concomitant lamotrigine, compared with that in historical controls.

<u>Olanzapine</u>

The AUC and C_{max} of olanzapine were similar following the addition of olanzapine (15 mg once daily) to lamotrigine (200 mg once daily) in healthy male volunteers (n = 16) compared with the AUC and C_{max} in healthy male volunteers receiving olanzapine alone (n = 16).

In the same trial, the AUC and C_{max} of lamotrigine were reduced on average by 24% and 20%, respectively, following the addition of olanzapine to lamotrigine in healthy male volunteers compared with those receiving lamotrigine alone. This reduction in lamotrigine plasma concentrations is not expected to be clinically meaningful.

<u>Oxcarbazepine</u>

The AUC and C_{max} of oxcarbazepine and its active 10-monohydroxy oxcarbazepine metabolite were not significantly different following the addition of oxcarbazepine (600 mg twice daily) to lamotrigine (200 mg once daily) in healthy male volunteers (n = 13) compared with healthy male volunteers receiving oxcarbazepine alone (n = 13).

In the same trial, the AUC and C_{max} of lamotrigine were similar following the addition of oxcarbazepine (600 mg twice daily) to lamotrigine in healthy male volunteers compared with those receiving lamotrigine alone. Limited clinical data suggest a higher incidence of headache, dizziness, nausea, and somnolence with coadministration of lamotrigine and oxcarbazepine compared with lamotrigine alone or oxcarbazepine alone.

<u>Perampanel</u>

In a pooled analysis of data from 3 placebo-controlled clinical trials investigating adjunctive perampanel in patients with partial-onset and PGTC seizures, the highest perampanel dose evaluated (12 mg/day) increased lamotrigine clearance by <10%. An effect of this magnitude is not considered to be clinically relevant.

Phenobarbital, Primidone

The addition of phenobarbital or primidone decreases lamotrigine steady-state concentrations by approximately 40%.

<u>Phenytoin</u>

Lamotrigine has no appreciable effect on steady-state phenytoin plasma concentrations in patients with epilepsy. The addition of phenytoin decreases lamotrigine steady-state concentrations by approximately 40%.

<u>Pregabalin</u>

Steady-state trough plasma concentrations of lamotrigine were not affected by concomitant pregabalin (200 mg 3 times daily) administration. There are no pharmacokinetic interactions between lamotrigine and pregabalin.

<u>Rifampin</u>

In 10 male volunteers, rifampin (600 mg/day for 5 days) significantly increased the apparent clearance of a single 25-mg dose of lamotrigine by approximately 2-fold (AUC decreased by approximately 40%).

<u>Risperidone</u>

In a 14 healthy volunteers study, multiple oral doses of lamotrigine 400 mg daily had no clinically significant effect on the single-dose pharmacokinetics of risperidone 2 mg and its active metabolite 9-OH risperidone. Following the coadministration of risperidone

2 mg with lamotrigine, 12 of the 14 volunteers reported somnolence compared with 1 out of 20 when risperidone was given alone, and none when lamotrigine was administered alone.

<u>Topiramate</u>

Topiramate resulted in no change in plasma concentrations of lamotrigine. Administration of lamotrigine resulted in a 15% increase in topiramate concentrations.

<u>Valproate</u>

When lamotrigine was administered to healthy volunteers (n = 18) receiving valproate, the trough steady-state valproate plasma concentrations decreased by an average of 25% over a 3-week period, and then stabilized. However, adding lamotrigine to the existing therapy did not cause a change in valproate plasma concentrations in either adult or pediatric patients in controlled clinical trials.

The addition of valproate increased lamotrigine steady-state concentrations in normal volunteers by slightly more than 2-fold. In 1 trial, maximal inhibition of lamotrigine clearance was reached at valproate doses between 250 and 500 mg/day and did not increase as the valproate dose was further increased.

<u>Zonisamide</u>

In a study in 18 patients with epilepsy, coadministration of zonisamide (200 to 400 mg/day) with lamotrigine (150 to 500 mg/day for 35 days) had no significant effect on the pharmacokinetics of lamotrigine.

Known Inducers or Inhibitors of Glucuronidation

Drugs other than those listed above have not been systematically evaluated in combination with lamotrigine. Since lamotrigine is metabolized predominately by glucuronic acid conjugation, drugs that are known to induce or inhibit glucuronidation may affect the apparent clearance of lamotrigine and doses of lamotrigine may require adjustment based on clinical response.

<u>Other</u>

In vitro assessment of the inhibitory effect of lamotrigine at OCT2 demonstrate that lamotrigine, but not the N(2)-glucuronide metabolite, is an inhibitor of OCT2 at potentially clinically relevant concentrations, with IC₅₀ value of 53.8 μ M [see Drug Interactions (7)].

Results of in vitro experiments suggest that clearance of lamotrigine is unlikely to be reduced by concomitant administration of amitriptyline, clonazepam, clozapine, fluoxetine, haloperidol, lorazepam, phenelzine, sertraline, or trazodone.

Results of in vitro experiments suggest that lamotrigine does not reduce the clearance of drugs eliminated predominantly by CYP2D6.

Specific Populations

Patients with Renal Impairment: Twelve volunteers with chronic renal failure (mean creatinine clearance: 13 mL/min, range: 6 to 23) and another 6 individuals undergoing hemodialysis were each given a single 100-mg dose of lamotrigine. The mean plasma half-lives determined in the study were 42.9 hours (chronic renal failure), 13.0 hours (during hemodialysis), and 57.4 hours (between hemodialysis) compared with 26.2 hours in healthy volunteers. On average, approximately 20% (range: 5.6 to 35.1) of the

amount of lamotrigine present in the body was eliminated by hemodialysis during a 4-hour session [see Dosage and Administration (2.1)].

Patients with Hepatic Impairment: The pharmacokinetics of lamotrigine following a single 100-mg dose of lamotrigine were evaluated in 24 subjects with mild, moderate, and severe hepatic impairment (Child-Pugh classification system) and compared with 12 subjects without hepatic impairment. The subjects with severe hepatic impairment were without ascites (n = 2) or with ascites (n = 5). The mean apparent clearances of lamotrigine in subjects with mild (n = 12), moderate (n = 5), severe without ascites (n = 2), and severe with ascites (n = 5) liver impairment were 0.30 ± 0.09, 0.24 ± 0.1, 0.21 ± 0.04, and 0.15 ± 0.09 mL/min/kg, respectively, as compared with 0.37 ± 0.1 mL/min/kg in the healthy controls. Mean half-lives of lamotrigine in subjects with mild, moderate, severe without ascites, and severe with ascites hepatic impairment were 46 ± 20, 72 ± 44, 67 ± 11, and 100 ± 48 hours, respectively, as compared with 33 ± 7 hours in healthy controls [see Dosage and Administration (2.1)].

Pediatric Patients: The pharmacokinetics of lamotrigine following a single 2-mg/kg dose were evaluated in 2 studies in pediatric subjects (n = 29 for subjects aged 10 months to 5.9 years and n = 26 for subjects aged 5 to 11 years). Forty-three subjects received concomitant therapy with other AEDs and 12 subjects received lamotrigine as monotherapy. Lamotrigine pharmacokinetic parameters for pediatric patients are summarized in Table 16.

Population pharmacokinetic analyses involving subjects aged 2 to 18 years demonstrated that lamotrigine clearance was influenced predominantly by total body weight and concurrent AED therapy. The oral clearance of lamotrigine was higher, on a body weight basis, in pediatric patients than in adults. Weight-normalized lamotrigine clearance was higher in those subjects weighing <30 kg compared with those weighing >30 kg. Accordingly, patients weighing <30 kg may need an increase of as much as 50% in maintenance doses, based on clinical response, as compared with subjects weighing >30 kg being administered the same AEDs [see Dosage and Administration (2.2)]. These analyses also revealed that, after accounting for body weight, lamotrigine clearance was not significantly influenced by age. Thus, the same weight-adjusted doses should be administered to children irrespective of differences in age. Concomitant AEDs which influence lamotrigine clearance in adults were found to have similar effects in children.

Pediatric Study Population	Number of Subjects	T _{max} (h)	t _½ (h)	CL/F (mL/min/kg)
Ages 10 months-5.3				
years				
Subjects taking carbamazepine, phenytoin, phenobarbital, or primidone ^a	10	3.0 (1.0-5.9)	7.7 (5.7-11.4)	3.62 (2.44-5.28)
Subjects taking antiepileptic drugs with no known effect on the apparent clearance of lamotrigine	7	5.2 (2.9-6.1)	19.0 (12.9-27.1)	1.2 (0.75-2.42)

Table 16. Mean Pharmacokinetic Parameters in Pediatric Subjects withEpilepsy

Subjects taking valproate	8	2.9	44.9	0.47
only		(1.0-6.0)	(29.5-52.5)	(0.23-0.77)
Ages 5-11 years				
Subjects taking	7	1.6	7.0	2.54
carbamazepine, phenytoin,		(1.0-3.0)	(3.8-9.8)	(1.35-5.58)
phenobarbital, or primidone ^a				
Subjects taking	8	3.3	19.1	0.89
carbamazepine, phenytoin,		(1.0-6.4)	(7.0-31.2)	(0.39-1.93)
phenobarbital, or primidonea				
plus valproate				
Subjects taking valproate	3	4.5	65.8	0.24
only ^b		(3.0-6.0)	(50.7-73.7)	(0.21-0.26)
Ages 13-18 years				
Subjects taking	11	C	C	1.3
carbamazepine, phenytoin,				
phenobarbital, or primidone ^a				
Subjects taking	8	C	C	0.5
carbamazepine, phenytoin,				
phenobarbital, or primidone ^a				
plus valproate				
Subjects taking valproate	4	C	C	0.3
only				

^a Carbamazepine, phenytoin, phenobarbital, and primidone have been shown to increase the apparent clearance of lamotrigine. Estrogen-containing oral contraceptives, rifampin, and the protease inhibitors lopinavir/ritonavir and atazanavir/ritonavir have also been shown to increase the apparent clearance of lamotrigine [see Drug Interactions (7)].

^b Two subjects were included in the calculation for mean T_{max} .

^c Parameter not estimated.

Geriatric Patients: The pharmacokinetics of lamotrigine following a single 150-mg dose of lamotrigine were evaluated in 12 elderly volunteers between the ages of 65 and 76 years (mean creatinine clearance = 61 mL/min, range: 33 to 108 mL/min). The mean half-life of lamotrigine in these subjects was 31.2 hours (range: 24.5 to 43.4 hours), and the mean clearance was 0.40 mL/min/kg (range: 0.26 to 0.48 mL/min/kg).

Male and Female Patients: The clearance of lamotrigine is not affected by gender. However, during dose escalation of lamotrigine in 1 clinical trial in patients with epilepsy on a stable dose of valproate (n = 77), mean trough lamotrigine concentrations unadjusted for weight were 24% to 45% higher (0.3 to 1.7 mcg/mL) in females than in males.

Racial or Ethnic Groups: The apparent oral clearance of lamotrigine was 25% lower in non-Caucasians than Caucasians.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No evidence of carcinogenicity was seen in mice or rats following oral administration of lamotrigine for up to 2 years at doses up to 30 mg/kg/day and 10 to 15 mg/kg/day, respectively. The highest doses tested are less than the human dose of 400 mg/day on a body surface area (mg/m²) basis.

Lamotrigine was negative in in vitro gene mutation (Ames and mouse lymphoma *tk*) assays and in clastogenicity (in vitro human lymphocyte and in vivo rat bone marrow) assays.

No evidence of impaired fertility was detected in rats given oral doses of lamotrigine up to 20 mg/kg/day. The highest dose tested is less than the human dose of 400 mg/day on a mg/m² basis.

14 CLINICAL STUDIES

14.1 Epilepsy

<u>Monotherapy with LAMICTAL in Adults with Partial-Onset Seizures Already Receiving</u> <u>Treatment with Carbamazepine, Phenytoin, Phenobarbital, or Primidone as the Single</u> <u>Antiepileptic Drug</u>

The effectiveness of monotherapy with LAMICTAL was established in a multicenter, double-blind clinical trial enrolling 156 adult outpatients with partial-onset seizures. The patients experienced at least 4 simple partial-onset, complex partial-onset, and/or secondarily generalized seizures during each of 2 consecutive 4-week periods while receiving carbamazepine or phenytoin monotherapy during baseline. LAMICTAL (target dose of 500 mg/day) or valproate (1,000 mg/day) was added to either carbamazepine or phenytoin monotherapy over a 4-week period. Patients were then converted to monotherapy with LAMICTAL or valproate during the next 4 weeks, then continued on monotherapy for an additional 12-week period.

Trial endpoints were completion of all weeks of trial treatment or meeting an escape criterion. Criteria for escape relative to baseline were: (1) doubling of average monthly seizure count, (2) doubling of highest consecutive 2-day seizure frequency, (3) emergence of a new seizure type (defined as a seizure that did not occur during the 8-week baseline) that is more severe than seizure types that occur during study treatment, or (4) clinically significant prolongation of generalized tonic-clonic seizures. The primary efficacy variable was the proportion of patients in each treatment group who met escape criteria.

The percentages of patients who met escape criteria were 42% (32/76) in the group receiving LAMICTAL and 69% (55/80) in the valproate group. The difference in the percentage of patients meeting escape criteria was statistically significant (P = 0.0012) in favor of LAMICTAL. No differences in efficacy based on age, sex, or race were detected.

Patients in the control group were intentionally treated with a relatively low dose of valproate; as such, the sole objective of this trial was to demonstrate the effectiveness and safety of monotherapy with LAMICTAL, and cannot be interpreted to imply the superiority of LAMICTAL to an adequate dose of valproate.

Adjunctive Therapy with LAMICTAL in Adults with Partial-Onset Seizures

The effectiveness of LAMICTAL as adjunctive therapy (added to other AEDs) was initially established in 3 pivotal, multicenter, placebo-controlled, double-blind clinical trials in 355 adults with refractory partial-onset seizures. The patients had a history of at least 4 partial-onset seizures per month in spite of receiving 1 or more AEDs at therapeutic concentrations and in 2 of the trials were observed on their established AED regimen during baselines that varied between 8 to 12 weeks. In the third trial, patients were not observed in a prospective baseline. In patients continuing to have at least 4 seizures per month during the baseline, LAMICTAL or placebo was then added to the existing therapy. In all 3 trials, change from baseline in seizure frequency was the primary measure of effectiveness. The results given below are for all partial-onset seizures in the intent-to-treat population (all patients who received at least 1 dose of treatment) in each trial, unless otherwise indicated. The median seizure frequency at baseline was 3 per week while the mean at baseline was 6.6 per week for all patients enrolled in efficacy trials.

One trial (n = 216) was a double-blind, placebo-controlled, parallel trial consisting of a 24-week treatment period. Patients could not be on more than 2 other anticonvulsants and valproate was not allowed. Patients were randomized to receive placebo, a target dose of 300 mg/day of LAMICTAL, or a target dose of 500 mg/day of LAMICTAL. The median reductions in the frequency of all partial-onset seizures relative to baseline were 8% in patients receiving placebo, 20% in patients receiving 300 mg/day of LAMICTAL, and 36% in patients receiving 500 mg/day of LAMICTAL. The seizure frequency reduction was statistically significant in the 500-mg/day group compared with the placebo group, but not in the 300-mg/day group.

A second trial (n = 98) was a double-blind, placebo-controlled, randomized, crossover trial consisting of two 14-week treatment periods (the last 2 weeks of which consisted of dose tapering) separated by a 4-week washout period. Patients could not be on more than 2 other anticonvulsants and valproate was not allowed. The target dose of LAMICTAL was 400 mg/day. When the first 12 weeks of the treatment periods were analyzed, the median change in seizure frequency was a 25% reduction on LAMICTAL compared with placebo (P<0.001).

The third trial (n = 41) was a double-blind, placebo-controlled, crossover trial consisting of two 12-week treatment periods separated by a 4-week washout period. Patients could not be on more than 2 other anticonvulsants. Thirteen patients were on concomitant valproate; these patients received 150 mg/day of LAMICTAL. The 28 other patients had a target dose of 300 mg/day of LAMICTAL. The median change in seizure frequency was a 26% reduction on LAMICTAL compared with placebo (P<0.01).

No differences in efficacy based on age, sex, or race, as measured by change in seizure frequency, were detected.

Adjunctive Therapy with LAMICTAL in Pediatric Patients with Partial-Onset Seizures

The effectiveness of LAMICTAL as adjunctive therapy in pediatric patients with partialonset seizures was established in a multicenter, double-blind, placebo-controlled trial in 199 patients aged 2 to 16 years (n = 98 on LAMICTAL, n = 101 on placebo). Following an 8-week baseline phase, patients were randomized to 18 weeks of treatment with LAMICTAL or placebo added to their current AED regimen of up to 2 drugs. Patients were dosed based on body weight and valproate use. Target doses were designed to approximate 5 mg/kg/day for patients taking valproate (maximum dose: 250 mg/day) and 15 mg/kg/day for the patients not taking valproate (maximum dose: 750 mg/day). The primary efficacy endpoint was percentage change from baseline in all partial-onset seizures. For the intent-to-treat population, the median reduction of all partial-onset seizures was 36% in patients treated with LAMICTAL and 7% on placebo, a difference that was statistically significant (P<0.01).

Adjunctive Therapy with LAMICTAL in Pediatric and Adult Patients with Lennox-Gastaut Syndrome

The effectiveness of LAMICTAL as adjunctive therapy in patients with Lennox-Gastaut syndrome was established in a multicenter, double-blind, placebo-controlled trial in 169 patients aged 3 to 25 years (n = 79 on LAMICTAL, n = 90 on placebo). Following a 4-week, single-blind, placebo phase, patients were randomized to 16 weeks of treatment with LAMICTAL or placebo added to their current AED regimen of up to 3 drugs. Patients were dosed on a fixed-dose regimen based on body weight and valproate use. Target doses were designed to approximate 5 mg/kg/day for patients taking valproate (maximum dose: 200 mg/day) and 15 mg/kg/day for patients not taking valproate (maximum dose: 400 mg/day). The primary efficacy endpoint was percentage change from baseline in major motor seizures (atonic, tonic, major myoclonic, and tonic-clonic seizures). For the intent-to-treat population, the median reduction of major motor seizures that was statistically significant (P<0.05). Drop attacks were significantly reduced by LAMICTAL (34%) compared with placebo (9%), as were tonic-clonic seizures (36% reduction versus 10% increase for LAMICTAL and placebo, respectively).

Adjunctive Therapy with LAMICTAL in Pediatric and Adult Patients with Primary Generalized Tonic-Clonic Seizures

The effectiveness of LAMICTAL as adjunctive therapy in patients with PGTC seizures was established in a multicenter, double-blind, placebo-controlled trial in 117 pediatric and adult patients aged 2 years and older (n = 58 on LAMICTAL, n = 59 on placebo). Patients with at least 3 PGTC seizures during an 8-week baseline phase were randomized to 19 to 24 weeks of treatment with LAMICTAL or placebo added to their current AED regimen of up to 2 drugs. Patients were dosed on a fixed-dose regimen, with target doses ranging from 3 to 12 mg/kg/day for pediatric patients and from 200 to 400 mg/day for adult patients based on concomitant AEDs.

The primary efficacy endpoint was percentage change from baseline in PGTC seizures. For the intent-to-treat population, the median percent reduction in PGTC seizures was 66% in patients treated with LAMICTAL and 34% on placebo, a difference that was statistically significant (P = 0.006).

14.2 Bipolar Disorder

<u>Adults</u>

The effectiveness of LAMICTAL in the maintenance treatment of bipolar I disorder was established in 2 multicenter, double-blind, placebo-controlled trials in adult patients (aged 18 to 82 years) who met DSM-IV criteria for bipolar I disorder. Trial 1 enrolled patients with a current or recent (within 60 days) depressive episode as defined by DSM-IV and Trial 2 included patients with a current or recent (within 60 days) episode of mania or hypomania as defined by DSM-IV. Both trials included a cohort of patients (30% of 404 subjects in Trial 1 and 28% of 171 patients in Trial 2) with rapid cycling bipolar disorder (4 to 6 episodes per year). In both trials, patients were titrated to a target dose of 200 mg of LAMICTAL as add-on therapy or as monotherapy with gradual withdrawal of any psychotropic medications during an 8- to 16-week open-label period. Overall 81% of 1,305 patients participating in the open-label period were receiving 1 or more other psychotropic medications, including benzodiazepines, selective serotonin reuptake inhibitors (SSRIs), atypical antipsychotics (including olanzapine), valproate, or lithium, during titration of LAMICTAL. Patients with a CGI-severity score of 3 or less maintained for at least 4 continuous weeks, including at least the final week on monotherapy with LAMICTAL, were randomized to a placebo-controlled double-blind treatment period for up to 18 months. The primary endpoint was TIME (time to intervention for a mood episode or one that was emerging, time to discontinuation for either an adverse event that was judged to be related to bipolar disorder, or for lack of efficacy). The mood episode could be depression, mania, hypomania, or a mixed episode.

In Trial 1, patients received double-blind monotherapy with LAMICTAL 50 mg/day (n = 50), LAMICTAL 200 mg/day (n = 124), LAMICTAL 400 mg/day (n = 47), or placebo (n = 121). LAMICTAL (200- and 400-mg/day treatment groups combined) was superior to placebo in delaying the time to occurrence of a mood episode (Figure 1). Separate analyses of the 200- and 400-mg/day dose groups revealed no added benefit from the higher dose.

In Trial 2, patients received double-blind monotherapy with LAMICTAL (100 to 400 mg/day, n = 59), or placebo (n = 70). LAMICTAL was superior to placebo in delaying time to occurrence of a mood episode (Figure 2). The mean dose of LAMICTAL was about 211 mg/day.

Although these trials were not designed to separately evaluate time to the occurrence of depression or mania, a combined analysis for the 2 trials revealed a statistically significant benefit for LAMICTAL over placebo in delaying the time to occurrence of both depression and mania, although the finding was more robust for depression.

Figure 1: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Mood Episode (Trial 1)

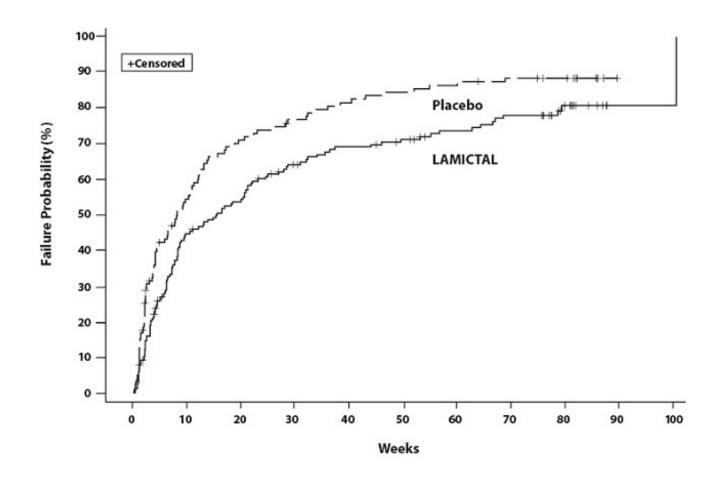
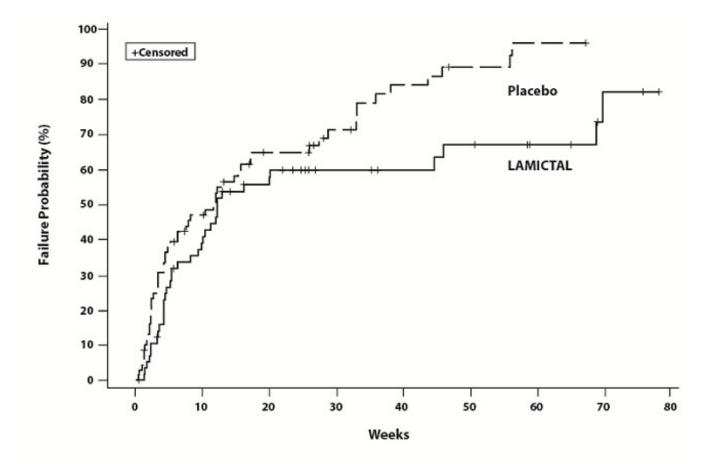


Figure 2: Kaplan-Meier Estimation of Cumulative Proportion of Patients with Mood Episode (Trial 2)



16 HOW SUPPLIED/STORAGE AND HANDLING

LAMICTAL (lamotrigine) tablets

25-mg, white, scored, shield-shaped tablets debossed with "LAMICTAL" and "25", bottles of 100 (NDC 0173-0633-02).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

100-mg, peach, scored, shield-shaped tablets debossed with "LAMICTAL" and "100", bottles of 100 (NDC 0173-0642-55).

150-mg, cream, scored, shield-shaped tablets debossed with "LAMICTAL" and "150", bottles of 60 (NDC 0173-0643-60).

200-mg, blue, scored, shield-shaped tablets debossed with "LAMICTAL" and "200", bottles of 60 (NDC 0173-0644-60).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

LAMICTAL (lamotrigine) Starter Kit for Patients Taking Valproate (Blue Kit)

25-mg, white, scored, shield-shaped tablets debossed with "LAMICTAL" and "25", blister pack of 35 tablets (NDC 0173-0633-10).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

LAMICTAL (lamotrigine) Starter Kit for Patients Taking Carbamazepine, Phenytoin, Phenobarbital, or Primidone and Not Taking Valproate (Green Kit)

25-mg, white, scored, shield-shaped tablets debossed with "LAMICTAL" and "25" and 100 mg, peach, scored, shield-shaped tablets debossed with "LAMICTAL" and "100", blister pack of 98 tablets (84/25-mg tablets and 14/100-mg tablets) (NDC 0173-0817-28).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

LAMICTAL (lamotrigine) Starter Kit for Patients Not Taking Carbamazepine, Phenytoin, Phenobarbital, Primidone, or Valproate (Orange Kit)

25-mg, white, scored, shield-shaped tablets debossed with "LAMICTAL" and "25" and 100 mg, peach, scored, shield-shaped tablets debossed with "LAMICTAL" and "100", blister pack of 49 tablets (42/25-mg tablets and 7/100-mg tablets) (NDC 0173-0594-02).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

LAMICTAL (lamotrigine) tablets for oral suspension

2-mg, white to off-white, round tablets debossed with "LTG" over "2", bottles of 30 (NDC 0173-0699-00). ORDER DIRECTLY FROM GlaxoSmithKline 1-800-334-4153.

5-mg, white to off-white, caplet-shaped tablets debossed with "GX CL2", bottles of 100 (NDC 0173-0526-00).

25-mg, white, super elliptical-shaped tablets debossed with "GX CL5", bottles of 100 (NDC 0173-0527-00).

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

LAMICTAL ODT (lamotrigine) orally disintegrating tablets

25-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "25" on the other, Maintenance Packs of 30 (NDC 0173-0772-02).

50-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "50" on the other, Maintenance Packs of 30 (NDC 0173-0774-02).

100-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "100" on the other, Maintenance Packs of 30 (NDC 0173-0776-02).

200-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "200" on the other, Maintenance Packs of 30 (NDC 0173-0777-02).

Store between 20°C and 25°C (68°F and 77°F); with excursions permitted between 15°C and 30°C (59°F and 86°F).

LAMICTAL ODT (lamotrigine) Patient Titration Kit for Patients Taking Valproate (Blue ODT Kit)

25-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "25" on the other, and 50 mg, white to off-white, round, flat-faced,

radius-edged tablets debossed with "LMT" on one side and "50" on the other, blister pack of 28 tablets (21/25-mg tablets and 7/50-mg tablets) (NDC 0173-0779-00).

Store between 20°C and 25°C (68°F and 77°F); with excursions permitted between 15°C and 30°C (59°F and 86°F).

LAMICTAL ODT (lamotrigine) Patient Titration Kit for Patients Taking Carbamazepine, Phenytoin, Phenobarbital, or Primidone and Not Taking Valproate (Green ODT Kit)

50-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "50" on the other, and 100 mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "100" on the other, blister pack of 56 tablets (42/50-mg tablets and 14/100-mg tablets) (NDC 0173-0780-00).

Store between 20°C and 25°C (68°F and 77°F); with excursions permitted between 15°C and 30°C (59°F and 86°F).

LAMICTAL ODT (lamotrigine) Patient Titration Kit for Patients Not Taking Carbamazepine, Phenytoin, Phenobarbital, Primidone, or Valproate (Orange ODT Kit)

25-mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "25" on the other, 50 mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LMT" on one side and "50" on the other, and 100 mg, white to off-white, round, flat-faced, radius-edged tablets debossed with "LAMICTAL" on one side and "100" on the other, blister pack of 35 (14/25-mg tablets, 14/50-mg tablets, and 7/100-mg tablets) (NDC 0173-0778-00).

Store between 20°C and 25°C (68°F and 77°F); with excursions permitted between 15°C and 30°C (59°F and 86°F).

Blister Packs

If the product is dispensed in a blister pack, the patient should be advised to examine the blister pack before use and not use if blisters are torn, broken, or missing.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

<u>Rash</u>

Prior to initiation of treatment with LAMICTAL, inform patients that a rash or other signs or symptoms of hypersensitivity (e.g., fever, lymphadenopathy) may herald a serious medical event and instruct them to report any such occurrence to their healthcare providers immediately.

Hemophagocytic Lymphohistiocytosis

Prior to initiation of treatment with LAMICTAL, inform patients that excessive immune activation may occur with LAMICTAL and that they should report signs or symptoms such as fever, rash, or lymphadenopathy to a healthcare provider immediately.

Multiorgan Hypersensitivity Reactions, Blood Dyscrasias, and Organ Failure

Inform patients that multiorgan hypersensitivity reactions and acute multiorgan failure may occur with LAMICTAL. Isolated organ failure or isolated blood dyscrasias without

evidence of multiorgan hypersensitivity may also occur. Instruct patients to contact their healthcare providers immediately if they experience any signs or symptoms of these conditions [see Warnings and Precautions (5.3, 5.5)].

Cardiac Rhythm and Conduction Abnormalities

Inform patients that, due to its mechanism of action, LAMICTAL could lead to irregular or slowed heart rhythm. This risk is increased in patients with underlying cardiac disease or heart conduction problems or who are taking other medications that affect heart conduction. Patients should be made aware of and report cardiac signs or symptoms to their healthcare provider right away. Patients who develop syncope should lie down with raised legs and contact their healthcare provider [see Warnings and Precautions (5.4)].

Suicidal Thinking and Behavior

Inform patients, their caregivers, and families that AEDs, including LAMICTAL, may increase the risk of suicidal thoughts and behavior. Instruct them 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 or behavior or thoughts about selfharm. Instruct them to immediately report behaviors of concern to their healthcare providers.

Worsening of Seizures

Instruct patients to notify their healthcare providers if worsening of seizure control occurs.

Central Nervous System Adverse Effects

Inform patients that LAMICTAL may cause dizziness, somnolence, and other symptoms and signs of central nervous system depression. Accordingly, instruct them neither to drive a car nor to operate other complex machinery until they have gained sufficient experience on LAMICTAL to gauge whether or not it adversely affects their mental and/or motor performance.

Pregnancy and Nursing

Instruct patients to notify their healthcare providers if they become pregnant or intend to become pregnant during therapy and if they intend to breastfeed or are breastfeeding an infant.

Encourage patients to enroll in the NAAED Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of AEDs during pregnancy. To enroll, patients can call the toll-free number 1-888-233-2334 [see Use in Specific Populations (8.1)].

Inform patients who intend to breastfeed that LAMICTAL is present in breast milk and advise them to monitor their child for potential adverse effects of this drug. Discuss the benefits and risks of continuing breastfeeding.

Use of Estrogen-Containing Products, Including Oral Contraceptives

Instruct women to notify their healthcare providers if they plan to start or stop use of oral contraceptives or other female hormonal preparations (including HRT). Starting estrogen-containing products, including oral contraceptives, may significantly decrease lamotrigine plasma levels, and stopping estrogen-containing oral contraceptives (including the pill-free week) may significantly increase lamotrigine plasma levels [see *Warnings and Precautions (5.9), Clinical Pharmacology (12.3)*]. Also instruct women to promptly notify their healthcare providers if they experience adverse reactions or changes in menstrual pattern (e.g., break-through bleeding) while receiving LAMICTAL in combination with these medications.

Discontinuing LAMICTAL

Instruct patients to notify their healthcare providers if they stop taking LAMICTAL for any reason and not to resume LAMICTAL without consulting their healthcare providers.

Aseptic Meningitis

Inform patients that LAMICTAL may cause aseptic meningitis. Instruct them to notify their healthcare providers immediately if they develop signs and symptoms of meningitis such as headache, fever, nausea, vomiting, stiff neck, rash, abnormal sensitivity to light, myalgia, chills, confusion, or drowsiness while taking LAMICTAL.

Potential Medication Errors

To avoid a medication error of using the wrong drug or formulation, strongly advise patients to visually inspect their tablets to verify that they are LAMICTAL, as well as the correct formulation of LAMICTAL, each time they fill their prescription [see Dosage Forms and Strengths (3.1, 3.2, 3.3), How Supplied/Storage and Handling (16)]. Refer the patient to the Medication Guide that provides depictions of the LAMICTAL tablets, tablets for oral suspension, and orally disintegrating tablets.

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LMT:27PI

MEDICATION GUIDE LAMICTAL (la-MIK-tal) (lamotrigine) tablets LAMICTAL (lamotrigine) tablets for oral suspension LAMICTAL ODT (lamotrigine) orally disintegrating tablets

What is the most important information I should know about LAMICTAL?

1. LAMICTAL may cause a serious skin rash that may cause you to be hospitalized or even cause death.

There is no way to tell if a mild rash will become more serious. A serious skin rash can happen at any time during your treatment with LAMICTAL, but is more likely to happen within the first 2 to 8 weeks of treatment. Children and teenagers aged between 2 and 17 years have a higher chance of getting this serious skin rash while taking LAMICTAL. The risk of getting a serious skin rash is higher if you:

- take LAMICTAL while taking valproate [DEPAKENE (valproic acid) or DEPAKOTE (divalproex sodium)].
- take a higher starting dose of LAMICTAL than your healthcare provider prescribed.
- increase your dose of LAMICTAL faster than prescribed.

Call your healthcare provider right away if you have any of the following:

- a skin rash
- blistering or peeling of your skin
- hives
- painful sores in your mouth or around your eyes

These symptoms may be the first signs of a serious skin reaction. A healthcare provider should examine you to decide if you should continue taking LAMICTAL.

- 2. Other serious reactions, including serious blood problems or liver problems. LAMICTAL can also cause other types of allergic reactions or serious problems that may affect organs and other parts of your body like your liver or blood cells. You may or may not have a rash with these types of reactions. Call your healthcare provider right away if you have any of these symptoms:
 - fever
 - frequent infections
 - severe muscle pain
 - swelling of your face, eyes, lips, or tongue
 - swollen lymph glands
 - unusual bruising or bleeding, looking pale
 - weakness, fatigue
 - yellowing of your skin or the white part of your eyes
 - trouble walking or seeing
 - seizures for the first time or happening more often
 - pain and/or tenderness in the area towards the top of your stomach (enlarged liver and/or spleen)
- 3. In patients with known heart problems, the use of LAMICTAL may lead to a fast heart beat. Call your healthcare provider right away if you:
 - have a fast, slow, or pounding heart beat.
 - feel your heart skip a beat.
 - have shortness of breath.
 - have chest pain.
 - feel lightheaded.
- 4. Like other antiepileptic drugs, LAMICTAL may cause suicidal thoughts or actions in a very small number of people, about 1 in 500. Call a healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:
 - thoughts about suicide or dying

- attempt to commit suicide
- new or worse depression
- new or worse anxiety
- feeling agitated or restless
- panic attacks
- trouble sleeping (insomnia)
- new or worse irritability
- acting aggressive, being angry, or violent
- acting on dangerous impulses
- an extreme increase in activity and talking (mania)
- other unusual changes in behavior or mood

Do not stop LAMICTAL without first talking to a healthcare provider.

- Stopping LAMICTAL suddenly can cause serious problems.
- Suicidal thoughts or actions can be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may check for other causes.

How can I watch for early symptoms of suicidal thoughts and actions in myself or a family member?

- 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.
- 5. LAMICTAL may cause aseptic meningitis, a serious inflammation of the protective membrane that covers the brain and spinal cord. Call your healthcare provider right away if you have any of the following symptoms:
 - headache
 - fever
 - nausea
 - vomiting
 - stiff neck
 - rash
 - unusual sensitivity to light
 - muscle pains
 - chills
 - confusion
 - drowsiness

Meningitis has many causes other than LAMICTAL, which your doctor would check for if you developed meningitis while taking LAMICTAL.

LAMICTAL can cause other serious side effects. For more information ask your healthcare provider or pharmacist. Tell your healthcare provider if you have any side effect that bothers you. Be sure to read the section below entitled "What are the possible side effects of LAMICTAL?"

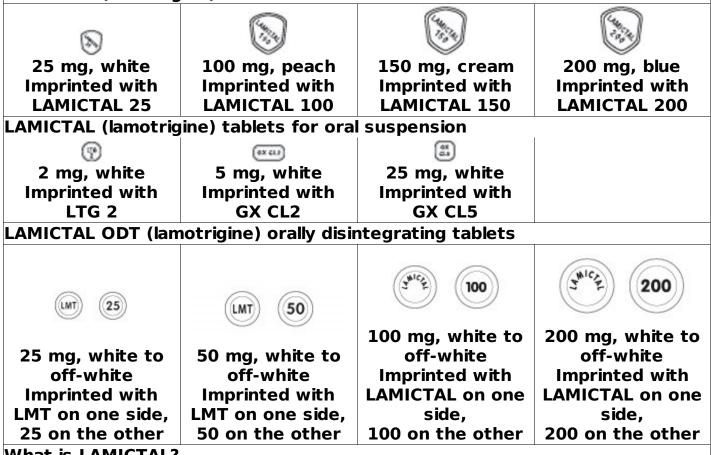
6. People prescribed LAMICTAL have sometimes been given the wrong medicine because many medicines have names similar to LAMICTAL, so always check that you receive LAMICTAL.

Taking the wrong medication can cause serious health problems. When your healthcare provider gives you a prescription for LAMICTAL:

- Make sure you can read it clearly.
- Talk to your pharmacist to check that you are given the correct medicine.
- Each time you fill your prescription, check the tablets you receive against the pictures of the tablets below.

These pictures show the distinct wording, colors, and shapes of the tablets that help to identify the right strength of LAMICTAL tablets, tablets for oral suspension, and orally disintegrating tablets. Immediately call your pharmacist if you receive a LAMICTAL tablet that does not look like one of the tablets shown below, as you may have received the wrong medication.

LAMICTAL (lamotrigine) tablets



What is LAMICTAL?

- LAMICTAL is a prescription medicine used:
 - o together with other medicines to treat certain types of seizures (partial-onset seizures, primary generalized tonic-clonic seizures, generalized seizures of Lennox-Gastaut syndrome) in people aged 2 years and older.
 - o alone when changing from 1 other medicine used to treat partial-onset seizures in people aged 16 years and older.
 - o for the long-term treatment of bipolar I disorder to lengthen the time between

mood episodes in people who have been treated for mood episodes with other medicine.

- It is not known if LAMICTAL is safe or effective in people younger than 18 years with mood episodes such as bipolar disorder or depression.
- It is not known if LAMICTAL is safe or effective when used alone as the first treatment of seizures.
- It is not known if LAMICTAL is safe or effective for people with mood episodes who have not already been treated with other medicines.
- LAMICTAL should not be used for acute treatment of manic or mixed mood episodes.

Do not take LAMICTAL:

 if you have had an allergic reaction to lamotrigine or to any of the inactive ingredients in LAMICTAL. See the end of this leaflet for a complete list of ingredients in LAMICTAL.

Before taking LAMICTAL, tell your healthcare provider about all of your health conditions, including if you:

- have had a rash or allergic reaction to another antiseizure medicine.
- have or have had depression, mood problems, or suicidal thoughts or behavior.
- have a history of heart problems or irregular heart beats or any of your family members have any heart problem, including genetic abnormalities.
- have had aseptic meningitis after taking LAMICTAL or LAMICTAL XR (lamotrigine).
- are taking estrogen-containing products, including oral contraceptives (birth control pills) or other female hormonal medicines (such as hormone replacement therapy). Do not start or stop taking birth control pills or other female hormonal medicine until you have talked with your healthcare provider. Tell your healthcare provider if you have any changes in your menstrual pattern such as breakthrough bleeding. Stopping these medicines while you are taking LAMICTAL may cause side effects (such as dizziness, lack of coordination, or double vision). Starting these medicines may lessen how well LAMICTAL works.
- are pregnant or plan to become pregnant. It is not known if LAMICTAL may harm your unborn baby. If you become pregnant while taking LAMICTAL, talk to your healthcare provider about registering with the North American Antiepileptic Drug Pregnancy Registry. You can enroll in this registry by calling 1-888-233-2334. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy.
- are breastfeeding. LAMICTAL passes into breast milk and may cause side effects in a breastfeed baby. If you breastfeed while taking LAMICTAL, watch your baby closely for trouble breathing, episodes of temporarily stopping breathing, sleepiness, or poor sucking. Call your baby's healthcare provider right away if you see any of these problems. Talk to your healthcare provider about the best way to feed your baby if you take LAMICTAL.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. LAMICTAL and certain other medicines may interact with each other. This may cause serious side effects.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I take LAMICTAL?

- Take LAMICTAL exactly as prescribed.
- Your healthcare provider may change your dose. Do not change your dose without talking to your healthcare provider.
- Do not stop taking LAMICTAL without talking to your healthcare provider. Stopping LAMICTAL suddenly may cause serious problems. For example, if you have epilepsy and you stop taking LAMICTAL suddenly, you may have seizures that do not stop. Talk with your healthcare provider about how to stop LAMICTAL slowly.
- If you miss a dose of LAMICTAL, take it as soon as you remember. If it is almost time for your next dose, just skip the missed dose. Take the next dose at your regular time. **Do not take 2 doses at the same time.**
- If you take too much LAMICTAL, call your healthcare provider or your local Poison Control Center or go to the nearest hospital emergency room right away.
- You may not feel the full effect of LAMICTAL for several weeks.
- If you have epilepsy, tell your healthcare provider if your seizures get worse or if you have any new types of seizures.
- Swallow LAMICTAL Tablets whole.
- If you have trouble swallowing LAMICTAL Tablets, tell your healthcare provider because there may be another form of LAMICTAL you can take.
- LAMICTAL ODT should be placed on the tongue and moved around the mouth. The tablet will rapidly disintegrate, can be swallowed with or without water, and can be taken with or without food.
- LAMICTAL tablets for oral suspension may be swallowed whole, chewed, or mixed in water or fruit juice mixed with water. If the tablets are chewed, drink a small amount of water or fruit juice mixed with water to help in swallowing. To break up LAMICTAL tablets for oral suspension, add the tablets to a small amount of liquid (1 teaspoon, or enough to cover the medicine) in a glass or spoon. Wait at least 1 minute or until the tablets are completely broken up, mix the solution together, and take the whole amount right away.
- If you receive LAMICTAL in a blister pack, examine the blister pack before use. Do not use if blisters are torn, broken, or missing.

What should I avoid while taking LAMICTAL?

Do not drive, operate machinery, or do other dangerous activities until you know how LAMICTAL affects you.

What are the possible side effects of LAMICTAL? LAMICTAL can cause serious side effects. See "What is the most important information I should know about LAMICTAL?"

Common side effects of LAMICTAL include:

- dizziness
- tremor
- headache
- rash
- blurred or double vision
- fever

- sleepiness
- back pain
- nausea, vomiting
- diarrhea
- tiredness
- insomnia

- lack of coordination
- abdominal pain
- infections, including seasonal flu
- dry mouth
- stuffy nose
- sore throat

These are not all the possible side effects of LAMICTAL.

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 LAMICTAL?

• Store LAMICTAL at room temperature between 68°F and 77°F (20°C and 25°C).

Keep LAMICTAL and all medicines out of the reach of children.

General information about the safe and effective use of LAMICTAL.

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

If you take a urine drug screening test, LAMICTAL may make the test result positive for another drug. If you require a urine drug screening test, tell the healthcare professional administering the test that you are taking LAMICTAL.

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

What are the ingredients in LAMICTAL? LAMICTAL tablets

Active ingredient: lamotrigine.

Inactive ingredients: lactose; magnesium stearate, microcrystalline cellulose, povidone, sodium starch glycolate, FD&C Yellow No. 6 Lake (100-mg tablet only), ferric oxide, yellow (150-mg tablet only), and FD&C Blue No. 2 Lake (200-mg tablet only).

LAMICTAL tablets for oral suspension

Active ingredient: lamotrigine.

Inactive ingredients: blackcurrant flavor, calcium carbonate, low-substituted hydroxypropylcellulose, magnesium aluminum silicate, magnesium stearate, povidone, saccharin sodium, and sodium starch glycolate.

LAMICTAL ODT orally disintegrating tablets

Active ingredient: lamotrigine.

Inactive ingredients: artificial cherry flavor, crospovidone, ethylcellulose, magnesium stearate, mannitol, polyethylene, and sucralose.

For more information about LAMICTAL, call 1-888-825-5249.

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LMT:20MG

This Medication Guide has been approved by the U.S. Food and DrugAdministrationRevised: April 2025

PRINCIPAL DISPLAY PANEL NDC 0173-0642-55 LAM*ICTAL* (LAMOTRIGINE) TABLETS 100 mg GSK CAUTION: Verify Product Dispensed 100 Tablets

Dispense the accompanying Medication Guide to each patient.

Each scored tablet contains 100 mg of lamotrigine.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

Do not accept if safety seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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A087386 (6200000087386) Rev. 4/23



PRINCIPAL DISPLAY PANEL

NDC 0173-0643-60

LAM*ICTAL*

(LAMOTRIGINE)

TABLETS

150 mg

GSK

CAUTION: Verify Product Dispensed

60 Tablets

Dispense the accompanying Medication Guide to each patient.

Each scored tablet contains 150 mg of lamotrigine.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions 15-30°C (59-86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

Do not accept if safety seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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A086833 (6200000086833) Rev. 4/23



PRINCIPAL DISPLAY PANEL

NDC 0173-0644-60

LAM/CTAL

(LAMOTRIGINE)

TABLETS

200 mg

GSK

CAUTION: Verify Product Dispensed

60 Tablets

Dispense the accompanying Medication Guide to each patient.

Each scored tablet contains 200 mg of lamotrigine.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature] in a dry place and protect from light.

Do not accept if safety seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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A0868332 (6200000086832) Rev. 4/23



PRINCIPAL DISPLAY PANEL

NDC 0173-0633-10

LAMICTAL

(LAMOTRIGINE)

TABLETS

GSK

R_X ONLY

For patients TAKING valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL.

STARTER KIT

Contains: 35 25-mg Tablets

Weeks	Tablets per day
1&2	Take 1 (25 mg) tablet every <u>OTHER</u> day
3&4	Take 1 (25 mg) tablets once a day
5	Take 2 (25 mg) tablet once a day

Please check with your physician about proper maintenance dose before week 5.

Dispense the enclosed Medication Guide to each patient.

Each LAMICTAL 25 tablet contains 25 mg of lamotrigine

CAUTION: Verify Product Dispensed

Do not use if blisters are torn, broken, or missing.

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546716-02 Rev.6/23



PRINCIPAL DISPLAY PANEL

NDC 0173-0817-28

LAMICTAL

(LAMOTRIGINE)

TABLETS

GSK

R_X ONLY

For patients TAKING carbamazepine, phenytoin, phenobarbital, or primidone and NOT TAKING valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL.

Verify Product Dispensed

STARTER KIT

Contains: 84 25-mg Tablets

14 100-mg Tablets

Weeks	Tablets per day
1&2	Take 2 (25 mg) tablets once a day
3&4	Take 2 (25 mg) tablets twice a day
5	Take 1 (100 mg) tablet twice a day

Please check with your physician about proper maintenance dose before week 5.

Dispense the enclosed Medication Guide to each patient.

Each LAMICTAL 25 tablet contains 25 mg of lamotrigine

Each LAMICTAL 100 tablet contains 100 mg of lamotrigine

CAUTION: Verify Product Dispensed

Do not use if blisters are torn, broken, or missing.

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546714-02 Rev. 6/23



NDC 0173-0594-02

LAMICTAL

(LAMOTRIGINE)

TABLETS

GSK

R_X ONLY

For patients NOT TAKING carbamazepine, phenytoin, phenobarbital, primidone, or valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL.

STARTER KIT

Contains: 42 25-mg Tablets

7 100-mg Tablets

Weeks	Tablets per day
1&2	Take 1 (25 mg) tablet once a day
3&4	Take 2 (25 mg) tablets once a day
5	Take 1 (100 mg) tablet once a day

Please check with your physician about proper maintenance dose before week 5.

Dispense the enclosed Medication Guide to each patient.

Each LAMICTAL 25 tablet contains 25 mg of lamotrigine

Each LAMICTAL 100 tablet contains 100 mg of lamotrigine

CAUTION: Verify Product Dispensed

Do not use if blisters are torn, broken, or missing.

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546718-02 Rev. 6/23



NDC 0173-0699-00

LAM/CTAL

(LAMOTRIGINE)

TABLETS FOR ORAL SUSPENSION

2 mg

GSK

CAUTION: Verify Product Dispensed

30 Tablets

Dispense the accompanying Medication Guide to each patient.

Each tablet contains 2 mg of lamotrigine. Tablets may be swallowed whole, chewed, or dispersed in water or diluted fruit juice.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

Do not accept if membrane seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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Rev. 2/23 A086205 (6200000086205)

8	NDC 0173-06	99-00	GSK			516151
00-6	(LAMO	DTRIGIN DRORAL SUSPEN	NE)	Dispense the accompanying Medication Guide to each patient.		
8 0173-0699	2 mg CAUTION: Verify Product Dispensed 30 Tablets	Each tablet contains 2 mg whole, chewed, or dispe See Prescribing Informati Store at 25°C (77°F); excl (59°F to 86°F) [see USP C Do not accept if membr Dispense in a tight, light- Distributed by GlaxoSmithKline Durham, NC 27701 Made in India 62000000086205	of lamotrigine. Tablets ersed in water or diluted ion for dosage informatio ursions permitted to 15° Controlled Room Tempera ane seal under cap is r resistant container as de	d fruit juice. on. C to 30°C ature] in a dry place. missing or broken. efined in the USP. or licensed by GSK.	A086205	GTIN (01) X00000000000 EXP MMM YYYY LOT (10) X000X SN (21) X00000000X

PRINCIPAL DISPLAY PANEL NDC 0173-0526-00 LAM*ICTAL*

(LAMOTRIGINE)

TABLETS FOR ORAL SUSPENSION

5 mg

GSK

CAUTION: Verify Product Dispensed

100 Tablets

Dispense the accompanying Medication Guide to each patient.

Each tablet contains 5 mg of lamotrigine. Tablets may be swallowed whole, chewed, or dispersed in water or diluted fruit juice.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

Do not accept if membrane seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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Rev. 2/23 A086204 (6200000086204)



NDC 0173-0527-00

LAM*ICTAL*

(LAMOTRIGINE)

TABLETS FOR ORAL SUSPENSION

25 mg

GSK

CAUTION: Verify Product Dispensed

100 Tablets

Dispense the accompanying Medication Guide to each patient.

Each tablet contains 25 mg of lamotrigine. **Tablets may be swallowed whole,** chewed, or dispersed in water or diluted fruit juice.

See Prescribing Information for dosage information.

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature] in a dry place.

Do not accept if membrane seal under cap is missing or broken.

Dispense in a tight, light-resistant container as defined in the USP.

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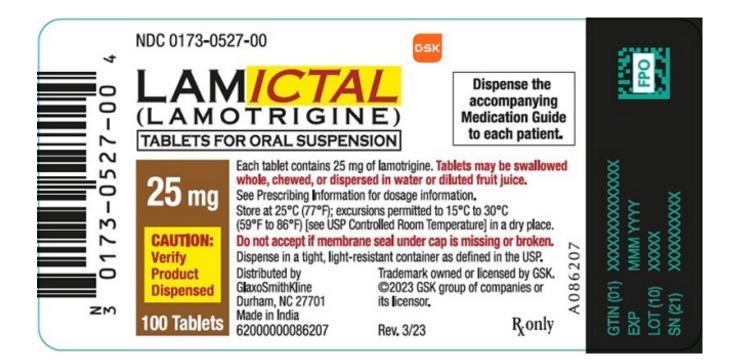
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Rev. 2/23 A086207 (6200000086207)



PRINCIPAL DISPLAY PANEL

NDC 0173-0772-02

LAMICTAL ODT

(LAMOTRIGINE)

ORALLY DISINTEGRATING TABLETS

25 mg

R_x only

Maintenance Pack

GSK

25 mg

30 Tablets

This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL.

NOT for initial titration.

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

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547954-02 Rev. 6/23

NDC 0173-0772-02 Romly Maintenance Pack 25 mg
(LAMOTRIGINE) ORALLY DISINTEGRATING TABLETS
25 mg
30 Tablets 🔵
This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL. NOT for initial titration.
Dispense the accompanying Medication Guide to each patient, CAUTION: Verify Product Dispensed

PRINCIPAL DISPLAY PANEL NDC 0173-0774-02 LAMICTAL ODT (LAMOTRIGINE) ORALLY DISINTEGRATING TABLETS 50 mg

R_x only

Maintenance Pack

GSK

50 mg

30 Tablets

This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL

NOT for initial titration.

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

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547955-02 Rev. 6/23

NDC 0173-0774-02 Romly Maintenance Pack 50 mg
50 mg 30 Tablets
This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL. NOT for initial titration.
Dispense the accompanying Medication Guide to each patient. CAUTION: Verify Product Dispensed

PRINCIPAL DISPLAY PANEL NDC 0173-0776-02 LAMICTAL ODT (LAMOTRIGINE) ORALLY DISINTEGRATING TABLETS 100 mg R_x only <u>Maintenance Pack</u> GSK 100 mg

30 Tablets

This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL.

NOT for initial titration.

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

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547956-02 Rev. 6/23

NDC 0173-0778-02 Ronly Maintenance Pack 100 mg
CLAMICTAL ODT (LAMOTRIGINE) ORALLY DISINTEGRATING TABLETS
100 mg
30 Tablets 💿
This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL. NOT for initial titration.
Dispense the accompanying Medication Guide to each patient. CAUTION: Verify Product Dispensed

PRINCIPAL DISPLAY PANEL NDC 0173-0777-02 LAMICTAL ODT (LAMOTRIGINE) **ORALLY DISINTEGRATING TABLETS** 200 mg R_x only **Maintenance Pack** GSK 200 mg 30 Tablets This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL. NOT for initial titration. Dispense the accompanying Medication Guide to each patient. **CAUTION: Verify Product Dispensed** Made in India © 2023 GSK group of companies or its licensor

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547957-02 Rev. 6/23

NDC 0173-0777-02 Romly Maintenance Pack 200 mg
(LAMOTRIGINE) ORALLY DISINTEGRATING TABLETS
200 mg 30 Tablets
This <u>Maintenance Pack</u> is intended for patients already taking LAMICTAL. NOT for initial titration.
CAUTION: Verify Product Dispensed

NDC 0173-0779-00

LAMICTAL ODT

(LAMOTRIGINE)

ORALLY DISINTEGRATING TABLETS

 $R_X \, only$

Patient Titration Kit

For patients TAKING valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL ODT.

21	25 mg Tablets
7	50 mg Tablets

WEEKS	TABLETS PER DAY
1&2	Take 1 (25 mg) tablet every OTHER day
3&4	Take 1 (25 mg) tablet ONCE a day
5	Take 1 (50 mg) tablet ONCE a day

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

Do not use if blisters are torn, broken, or missing.

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Rev. 6/23

548811-02

NDC 0173-0779-00 Ryonly Patient Titration Kit
CLAMOTRIGINE) CONT ORALLY DISINTEGRATING TABLETS For patients TAKING valproate* *See prescribing information for other drugs that may affect dosing of LAMICTAL ODT.
KIT CONTAINS: 21 25 mg Tablets 7 50 mg Tablets
1 & 2 Take1 (25 mg) tablet every OTHER day 3 & 4 Take1 (25 mg) tablet ONCE a day 5 Take1 (50 mg) tablet ONCE a day
Dispense the accompanying Medication Guide to each patient.
CAUTION: Verify Product Dispensed

NDC 0173-0780-00

LAMICTAL ODT

(LAMOTRIGINE)

ORALLY DISINTEGRATING TABLETS

 $R_X \, only$

Patient Titration Kit

GSK

For patients TAKING carbamazepine, phenytoin, phenobarbital, or primidone, and NOT TAKING valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL ODT.

KIT CONTAINS:

42	50 mg Tablets
14	100 mg Tablets

WEEKS	TABLETS PER DAY
1&2	Take 1 (50 mg) tablet ONCE a day
3&4	Take 1 (50 mg) tablet TWICE a day
5	Take 1 (100 mg) tablet TWICE a day

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

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548810-02

NDC 0173-0778-00

LAMICTAL ODT

(LAMOTRIGINE)

ORALLY DISINTEGRATING TABLETS

 $R_X \, ONLY$

Patient Titration Kit

GSK

For patients NOT TAKING carbamazepine, phenytoin, phenobarbital, primidone, or valproate*

*See prescribing information for other drugs that may affect dosing of LAMICTAL ODT.

KIT CONTAINS:

14	25 mg Tablets
14	50 mg Tablets
7	100 mg Tablets

WEEKS	TABLETS PER DAY
1&2	Take 1 (25 mg) tablet ONCE a day
3&4	Take 1 (50 mg) tablet ONCE a day
5	Take 1 (100 mg) tablet ONCE a day

Dispense the accompanying Medication Guide to each patient.

CAUTION: Verify Product Dispensed

Do not use if blisters are torn, broken, or missing.

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Rev. 6/23

548809-02

NDC 0178-0778-00 R only

Patient Titration Kit

CALLY DISINTEGRATING TABLETS
KIT CONTAINS: 14 25 mg Tablets 20 14 50 mg Tablets 50 7 100 mg Tablets 100
WEEKSTABLETS PER DAY1 & 2Take 1 (25 mg) tablet ONCE a day3 & 4Take 1 (50 mg) tablet ONCE a day5Take 1 (100 mg) tablet ONCE a day
Dispense the accompanying Medication Guide to each patient, CAUTION: Verify Product Dispensed

LAMICTAL					
lamotrigine tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem C	ode (Source)	NDC:	0173-0633
Route of Administration	ORAL				
Active Ingredient/Active	Maiaty				
	•				
Ingre	dient Name		Basis of Stren	gth	Strength
LAMOTRIGINE (UNII: U3H27498KS)	(LAMOTRIGINE - UNII:U3H27498KS))	LAMOTRIGINE		25 mg

In		· · ·			
	nactive Ingre	dients			
		Ingredient N	ame		Strength
LA	ACTOSE, UNSPEC	CIFIED FORM (UNII: J2B2A4N98G)			
M	AGNESIUM STEA	RATE (UNII: 70097M6I30)			
М	ICROCRYSTALLII	NE CELLULOSE (UNII: OP1R32D61U))		
PC	OVIDONE, UNSPE	CIFIED (UNII: FZ989GH94E)			
SC	DDIUM STARCH	GLYCOLATE TYPE A POTATO (UNII	: 5856J3G2A2)		
P	roduct Chara	acteristics			
Co	olor	WHITE	Score		2 pieces
Sł	hape	HEXAGON (6 sided)	Size		6mm
Fl	avor		Imprint	t Code	LAMICTAL;25
Co	ontains				
P	ackaging				
	ackaunu				
#		Package Description	on	Marketing Start Date	Marketing End Date
# 1	Item Code	Package Description 100 in 1 BOTTLE; Type 0: Not a Cor Product			-
	Item Code NDC:0173-0633- 02	100 in 1 BOTTLE; Type 0: Not a Cor	nbination	Date	-
1	Item Code NDC:0173-0633- 02 NDC:0173-0633-	100 in 1 BOTTLE; Type 0: Not a Cor Product 35 in 1 DOSE PACK; Type 0: Not a C	nbination	Date 08/15/1996	-
1 2	Item Code NDC:0173-0633- 02 NDC:0173-0633- 10	100 in 1 BOTTLE; Type 0: Not a Cor Product 35 in 1 DOSE PACK; Type 0: Not a C	nbination	Date 08/15/1996	-
1 2	Item Code NDC:0173-0633- 02 NDC:0173-0633- 10	100 in 1 BOTTLE; Type 0: Not a Cor Product 35 in 1 DOSE PACK; Type 0: Not a C Product	nbination Combination	Date 08/15/1996	Date
1 2	Item Code NDC:0173-0633- 02 NDC:0173-0633- 10 NDC:0173-0633- 10 Marketing Category	100 in 1 BOTTLE; Type 0: Not a Cor Product 35 in 1 DOSE PACK; Type 0: Not a C Product Information Application Number or M	nbination Combination	Date 08/15/1996 08/15/1996 Marketing Start	Date Date

LAMICTAL					
lamotrigine tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem C	ode (Source)	NDC:	0173-0642
Route of Administration	ORAL				
Active Ingredient/Active	Moietv				
	dient Name		Basis of Stren	gth	Strength
LAMOTRIGINE (UNII: U3H27498KS)	(LAMOTRIGINE - UNII:U3H27498KS))	LAMOTRIGINE		100 mg
Inactive Ingredients					
	Ingredient Name				Strength
FD&C YELLOW NO. 6 (UNII: H77V	EI93A8)				-

		IFIED FORM (UNII: J2B2A4N98G)			
		RATE (UNII: 70097M6I30)			
		IE CELLULOSE (UNII: OP1R32D6:	1U)		
PO	VIDONE, UNSPE	CIFIED (UNII: FZ989GH94E)			
SO	DIUM STARCH O	ELYCOLATE TYPE A POTATO (U	NII: 5856J3G2A2)		
Pr	oduct Chara	cteristics			
	lor	ORANGE (peach)	Score		2 pieces
	ape	HEXAGON (6 sided)	Size		11mm
	vor		Imprint	Code	LAMICTAL;100
	ntains		mprine	Couc	
Pa	ckaging				
	ickaging Item Code	Package Descrip	tion	Marketing Start Date	: Marketing End Date
#	Item Code	Package Descript 100 in 1 BOTTLE; Type 0: Not a (Product	Combination	-	-
#	Item Code NDC:0173-0642-	100 in 1 BOTTLE; Type 0: Not a (Combination	Date	-
#	Item Code NDC:0173-0642- 55	100 in 1 BOTTLE; Type 0: Not a (Combination	Date	
#	Item Code NDC:0173-0642- 55	100 in 1 BOTTLE; Type 0: Not a (Product	Combination	Date	Date

HUMAN PRESCRIPTION DRUG	ltem C	ode (Source)	NDC	0173-0643
ORAL				
Mojety				
•				.
dient Name		Basis of Stren	gth	Strength
(LAMOTRIGINE - UNII:U3H27498KS)	LAMOTRIGINE		150 mg
Ingredient Name				Strength
13802MRT)				
UNII: J2B2A4N98G)				
097M6I30)				
(UNII: OP1R32D61U)				
	ORAL Moiety dient Name (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name I3802MRT) JNII: J2B2A4N98G)	ORAL ORAL Moiety dient Name (LAMOTRIGINE - UNII:U3H27498KS) Ingredient Name H3802MRT) JNII: J2B2A4N98G) D97M6I30)	ORAL Moiety dient Name (LAMOTRIGINE - UNII:U3H27498KS) IAMOTRIGINE Ingredient Name I3802MRT) JNII: J2B2A4N98G) D97M6I30)	ORAL Moiety dient Name (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE Ingredient Name I3802MRT) JNII: J2B2A4N98G) 097M6I30)

POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)

Pr	oduct Chara	acteristics						
	lor	WHITE (creat	n)	Score		·	2 pieces	
	ape	HEXAGON (6	•	Size			12mm	
	vor		Sidedy	Imprint	Code		LAMICTAL;15	50
	ntains			mprint	coue			
Pa	ckaging							
#	ltem Code	Pa	kage Description	1		ing Start ate		eting End Date
	NDC:0173-0643- 60	60 in 1 BOTTL Product	E; Type 0: Not a Comb	ination ()1/17/1995			
M	arketing	Informat	ion					
	Marketing	Applica	tion Number or Mo	nograph	Mark	eting Star	t Marl	keting End Date
	Category		Citation			Date		Date
. A	Category	NDA020241	Citation		01/17/19			
A m	Category A MICTAL	t	Citation		01/17/19			Date
_A am Pr	Category A MICTAL Notrigine table	t	Citation	I DRUG			e) NDC	Date ::0173-0644
am Pr Pro	Category A MICTAL Notrigine tablet roduct Infor	mation		I DRUG		995	e) NDC	
_A am Pr	Category A MICTAL Notrigine tablet	mation	HUMAN PRESCRIPTION	I DRUG		995	e) NDC	
_A am Pr Ro	Category A MICTAL Notrigine tablet roduct Infor	mation stration	HUMAN PRESCRIPTION ORAL	I DRUG		995	e) NDC	
_A am Pr Ro	Category A MICTAL otrigine tablet roduct Infor oduct Type ute of Admini	mation stration ent/Active	HUMAN PRESCRIPTION ORAL	I DRUG		995	-,	2:0173-0644
_A am Pro Ro Ac	Category A MICTAL otrigine tablet roduct Infor oduct Type ute of Admini	mation stration ent/Active Ingre	HUMAN PRESCRIPTION ORAL Moiety		ltem Co	de (Source	Strength	C:0173-0644
_A am Pr Ro Ac	Category	t mation stration ent/Active ingre I: U3H27498KS	HUMAN PRESCRIPTION ORAL Moiety dient Name		ltem Co	de (Source Basis of	Strength	2:0173-0644 Strength
_A am Pr Ro Ac	Category A MICTAL otrigine tablet roduct Infor oduct Type ute of Admini	t mation stration ent/Active ingre I: U3H27498KS	HUMAN PRESCRIPTION ORAL Moiety dient Name	J3H27498KS	ltem Co	de (Source Basis of	Strength	2:0173-0644 Strength
Am Pro Ro Ac	Category	t mation stration ent/Active Ingre I: U3H27498KS dients	HUMAN PRESCRIPTION ORAL Moiety dient Name (LAMOTRIGINE - UNII:L	J3H27498KS	ltem Co	de (Source Basis of	Strength	200 mg
Am Pro Ro Ac	Category A MICTAL ootrigine tablet roduct Infor oduct Type oduct Type oduct Type oduct Type otre of Admini tive Ingredi MOTRIGINE (UNI active Ingre	t mation stration ent/Active Ingre I: U3H27498KS dients (UNII: L06K8R7	HUMAN PRESCRIPTION ORAL Moiety dient Name (LAMOTRIGINE - UNII:L	J3H27498KS	ltem Co	de (Source Basis of	Strength	::0173-0644 Strengtl 200 mg
Ac	Category A MICTAL ootrigine tablet roduct Infor oduct Type oduct Type oduct Type oduct Type otre of Admini tive Ingredi MOTRIGINE (UNI active Ingre	t mation stration ent/Active ingre I: U3H27498KS dients (UNII: L06K8R7 CIFIED FORM (HUMAN PRESCRIPTION ORAL Moiety dient Name) (LAMOTRIGINE - UNII:L Ingredient Na DQK) UNII: J2B2A4N98G)	J3H27498KS	ltem Co	de (Source Basis of	Strength	::0173-0644 Strengtl 200 mg
Ac Ac LAN	Category	mation stration ent/Active ingre I: U3H27498KS dients (UNII: L06K8R7 CIFIED FORM (RATE (UNII: 70)	HUMAN PRESCRIPTION ORAL Moiety dient Name) (LAMOTRIGINE - UNII:L Ingredient Na DQK) UNII: J2B2A4N98G)	J3H27498KS	ltem Co	de (Source Basis of	Strength	200 mg
LAN F DA LAN	Category	t mation stration ent/Active ingre i: U3H27498KS dients (UNII: L06K8R7 CIFIED FORM (RATE (UNII: 70) NE CELLULOSI	HUMAN PRESCRIPTION ORAL Moiety dient Name) (LAMOTRIGINE - UNII:L Ingredient Na DQK) UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U)	J3H27498KS	ltem Co	de (Source Basis of	Strength	::0173-0644 Strengtl 200 mg

	DILLE		-		2		
Color	BLUE	· · · · · · · · · · · · · · · · · · ·	Score			oieces	
Shape	HEXAGON (6	siaea)	Size	Calle		mm	0
Flavor			Imprint	Code	LAI	MICTAL;20	iU
Contains							
Packaging							
# Item Code	Рас	ckage Description			ng Start ate		eting End Date
1 NDC:0173-0644- 60	60 in 1 BOTTL Product	E; Type 0: Not a Combin	nation ()1/18/1995			
Marketing I	nformat	ion					
Marketing		tion Number or Mor	nograph	Marke	ting Start	Mark	ceting End
Category		Citation			Date		Date
NDA	NDA020241			01/18/199	95		
lamotrigine tablet	, for suspen	sion					
Product Inform	mation						
Product Type		HUMAN PRESCRIPTION	DRUG	ltem Cod	le (Source)	NDC	:0173-0699
		HUMAN PRESCRIPTION ORAL	DRUG	ltem Cod	le (Source)	NDC	:0173-0699
Product Type			DRUG	ltem Cod	le (Source)	NDC	:0173-0699
Product Type Route of Adminis	stration	ORAL	DRUG	ltem Cod	le (Source)	NDC	:0173-0699
Product Type	stration ent/Active	ORAL	DRUG		le (Source) Basis of St		
Product Type Route of Adminis Active Ingredie	stration ent/Active Ingre	ORAL Moiety					
Product Type Route of Adminis Active Ingredie	stration ent/Active Ingre	ORAL Moiety dient Name			Basis of St		Strength
Product Type Route of Adminis Active Ingredie	ent/Active Ingre : U3H27498KS	ORAL Moiety dient Name			Basis of St		Strength
Product Type Route of Adminis Active Ingredie	ent/Active Ingre : U3H27498KS	ORAL Moiety dient Name	3H27498KS		Basis of St		Strength
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingree	ent/Active Ingre : U3H27498KS dients	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:US Ingredient Na	3H27498KS		Basis of St		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBON LOW-SUBSTITUTE	ent/Active Ingre : U3H27498KS dients ATE (UNII: H0G D HYDROXYPI	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US Ingredient Na 69379FGK) ROPYL CELLULOSE, UN	3H27498KS)	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBON LOW-SUBSTITUTE MAGNESIUM STEAL	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3 iga379FGK) ROPYL CELLULOSE, UI 097M6I30)	3H27498KS)	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBONA LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 1	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US Ingredient Na 69379FGK) ROPYL CELLULOSE, UN 097M6I30) FZ 989GH94E)	3H27498KS)	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBON LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 1 M (UNII: SB8Z	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US (LAMOTRIGINE - UNII:US (1) (LAMOTRIGINE - UNII:US (1)	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBONA LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 M (UNII: SB8Z GLYCOLATE TY	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US)) (LAMOTRIGINE - UNII:US)) (LAM	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBONA LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 M (UNII: SB8Z GLYCOLATE TY	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US (LAMOTRIGINE - UNII:US (1) (LAMOTRIGINE - UNII:US (1)	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBONA LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 M (UNII: SB8Z GLYCOLATE TY	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US)) (LAMOTRIGINE - UNII:US)) (LAM	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBONA LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 CIFIED (UNII: 10 M (UNII: SB8Z SLYCOLATE TY INUM SILICAT	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:US)) (LAMOTRIGINE - UNII:US)) (LAM	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE		Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBON LOW-SUBSTITUTE MAGNESIUM STEAL POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G MAGNESIUM ALUM	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 CIFIED (UNII: 10 M (UNII: SB8Z SLYCOLATE TY INUM SILICAT	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:	3H27498KS I me NSPECIFIE) L4	Basis of St AMOTRIGINE	rength	Strength 2 mg
Product Type Route of Adminis Active Ingredie LAMOTRIGINE (UNII Inactive Ingred CALCIUM CARBON LOW-SUBSTITUTE MAGNESIUM STEAT POVIDONE, UNSPE SACCHARIN SODIU SODIUM STARCH G MAGNESIUM ALUM	ent/Active Ingre : U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII	ORAL Moiety edient Name) (LAMOTRIGINE - UNII:US) (LAMOTRIGINE - UNII:	3H27498KS I me NSPECIFIE) LA	Basis of St AMOTRIGINE	rength	Strength 2 mg

Packaging								
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date				
1	NDC:0173-0699- 02	30 in 1 BOTTLE; Type 0: Not a Combination Product	10/12/2000					
2	NDC:0173-0699- 00	30 in 1 BOTTLE; Type 0: Not a Combination Product	10/12/2000					
Μ	larketing l	nformation						
	Marketing Category	Application Number or Monograph Citation						
NC	A	NDA020764	10/12/2000					

LAMICTAL					
lamotrigine tablet, for suspe	nsion				
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem C	ode (Source)	NDC:	0173-0526
Route of Administration	ORAL				
Active Ingredient/Active	Moiety				
Ingr	edient Name		Basis of Stren	gth	Strength
LAMOTRIGINE (UNII: U3H27498K	5) (LAMOTRIGINE - UNII:U3H27498KS))	LAMOTRIGINE		5 mg
Inactive Ingredients					
	Ingredient Name				Strength
CALCIUM CARBONATE (UNII: HO	G9379FGK)				
LOW-SUBSTITUTED HYDROXY	PROPYL CELLULOSE, UNSPECIFIE	D (UNII: 2	2165RE0K14)		
MAGNESIUM STEARATE (UNII: 7	0097M6I30)				
POVIDONE, UNSPECIFIED (UNII:					
SACCHARIN SODIUM (UNII: SB82					
MAGNESIUM ALUMINUM SILICA					
SODIUM STARCH GLYCOLATE	TYPE A POTATO (UNII: 5856J3G2A2)				
Product Characteristics					
	e to off-white)	Score		no	score
	e to off-white)	Score		no 8m	
ColorWHITE (whiteShapeOVAL (caple)	e to off-white)	Size	nt Code	8m	

-							
Pa	ackaging						
#	ltem Code	Pa	ckage Description		eting Start Date		eting End Date
1	NDC:0173-0526- 00	100 in 1 BOTT Product	LE; Type 0: Not a Combinatior	09/04/199	98		
Μ	arketing	Informat	ion				
	Marketing Category	Applica	tion Number or Monogra Citation	ph Mar	keting Start Date		eting End Date
NC	A	NDA020764		09/04/	1998		
	MICTAL						
	-						
an	notrigine table	t, for suspen	sion				
Ρ	roduct Infor	mation					
Pı	oduct Type		HUMAN PRESCRIPTION DRUG	ltom C	Item Code (Source) ND		
					Due (Source)		
-				item c	bue (source)		
Re	oute of Admini	stration	ORAL		ode (Source)		
Re		stration			oue (source)		
	oute of Admini		ORAL		oue (source)		
			ORAL		oue (source)		
	oute of Admini	ent/Active	ORAL		Basis of St		Strength
Α	oute of Admini	ent/Active Ingre	ORAL Moiety				Strength 25 mg
Α	oute of Admini	ent/Active Ingre	ORAL Moiety dient Name		Basis of St		-
Α	oute of Admini	ent/Active Ingre	ORAL Moiety dient Name		Basis of St		_
A (oute of Admini	ent/Active Ingre II: U3H27498KS	ORAL Moiety dient Name		Basis of St		_
A (oute of Admini ctive Ingredi MOTRIGINE (UNI	ent/Active Ingre II: U3H27498KS	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274)		Basis of St		25 mg
A(LA	oute of Admini ctive Ingredi MOTRIGINE (UNI	ent/Active Ingre II: U3H27498KS	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274) Ingredient Name		Basis of St		25 mg
A LA In	oute of Admini ctive Ingredi MOTRIGINE (UNI active Ingre	ent/Active Ingre II: U3H27498KS dients	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 19379FGK)	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C LO	oute of Admini ctive Ingredi MOTRIGINE (UNI active Ingre	ent/Active Ingre II: U3H27498KS dients IATE (UNII: HOG	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274) Ingredient Name 19379FGK) ROPYL CELLULOSE, UNSPEC	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingre ALCIUM CARBON OW-SUBSTITUTE AGNESIUM STEA	ent/Active Ingre II: U3H27498KS dients IATE (UNII: HOG D HYDROXYPI RATE (UNII: 70	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 (LAMOTRIGINE - UNII:U3H274)	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC	Ctive Ingredi MOTRIGINE (UNI CARBON CALCIUM CARBON OW-SUBSTITUTE AGNESIUM STEA OVIDONE, UNSPE	ent/Active Ingre II: U3H27498KS dients ATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 ECIFIED (UNII: 1	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H2749 (LAMOTRIGINE - UNII:U3H2749 (LAMO	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO S A	Ctive Ingredi MOTRIGINE (UNI ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre	ent/Active Ingre II: U3H27498KS dients Adients IATE (UNII: HOG D HYDROXYPI RATE (UNII: 70 ECIFIED (UNII: 1 JM (UNII: SB8Z	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274) Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY)	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC S A	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 ECIFIED (UNII: 10 GLYCOLATE TY	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC S A	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 ECIFIED (UNII: 10 GLYCOLATE TY	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274) Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY)	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC S A	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 ECIFIED (UNII: 10 GLYCOLATE TY	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC S A S C M/	Ctive Ingredi MOTRIGINE (UNI ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre ACTIVE Ingre	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UNII: 70 CIFIED (UNII: 10 JM (UNII: 5B8Z GLYCOLATE TY INUM SILICAT	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C	98KS)	Basis of St LAMOTRIGINE		25 mg
A LA In C A LO M/ PC S A S C M/	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingre ALCIUM CARBON OW-SUBSTITUTE AGNESIUM STEA OVIDONE, UNSPE AGNESIUM STARCH (AGNESIUM ALUM FODUCT Chara	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UN	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C	98KS) 31 FIED (UNII: 2	Basis of Str LAMOTRIGINE	rength	25 mg
A LA In C LO M P C C C	Ctive Ingredi MOTRIGINE (UNI ACTIVE Ingre ACTIVE Ingre AC	ent/Active Ingre II: U3H27498KS dients ATE (UNII: HOG DHYDROXIPI RATE (UNII: TO CIFIED (UNII: TO CIFIED (UNII: SB82 GLYCOLATE TY INUM SILICAT ACTERISTICS WHITE	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274) Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C TE (UNII: 6M3P64V0NC)	98KS) 32A2) Sco	Basis of Stu LAMOTRIGINE	rength	25 mg
	Ctive Ingredi MOTRIGINE (UNI MOTRIGINE (UNI MACTIVE Ingredi MACTIVE Ingred Ingred MACTIVE In	ent/Active Ingre II: U3H27498KS dients Ate (UNII: HOG D HYDROXYPI RATE (UNII: 70 CIFIED (UN	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C TE (UNII: 6M3P64V0NC) Iliptical-shaped)	98KS) SIFIED (UNII: 2 S2A2) S2A2	Basis of Str LAMOTRIGINE	rength nc 5r	25 mg Strength score nm
A LA In C A S A S A S A S A S A S A S A S A S A	Ctive Ingredi MOTRIGINE (UNI ACTIVE Ingre ACTIVE Ingre AC	ent/Active Ingre II: U3H27498KS dients ATE (UNII: HOG DHYDROXIPI RATE (UNII: TO CIFIED (UNII: TO CIFIED (UNII: SB82 GLYCOLATE TY INUM SILICAT ACTERISTICS WHITE	ORAL Moiety dient Name) (LAMOTRIGINE - UNII:U3H274 Ingredient Name 9379FGK) ROPYL CELLULOSE, UNSPEC 097M6I30) FZ 989GH94E) UX40TY) YPE A POTATO (UNII: 5856J3C TE (UNII: 6M3P64V0NC) Iliptical-shaped)	98KS) SIFIED (UNII: 2 S2A2) S2A2	Basis of Stu LAMOTRIGINE	rength nc 5r	25 mg

Packaging

# Item Code	Pao	ckage Description	Marketing	-	Marke [Date
1 NDC:0173-052	7- 100 in 1 BOTT Product	LE; Type 0: Not a Combination	09/03/1998			
00	Troduct					
	1	1				
	Informat					
Marketing Category	Applica	tion Number or Monograph Citation		ing Start ate		eting End Date
NDA	NDA020764		09/03/1998			
AMICTAL	ODT					
amotrigine tab	et, orally disint	egrating				
Product Info	ormation					
Product Type		HUMAN PRESCRIPTION DRUG	ltem Code	(Source)	NDC	:0173-0772
Route of Admi	nistration	ORAL				
Active Ingre	dient/Active	Molety				
Active Ingre		Molety dient Name	Ba	asis of Stı	rength	Strengt
	Ingre	-		asis of Sti IOTRIGINE	rength	Strengt 25 mg
	Ingre NII: U3H27498KS	dient Name				-
LAMOTRIGINE (U	Ingre NII: U3H27498KS redients	dient Name) (LAMOTRIGINE - UNII:U3H27498K				25 mg
LAMOTRIGINE (U	Ingre NII: U3H27498KS edients (15 MPA.S AT 5	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name				25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN	Ingre NII: U3H27498KS redients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK)				5
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN	Ingre NII: U3H27498KS redients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name				25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN	Ingre NII: U3H27498KS redients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK)				25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN	Ingre NII: U3H27498KS edients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK)				25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS	Ingre NII: U3H27498KS edients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)			S	25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CE (100 MPA.S)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM		S	25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CE (100 MPA.S)	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM	IOTRIGINE	n 7	25 mg
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CE (100 MPA.S) II: WHITE (white to ROUND (flat-fac	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM Score Size	IOTRIGINE	n 7	25 mg trength o score mm
LAMOTRIGINE (L Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape Flavor	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CE (100 MPA.S) II: WHITE (white to ROUND (flat-fac	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM Score Size	IOTRIGINE	n 7	25 mg trength o score mm
LAMOTRIGINE (U Inactive Ingu CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape Flavor Contains	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CE (100 MPA.S) II: WHITE (white to ROUND (flat-fac	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM Score Size	IOTRIGINE	n 7	25 mg trength o score mm
LAMOTRIGINE (L Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape Flavor	Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) SE (100 MPA.S) CHERSY	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV)	S) LAM Score Size	t Code	n 7 L	25 mg Strength o score mm MT;25
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape Flavor Contains Packaging	Ingre INII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3Z D4) CE (100 MPA.S) CHERRY VHITE (white to ROUND (flat-fac CHERRY	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV) co off-white) ced, radius edge) ckage Description	S) LAM	t Code	n 7 L	25 mg Strength o score mm MT;25 eting Enc
LAMOTRIGINE (U Inactive Ingi CROSPOVIDONE MANNITOL (UNII: SUCRALOSE (UN ETHYLCELLULOS Product Cha Color Shape Flavor Contains Packaging # Item Code 1 NDC:0173-077	Ingre Ingre NII: U3H27498KS Cedients (15 MPA.S AT 5 30WL53L36A) II: 96K6UQ3ZD4) Citeristics WHITE (white to ROUND (flat-fac CHERRY CHERRY 2- 1 in 1 CARTON	dient Name) (LAMOTRIGINE - UNII:U3H27498K Ingredient Name 5%) (UNII: 68401960MK) (UNII: 47MLB0F1MV) co off-white) ced, radius edge) ckage Description	S) LAM	t Code	n 7 L	25 mg Strength o score mm MT;25 eting Enc

			Mar	keting Start		eting End
Category		Citation		Date	I	Date
NDA	NDA022251		06/05/	2009		
AMICTAL	-	egrating				
Product Infor	mation					
Product Type	oduct Type HUMAN PRESCRIPTION DRUG Item Code (Source)		NDC:	0173-0774		
Route of Admin	istration	ORAL		. ,		
Active Ingred	ient/Active	Moiety				
	-	dient Name		Basis of Str	ength	Strength
LAMOTRIGINE (UN	II: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS)	LAMOTRIGINE		50 mg
Inactive Ingre	dients	la una dia sta Managa				
		Ingredient Name			5	trength
MANNITOL (UNII: 3		i%) (UNII: 68401960MK)				
SUCRALOSE (UNII:						
		(UNII: 47MLB0F1MV)				
	(,	(
Product Chara	acteristics					
Color	WHITE (white to	o off-white)	Sc	ore	no	o score
Shape	ROUND (flat-fa	ced, radius edge)	Siz	e	9r	nm
	CHERRY		Im	print Code	LN	4T;50
Flavor						
Contains						
Contains Packaging	Pa	ckage Description	Mark	eting Start Date		eting End Date
Contains Packaging # Item Code	Pa 1 in 1 CARTON		Mark 06/05/20	Date		
Contains Packaging # Item Code 1 NDC:0173-0774- 02	1 in 1 CARTON			Date		
Contains Packaging # Item Code 1 NDC:0173-0774- 02	1 in 1 CARTON 30 in 1 DOSE I			Date		
Contains Packaging # Item Code 1 NDC:0173-0774- 02	1 in 1 CARTON 30 in 1 DOSE F Product	PACK; Type 0: Not a Combination		Date		
1 NDC:0173-0774-	1 in 1 CARTON 30 in 1 DOSE P Product	PACK; Type 0: Not a Combination	06/05/20	Date	Mark	

LAMICTAL	ODT					
lamotrigine table	et, orally disint	egrating				
Product Info	rmation					
Product Type		HUMAN PRESCRIPTION DRUG	Item C	ode (Source)	NDC:	0173-0776
Route of Admin	istration	ORAL				
Active Ingred	lient/Active	Moietv				
j		dient Name		Basis of St	rength	Strength
LAMOTRIGINE (UN	-) (LAMOTRIGINE - UNII:U3H27498KS)	LAMOTRIGINE		100 mg
Inactive Ingre	edients					
		Ingredient Name			S	trength
CROSPOVIDONE	(15 MPA.S AT 5	5%) (UNII: 68401960MK)				
MANNITOL (UNII: 3	30WL53L36A)					
SUCRALOSE (UNII:	: 96K6UQ3ZD4)					
ETHYLCELLULOS	E (100 MPA.S)	(UNII: 47MLB0F1MV)				
Due duet Chev						
Product Char		off white)	C			
	WHITE (white to	ed, radius edge)	Score Size		no score 11mm	•
•	CHERRY			Codo	LAMICTA	1.100
Contains	CHERNI		Imprint	Code	LAMICTA	L,100
contains						
Packaging						
# Item Code	Pa	ckage Description	Mark	eting Start Date		eting End Date
1 NDC:0173-0776-	1 in 1 CARTON		06/05/20	009		
1	30 in 1 DOSE F Product	PACK; Type 0: Not a Combination				
Marketing	Informat	ion				
Marketing Category		tion Number or Monograph	Mar	keting Start		eting End
Caleudiv		Citation		Date		Date
NDA	NDA022251	Citation	06/05/2			

LAMICTAL ODT

Pro	duct Infor	rmation					
Prod	luct Type		HUMAN PRESCRIPTION DRUG	ltem C	ode (Source)	NDC	:0173-0777
Rout	e of Admin	istration	ORAL				
Acti	ve Ingred	ient/Active	Moiety				
		Ingre	dient Name		Basis of Str	ength	Strengt
LAMO	OTRIGINE (UN	III: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498)	KS)	LAMOTRIGINE		200 mg
nac	tive Ingre	edients					
			Ingredient Name			S	trength
			5%) (UNII: 68401960MK)				
	NITOL (UNII: 3						
		96K6UQ3ZD4)	(UNII: 47MLB0F1MV)				
- 1 - 1 - 1	LCELLOLOSI	E (100 MPA.S)					
Proc	duct Char	acteristics					
Coloi	r	WHITE (white to	off-white)	Score		no score	9
Shap)e	ROUND (flat-face	ed, radius edge)	Size		14mm	
Flavo	or	CHERRY		Imprint	Code	LAMICTAL;200	
Cont	ains						
Pacl	kaging						
	tem Code	Pa	ckage Description	Mark	eting Start Date		eting End Date
1 ND 02	C:0173-0777-	1 in 1 CARTON		06/05/20	009		
1		30 in 1 DOSE F Product	PACK; Type 0: Not a Combination				
Mai	rketing	Informat	ion				
	Marketing Category	Applica	tion Number or Monograpl Citation	h Mar	keting Start Date		eting End Date
NDA		NDA022251		06/05/2	2009		
_A M	TICTAL						

Product Type

HUMAN PRESCRIPTION DRUG

Da	ckaging							
Pd	ickaging				Mayle	ating Start	Mark	ating Fud
#	ltem Code		ckage Description	n	магк	eting Start Date		eting End Date
	NDC:0173-0594- 02	1 in 1 PACKAG	E, COMBINATION	0	9/29/20	003		
1		1 in 1 BLISTER Product	PACK; Type 0: Not a C	ombination				
Qı	uantity of P	arts						
Pa	rt #	Package (Quantity		Tota	l Product	Quantity	
Par	rt 1			7				
Par	rt 2			42				
Pa	art 1 of 2							
	AMICTAL							
lan	notrigine table	et						
Pr	oduct Infor	mation						
Ro	ute of Admin	istration	ORAL					
۸c								
Active Ingredient/Active Moiety								
	tive Ingred		Moiety dient Name			Basis of S	Strength	Strength
		Ingre	-	J3H27498KS)		Basis of S		Strength 100 mg
		Ingre	dient Name	J3H27498KS)				
LAI		ing re II: U3H27498KS	dient Name	J3H27498KS)				
LAI	MOTRIGINE (UN	ing re II: U3H27498KS	dient Name					
LAP	MOTRIGINE (UN active Ingre	Ingre II: U3H27498KS edients	edient Name) (LAMOTRIGINE - UNII:U					100 mg
LAN Ina LAC MA	MOTRIGINE (UN active Ingre CTOSE, UNSPEC	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70	edient Name) (LAMOTRIGINE - UNII:L Ingredient Na (UNII: J2B2A4N98G) 097M6I30)					100 mg
LAN Ina LAC MA	MOTRIGINE (UN active Ingre CTOSE, UNSPE GNESIUM STEA CROCRYSTALLI	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U)					100 mg
LAN Ina LAC MA MIC PO	MOTRIGINE (UN active Ingre CTOSE, UNSPE GNESIUM STEA CROCRYSTALLI VIDONE, UNSPI	Ingre II: U3H27498KS dients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII:	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E)					100 mg
LAN LAC MA MIC PO	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GNESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO	Ingre II: U3H27498KS edients CIFIED FORM NRATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77)	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8)	me				100 mg
LAN LAC MA MIC PO	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GNESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO	Ingre II: U3H27498KS edients CIFIED FORM NRATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77)	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E)	me				100 mg
LAN Ina MA MIC PO FD SO	MOTRIGINE (UN active Ingre CTOSE, UNSPE GNESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO DIUM STARCH	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77) GLYCOLATE T	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8)	me				100 mg
LAN Ina LAC MA MIC PO' FDC SO	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GRESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO DIUM STARCH	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77) GLYCOLATE T Acteristics	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8) YPE A POTATO (UNII: 1	me 5856J3G2A2)		LAMOTRIGINE		100 mg
LAN Ina LAC MA MIC PO' FDO SO	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GRESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO DIUM STARCH	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77V GLYCOLATE T ACTERISTICS ORANGE (pe	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8) YPE A POTATO (UNII: S sach)	me 5856J3G2A2) Score		LAMOTRIGINE	2 pieces	100 mg
LAN Ina LAC MA MIC PO' FDA SO Pr Col Sha	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GRESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO DIUM STARCH DIUM STARCH Ior ape	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77) GLYCOLATE T Acteristics	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8) YPE A POTATO (UNII: S sach)	5856J3G2A2)		LAMOTRIGINE	2 pieces	100 mg
LAN Ina LAC MA MIC PO' FDa SO Pr Co Sha Fla	MOTRIGINE (UN active Ingre CTOSE, UNSPEC GRESIUM STEA CROCRYSTALLI VIDONE, UNSPI &C YELLOW NO DIUM STARCH	Ingre II: U3H27498KS edients CIFIED FORM RATE (UNII: 70 NE CELLULOS ECIFIED (UNII: D. 6 (UNII: H77V GLYCOLATE T ACTERISTICS ORANGE (pe	edient Name) (LAMOTRIGINE - UNII:U Ingredient Na (UNII: J2B2A4N98G) 097M6I30) E (UNII: OP1R32D61U) FZ 989GH94E) /EI93A8) YPE A POTATO (UNII: S sach)	me 5856J3G2A2) Score		LAMOTRIGINE	2 pieces	100 mg

Part 2 of 2 LAMICTAL lamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Moiety Basis of Strength Ingredient Name Basis of Strength Active Ingredient/Active Moiety LAMOTRIGINE Inactive Ingredients 25 mg Inactive Ingredients Strength Ingredient Name Strength IACTOSE, UNSPECIFIED FORM (UNII: 1282A4N98G) Macketingth MacRocrystalLine CelLULOSE (UNII: 0P1R32D61U) Povidone, UNSPECIFIED (UNII: F2856J3G2A2) Product Characteristics Imprint Code Application (IS sided) Size 6mm Ender Flavor Imprint Code LAMICTAL:25 Contains Imprint Code LAMICTAL:25 Marketing Information Marketing Start Marketing End								
Category Citation Date Date NDA NDA020241 01/17/1995 Part 2 of 2 LAMICTAL lamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Ingredient S Ingredient Name Ingredient Name Ingredient Name Ingredient S	Marketing In	nformat	ion					
NDA NDA020241 01/17/1995 Product 2 of 2 LAMICTAL lamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Molety Lamotrigine (UNII: U3H27498K5) LAMOTRIGINE (UNII: U3H27498K5) <th></th> <th>Applica</th> <th></th> <th>graph</th> <th>Mar</th> <th></th> <th></th> <th>-</th>		Applica		graph	Mar			-
LAMICTAL Iamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient/Active Moiety Ingredient/Active Moiety LAMOTRIGINE (UNII: U3H27498KS) LAMOTRIGINE Strength Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength	NDA	NDA020241			01/17/1	1995		
LAMICTAL Iamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient/Active Moiety Ingredient/Active Moiety LAMOTRIGINE (UNII: U3H27498KS) LAMOTRIGINE Strength Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength								
LAMICTAL Iamotrigine tablet Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient/Active Moiety Ingredient/Active Moiety LAMOTRIGINE (UNII: U3H27498KS) LAMOTRIGINE Strength Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength Inactive Ingredient Name Strength								
Import tablet Product Information ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Ingredient Name Strength Ingredient Name Strength Ingredient Name Strength Inactive Ingredient Name Strength Ingredient Name Strength Ingredient Name Strength Inactive Ingredient Name Strength Ingredient Name Strength <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Ingredient Name Basis of Strength Strength Ingredient Name Strength Ingredient Strength Ingred	lamotrigine tablet							
ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Ingredient Name Basis of Strength Strength Ingredient Name Strength Ingredient Strength Ingred								
Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G) MAGNESIUM STEARATE (UNII: 70097M6130) MICROCRYSTALLINE CELLULOSE (UNII: 0P1R32D61U) POVIDONE, UNSPECIFIED (UNII: S298GH94E) SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	Product Inform	ation						
Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength Inactive Ingredients Ingredient Name Strength Inactive Ingredients Strength Strength Inactive Ingredients Strength Strength Inactive Ingredients Strength Strength Inactive Ingredients Strength Strength Ingredient Name Strength Strength Ingredient Statt TopPation Strength Sobium Startch GLYColate Type A Potato (UNII: 5856)3G2A2) Strength Statger Size Smm Smm Flavor Ingredie	Route of Administ	ration	ORAL					
Ingredient NameBasis of StrengthStrengthLAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS)LAMOTRIGINE25 mgInactive IngredientsIngredient NameStrengthInactive IngredientsIngredient NameStrengthLACTOSE, UNSPECIFIED FORM (UNII: j2B2A4N98G)StrengthStrengthMaGNESIUM STEARATE (UNII: 70097M6I30)IndicoccrystalLine CelluloSE (UNII: 0P1832D61U)IndicoccrystalLine CelluloSE (UNII: 0P1832D61U)POVIDONE, UNSPECIFIED (UNII: F2989GH94E)IndicoccrystalLine CelluloSE (UNII: 5289GH94E)IndicoccrystalLine CelluloSE (UNII: 5289GH94E)Sobium Starch GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)Size6mmProduct CharacteristicsSize6mmColorWHITEScore2 piecesShapeHEXAGON (6 sided)Size6mmFlavorImprint CodeLAMICTAL;25ContainsMarketing InformationMarketing StartMarketingApplication Number or MonographMarketing StartNDANDA02024108/15/1996								
LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G) MAGNESIUM STEARATE (UNII: 7097M6130) MICROCRYSTALLINE CELLULOSE (UNII: 0P1R32D61U) POVIDONE, UNSPECIFIED (UNII: 72989GH94E) SoDIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856]3G2A2) Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size 6mm Flavor MHITE Size 6mm Flavor MARCED HEXAGON (6 sided) 14 MICTACL;25 Marketing Information Marketing Application Number or Monograph Marketing Start Date Marketing End Date NDA NDA020241 08/15/1996	Active Ingredie	nt/Active	Moiety					
Ingredients Ingredient Name Strength LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G) MAGNESIUM STEARATE (UNII: 70097M6I30) Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Sodium Starch GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2) Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size Gmm Imprint Code LAMICTAL;25 Marketing Information Marketing Start Date Marketing Start Date Marketing End Date NDA NDA020241 08/15/1996 Imprint Code Imprint Date Impr		Ingre	dient Name			Basis of St	trength	Strengt
Ingredient Name Strength LACTOSE, UNSPECIFIED FORM (UNII: j2B2A4N98G) MAGNESIUM STEARATE (UNII: 70097M6I30) MICROCRYSTALLINE CELLULOSE (UNII: 091R32D61U) POVIDONE, UNSPECIFIED (UNII: F2989GH94E) Sodium STARCH GLYCOLATE TYPE A POTATO (UNII: 5856]3G2A2) Product Characteristics Score 2 pieces Shape HEXAGON (6 sided) Size 6mm	LAMOTRIGINE (UNII:	U3H27498KS) (LAMOTRIGINE - UNII:U3H	127498KS)		LAMOTRIGINE		25 mg
LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G) MAGNESIUM STEARATE (UNII: 70097M6I30) MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U) POVIDONE, UNSPECIFIED (UNII: F2989GH94E) SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2) Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size 6mm Flavor 6mm Flavor 6mm Flavor 6mm Flavor 6mm Marketing Information Marketing Application Number or Monograph Marketing Start Marketing End Date 08/15/1996 NDA NDA020241 08/15/1996	Inactive Ingredi	ients	Increations Norm					Ctue n ath
Magnesium stearate (UNII: 70097M6i30) Impose to the second s				9				Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U) POVIDONE, UNSPECIFIED (UNII: FZ989GH94E) SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2) Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size 6mm Flavor AMICTAL;25 Contains Information Marketing Information Marketing Application Number or Monograph Marketing Start Date Marketing End Date NDA NDA020241 08/15/1996			•					
POVIDONE, UNSPECIFIED (UNII: FZ 989GH94E) SODIUM STARCH GLVCOLATE TYPE A POTATO (UNII: 5856J3G2A2) Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size 6mm Flavor Alexandro Ale		-	· ·					
Product Characteristics Color WHITE Score 2 pieces Shape HEXAGON (6 sided) Size 6mm Flavor Imprint Code LAMICTAL;25 Contains Application Number or Monograph Marketing Start Marketing End Date Marketing Application Number or Monograph Marketing Start Marketing End Date NDA NDA020241 08/15/1996 08/15/1996								
ColorWHITEScore2 piecesShapeHEXAGON (6 sided)Size6mmFlavorImprint CodeLAMICTAL;25Contains	SODIUM STARCH GL	YCOLATE T	YPE A POTATO (UNII: 585	6J3G2A2)				
ColorWHITEScore2 piecesShapeHEXAGON (6 sided)Size6mmFlavorImprint CodeLAMICTAL;25Contains								
Shape HEXAGON (6 sided) Size Imprint Code Flavor Imprint Code LAMICTAL;25 Contains Imprint Code Imprint Code	Product Charac	teristics						
Flavor Imprint Code LAMICTAL;25 Contains Imprint Code LAMICTAL;25 Marketing Category Application Number or Monograph Marketing Start Date Marketing End Date NDA NDA020241 08/15/1996 Marketing Start Marketing End Date	Color	WHITE		Score		:	2 pieces	
ContainsMarketing InformationMarketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing End DateNDANDA02024108/15/1996	Shape	HEXAGON (5 sided)	Size		(6mm	
Marketing InformationMarketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing End DateNDANDA02024108/15/1996	Flavor			Imprint	Code	I	LAMICTAL;2	25
Marketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing End DateNDANDA02024108/15/1996	Contains							
CategoryCitationDateDateNDANDA02024108/15/1996	Marketing In	nformat	ion					
NDA NDA020241 08/15/1996		Applica		graph	Mar			
Marketing Information	NDA	NDA020241			08/15/1	1996		
Marketing Information								
Marketing Information								
	Marketing In	format	ion					

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020241	09/29/2003	

L	AMICTAL	ODT						
lar	notrigine kit							
Ρ	roduct Infor	mation						
P	roduct Type	HUMAN PE	RESCRIPTION DRUG	ltem	Code (S	Source)	NDC:01	73-0779
						· · · · ·		
Pa	ackaging							
#	ltem Code	Pa	ackage Description	n	Mark	eting Start Date		eting End Date
1	NDC:0173-0779- 00	1 in 1 PACKAG	GE, COMBINATION		06/05/20	009		
1			R PACK; Type 0: Not a C	ombination				
		Product						
Q	uantity of P	arts						
	art #	Package	Quantity		Tota	al Product Qu	antity	
Pa	nrt 1			7				
Pa	nrt 2			21				
Ρ	art 1 of 2							
L	AMICTAL	ODT						
la	motrigine table	et, orally disi	ntegrating					
P	roduct Infor	mation						
-			ODAL					
R	oute of Admin	istration	ORAL					
A	ctive Ingred	ient/Active	Moiety					
		Ingr	edient Name			Basis of Str	rength	Strength
LA	MOTRIGINE (UN	III: U3H27498KS	5) (LAMOTRIGINE - UNII:U	J3H27498KS))	LAMOTRIGINE		50 mg
In	active Ingre	edients						
			Ingredient Nam	ne			S	trength
CF	ROSPOVIDONE (15 MPA.S AT	5%) (UNII: 68401960MK					
M	ANNITOL (UNII: 3	OWL53L36A)						
รเ	JCRALOSE (UNII:	96K6UQ3ZD4)						

ETHYLCELLULOSE	(100 MPA.S) (UNII: 47MLB0F1MV)		
Product Chara	acteristics		
Color	WHITE (white to off-white)	Score	no score
Shape	ROUND (flat-faced, radius edge)	Size	9mm
Flavor	CHERRY	Imprint Code	LMT;50
Contains			
Markoting	Information		
Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
NDA	NDA022251	06/05/2009	
Part 2 of 2			
LAMICTAL	ODT et, orally disintegrating		
Product Infor Route of Admini			
Active Ingredi	ent/Active Moiety		
Active mgrea		Basis of St	rongth Strongth
	Ingredient Name II: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS)		rength Strength 25 mg
	(LAMOTRIGINE - UNILUST27490KS)	LAMOTRIGINE	25 mg
Inactive Ingre	dients		
	Ingredient Name		Strength
CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK)		
MANNITOL (UNII: 3	OWL53L36A)		
SUCRALOSE (UNII:	96K6UQ3ZD4)		
ETHYLCELLULOSE	(100 MPA.S) (UNII: 47MLB0F1MV)		
Product Chara	acteristics		
Color	WHITE (white to off-white)	Score	no score
Shape	ROUND (flat-faced, radius edge)	Size	7mm
Flavor	CHERRY	Imprint Code	LMT;25
Contains			

Marketing	Informat	ion					
Marketing Category	Applicat	tion Number or Mo Citation	nograph	Marl	keting Start Date		eting End Date
NDA	NDA022251			06/05/2	.009		
Marketing	Informat	ion					
Marketing Category	Applicat	tion Number or Mo Citation	nograph	Marl	keting Start Date		eting End Date
NDA	NDA022251			06/05/2	009		
LAMICTAL							
lamotrigine kit							
Product Infor	rmation						
Product Type	HUMAN PR	ESCRIPTION DRUG	ltem	Code (S	ource)	NDC:01	73-0780
Packaging							
# Item Code	Pa	ckage Description	n	Mark	eting Start Date		eting End Date
1 NDC:0173-0780-	1 in 1 PACKAGE	E, COMBINATION		06/05/20	09		
1	1 in 1 BLISTER Product	PACK; Type 0: Not a C	ombination				
Quantity of P	arts						
Part #	Package C	Juantity		Tota	l Product Qu	antity	
Part 1			42				
Part 2			14				
Part 1 of 2							
LAMICTAL	ODT						
lamotrigine table		tegrating					
Product Infor	mation						
Route of Admin	istration	ORAL					
Active Ingred	ient/Active	Moiety					
		dient Name			Basis of Str	rength	Strength
						-	•

LAMOTRIGINE

50 mg

Inactive Ingre	edients					
		Ingredient Name			:	Strength
CROSPOVIDONE (15 MPA.S AT !	5%) (UNII: 68401960MK)				
MANNITOL (UNII: 3	30WL53L36A)					
SUCRALOSE (UNII:						
ETHYLCELLULOSE	E (100 MPA.S)	(UNII: 47MLB0F1MV)				
Product Chara	acteristics					
Color	WHITE (white t	o off-white)	Sco	ore	1	no score
Shape	ROUND (flat-fa	ced, radius edge)	Siz	e	9	9mm
Flavor	CHERRY		Imp	orint Code	1	LMT;50
Contains						
		-				
Marketing	Informat	ion				
Marketing Category	Applica	tion Number or Monograph Citation	Mar	keting Start Date	Mar	keting End Date
NDA	NDA022251		06/05/2	2009		
Part 2 of 2						
LAMICTAL	ODT					
lamotrigine table	-	ntegrating				
J	- , ,					
Product Infor	mation					
Route of Admin	istration					
	istration	ORAL				
	istration	ORAL				
Active Ingred						
Active Ingred	ient/Active			Basis of Str	ength	Strength
Active Ingred	ient/Active Ingre	Moiety	,	Basis of Stru LAMOTRIGINE	ength	Strength
	ient/Active Ingre	Moiety edient Name			ength	-
LAMOTRIGINE (UN	ient/Active Ingre	Moiety edient Name			ength	-
LAMOTRIGINE (UN	ient/Active Ingre	Moiety edient Name				-
LAMOTRIGINE (UN	ient/Active Ingre III: U3H27498KS edients	Moiety edient Name) (LAMOTRIGINE - UNII:U3H27498KS)				100 mg
LAMOTRIGINE (UN Inactive Ingre CROSPOVIDONE (ient/Active Ingre III: U3H27498KS edients	Moiety edient Name) (LAMOTRIGINE - UNII:U3H27498KS) Ingredient Name				100 mg
LAMOTRIGINE (UN Inactive Ingre CROSPOVIDONE (MANNITOL (UNII: 3	ient/Active Ingre III: U3H27498KS edients (15 MPA.S AT 9 30WL53L36A)	Moiety edient Name) (LAMOTRIGINE - UNII:U3H27498KS) Ingredient Name				100 mg
LAMOTRIGINE (UN Inactive Ingre CROSPOVIDONE (MANNITOL (UNII: 3 SUCRALOSE (UNII:	ient/Active Ingre III: U3H27498KS edients (15 MPA.S AT ! 30WL53L36A) 96K6UQ3Z D4)	Moiety edient Name) (LAMOTRIGINE - UNII:U3H27498KS) Ingredient Name				100 mg

Product Char	acteristics		
Color	WHITE (white to off-white)	Score	no score
Shape	ROUND (flat-faced, radius edge)	Size	11mm
-	CHERRY	Imprint Code	LAMICTAL;100
Contains			
Marketing	Information		
Marketing Category	Application Number or Monogra Citation	ph Marketing Start Date	Marketing End Date
NDA	NDA022251	06/05/2009	
Marketing	Information		
Marketing Category	Application Number or Monogra Citation	ph Marketing Start Date	Marketing End Date
NDA	NDA022251	06/05/2009	
amotrigine kit Product Infoi	rmation	tem Code (Source)	NDC:0173-0778
amotrigine kit Product Info i	rmation	tem Code (Source)	NDC:0173-0778
amotrigine kit Product Info i Product Type	rmation	tem Code (Source)	NDC:0173-0778
amotrigine kit Product Infoi Product Type Packaging	rmation	tem Code (Source) Marketing Start Date	
Product Info Product Type Packaging Item Code	rmation HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG	Marketing Start	Marketing End
1 NDC:0173-0778-	rmation HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description	Marketing Start Date 06/05/2009	Marketing End
Product Info Product Info Product Type Packaging Item Code I NDC:0173-0778- 00	Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combination	Marketing Start Date 06/05/2009	Marketing End
Product Info Product Info Product Type Packaging Item Code NDC:0173-0778- 00	HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combina Product	Marketing Start Date 06/05/2009 tion	Marketing End Date
Product Info Product Info Product Type Packaging Item Code NDC:0173-0778- 00 NDC:0173-0778- 00	HUMAN PRESCRIPTION DRUG H HUMAN PRESCRIPTION DRUG H Package Description H 1 in 1 PACKAGE, COMBINATION H 1 in 1 BLISTER PACK; Type 0: Not a Combination H Product H	Marketing Start Date 06/05/2009	Marketing End Date
Product Info Product Info Product Type Packaging Item Code NDC:0173-0778- 00 NDC:0173-0778- 00 NDC:0173-0778- 00	HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combina Product	Marketing Start Date 06/05/2009 tion	Marketing End Date
amotrigine kit Product Infor Product Type Packaging I Item Code NDC:0173-0778- 0 Quantity of P Part # Part 1 Part 2	HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combina Product	Marketing Start Date 06/05/2009 tion	Marketing End Date
Product Info Product Info Product Type Packaging Item Code NDC:0173-0778- 00 NDC:0173-0778- 00 NDC:0173-0778- 00	HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combina Product	Marketing Start Date 06/05/2009 tion	Marketing End Date
Product Info Product Type Packaging Item Code In NDC:0173-0778- 00 In NDC:0173-0778- 00 In NDC:0173-0778- 00	HUMAN PRESCRIPTION DRUG HUMAN PRESCRIPTION DRUG Package Description 1 in 1 PACKAGE, COMBINATION 1 in 1 BLISTER PACK; Type 0: Not a Combina Product Package Quantity 14 14 14 14 14	Marketing Start Date 06/05/2009 tion	Marketing End Date

LAMICTAL ODT

lamotrigine tablet, orally disintegrating

Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains Application Number or Monograph Category Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Marketing End Part 2 of 3 Example Start Marketing End LAMICTAL ODT Imprint Code Imprint Code Iamotrigine tablet, orally disintegrating 0RAL Imprint Code Product Information ORAL Imprint Code Imprint Code Active Ingredient/Active Molety Imprint Code Imprint Code Imprint Code							
Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Inactive Ingredients Inactive Ingredients Ingredient Name Strength CROSPOVIDONE (15 MPA ST 5%) (UNII: 68401960MK) MANNTOL (UNII: 30M53L36A) SUCRALOSE (UMII: 96K8UQ32D4) ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Product Characteristics Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Contains VATE (white to off-white) Score 10 score Marketing Information Marketing Application Number or Monograph Marketing Start Marketing End Date Date NDA NDA022251 06/05/2009 Part 2 of 3 LAMICTAL ODT Iamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL.	Product Infor	mation					
Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) Strength MANNITOL (UNII: 30WL53L36A) SUCRALOSE (UNII: 96K6U032D4) Strength Indicator Product Characteristics no score no score Color WHITE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains NDA022251 06/05/2009 Jate Part 2 of 3 LAMOTRIGINE (Jatine grating) Score Score Product Information Imprint Code Jate Jate NDA NDA022251 06/05/2009 Jate	Route of Admin	istration	ORAL				
Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) Strength MANNITOL (UNII: 30WL53L36A) SUCRALOSE (UNII: 96K6U032D4) Strength Indicator Product Characteristics no score no score Color WHITE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains NDA022251 06/05/2009 Jate Part 2 of 3 LAMOTRIGINE (Jatine grating) Score Score Product Information Imprint Code Jate Jate NDA NDA022251 06/05/2009 Jate							
Ingredient Name Basis of Strength Strength LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name Strength CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) Strength MANNITOL (UNII: 30WL53L36A) SUCRALOSE (UNII: 96K6U032D4) Strength Indicator Product Characteristics no score no score Color WHITE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains NDA022251 06/05/2009 Jate Part 2 of 3 LAMOTRIGINE (Jatine grating) Score Score Product Information Imprint Code Jate Jate NDA NDA022251 06/05/2009 Jate							
LAMOTRIGINE (UNII: U3H27498KS) (LAMOTRIGINE - UNII:U3H27498KS) LAMOTRIGINE 25 mg Inactive Ingredients Ingredient Name CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) MANNITOL (UMII: 304L53L36A) SUC RALOSE (UNII: 304K253L36A) SUC RALOSE (UNII: 304K	Active Ingred						
Inactive Ingredients Ingredient Name Strength Cospovidone (15 MPA.S AT 5%) (UNII: 68401960MK) MAINITOL (UNII: 30K05032D4) BURGLOSE (UNII: 96K60032D4) ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Product Characteristics Color WHTE (white to off-white) Score no score Strength Size 7mm Flavor CHERY Imprint Code LMT:25 Marketing Information Marketing Start Date Marketing Start Date NDA NDA022251 06/05/2009 Date Date Product Information Route of Administration ORAL ORAL Category ORAL		-				ength	-
Ingredient Name Strength CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) MANNITOL (UNII: 30VL53L36A) Strength MANNITOL (UNII: 30VL53L36A) SUCRAL0SE (UNII: 96K60/32D4) no score ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Score no score Product Characteristics Size 7mm Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT:25 Contains Application Number or Monograph Marketing Start Marketing End Date NDA NDA022251 O6/05/2009 Jate Date Product Information ROUND (flat-faced, radius edge) Strength Marketing Start Application Number or Monograph Marketing Start Date NDA NDA022251 O6/05/2009 Jate Jate Product Information Route of Administration ORL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength <th>LAMOTRIGINE (UN</th> <th>II: U3H27498KS)</th> <th>(LAMOTRIGINE - UNII:U3H27498KS)</th> <th></th> <th>LAMOTRIGINE</th> <th></th> <th>25 mg</th>	LAMOTRIGINE (UN	II: U3H27498KS)	(LAMOTRIGINE - UNII:U3H27498KS)		LAMOTRIGINE		25 mg
Ingredient Name Strength CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) MANNITOL (UNII: 30VL53L36A) Strength MANNITOL (UNII: 30VL53L36A) SUCRAL0SE (UNII: 96K60/32D4) no score ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Score no score Product Characteristics Size 7mm Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT:25 Contains Application Number or Monograph Marketing Start Marketing End Date NDA NDA022251 O6/05/2009 Jate Date Product Information ROUND (flat-faced, radius edge) Strength Marketing Start Application Number or Monograph Marketing Start Date NDA NDA022251 O6/05/2009 Jate Jate Product Information Route of Administration ORL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
CROSPOVIDONE (15 MPA.S AT 5%) (UNII: 68401960MK) MANNITOL (UMII: 30WL53L36A) SUCRALOSE (UNII: 96K6UQ32D4) ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Product Characteristics Color WHITE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY COMMINIC (CHERRY Imprint Code LMT;25 Contains Marketing Information Marketing Application Number or Monograph Category Application Number or Monograph Category NDA022251 06/05/2009 Part 2 of 3 LAMICTAL ODT Iamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength Strength Strength	Inactive Ingre	dients					
MANNITOL (UNII: 30WL53L36A) U I <td< td=""><td></td><td></td><td>•</td><td></td><td></td><td>S</td><td>trength</td></td<>			•			S	trength
SUCRALOSE (UNII: 96K6UQ3ZD4) ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLB0F1MV) Product Characteristics Color WHITE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains Marketing Category Application Number or Monograph Citation Off-White Date NDA NDA022251 06/05/2009 Part 2 of 3 LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength Strength			%) (UNII: 68401960MK)				
ETHYLCELLULOSE (100 MPA.S) (UNII: 47MLBOF1MV) Product Charsteristics Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Imprint Code UT;25 Contains CHERRY CHERRY CHERRY CHERRY CHERRY CHERRY CHERRY Citation Number or Monograph Marketing Start Date Marketing Start Date NDA NDA022251 06/05/2009 Part 2 of 3 LAMICTAL ODT Iamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient Name Basis of Strength							
Product Characteristics o score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains Imprint Code LMT;25 Marketing Application Number or Monograph Category Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Marketing End Date Part 2 of 3 LAMICTAL ODT Iamotrigine tablet, orally disintegrating Product Information Route of Administration Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength							
Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains Application Number or Monograph Category Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Marketing Start Marketing End Date Part 2 of 3 LAMICTAL ODT Start Start Start Start Start Start	EINILCELLULUSE	: (100 MPA.S) (
Color WHTE (white to off-white) Score no score Shape ROUND (flat-faced, radius edge) Size 7mm Flavor CHERRY Imprint Code LMT;25 Contains Application Number or Monograph Category Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Marketing Start Marketing End Date Part 2 of 3 LAMICTAL ODT Start Start Start Start Start Start							
Shape ROUND (flat-faced, radius edge) Size Tmm Flavor CHERRY Imprint Code LMT;25 Contains Imprint Code LMT;25 Marketing Information Application Number or Monograph Category Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Imprint Code Imprint Code Part 2 of 3 LAMICTAL ODT Imprint Code Imprint Code Imprint Code Product Information ORAL Imprint Code Imprint Code Imprint Code Active Ingredient/Active Moiety Impredient Name Basis of Strength Strength	Product Chara	acteristics					
Flavor Contains Imprint Code LMT;25 Marketing Category Category NDA Application Number or Monograph Citation Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Imprint Code Imprint Code Part 2 of 3 Imprint Code Imprint Code Imprint Code Imprint Code Product Information Route of Administration ORAL Imprint Code Imprint Code Imprint Code Active Ingredient/Active Molety Ingredient Name Basis of Strength Strength	Color	WHITE (white to	off-white)	Sco	ore	n	o score
Contains Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Marketing End Date	Shape	ROUND (flat-fac	ed, radius edge)	Siz	е	7	mm
Marketing Information Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 06/05/2009 0 Part 2 of 3 LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL	Flavor	CHERRY		Im	orint Code	LI	MT;25
Marketing Category Category NDA Application Number or Monograph Citation Marketing Start Date Marketing End Date NDA NDA022251 06/05/2009 Part 2 of 3 Image: Category Cat	Contains						
CategoryCitationDateDateNDANDA02225106/05/200906/05/2009Part 2 of 3LAMICTAL ODT lamotrigine tablet, orally disintegratingProduct Information Route of AdministrationORALActive Ingredient/Active Moiety Ingredient NameBasis of StrengthStrength	•			Mar	keting Start	Mark	eting End
Part 2 of 3 LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength					Date		-
LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength	NDA	NDA022251		06/05/	2009		
LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength							
LAMICTAL ODT lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength	Part 2 of 3						
lamotrigine tablet, orally disintegrating Product Information Route of Administration ORAL Active Ingredient/Active Woiety Ingredient Name Basis of Strength		ADT					
Product Information Route of Administration ORAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength							
Route of Administration ORAL Active Ingredient/Active Woiety Ingredient Name Basis of Strength Strength	lamotrigine table	et, orally disint	tegrating				
Route of Administration ORAL Active Ingredient/Active Woiety Ingredient Name Basis of Strength Strength							
Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength							
Ingredient Name Basis of Strength Strength	Product Infor	mation					
Ingredient Name Basis of Strength Strength			ORAL				
			ORAL				
	Route of Admin	istration					
	Route of Admin	istration ient/Active	Moiety		Basis of Str	ength	Strength
	Route of Admin Active Ingred	istration ient/Active l Ingree	Moiety dient Name			ength	-

		Ingredient Name			S	trength
		T 5%) (UNII: 68401960MK)				
	JNII: 30WL53L36A)					
	(UNII: 96K6UQ3ZD					
THYLCELLU	LOSE (100 MPA.	S) (UNII: 47MLB0F1MV)				
Product C	haracteristic	S				
Color	WHITE (white	e to off-white)	Score)	n	o score
Shape	ROUND (flat	-faced, radius edge)	Size		9	mm
Flavor	CHERRY		Imprii	nt Code	Lſ	MT;50
Contains						
Markoti	ng Informa	ation				
Marketi	-	cation Number or Monograph	Meyles	ting Start	Meri	eting End
Catego		Citation		ting Start Date		Date
NDA	NDA0222	51	06/05/200	9		
Part 3 o	f3					
LAMICT						
_		sintegrating				
_	AL ODT	sintegrating				
-	AL ODT	sintegrating				
lamotrigine	AL ODT tablet, orally dis	sintegrating				
lamotrigine Product II	AL ODT tablet, orally dis					
lamotrigine Product II	AL ODT tablet, orally dis	oral				
lamotrigine Product II	AL ODT tablet, orally dis					
lamotrigine Product II Route of Ad	AL ODT tablet, orally dis nformation Iministration	ORAL				
lamotrigine Product II Route of Ad	AL ODT tablet, orally dis nformation aministration	ORAL Ve Moiety				Chance
lamotrigine Product II Route of Ad Active Ing	AL ODT tablet, orally dis nformation Iministration redient/Activ	ORAL re Moiety redient Name		Basis of Str	rength	Strengt
Product In Route of Ad Active Ing	AL ODT tablet, orally dis nformation Iministration redient/Activ	ORAL Ve Moiety		Basis of Str MOTRIGINE	rength	Strengt 100 mg
lamotrigine Product II Route of Ad Active Ing	AL ODT tablet, orally dis nformation Iministration redient/Activ	ORAL re Moiety redient Name			rength	-
Product In Route of Ad Active Ing LAMOTRIGINE	AL ODT tablet, orally dis nformation aministration redient/Activ Ing E (UNII: U3H27498	ORAL re Moiety redient Name			rength	-
lamotrigine Product II Route of Ad Active Ing	AL ODT tablet, orally dis nformation Iministration redient/Activ	ORAL re Moiety redient Name KS) (LAMOTRIGINE - UNII:U3H27498Ks				100 mg
Product II Route of Ad Active Ing LAMOTRIGINE	AL ODT tablet, orally dis nformation aministration redient/Activ Ing E (UNII: U3H27498	ORAL Te Moiety Tredient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name				-
Product In Route of Ad Active Ing LAMOTRIGINI	AL ODT tablet, orally dis nformation aministration redient/Activ Ing E (UNII: U3H27498 ngredients	ORAL re Moiety redient Name KS) (LAMOTRIGINE - UNII:U3H27498Ks				100 mg
Product II Route of Ad Active Ing LAMOTRIGINE Inactive Ir CROSPOVIDO MANNITOL (U	AL ODT tablet, orally dis nformation aministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A)	ORAL Ve Moiety Iredient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK)				100 mg
lamotrigine Product II Route of Ad Active Ing LAMOTRIGINE Inactive II CROSPOVIDO MANNITOL (U SUCRALOSE (AL ODT tablet, orally dis nformation iministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A) (UNII: 96K6UQ3Z D	ORAL Ve Moiety Iredient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK) 4)				100 mg
lamotrigine Product II Route of Ad Active Ing LAMOTRIGINE Inactive II CROSPOVIDO MANNITOL (U SUCRALOSE (AL ODT tablet, orally dis nformation iministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A) (UNII: 96K6UQ3Z D	ORAL Ve Moiety Iredient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK)				100 mg
Product II Route of Ad Active Ing AMOTRIGINE AMOTRIGINE Inactive II CROSPOVIDO MANNITOL (U SUCRALOSE (AL ODT tablet, orally dis nformation iministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A) (UNII: 96K6UQ3Z D	ORAL Ve Moiety Iredient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK) 4)				100 mg
Product In Route of Ad Active Ing LAMOTRIGINE Inactive In CROSPOVIDO MANNITOL (U SUCRALOSE (ETHYLCELLU	AL ODT tablet, orally dis nformation iministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A) (UNII: 96K6UQ3Z D	ORAL Ve Moiety redient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK) 4) S) (UNII: 47MLB0F1MV)				100 mg
lamotrigine Product II Route of Ad Active Ing LAMOTRIGINE Inactive Ir CROSPOVIDO MANNITOL (U SUCRALOSE (ETHYLCELLU	AL ODT tablet, orally dis nformation aministration redient/Activ ing E (UNII: U3H27498 ngredients DNE (15 MPA.S A UNII: 30WL53L36A) (UNII: 96K6UQ3Z D LOSE (100 MPA.	ORAL Pe Moiety redient Name KS) (LAMOTRIGINE - UNII:U3H27498KS Ingredient Name T 5%) (UNII: 68401960MK) 4) S) (UNII: 47MLB0F1MV) S				100 mg

-					
Flavor	CHERRY			Imprint Code	LAMICTAL;100
Contains					
		-			
Marketing	Informat	ion			
Marketing	Applica	tion Number or Mo	nograph	Marketing Start	Marketing End
Category		Citation		Date	Date
NDA	NDA022251			06/05/2009	
Marketing	Informat	ion			
Marketing	Applica	tion Number or Mo	nograph	Marketing Start	Marketing End
Category		Citation	• •	Date	Date
NDA	NDA022251			06/05/2009	
LAMICTAL					
lamotrigine kit					
	-				
Product Info	rmation				
Product Type	HUMAN PR	ESCRIPTION DRUG	ltem	Code (Source)	NDC:0173-0817
Packaging					
				Marketing Start	Marketing End
# Item Code	Pa	ckage Description	n	Date	Date
1 NDC:0173-0817	1 in 1 PACKAG	E, COMBINATION		09/29/2003	
1 28				09/29/2005	
1	1 in 1 BLISTER Product	PACK; Type 0: Not a C	ombination		
	FIGUUCE				
	Dante				
Quantity of I					
Part #	Package (Quantity		Total Product Qu	antity
Part 1			14		
Part 2			84		
Part 1 of 2					
LAMICTAL					
	let				
LAMICTAL	let				
LAMICTAL	let				
LAMICTAL lamotrigine tab					
LAMICTAL					
LAMICTAL lamotrigine tab	rmation	ORAL			

Active Ingredie	nt/Active	Moiety					
	Ingre	dient Name			Basis of	Strength	Strength
LAMOTRIGINE (UNII:	U3H27498KS) (LAMOTRIGINE - UNII:U3	H27498KS)		LAMOTRIGIN	E	100 mg
Inactive Ingredi	ients						
		Ingredient Nam	ne				Strength
LACTOSE, UNSPECIE	IED FORM	•					
MAGNESIUM STEARA	ATE (UNII: 70	097M6I30)					
MICROCRYSTALLINE	CELLULOS	E (UNII: OP1R32D61U)					
POVIDONE, UNSPEC	IFIED (UNII:	FZ989GH94E)					
FD&C YELLOW NO.	6 (UNII: H77\	/EI93A8)					
SODIUM STARCH GL	YCOLATE T	YPE A POTATO (UNII: 58	356J3G2A2)				
Product Charac	toristics						
Color	ORANGE (pe	pach)	Score			2 pieces	
Shape	HEXAGON (6		Size			2 pieces 11mm	
Flavor			Imprint C	aho'		LAMICTAL;10	0
Contains				Joue		L	•
contains							
Marketing In	format	ion					
-							
Marketing Category	Аррпса	tion Number or Mon Citation	ograpn	Mar	keting Sta Date	rt Mark	eting End Date
NDA	NDA020241			01/17/1	1995		
Part 2 of 2							
LAMICTAL							
LAMICTAL lamotrigine tablet							
lamotrigine tablet	ation						
lamotrigine tablet Product Inform							
lamotrigine tablet		ORAL					
lamotrigine tablet Product Inform		ORAL					
lamotrigine tablet Product Inform Route of Administ	tration						
lamotrigine tablet Product Inform	tration	Moiety			Racio of	Strongth	Strongth
lamotrigine tablet Product Inform Route of Administ Active Ingredie	tration nt/Active Ingre	Moiety dient Name				Strength	Strength
lamotrigine tablet Product Inform Route of Administ Active Ingredie	tration nt/Active Ingre	Moiety	:H27498KS)		Basis of LAMOTRIGIN	-	Strength 25 mg
lamotrigine tablet Product Inform Route of Administ Active Ingredie	tration nt/Active Ingre	Moiety dient Name	:H27498KS)			-	-
lamotrigine tablet Product Inform Route of Administ Active Ingredie	nt/Active Ingre U3H27498KS	Moiety dient Name	9H27498KS)			-	-

	CIELED FORM /UNIL IODOAANOOC	-1		
LACTOSE, UNSPEC		(כ		
MAGNESIUM STEA	RATE (UNII: 70097M6I30)			
MICROCRYSTALLI	NE CELLULOSE (UNII: OP1R32D	61U)		
POVIDONE, UNSPE	ECIFIED (UNII: FZ989GH94E)			
SODIUM STARCH O	GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)		
Product Chara	acteristics			
Color	WHITE	Score		2 pieces
Shape	HEXAGON (6 sided)	Size		6mm
Flavor		Imprint	Code	LAMICTAL;25
Contains				
Contains				
Contains				
	Information			
	Information Application Number o Citation		Marketing Start Date	: Marketing End Date
Marketing	Application Number o		•	
Marketing Marketing Category	Application Number of Citation		Date	
Marketing Marketing Category	Application Number of Citation		Date	.
Marketing Marketing Category NDA	Application Number of Citation		Date	•
Marketing Marketing Category NDA	Application Number o Citation NDA020241	or Monograph	Date	Date
Marketing Marketing Category NDA Marketing	Application Number of Citation NDA020241 Information Application Number of	or Monograph	Date 08/15/1996 Marketing Start	Date Marketing End

Labeler - GlaxoSmithKline LLC (167380711)

Revised: 4/2025

GlaxoSmithKline LLC