

NO TEXT AREA

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

LAMOTRIGINE 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: • concomitant use with valproate. • exceeding recommended initial dose of lamotrigine. • exceeding recommended dose escalation for lamotrigine, also caused by lamotrigine; however, it is not possible to predict which rashes will prove to be serious or life-threatening. Lamotrigine should be discontinued at the first sign of rash, unless the rash is clearly not drug related. (5.1)

RECENT MAJOR CHANGES Warnings and Precautions, Cardiac Rhythm and Conduction Abnormalities (5.4) 3/2021

INDICATIONS AND USAGE Lamotrigine is indicated for: Epilepsy—adjunctive therapy in patients aged 2 years and older:

- partial-onset seizures
primary generalized tonic-clonic seizures
generalized serous of Lennox-Gastaut syndrome. (1.1)
Epilepsy—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)
Bipolar disorder: Maintenance treatment of bipolar I disorder to delay the time to occurrence of mood episodes in patients treated with acute mood episodes with standard therapy. (1.2)
Limitations of Use: Treatment of acute manic or mixed episodes is not recommended. Effectiveness of lamotrigine in the acute treatment of mood episodes has not been established.

ADVERSE REACTIONS

- Common adverse reactions (incidence ≥10%): dizziness, headache, diplopia, ataxia, nausea, blurred vision, somnolence, rhinitis, pharyngitis, 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)
Limitations of Use: Treatment of acute manic or mixed episodes is not recommended. Effectiveness of lamotrigine in the acute treatment of mood episodes has not been established.

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/ritonavir decrease lamotrigine exposure by approximately 50% and 32%, respectively. (7, 12.3)
Concomitant with organic cationic transporter 2 substrates with narrow therapeutic index is not recommended. (7, 12.3)

USE IN SPECIFIC POPULATIONS

- Pregnancy: Based on animal data may cause fetal harm. (8)
Hepatic Impairment: Dosage adjustments required in patients with moderate and severe liver impairment. (8.1, 8.6)
Renal Impairment: Reduced maintenance doses may be effective for patients with significant renal impairment. (8.1, 8.7)

ADVERSE REACTIONS AND STRENGTHS

- Tablets: 25 mg, 100 mg, 150 mg, and 200 mg; scored. (3.1, 16)

CONTRAINDICATIONS Hypersensitivity to the drug or its ingredients. (Boxed Warning, 4)

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)
Hemagglutination, lymphohistiocytosis: Consider this development and evaluate patients immediately if they develop signs or symptoms of systemic inflammation. Discontinue lamotrigine if an alternative etiology is not established. (5.2)
Fetal or life-threatening hypersensitivity reaction: Multisystem 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. Lamotrigine should be discontinued if alternate etiology for this reaction is not found. (5.3)
Cardiac rhythm and conduction abnormalities: Based on in vitro findings, lamotrigine could cause serious arrhythmias and/or death in patients with certain underlying cardiac conditions or arrhythmias. Any expected or observed benefit of lamotrigine in an individual patient with clinically important structural or functional heart disease must be carefully weighed against the risk for serious arrhythmias 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, unexplained 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)

FULL PRESCRIBING INFORMATION

WARNING: SERIOUS SKIN RASHES Lamotrigine 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 lamotrigine. One rash-related death was reported in a prospectively followed cohort of 1,863 pediatric patients (aged 2 to 16 years) with epilepsy taking lamotrigine 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 low 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 lamotrigine. There are suggestions, yet to be proven, that the risk of rash may also be increased by (1) concomitant administration of lamotrigine with valproate (includes valproic acid and divalproex sodium), (2) exceeding the recommended initial dose of lamotrigine, or (3) exceeding the recommended dose escalation for lamotrigine. However, cases have occurred in the absence of these factors. Nearly all cases of life-threatening rashes caused by lamotrigine have occurred within 2 to 8 weeks of treatment initiation. However, isolated cases have occurred after prolonged treatment. Accordingly, duration of therapy cannot be relied upon as means to predict the potential risk for rash beyond the first appearance of a rash. Although benign rashes are also caused by lamotrigine, it is not possible to predict reliably which rashes will prove to be serious or life-threatening. Accordingly, lamotrigine should ordinarily be discontinued at the first sign of rash, unless the rash is clearly not drug related. Discontinuation of lamotrigine may not prevent a rash from becoming life-threatening or permanently disabling or disturbing. (See Warnings and Precautions (5.1).)

INDICATIONS AND USAGE

1.1 Epilepsy
Adjunctive Therapy: Lamotrigine 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.
Lamotrigine 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 lamotrigine 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
Lamotrigine 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 with lamotrigine in combination with a mood stabilizer (see Clinical Studies (14.2)).
Lamotrigine for treatment of acute manic or mixed episodes is not recommended. Effectiveness of lamotrigine in the acute treatment of mood episodes has not been established.

2. DOSAGE AND ADMINISTRATION

2.1 General Dosing Considerations
Dosing: There are suggestions, yet to be proven, that the risk of severe, potentially life-threatening rash may be increased by (1) concomitant administration of lamotrigine with valproate, (2) exceeding the recommended initial dose of lamotrigine, or (3) exceeding the recommended dose escalation for lamotrigine. However, cases have occurred in the absence of these factors. Therefore, it is important that the dosing recommendations be followed closely.
The risk of serious rash may be increased when the recommended initial dose and/or the rate of dose escalation for lamotrigine is exceeded and in patients with a history of allergy or rash to other AEDs.

2.2 Dosage and Administration
General Dosing Considerations
Dosing: There are suggestions, yet to be proven, that the risk of severe, potentially life-threatening rash may be increased by (1) concomitant administration of lamotrigine with valproate, (2) exceeding the recommended initial dose of lamotrigine, or (3) exceeding the recommended dose escalation for lamotrigine. However, cases have occurred in the absence of these factors. Therefore, it is important that the dosing recommendations be followed closely.
The risk of serious rash may be increased when the recommended initial dose and/or the rate of dose escalation for lamotrigine is exceeded and in patients with a history of allergy or rash to other AEDs.

Table 2. Escalation Regimen for Lamotrigine in Patients Aged 2 to 12 Years with Epilepsy

Table with 3 columns: Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone, or Valproate; Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone; Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone and NOT TAKING Valproate. Rows show dosing for Weeks 1 and 2, Weeks 3 and 4, and Usual maintenance dose.

Note: Only whole tablets should be used for dosing.

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

Table with 3 columns: Greater than 45 kg, 45 kg to 27 kg, 27 kg to 14 kg, 14 kg to 6.7 kg. Rows show dosing for Weeks 1 and 2, Weeks 3 and 4.

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

Table with 2 columns: Lamotrigine, Valproate. Rows show Step 1 (Achieve a dose of 200 mg/day), Step 2 (Maintain at 200 mg/day), Step 3 (Increase to 300 mg/day), Step 4 (Increase to 100 mg/day).

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

Table with 3 columns: In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone and NOT TAKING Valproate; In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone and TAKING Valproate; In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone and TAKING Valproate and also TAKING Rifampin.

5.2 Hemagglutination/Lymphohistiocytosis Hemagglutination/lymphohistiocytosis (HLH) has occurred in pediatric and adult patients taking lamotrigine for various indications. HLH is a life-threatening syndrome characterized by... (5.2)

5.3 Multisystem Hypersensitivity Reactions and Organ Failure Multisystem hypersensitivity reactions, also known as drug reaction with eosinophilia and systemic symptoms (DRESS), have occurred with lamotrigine. Some have been fatal or life threatening... (5.3)

5.4 Cardiac Rhythm and Conduction Abnormalities In vitro studies show that lamotrigine inhibits cardiac sodium channels... (5.4)

5.5 Blood Dyscrasias There have been reports of blood dyscrasias that may or may not be associated with lamotrigine... (5.5)

5.6 Suicidal Behavior and Ideation In vitro studies show that lamotrigine inhibits cardiac sodium channels... (5.6)

5.7 Aseptic Meningitis There have been reports of aseptic meningitis associated with lamotrigine... (5.7)

5.8 Concomitant Use with Other Medications Concomitant use of lamotrigine with valproate increases the risk of rash... (5.8)

5.9 Potential Medication Errors Medication errors may occur when the name lamotrigine can be confused with the names of other commonly used medications... (5.9)

5.10 Withdrawal Symptoms Abrupt discontinuation of lamotrigine may result in withdrawal symptoms... (5.10)

5.11 Status Epilepticus Valid estimates of the incidence of treatment-emergent status epilepticus among patients treated with lamotrigine are difficult to obtain... (5.11)

5.12 Sudden Unexpected Death in Epilepsy (SUDEP) During the premarketing development of lamotrigine, 20 sudden and unexplained deaths were recorded among a cohort of 4,700 patients with epilepsy... (5.12)

5.13 Binding to the Eye and Other Melanin-Containing Tissues Lamotrigine binds to melanin-rich tissues... (5.13)

5.14 Concomitant Use with Other Medications Concomitant use of lamotrigine with valproate increases the risk of rash... (5.14)

5.15 Laboratory Tests False-positive results may occur when the assay used in some rapid urine drug screens, which can result in false-positive readings... (5.15)

5.16 Clinical Trials 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... (5.16)

5.17 Adverse Reactions in Pediatric Patients with Epilepsy Table 11 lists adverse reactions that occurred in adult patients with epilepsy treated with lamotrigine... (5.17)

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conformation anomaly, vomiting, rash, somnolence, diplopia, ataxia, accidental injury, tremor, blurred vision, insomnia, dysarthria, dermatitis, lymphadenopathy, pruritus, and sinusitis. Approximately 10% of the 420 adult patients who received lamotrigine 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%).

5.17 Adverse Reactions in Pediatric Patients with Epilepsy Table 11 lists adverse reactions that occurred in adult patients with epilepsy treated with lamotrigine in combination with the use of lamotrigine as adjunctive treatment in pediatric patients aged 2 to 16 years and in an equivalent rate in the control group were infection, vomiting, rash, fever, somnolence, accidental injury, dizziness, diarrhea, abdominal pain, ataxia, asthenia, tremor, asthenia, bronchitis, blurred vision, and diplopia.

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5.45 Adverse Reactions in Pediatric Patients

