

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to u LACOSAMIDE INJECTION safely and effectively. See full prescri information for LACOSAMIDE INJECTION. tion needed to use

LACOSAMIDE injection, for intravenous use, CV Initial U.S. Approval: 2008

----RECENT MAJOR CHANGES Dosage and Administration (2.1 4/2023 Dosage and Administration (2.2) 10/2023

- Lacosamide injection is indicated for: Treatment of partial-onset seizures in patients 4 years of age and older
- (1.1)
 Adjunctive therapy in the treatment of primary generalized tonic-clonic seizures in patients 4 years of age and older (1.2)

- ----DOSAGE AND ADMINISTRATION--Adults (17 years and older):
 Adults (17 years and older):
 Initial dosage for monotherapy for the treatment of partial-onset seizures is 100 mg twice daily (2.1)
 Initial dosage for adjunctive therapy for the treatment of partial-onset seizures or primary generalized tonic-clonic seizures is 50 mg twice daily (2.1)
 Maximum recommended dosage for monotherapy and adjunctive

- therapy is 200 mg twice daily (2.1)
- Pediatric Patients 4 years to less than 17 years. The recommended dosage is based on body weight and is administered orally twice daily
- (2.1) Increase dosage based on clinical response and tolerability, no more frequently than once per week (2.1) Injection: for intravenous use only when oral administration is temporarily not feasible; the recommended dosage is based on body weight and is administered two or three times daily over 15 to 60 minutes; obtaining ECG before initiation is recommended in certain patient (2.7.5.2)
- patients (2.7, 5.3) Dose adjustment is recommended for severe renal impairment (2.4,
- Dose adjustment is recommended for mild or moderate hepatic

2.2 Alternate Initial Dosage Information to Achieve the Maintenance Dosage in a Shorter Timeframe

Dosage in a Shorter Timeframe 2.3 Converting From a Single Antiepileptic (AED) to Lacosamide Monotherapy for the Treatment of Partial-Onset Seizures 2.4 Dosage Information for Patients with Renal Impairment 2.5 Dosage Information for Patients with Hepatic Impairment 2.7 Preparation and Administration Information for Lacosamide Ir 2.8 Discontinuation of Lacosamide

5.4 Syncope 5.5 Withdrawal of Antiepileptic Drugs (AEDs) 5.6 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypersensitivity

nitant Medications that Affect Cardiac Conduction

nide injection is indicated for the treatment of partial-onset seizures in patients 4 years of age and old

Initial Dosage

100 mg twice dai (200 mg per day)

Adjunctive Therapy

50 mg twice daily 100 mg per day)

50 mg twice daily

(100 mg per day)

1 mg/kg twice daily

The clinical study experience of intravenous Lacosamide is limited to 5 days of consecutive treatment.

ized tonic-clonic seizures. Oral and intrav

Pediatric patients weighing 30 kg to (2 mg/kg/day)

weighing 11 kg to (2 mg/kg/day) less than 30 kg

Pediatric use information is approved for UCB, Inc.'s VIMPAT® (lacosamide) injection. However, due to UCB, Inc.'s marketing exclusivity rights, this drug

nded dosage for monotherapy and adjunctive therapy for partial-onset seizures in patients 4 years of age and older and for adjunctive therapy

Titration Regimen

Increase by 50 mg

twice daily (100 mg

per day) every week

Increase by 50 mg twice

daily (100 mg per day

ncrease by 1 mg/kg

Increase by 1 mg/kg twice daily (2

mg/kg/day) every week

*when not specified, the dosage is the same for monotherapy for partial-onset seizures and adjunctive therapy for partial-onset

In adjunctive clinical trials in adult patients with partial-onset seizures, a dosage higher than 200 mg twice daily (400 mg per day) was not more effective and was associated with a substantially higher rate of adverse reactions (see Adverse Reactions (6.1) and Clinical Studies (14.2)].

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amide Injection Dosage amide injection may be used when oral administration is temporarily not feasible *[see Dosage and Administration (2.6) and Warnings and Precautions* Lacosamide injection can be administered intravenously to adult and pediatric patients weighing 11 kg or more with the same dosing regimens bed for oral dosing. For pediatric patients weighing less than 6 kg, Lacosamide injection may be initiated with a dose of 0.66 mg/kg three times daily extend to a superstant of the same dosing regimens bed for oral dosing. For pediatric patients weighing 11 kg or more with the same dosing regimens bed for oral dosing. For pediatric patients weighing less than 6 kg, Lacosamide injection may be initiated with a dose of 0.66 mg/kg three times daily extended to a superstant of the same dosing regimens and the same

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verv week

1.2 Primary Generalized Tonic-Clonic Seizures Lacosamide is indicated as adjunctive therapy in the treatment of primary generalized tonic-clonic seizures in patients 4 years of age and older.

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FULL PRESCRIBING INFORMATION

product is not labeled with that inform

2 DOSAGE AND ADMINISTRATION

rimary Ge

Age and Body

Weight

Adults (17 years

Pediatric patier

weighing at least 50 kg

Pediatric patients

less than 50 kg

Pediatric patients

seizures or primary generalized tonic-clonic se **Monotherapy for partial-onset seizures only

(5.3)]. Lacos

(see Table 1)

2.1 Dosage Informatio

1 INDICATIONS AND USAGE

7.1 Strong CYP3A4 or CYP2C9 Inhibiti 7.2 Concomitant Medications that Affe

nide may cause dizziness and ataxia (5.2) Lacusannuce may cause oriziness and ataxia (5.2) Cardiac Rhythm and Conduction Abnormalities: Obtaining ECG before beginning and after titration to steady-state maintenance is recommended in patients with underlying proarrhythmic conditions or o concomitant medications that affect cardiac conduction; closely monitor these patients (5.3, 7.2) Lacosamide may cause syncope (5.4) -INDICATIONS AND USAGE

None (4)

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 14.3 Adjunctive Therapy in Patients with Primary Generaliz

* Sections or subsections omitted from the full prescribing information are

Maintenance Dosage

150 mg to 200 mg twice daily

100 mg to 200 mg twice dail

150 mg to 200 mg twice daily

(300 mg to 400 mg per day

(200 mg to 400 mg per day)

2 mg/kg to 4 mg/kg twice daily (4 mg/kg/day to 8 mg/kg/day)

3 mg/kg to 6 mg/kg twice daily

(6 mg/kg/day to 12 mg/kg/day)

Adjunctive Therapy: 100 mg to 200 mg twice daily

(200 mg to 400 mg per day)

(300 mg to 400 mg per day)

Adjunctive Therapy:

Monotherapy

renous dosages are the same unless specified

Monotherapy**:

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recommended (2.5, 12.3)

these patients (5.3, 7.2) Lacosamide may cause syncope (5.4) Lacosamide should be gradually withdrawn to minimize the potential of increased seizure frequency (5.5) Drug Reaction with Essinophilia and Systemic Symptoms (DRESS)/ Multi-Organ Hypersensitivity: Discontinue if no alternate etiology (5.6)

Adjunctive therapy: Most common adverse reactions in adults (≥10% and greater than placebo) are diplopia, headache, dizziness, nausea, a somnolence (6.1)

pairment: use in patients with severe hepatic impairment is not

-- DOSAGE FORMS AND STRENGTHS-

-- CONTRAINDICATIONS-

--WARNINGS AND PRECAUTIONS-

200 mg/20 mL single-dose vial for intravenous use (3)

Monitor patients for suicidal behavior and ideation (5.1)

- Monotherapy: Most common adverse reactions are similar to those seen in adjunctive therapy studies (6.1)
- Pediatric patients: Adverse reactions are similar to those seen in adult patients (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Somerset Therapeutics, LLC at 1- 800-417-9175 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

- Pregnancy: Based on animal data, may cause fetal harm (8.1)
- See 17 for PATIENT COUNSELING INFORMATION and Medication Guide. Revised: 08/2024

2.2 Alternate Initial Dosage Information to Achieve the Maintenance Dosage in a Shorter Timeframe For monotherapy and adjunctive therapy for partial-onset seizures in patients 17 years of age and older and for adjunctive therapy for primary generalized tonic-clonic seizures in patients 17 years of age and older, an alternate initial dosing regimen for week 1 (e.g., including a loading dose and/or a higher initial dosage) may be administered in patients for whom achieving the recommended maintenance dosage in a shorter timeframe is clinically indicated (see Table 2). The alternate initial dosage regimen should be continued for one week. Lacosamide injection may then be titrated based on clinical response and tolerability, no more frequently than once per week, if needed. The loading dose should be administered with medical supervision because of the possibility of increased incidence of adverse reactions, including central nervous system (CNS) and cardiovascular adverse reactions (see Warnings and Precautions (5.2, 5.3), Adverse Reactions (6.1), and Clinical Pharmacology (12.3)]. Titration increments should not exceed those shown in Table 2.

Table 2: Alternate Initial Dosing Regimen to Achieve the Maintenance Dosage in a Shorter Timeframe if Clinically Indicated Arres and Dardy

	and Body Neight	Initial Dosage	Titration Regimen	Maintenance Dosage	
Adults and old	(17 years er)	Single loading dose: 200 mg <u>12 hours later initiate:</u> 100 mg twice daily (200 mg per day)	Increase by 50 mg twice daily (100 mg per day) at weekly intervals, if needed	Monotherapy**: 150 mg to 200 mg twice daily (300 mg to 400 mg per day) Adjunctive Therapy: 100 mg to 200 mg twice daily (200 mg to 400 mg per day)	

*when not specified, the dosage is the same for monotherapy for partial-onset seizures and adjunctive therapy for partial-onset seizures or primary ge ires. Oral and intr nous dosages are the same unless spec *Monotherapy for partial-onset seizures only

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2.3 Converting From a Single Antiepileptic (AED) to Lacosamide Monotherapy for the Treatment of Partial-Onset Seizures For patients who are already on a single AED and will convert to lacosamide monotherapy, withdrawal of the concomitant AED should not occur until the therapeutic dosage of lacosamide is achieved and has been administered for at least 3 days. A gradual withdrawal of the concomitant AED over at least 6 weeks is recomm

2.4 Dosage Information for Patients with Renal Impairment For patients with mild to moderate renal impairment, no dosage adjustment is necessary. For patients with severe renal impairment [creatinine clearance (CL_{cp}) less than 30 mL/min/1.73m² as estimated by the Schwartz equation for pediatric patients] or end-stage renal disease, a reduction of 25% of the man decage is recommended. ation for adults; CL_{CR}

In all patients with renal impairment, dose initiation and titration should be based on clinical response and tolerability

Lacosamido is effectively removed from plasma by hemodialysis. Following a 4-hour hemodialysis treatment, dosage supplementation of up to 50% should

Concomitant Strong CYP3A4 or CYP2C9 Inhibitors Dece reduction may be necessary in patients with renal impairment who are taking strong inhibitors of CYP3A4 and CYP2C9 (see Drug Interactions (7.1), Dose reduction may be necessary in patients with rer Use in Specific Populations (8.6), and Clinical Pharma cology (12.3)]. 2.5 Dosage Information for Patients with Hepatic Impairment

For patients with mild or moderate hepatic impairment, a reduction of 25% of the maximum dosage is recommended. The dose initiation and titration should be based on clinical response and tolerability in patients with hepatic impairment.

nmended in patients with severe hepatic impa

Concomitant Strong CYP3A4 and CYP2C9 Inhibitors Dose reduction may be necessary in patients with hepatic impairmer Use in Specific Populations (8.7), and Clinical Pharmacology (12.3)]. rment who are taking strong inhibitors of CYP3A4 and CYP2C9 [see Drug Interactions (7.1)

2.7 Preparation and Administration Information for Lacosamide Injection

Lacosamide injection can be administered intravenously without further dilution or may be mixed with diluents listed below. The diluted solution should not be stored for more than 4 hours at room temperature.

Diluents: Sodium Chloride Injection 0.9% (w/v) Dextrose Injection 5% (w/v) Lactated Ringer's Injection

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Product with particulate matter or discoloration should not be used.

Lacosamide injection is for single-dose only. Any unused portion of lacosamide injection should be discarded

Administration The recommended infusion duration is 30 to 60 minutes; however, infusions as rapid as 15 minutes can be administered in adults if required [see Adverse adverse] and a set of the set o Adverse Reactions (6 1)]

Intravenous infusion of lacosamide may cause bradycardia, AV blocks, and ventricular tachyarrhythmia [see Warnings and Precautions (5.3]). Obtaining an ECG before beginning lacosamide and after lacosamide is titrated to steady-state maintenance dose is recommended in patients with underlying proarrhythmic conditions or on concomitant medications that affect cardiac conduction [see Drug Interactions (7.2]].

Storage and Stability
The diluted solution should not be stored for more than 4 hours at room temperature. Any unused portion of lacosamide injection should be discarded.

2.8 Discontinuation of Lacosamide When discontinuing lacosamide, a gradual withdrawal over at least 1 week is recommended [see Warnings and Precautions (5.5)]

3 DOSAGE FORMS AND STRENGTHS

Lacosamide Injection
 200 mg/20 mL: clear, colorless sterile solution in single-dose vials

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS 5.1 Suicidal Behavior and Ideatio

relepilepitic drugs (AEDs), including lacosamide, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patie reated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or a

for primary generalized tonic-clonic seizures in patients 4 years of age and older is included in Table 1. In patients 4 years of age that the adjunctive treaty for primary generalized tonic-clonic seizures in patients 4 years of age and older is included in Table 1. In pediatric patients 4 years to less than 17 years of age, the recommended dosing regimen is dependent upon body weight. Dosage should be increased based on clinical response and tolerability, no more frequently than once per week. Titration increments should not exceed those shown in Table 1. Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the Probled analyses of 199 placebo-controlled cancel traits (mono- and adjunctive interapt) of 11 interent ALDs showed mat placebo-controlled cancel traits and once of the ALDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% Cit.1.2, 2.7) of suicidal thinking or behavior compared to platients 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 to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of approximately the relation of every 530 patients treated. There were four 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. sages for Partial-Onset Seizures (Monotherapy or Adjunctive Therapy) in Patients 4 years of age and Older, and fo y Generalized Tonic-Clonic Seizures (Adjunctive Therapy) in Patients 4 Years of Age and Older*

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

Table 3 shows absolute and relative risk by indication for all evaluated AEDs.

Table 3: Risk by Indication for Antiepileptic Drugs in the Pooled Analysis

Indication	Placebo Patients with Events Per 1000 Patients	Drug Patients with Events Per 1000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events Per 1000 Patients	
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	

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

Anyone considering prescribing lacosamide or any other AED must balance this risk with the risk of untreated illness. Epilepsy and many other illnesses for which anticplieptics 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.

5.2 Dizziness and Ataxia

5.2 Dizziness and Ataxia Lacosamide may cause dizziness and ataxia in adult and pediatric patients. In adult patients with partial-onset seizures taking 1 to 3 concomitant AEDs, dizziness was experienced by 25% of patients randomized to the recommended doses (200 to 400 mg/day) of lacosamide (compared with 8% of placebo patients) and was the adverse reaction most frequently leading to discontinuation (3%). Ataxia was experienced by 6% of patients randomized to the recommended doses (200 to 400 mg/day) of lacosamide (compared to 2% of placebo patients). The onset of dizziness and ataxia was most commonly observed during titration. There was a substantial increase in these adverse reactions at doses higher than 400 mg/day *[see Adverse Reactions (6.1)]*. It is pading dose is clinically indicated, administer with medical supervision because of the possibility of increased incidence of adverse reactions, includin CNS adverse reactions such as dizziness and ataxia.

5.3 Gardač knyumi and Conduction Aniormanies PR Interval Prolongation, Artivoentricular Block, and Ventricular Tachyarrhythmia Dose-dependent prolongations in PR Interval with lacosamide have been observed in clinical studies in adult patients and in healthy volunteers [see Clinical Pharmacology (12.2)]. In adjunctive clinical trials in adult patients with partial-onset seizures, asymptomatic first-degree atrioventricular (AV) block was observed as an adverse reaction in 0.4% (4/944) of patients randomized to receive lacosamide and 0% (0/364) of patients randomized to receive placebo. Pediatric Patients (4 years to less than 17 Years of Age)

The safety of lacosamide injection was evaluated in a multicenter, open-label study of 77 pediatric patients 4 years to less than 17 years of age with epilepsy. Infusions were primarily administered over a 30 to 60 minute time period; infusion times less than 30 minutes were not adequately studied in pediatric patients [see Dosage and Administration (2.7)]. Although no serious or severe adverse reactions were noted at the time of infusion in this small study, the adverse reactions associated with lacosamide injection in pediatric patients are expected to be similar to those noted in adults. ase of profound bradycardia was observed in a patient during a 15-minute infusion of 150 mg lacosamide. When lacosamide is given with other drugs rolong the PR interval, further PR prolongation is possible. In the postmarketing setting, there have been reports of cardiac arrhythmias in patients treated with lacosamide, including bradycardia, AV block, and

In the postnarketing setting, there have been reports of can take an hydrinia in patients the device with lacounder, including shadycarda, wo lock, and the patients with anderlying proarrhythmic, which have rarely resulted in asystole, cardiac arrest, and death. Most, although not all, cases have occurred in patients with anderlying proarrhythmic conditions, or in those taking concomitant medications that affect cardiac conduction or prolong the PR interval. These events have occurred with both oral and intravenous routes of administration and at prescribed doses as well as in the setting of overdose [see Overdosage (10)]. Pediatric use information is approved for UCB, Inc.'s VIMPAT® (lacosamide) injection. However, due to UCB, Inc.'s marketing exclusivity rights, this drug n all patients for whom a loading dose is clinically indicated, administer the loading dose with medical supervision because of the possibility of increase ncidence of adverse reactions, including cardiovascular adverse reactions.

6.2 Postmarketing Experience The following adverse reactions have been identified during post-approval use of. Iacosamide 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. mide should be used with caution in patients with underlying prograthythmic conditions such as known cardiac conduction problems (e.g., marked Lacosamide should be used with caution in patients with underlying proarrhythmic conditions such as known cardiac conduction problems (e.g., marked first-degree AV block, second-degree or higher AV block and sick sinus syndrome without pacemaker), severe cardiac disease (such as myocardial ischemia or heart failure, or structural heart disease), and cardiac sodium channelopathies (e.g., Brugada Syndrome). Lacosamide should also be used with caution in patients on concomitant medications that affect cardiac conduction, including sodium channel blockers, beta-blockers, calcium channel blockers, potassium channel blockers, and medications that prolong the PR interval [see Drug Interactions (7.2)]. In such patients, obtaining an ECG before beginning lacosamide, and after lacosamide is titrated to steady-state maintenance dose, is recommended. In addition, these patients should be closely monitored if they are administered lacosamide through the intravenous route [see Adverse Reactions (6.1) and Drug Interactions (7.2)]. Blood and lymphatic system disorders: Agranulocytosis Psychiatric disorders: Aggression, agitation, hallucination, insomnia, psychotic disorder Skin and subcutaneous tissue disorders: Angioedema, rash, urticaria, Stevens-Johnson syndrome, toxic epidermal necrolysis

Atrial Fibrillation and Atrial Flutter In the short-term investigational trials of lacosamide in adult patients with partial-onset seizures there were no cases of atrial fibrillation or flutter. Both atrial fibilitation and atrial flutter have been reported in open label partial-onset seizure trials and in postmarketing experience. In adult patients with diabetic neuropathy, for which lacosamide is not indicated, 0.5% of patients treated with lacosamide experienced an adverse reaction of atrial fibrillation or atrial 7 DRUG INTERACTIONS 7.1 Strong CYP3A4 or CYP2C9 Inhibitors Patients with renal or hepatic impairment who are taking strong inhibitors of CYP3A4 and CYP2C9 may have a significant increase in exposure to red to 0% of placebo-treated patients. Lacosamide administration may predispose to atrial arrhythmias (atrial fibrillation or flutter), especially n patients with diabetic neuropathy and/or cardiovascular disease lacosamide. Dose reduction may be necessary in these patient

5.4 Syncope In the short-term controlled trials of lacosamide in adult patients with partial-onset seizures with no significant system illnesses, there was no increase in syncope compared to placebo. In the short-term controlled trials in adult patients with diabetic neuropathy, for which lacosamide is not indicated, 1.2% of patients who were treated with lacosamide reported an adverse reaction of syncope voiss of consciousness, compared with 0% of placebo- treated patients with diabetic neuropathy. Most of the cases of syncope were observed in patients receiving doses above 400 mg/day. The cause of syncope were observed in patients receiving doses above 400 mg/day. The cause of syncope were associated with either changes in orthostatic blood pressure, atrial flutter/fibrillation (and associated tachycardia), or bradycardia. Cases of syncope have also been observed in open-label clinical partial-onset seizure studies in adult and pediatric patients. These cases were associated with a history of risk factors for cardiac disease and the use of drugs that slow AV conduction. 7.2 Concomitant Medications that Affect Cardiac Conduction Lacosamide should be used with caution in patients on concomitant medications that affect cardiac conduction (sodium channel blockers, beta-blockers, calcium channel blockers, potassium channel blockers) including those that prolong PR interval (including sodium channel block), because of a risk of AV block, bradycardia, or ventricular tachyarhythmia. In such patients, obtaining an ECG before beginning lacosamide, and after lacosamide is titrated to steady-state, is recommended. In addition, these patients should be closely monitored if they are administered lacosamide through the titrated to steady-state, is recommended. In addition, intravenous route [see Warnings and Precautions (5.3)].

5.5 Withdrawal of Antiepileptic Drugs (AEDs) As with all AEDs, lacosamide should be withdrawn drawn gradually (over a minimum of 1 week) to minimize the potential of incl

nancy Exposure Registry is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to antiepileptic drugs (AEDs), such as lacosamide, during nancy. Encourage women who are taking lacosamide during pregnancy to enroll in the North American Antiepileptic Drug (NAAED) pregnancy registry and the second seco 5.6 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multi-Organ Hypersensitivity Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS), also known as multi-organ hypersensitivity, has been reported in patients taking antiepileptic drugs, including lacosamide. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy and/or facial swelling, in association with other organ system involvement, such as hepatitis, nephritis, hematologic abnormalities, myocarditis, or myositis, sometimes resembling an acute viral infection. Eosinophilia is often present. This disorder is variable in its expression, and other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity (e.g., fever, lymphadenopathy) may be present even though rash is not evident. If such signs or symptoms are present, the patient should be evaluated immediately. Lacosamide should be discontinued if an alternative etiology for the signs or symptoms cannot be established. by calling 1-888- 233-2334 or visiting http://www.aedpregnancyregistry.org. Risk Summary <u>Risk Summary</u> Available data from the North American Antiepileptic Drug (NAAED) pregnancy registry, a prospective cohort study, case reports, and a case series with lacosamide use in pregnant women are insufficient to identify a drug associated risk of major birth defects, miscarriage or other adverse maternal or fetal outcomes. Lacosamide produced developmental toxicity (increased embryofetal and perinatal mortality, growth deficit) in rats following administration during pregnancy. Developmental neurotoxicity was observed in rats following administration during a period of postnatal development corresponding to the third trimester of human pregnancy. These effects were observed at doses associated with clinically relevant plasma exposures (see Data). 6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in the labeling:

The following serious adverse reactions are described below and elsewhere in the labeling.

Suicidal Behavior and Ideation [see Warnings and Precautions (5.1)]
Dizziness and Ataxia [see Warnings and Precautions (5.2)]
Cardiac Rhythm and Conduction Abnormalities [see Warnings and Precautions (5.3)]
Syncope [see Warnings and Precautions (5.4)]
Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity Reactions [see Warnings and Precautions (5.6)]

tration of lacosamide to pregnant rats (20, 75, or 200 mg/kg/day) and rabbits (6.25, 12.5, or 25 mg/kg/day) during the period of organog uce any effects on the incidences of fetal structural abnormalities. However, the maximum doses evaluated were limited by maternal tox 6.1 Clinical Trials Experience lid not produce any effects on the inci both species and embryofetal death in rats. These doses were associated with maternal plasma lacosamide exposures (AUC) approximately 2 and 1 times Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice (rat and rabbit, respectively) that in humans at the maximum recommended human dose (MRHD) of 400 mg/day

Laboratory Abnormalities Abnormalities in liver function tests have occurred in controlled trials with lacosamide in adult patients with partial-onset seizures who were taking 1 to 3 concomitant anti-epileptic drugs. Elevations of ALT to ≥3x ULN occurred in 0.7% (7/935) of lacosamide patients and 0% (0/356) of placebo patients. One case of hepatitis with transaminases >20x ULN occurred in one healthy subject 10 days after lacosamide treatment completion, along with nephritis (proteinuria and urine casts). Serologic studies were negative for viral hepatitis. Transaminases returned to normal within one month without specific treatment. At the time of this event, bilirubin was normal. The hepatitis/nephritis was interpreted as a delayed hypersensitivity reaction to lacosamide. In two studies in which lacosamide (25, 70, or 200 mg/kg/day and 50, 100, or 200 mg/kg/day) was orally administered to rats throughout pregnancy and lactation, increased perinatal mortality and decreased body weights in the offspring were observed at the highest dose tested. The no-effect dose for pre- and postnatal developmental toxicity in rats (70 mg/kg/day) was associated with a maternal plasma lacosamide AUC similar to that in humans at the MRHD. Oral administration of lacosamide (30, 90, or 180 mg/kg/day) to rats during the neonatal and juvenile periods of development resulted in decreased brain weights and long-term neurobeha generally thought to correspond to weights and long-term neurobehavioral changes (altered open field performance, deficits in learning and memory). The early postnatal period in rats is generally thought to correspond to late pregnancy in humans in terms of brain development. The no-effect dose for developmental neurotoxicity in rats was associated with a plasma lacosamide AUC less than that in humans at the MRHD. Other Adverse Reaction

The following is a list of adverse reactions reported by patients treated with lacosamide in all clinical trials in adult patients, including controlled trials and long-term open-label extension trials. Adverse reactions addressed in other tables or sections are not listed here.

Blood and lymphatic system disorders: neutropenia, anemia

Adverse Reaction

Eve disorders

lurred Vision

Gastrointestinal disorde

Diplopia

Vausea

Dry mouth

Vomiting

Diarrhea

Fatigue

Chest pain

Dizziness

Headache

Tremor

Pruritus

Hyperhidrosis

Paresthesia

Abnormal Coordination

Skin & subcutaneous tissue disorder

ide Injection than with administration over a 30-to 60-minute period.

Somnolence

Oral Paresthesia

Oral Hypoesthesia

Gait disturbance

lervous system disorder

General disorders/administration site cond

Lacosamide Injection Adult Patients (17 Years and Older)

Cardiac disorders: palpitations Ear and labyrinth disorders: tinnitus Gastrointestinal disorders: constipation, dyspepsia, dry mouth, oral hypoaesthesia Gastrointestinal disorders: constipation, dyspepsia, dry mouth, oral hypoaesthesia General disorders and administration site conditions: irritability, pyrexia, feeling drunk Injury, poisoning, and procedural complications: fall Musculoskeletal and connective tissue disorders: muscle spasms

Nervous system disorders: paresthesia, cognitive disorder, hypoaesthesia, dysarthria, disturbance in attention, cerebellar syndrome Psychiatric disorders: confusional state, mood altered, depressed mood

Adverse reactions with intravenous administration to adult patients with partial-onset seizures generally were similar to those that occurred with the oral formulation, although intravenous administration was associated with local adverse reactions such as injection site pain or discomfort (2.5%), irritation (1%), and erythema (0.5%). One case of profound bradycardia (26 bpm: BP 100/60 mmHg) occurred in a patient during a 15-minute infusion of 150 mg nide. This patient was on a beta-blocker. Infusion was discontinued and the patient experienced a rapid recovery.

The safety of a 15-minute loading dose administration of lacosamide Injection 200 mg to 400 mg followed by oral administration of lacosamide given twice daily at the same total daily dose as the initial intravenous infusion was assessed in an open-label study in adult patients with partial-onset seizures. Patients had to have been maintained on a stable dose regimen of 1 to 2 marketed antiepileptics for at least 28 days prior to treatment assignment. Treatment groups were as follows:

Single dose of intravenous lacosamide Injection 200 mg followed by oral lacosamide 200 mg/day (100 mg every 12 hours)

Single dose of intravenous lacosamide Injection 300 mg followed by oral lacosamide 300 mg/day (150 mg every 12 hours)
 Single dose of intravenous lacosamide Injection 400 mg followed by oral lacosamide 400 mg/day (200 mg every 12 hours).

Table 5 gives the incidence of adverse reactions that occurred in ≥5% of adult patients in any lacosamide dosing group

Table 5: Adverse Reactions in a 15-minute Infusion Study in Adult Patients with Partial-Onset Seizures						
iverse Reaction	Lacosamide 200 mg N=25 %	Lacosamide 300 mg N=50 %	Lacosamide 400 mg N=25 %	Lacosamide Total N=100 %		
disorders						
opia	4	6	20	9		
rred Vision	0	4	12	5		
trointestinal disorders						
isea	0	16	24	14		
mouth	0	6	12	6		
niting	0	4	12	5		
l Paresthesia	4	4	8	5		
l Hypoesthesia	0	6	8	5		
rrhea	0	8	0	4		
eral disorders/administration site conditions						
gue	0	18	12	12		
disturbance	8	2	0	3		
st pain	0	0	12	3		
vous system disorders						
ziness	20	46	60	43		
nnolence	0	34	36	26		
dache	8	4	16	8		
esthesia	8	6	4	6		
nor	0	6	4	4		
ormal Coordination	0	6	0	3		
n & subcutaneous tissue disorders						
ritus	0	6	4	4		
erhidrosis	0	0	8	2		

Adverse reactions that occurred with infusion of lacosamide 200 mg over 15-minutes followed by lacosamide 100 mg administered orally twice per day were similar in frequency to those that occurred in 3-month adjunctive therapy controlled trials. Considering the difference in period of observations (1 week vs. 3 months), the incidence of CNS adverse reactions, such as dizziness, somnolence, and paresthesia may be higher with 15- minute administration of

verse reactions associated with lacosamide injection in adult patients with primary generalized tonic-clonic seizures are expected to be similar to sen in adults with partial-onset seizures.

Neurologic disorders: Dyskinesia, new or worsening seizures

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect loss, or other adverse outcomes. In the U.S. general population the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

nal Data

In Vitro Data

Lacosamide has been show differentiation and costs vn in vitro to interfere with the activity of collapsin response mediator protein-2 (CRMP-2), a protei f axonal outgrowth. Potential adverse effects on CNS development related to this activity cannot be rul

8.2 Lactation

Data from p Data from published literature indicate that lacosamide is present in human milk. There are reports of increased sleepiness in breastfed infants exposed to lacosamide (see Clinical Considerations). There is no information on the effects of lacosamide on milk production.

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

<u>Clinical Considerations</u> Monitor infants exposed to lacosamide through breastmilk for excess sedation.

8.4 Pediatric Use

Partial-Obset Seizures Safety and effectiveness of lacosamide for the treatment of partial-onset seizures have been established in pediatric patients 4 years to less than 17 years of age. Use of lacosamide in this age group is supported by evidence from adequate and well-controlled studies of lacosamide in adults with partial-onset seizures, pharmacokinetic data from adult and pediatric patients, and safety data in 328 pediatric patients 4 years to less than 17 years of age *[see Adverse Reactions (6.1), Clinical Pharmacology (12.3)].*

Safety and effectiveness in pediatric patients below 1 month of age have not been established.

Primary Generalized Tonic-Clonic Seizures Safety and effectiveness of lacosamide as adjunctive therapy in the treatment of primary generalized tonic-clonic seizures in pediatric patients with idiopathic generalized epilepsy 4 years of age and older was established in a 24-week double-blind, randomized, placebo-controlled, parallel-group, multi-center study (Study 5), which included 37 pediatric patients 4 years to less than 17 years of age *[see Adverse Reactions (6.1) and Clinical Studies* (14.3)].

Safety and effectiveness in pediatric patients below the age of 4 years have not been established.

Animal Data

Anima Data Lacosamide has been shown *in vitro* to interfere with the activity of collapsin response mediator protein-2 (CRMP-2), a protein involved in neuronal differentiation and control of axonal outgrowth. Potential related adverse effects on CNS development cannot be ruled out. Administration of lacosamide to rats during the neonatal and juvenile periods of postnatal development (approximately equivalent to neonatal through adolescent development in humans) resulted in decreased brain weights and long-term neurobehavioral changes (altered open field performance, deficits in learning and memory). The no-effect dose for developmental neurotoxicity in rats was associated with a plasma lacosamide exposure (AUC) less than that in humans at the maximum recommended human dose of 400 mg/day.

Pediatric use information is approved for UCB, Inc.'s VIMPAT@ (lacosamide) injection. However, due to UCB, Inc.'s marketing exclusivity rights, this drug nroduct is not labeled with that infor

8.5 Geriatric Use

There were insufficient numbers of elderly patients enrolled in partial-onset seizure trials (n=18) to adequately determine whether they respond differently from younger patients.

No lacosamide dose adjustment based on age is necessary. In elderly patients, dose titration should be performed with caution, usually starting at the lower end of the dosing range, reflecting the greater frequency of decreased hepatic function, decreased renal function, increased cardiac conduction abnormalities, and polypharmacy [see Dosage and Administration (2.1, 2.4, 2.5) and Clinical Pharmacology (12.3)].

8.6 Renal Impairmer

No dose adjustment is necessary in patients with mild to moderate renal impairment ($CL_{cs} \ge 30 \text{ mL/min}$). In patients with severe renal impairment ($CL_{cs} < 30 \text{ mL/min}$) as estimated by the Cockcroft-Gault equation for adults; $CL_{cn} < 30 \text{ mL/min}/1.73\text{m}^2$ as estimated by the Schwartz equation for pediatric patients) and in those with end-stage renal disease, a reduction of 25% of the maximum dosage is recommended *[see Dosage and Administration (2.4) and Clinical*

In all patients with renal impairment, dose initiation and titration should be based on clinical response and tolerability

Lacosamide is effectively removed from plasma by hemodialysis, Dosage supplementation of up to 50% following hemodialysis should be considered

8.7 Hepatic Impairment For adult and pediatric patients with mild to moderate hepatic impairment, a reduction of 25% of the maximum dosage is recommended. Patients with mild to moderate hepatic impairment should be observed closely for adverse reactions, and dose initiation and titration should be based on clinical response and tolerability [see Dosage and Administration (2.5), Clinical Pharmacology (12.3)].

The pharmacokinetics of Jacosamide has not been evaluated in severe benatic impairment. Jacosamide use is not recommended in patients with severe benatic impairment of the severe benatic impairment of the severe benatic impairment. c impairmen

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substan mide, a Schedule V controlled substance

92 Ahuse

9.2 Abuse Abuse is the intentional, non-therapeutic use of a drug, even once, for its desirable psychological or physiological effects. In a human abuse potential study, single dosses of 200 mg (equal to the maximum single dosage) and 800 mg lacosamide (equal to twice the recommended daily maintenance dosage) produced euphoria-type subjective responses that differentiated statistically from placebo; at 800 mg, these euphoria-type responses were statistically indistinguishable from those produced by alprazolam, a Schedule IV drug. The duration of the euphoria-type responses following lacosamide was less than that following alprazolam. A high rate of euphoria was also reported as an adverse event in the human abuse potential study following single doses of 300-800 mg lacosamide (ranging from 6% [2/34]) compared to placebo (0%) and in two pharmacokinetic studies following single and multiple doses of 300-800 mg lacosamide development program at therapeutic doses was less than 1%.

9.3 Dependence Physical dependence is a state that develops as a result of physiological adaptation in response to repeated drug use, manifested by withdrawal signs and symptoms after abrupt discontinuation or a significant dose reduction of a drug. Abrupt termination of lacosamide in clinical trials with diabetic neuropathic pain patients produced no signs or symptoms that are associated with a withdrawal syndrome indicative of physical dependence. However, psychological dependence cannot be excluded due to the ability of lacosamide to produce euphoria- type adverse events in humans

Events reported after an intake of more than 800 mg (twice the maximum recommended daily dosage) of lacosamide include dizziness, nausea, and seizures (generalized tonic-clonic seizures, status epilepticus). Cardiac conduction disorders, confusion, decreased level of consciousness, cardiogenic shock, cardiac arrest, and coma have also been observed. Fatalities have occurred following lacosamide overdoses of several grams.

There is no specific antidote for overdose with lacosamide. Standard decontamination procedures should be followed. General supportive care of the patient is indicated including monitoring of vital signs and observation of the clinical status of patient. A Certified Poison Control Center should be contacted for up to date information on the management of overdose with lacosamide.

Standard hemodialysis procedures result in significant clearance of lacosamide (reduction of systemic exposure by 50% in 4 hours). Hemodialysis may be indicated based on the patient's clinical state or in patients with significant renal impairment.

11 DESCRIPTION

The chemical name of lacosamide, the single (R)-enantiomer, is (R)-2-acetamido-N-benzyl-3- methoxypropionamide (IUPAC). Lacosamide is a functionalized amino acid. Its molecular formula is C₁₃H₁₂N,O₃ and its molecular weight is 250.30. The chemical structure is:

Lacosamide injection is a clear, colorless, sterile solution containing 10 mg lacosamide per mL for intravenous infusion. One 20-mL vial contains 200 mg of lacosamide drug substance. The inactive ingredients are sodium chloride (7.62 mg/mL) and water for injection. Hydrochloric acid is used for pH adjustment. Lacosamide injection has a pH of 3.8 to 5.0.

Lacosamide is a white to light yellow powder. It is sparingly soluble in water and slightly soluble in acetonitrile and ethano

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.1 Mechanism of Action The precise mechanism by which lacosamide exerts its antiepileptic effects in humans remains to be fully elucidated. *In vitro* electrophysiological studies have shown that lacosamide selectively enhances slow inactivation of voltage-gated sodium channels, resulting in stabilization of hyperexcitable neuronal membranes and inhibition of repetitive neuronal firing.

12.2 Pharmacodynamics

A pharmacokinetic-pharmacodynamic (efficacy) analysis was performed based on the pooled data from the 3 efficacy trials for partial-onset seizures. Lacosamide exposure is correlated with the reduction in seizure frequency. However, doses above 400 mg/day do not appear to confer additional benefit in group analyses

Cardiac Electrophysiology

Cardiac Electrophysiology Electrocardiographic effects of lacosamide were determined in a double-blind, randomized clinical pharmacology trial of 247 healthy subjects. Chronic oral doses of 400 and 800 mg/day (equal to and two times the maximum daily recommended dose, respectively) were compared with placebo and a positive control (400 mg moxifloxacin). Lacosamide did not prolong 0Tc interval and did not have a dose-related or clinically important effect on 0RS duration. Lacosamide produced a small, dose-related increase in mean PR interval. At steady-state, the time of the maximum doserved mean PR interval corresponded with tmax. The placebo-subtracted maximum increase in PR interval (at tmax) was 7.3 ms for the 400 mg/day group and 11.9 ms for the 800 mg/day group. For patients who participated in the controlled trials, the placebo-subtracted mean maximum increase in PR interval for a 400 mg/day lacosamide dose was 3.1 ms in patients with partial-onset seizures and 9.4 ms for patients with diabetic neuropathy.

The pharmacokinetics of lacosamide have been studied in healthy adult subjects (age range 18 to 87), adults with partial-onset seizures, adults with diabetic neuropathy, and subjects with renal and hepatic impairment. The pharmacokinetics of lacosamide are similar in healthy subjects, patients with partial-onset seizures, and patients with primary generalized tonic-clonic seizures.

Lacosamide is completely absorbed after oral administration with negligible first-pass effect with a high absolute bioavailability of approximately 100%. The maximum lacosamide blasma concentrations occur approximately 1-to-4-hour post-dose after oral dosing, and elimination half-life is approximately 13 hours. Steady state plasma concentrations are achieved after 3 days of twice daily repeated administration. Pharmacokinetics of lacosamide are dose proportional (100-800 mg) and time invariant, with low inter- and intra-subject variability. Compared to lacosamide the major metabolite, 0-desmethyl metabolite, has a longer T_{max} (0.5 to 12 hours) and elimination half-life (15-23 hours).

borbed after oral administration. The oral bioavailability of lacosamide tablets is approximately 100%. Food does not affect the

Absorption and Bioavailability Lacosamide is completely abs rate and extent of absorption. After intravenous administration, C_{max} is reached at the end of infusion. The 30- and 60-minute intravenous infusions are bioequivalent to the oral tablet. For the 15-minute intravenous infusion, bioequivalence was met for $AUC_{(0-x)}$ but not for Cmax. The point estimate of C_{max} was 20% higher than C_{max} for oral tablet and the 90% CI for C_{max} exceeded the upper boundary of the bioequivalence range.

In a trial comparing the oral tablet with an oral solution containing 10 mg/mL lacosamide, bioequivalence between both formulations was shown

A single loading dose of 200 mg approximates steady-state concentrations comparable to the 100 mg twice daily oral administration.

Distribution The volume of distribution is approximately 0.6 L/kg and thus close to the volume of total body water. Lacosamide is less than 15% bound to plasma proteins.

Metabolism and Elimination Lacosamide is primarily eliminated from the systemic circulation by renal excretion and biotransforn

After intravenous administration of 100 mg [14C]-lacosamide approximately 95% of radioactivity administered was recovered in the urine and less than 0.5% in the feces. The major compounds excreted were unchanged lacosamide (approximately 40% of the dose), its 0-desmethyl metabolite (approximately 30%), and a structurally unknown polar fraction (~20%). The plasma exposure of the major human metabolite, 0- desmethyl-lacosamide, is approximately 10% of that of lacosamide. This metabolite has no known pharmacological activity.

The CYP isoforms mainly responsible for the formation of the major metabolite (0-desmethyl) are CYP3A4, CYP2C9, and CYP2C19. The elimination half-life of the unchanged drug is approximately 13 hours and is not altered by different doses, multiple dosing or intravenous administration.

There is no enantiomeric interconversion of lacosamide

Specific Populations

Renal Impairment Lacosamide and its major metabolite are eliminated from the systemic circulation primarily by renal excretion.

The AUC of lacosamide was increased approximately 25% in mildly (CL_{CR} 50-80 mL/min) and moderately (CL_{CR} 30-50 mL/min) and 60% in severel (CL_{CR} 530 mL/min) renally impaired patients compared to subjects with normal renal function (CL_{CR}>80 mL/min), whereas C_{max} was unaffected Lacosamide is effectively removed from plasma by hemodialysis. Following a 4-hour hemodialysis treatment, AUC of lacosamide is reduced b approximately 50% [see Dosage and Administration (2.4)].

Hepatic Impairment

cpace impairment Lacosamide undergoes metabolism. Subjects with moderate hepatic impairment (Child-Pugh B) showed higher plasma concentrations of lacosamide (approximately 50-60% higher AUC compared to healthy subjects). The pharmacokinetics of lacosamide have not been evaluated in severe hepatic impairment [see Dosage and Administration (2.5)].

Pediatric Patients (4 Years to less than 17 Years of Age) The pediatric pharmacokinetic profile of lacosamide was determined in a population pharmacokinetic analysis using sparse plasma concentration data obtained in two open-label studies in 79 pediatric patients with partial-onset seizures that included patients 4 years to less than 17 years of age. Both apparent clearance and apparent volume of distribution increase as body weight increases. For patients weighing 11 kg, 28.9 kg (the mean population body weight), and 70 kg, the typical plasma half-life (tr₁₀) is 7.4 hours, 10.6 hours, and 14.8 hours, respectively. Steady state plasma concentrations are achieved after 3 days of twice daily repeated administration. A weight based dosing regimen is necessary to achieve lacosamide exposures in pediatric patients 4 years to less than 17 years of age similar to those observed in adults treated at effective doses of lacosamide *[see Dosage and Administration* (2.1)).

The pharmacokinetics of lacosamide in pediatric patients are similar when used as monotherapy or as adjunctive therapy for the treatment of partial-onset seizures and as adjunctive therapy for the treatment of primary generalized tonic-clonic seizures.

Pediatric use information is approved for UCB, Inc.'s VIMPAT® (lacosamide) injection. However, due to UCB, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

rrature Patients In the elderly (>65 years), dose and body-weight normalized AUC and C_{max} is about 20% increased compared to young subjects (18-64 years). This may be related to body weight and decreased renal function in elderly subjects.

Lacosamide clinical trials indicate that gender does not have a clinically relevant influence on the pharmacokinetics of lacosamide.

Race There are no clinically relevant differences in the pharmacokinetics of lacosamide between Asian, Black, and Caucasian subjects.

CYP2C19 Pr

There are no clinically relevant differences in the pharmacokinetics of lacosamide between CYP2C19 poor metabolizers and extensive metab Results from a trial in poor metabolizers (PM) (N=4) and extensive metabolizers (EM) (N=8) of cytochrome P450 (CYP) 2C19 showed that laco plasma concentrations were similar in PMs and EMs, but plasma concentrations and the amount excreted into urine of the 0-desmethyl metaboli about 70% reduced in PMs compared to EMs.

Drug Interactions

ug Interactions Vitro Assessment of Drug Interactions In vitro metabolism studies indicate that lacosamide does not induce the enzyme activity of drug metabolizing cytochrome P450 isoforms CYP1A2, 286, 209, 2019 and 3A4. Lacosamide did not inhibit CYP 1A1, 1A2, 2A6, 2B6, 2C8, 2C9, 2D6, 2E1, 3A4/5 at plasma concentrations observed in clinical durations

In vitro data suggest that lacosamide has the potential to inhibit CYP2C19 at therapeutic concentrations. However, an in vivo study with omeprazole did not show an inhibitory effect on omeprazole pharmacokinetics.

Lacosamide was not a substrate or inhibitor for P-glycoprotein. Lacosamide is a substrate of CYP3A4, CYP2C9, and CYP2C19. Patients with renal or hepatic impairment who are taking strong inhibitors of CYP3A4 and

Since <15% of lacosamide is bound to plasma proteins, a clinically relevant interaction with other drugs through competition for protein binding sites

o Effect of lacosamide on concomitant AEDs Lacosamide 400 mg/day had no influence on the pharmacokinetics of 600 mg/day valproic acid and 400 mg/day carbamazepine in healthy subjects. The placebo-controlled clinical studies in patients with partial-onset seizures showed that steady-state plasma concentrations of levetiracetam, carbamazepine, carbamazepine epoxide, lamotrigine, topiramate, oxcarbazepine monohydroxy derivative (MHD), phenytoin, valproic acid, phenobarbital, gabapentin, clonazepam, and zonisamide were not affected by concomitant intake of lacosamide at any dose.

o <u>Effect of concomitant AEDs on lacosamide</u> Drug-drug interaction studies in healthy subjects showed that 600 mg/day valproic acid had no influence on the pharmacokinetics of 400 mg/day lacosamide. Likewise, 400 mg/day carbamazepine had no influence on the pharmacokinetics of lacosamide in a healthy subject study. Population pharmacokinetics results in patients with partial-onset seizures showed small reductions (15% to 20% lower) in lacosamide plasma concentrations when lacosamide was coadministered with carbamazepine, phenobarbital or phenytoin.

Drug-drug interaction studies with other drugs

o <u>Digoxin</u> There was no effect of lacosamide (400 mg/day) on the pharmacokinetics of digoxin (0.5 mg once daily) in a study in healthy subjects.

o <u>Metformin</u> There were no clinically relevant changes in metformin levels following coadministration of lacosamide (400 mg/day).

Metformin (500 mg three times a day) had no effect on the pharmacokinetics of lacosamide (400 mg/day).

o <u>Omeprazole</u> Omeprazole is a CYP2C19 substrate and inhibitor

There was no effect of lacosamide (600 mg/day) on the pharmacokinetics of omeprazole (40 mg single dose) in healthy subjects. The data indicated that lacosamide had little in vivo inhibitory or inducing effect on CYP2C19.

Imprazole at a dose of 40 mg once daily had no effect on the pharmacokinetics of lacosamide (300 mg single dose). However, plasma levels of the

uced about 60% in the presence of omeprazole

D <u>Initiazolam</u> Midazolam is a 3A4 substrate. There was no effect of lacosamide (200 mg single dose or repeat doses of 400 mg/day given as 200 mg BiD) on the pharmacokinetics of midazolam (single dose, 7.5 mg), indicating no inhibitory or inducing effects on CYP3A4.

o Oral Contraceptives There was no influence of lacosamide (400 mg/day) on the pharmacodynamics and pharmacokinetics of an oral contraceptive containing 0.03 mg ethinylestradiol and 0.15 mg levonorgestrel in healthy subjects, except that a 20% increase in ethinylestradiol Cmax was observed.

o <u>Warfarin</u>

o <u>warann</u> Co-administration of lacosamide (400 mg/day) with warfarin (25 mg single dose) did not result in a clinically relevant change in the pharmacokinetic and pharmacodynamic effects of warfarin in a study in healthy male subjects.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis There was no evidence of drug related carcinogenicity in mice or rats. Mice and rats received lacosamide once daily by oral administration for 104 weeks at doses producing plasma exposures (AUC) up to approximately 1 and 3 times, respectively, the plasma AUC in humans at the maximum recommended human dose (MRHD) of 400 mg/day. Do not freeze lacosamide injection 17 PATIENT COUNSELING INFORMATION

was negative in an *in vitro* Ames test and an *in vivo* mouse micronucleus assay. Lacosamide induced a positive response in the in vitro mouse

torung. No adverse effects on male or female fertility or reproduction were observed in rats at doses producing plasma exposures (AUC) up to approximately 2 times the plasma AUC in humans at the MRHD

14 CLINICAL STUDIES

14.1 Monotherapy in Patients with Partial-Onset Seizures The efficacy of lacosamide in monotherapy was established in a historical-control, multicenter, randomized trial that included 425 patients, age 16 to 70 years, with partial-onset seizures (Study 1). To be included in Study 1, patients were required to be taking stable doses of 1 or 2 marketed antiepileptic years, with partial-onset seizures (Study 1). To be included in Study 1, patients were required to be taking stable doses of 1 or 2 marketed antiepileptic drugs. This treatment continued into the 8 week baseline period. To remain in the study, patients were required to have at least 2 partial-onset seizures per 28 days during the 8 week baseline period. The baseline period was followed by a 3 week titration period, during which lacosamide was added to the ongoing antiepileptic regimen. This was followed by a 16-week maintenance period (i.e., a 6-week withdrawal period for background antiepileptic drugs, followed by a 10-week monotherapy period). Patients were randomized 3 to 1 to receive lacosamide 400 mg/day or lacosamide was added to the assignments were blinded. Response to treatment was based upon a comparison of the number of patients who met exit criteria during the maintenance phase, compared to historical controls. The historical control consisted of a pooled analysis of the control groups from 8 studies of similar design, which utilized a sub-therapeutic dose of an antiepileptic drug. Statistical superiority to the historical control was considered to be demonstrated if the upper limit from a 2-sided 95% confidence interval for the percentage of patients meeting exit criteria in patients receiving lacosamide below the lower 95% prediction limit of 65% derived from the historical control data.

The exit criteria were one or more of the following: (1) doubling of average monthly seizure frequency during any 28 consecutive days, (2) doubling of highest consecutive 2-day seizure frequency, (3) occurrence of a single generalized tonic-clonic seizure, (4) clinically significant prolongation or worsening of overall seizure duration, frequency, type or pattern considered by the investigator to require trial discontinuation, (5) status epilepticus or new onset of serial/cluster seizures. The study population profile appeared comparable to that of the historical control population.

Pregnancy Registry Advise patients to notify their healthcare provider if they become pregnant or inten enroll in the North American Antiepileptic Drug (NAAED) pregnancy registry if they of AEDs during pregnancy [see Use in Specific Populations (8.1)]. For the lacosamide 400 mg/day group, the estimate of the percentage of patients meeting at least 1 exit criterion was 30% (95% CI: 25%, 36%). The upper limit of the 2-sided 95% CI (36%) was below the threshold of 65% derived from the historical control data, meeting the pre-specified criteria for efficacy. ide 300 mg/day also met the pre-specified criteria for efficacy

14.2 Adjunctive Therapy in Patients with Partial-Onset Seizures

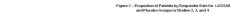
14.2 Adjunctive Therapy in Patients with Partial-Onset Seizures The efficacy of lacosamide as adjunctive therapy in partial-onset seizures was established in three 12-week, randomized, double-blind, placebo-controlled, multicenter trials in adult patients (Study 2, Study 3, and Study 4). Enrolled patients had partial-onset seizures with or without secondary generalization, and were not adequately controlled with 1 to 3 concomitant AEDs. During an 8-week baseline period, patients were required to have an average of ≥4 partial-onset seizures per 28 days with no seizure-free period exceeding 21 days. In these 3 trials, patients had a mena duration of epilepsy of 24 years and a median baseline seizure frequency ranging from 10 to 17 per 28 days. 84% of patients were taking 2 to 3 concomitant AEDs with or without

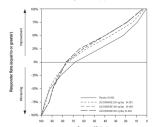
Study 2 compared doses of lacosamide 200, 400, and 600 mg/day with placebo. Study 3 compared doses of lacosamide 400 and 600 mg/day with placebo. Study 4 compared doses of lacosamide 200 and 400 mg/day with placebo. In all three trials, following an 8-week baseline phase to establish baseline seizure frequency prior to randomization, patients were randomized and titrated to the randomized dose (a 1-step back-titration of lacosamide 100 mg/day or placebo was allowed in the case of intolerable adverse reactions at the end of the titration phase). During the titration phase, in all 3 adjunctive therapy trials, treatment was initiated at 100 mg/day (50 mg twice daily) and increased in weekly increments of 100 mg/day to the target dose. The titration phase lasted 6 weeks in Study 2 and Study 3, and 4 weeks in Study 4. In all three trials, the titration phase was followed by a maintenance phase that lasted 12 weeks, during which patients were to remain on a stable dose of lacosamide. on phase ST-LAC11/P/00

A reduction in 28-day seizure frequency (baseline to maintenance phase), as compared to the placebo group, was the primary variable in all three adjunctive therapy trials. A statistically significant effect was observed with lacosamide treatment (Figure 1) at doses of 200 mg/day (Study 4), 400 mg/day (Studies 2, 3, and 4), and 600 mg/day (Studies 2 and 3).

Subset evaluations of lacosamide demonstrate no important differences in seizure control as a function of gender or race, although data on race was limitec (about 10% of patients were non-Caucasian). dian Percent Reduction in Seizure Frequency p Baseline to the Maintenance Phase by Dose

Figure 2 presents the percentage of patients (X-axis) with a percent reduction in partial seizure frequency (responder rate) from baseline to the maintenance phase at least as great as that represented on the Y-axis. A positive value on the Y-axis indicates an improvement from baseline (i.e., a decrease in seizure frequency), while a negative value indicates a worsening from baseline (i.e., an increase in seizure frequency). Thus, in a display of this type, a curve for an effective treatment is shifted to the left of the curve for placebo. The proportion of patients achieving any particular level of reduction in seizure frequency was consistently higher for the lacosamide (400 mg/day) experienced a 50% or greater reduction in seizure frequency, compared to tag placebo group. For example, 40% of patients randomized to lacosamide (400 mg/day) experienced a 50% or greater reduction in seizure frequency, compared to 23% of patients randomized to placebo. Patients with an increase in seizure frequency >100% are represented on the Y-axis as equal to or greater than -100%.





Code No.: KR/DRUGS/KTK/28/289/9

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1200928

Lacosamide injection USP is a clear, colorless solution supplied as below

	14.3 Adjunctive Therapy in Patients with Primary Generalized Tonic-Clonic Seizures	MEDICATION GUIDE			
l	The efficacy of lacosamide as adjunctive therapy in patients 4 years of age and older with idiopathic generalized epilepsy experiencing primary generalized tonic-clonic (PGTC) seizures was established in a 24-week double- blind, randomized, placebo-controlled, parallel-group, multi-center study (Study 5). The	Lacosamide (la koe' s amide) injection, for intravenous use, CV			
;	study consisted of a 12-week historical baseline period, a 4-week prospective baseline period, and a 24-week treatment period (which included a 6-week titration period and an 18-week maintenance period). Eligible patients on a stable dose of 1 to 3 antiepileptic drugs experiencing at least 3 documented PGTC seizures during the 16-week combined baseline period were randomized 1:1 to receive lacosamide (n=121) or placebo (n=121).	Read this Medication Guide before you start taking lacosamide and each time you get a refill. There may be new information. This Medication Guide describes important safety information about lacosamide. This information does not take the place of talking to your healthcare provider about your			
	Patients were dosed on a fixed-dose regimen. Dosing was initiated at a dose of 2 mg/kg/day in patients weighing less than 50 kg or 100 mg/day in patients	medical condition or treatment. What is the most important information I should know about lacosamide?			
	weighing 50 kg or more in 2 divided doses. During the titration period, lacosamide doses were adjusted in 2 mg/kg/day increments in patients weighing less than 50 kg or 100 mg/day in patients weighing 50 kg or more at weekly intervals to achieve the target maintenance period dose of 12 mg/kg/day in patients weighing less than 30 kg, 8 mg/kg/day in patients weighing from 30 to less than 50 kg, or 400 mg/day in patients weighing 50 kg or more.	Do not stop taking lacosamide injection without first talking to your healthcare provider. Stopping lacosamide injection suddenly can cause serious problems. Stopping seizure medicine suddenly in a patient who has epilepsy can cause seizures that will not stop (status epilepticus). Lacosamide injection can cause serious side effects, including:			
	The primary efficacy endpoint (patients in the modified full analysis set: lacosamide n=118, placebo n=121) was the time to second PGTC seizure during	 Like other antiepileptic drugs, lacosamide 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: 			
,	the 24-week treatment period (Figure 3). The risk of developing a second PGTC seizure was statistically significantly lower in lacosamide group than in the placebo group during the 24-week treatment period (hazard ratio=0.548, 95% Cl of hazard ratio: 0.381, 0.788, p-value = 0.001), with the corresponding risk reduction being 45.2%.	thoughts about suicide or dying • attempt to commit suicide • new or worse irritability			
	The key secondary efficacy endpoint was the percentage of patients not experiencing a PGTC seizure during the 24-week treatment period. The adjusted	new or worse depression enew or worse anxiety enew or worse anxiety entry			
r I	kaplan-Meier estimates of 24-week freedom from PGT seizures were 31.3% in lacosamide group and 17.2% in placebo group. The adjusted difference between treatment groups was 14.1% (95% Cl: 3.2, 25.1, p-value=0.011).	feeling agitated or restless • an extreme increase in activity and talking (mania) • panic attacks • other unusual changes in behavior or mood How can I watch for early symptoms of suicidal thoughts and actions?			
i	Figure 3 – Kaplan-Meier Analysis of Time to 2nd PGTC Seizure (Study 5) Analysis Set: Modified Full Analysis Set	 Pay attention to any changes, especially suddan changes, in mood, behaviors, thoughts, or feelings. Keep all follow-up visits with your healthcare provider as scheduled. 			
		Call your healthcare provider between visits as needed, especially if you are worried about symptoms. Suicidal thoughts or actions can be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may			
	and the second s	 Check for other causes. 2. Lacosamide injection may cause you to feel dizzy, have double vision, feel sleepy, or have problems with coordination and walking. Do not drive. 			
	a de la companya de l	operate heavy machinery, or do other dangerous activities until you know how lacosamide affects you. 3. Lacosamide injection may cause you to have an irregular heartbeat or may cause you to faint. In rare cases, cardiac arrest has been reported. Call			
	a	your healthcare provider right away if you: • have a fast, slow, or pounding heartbeat or feel your heart skip a beat • feel lightheaded			
	E Contraction of the second se	fainted or if you feel like you are going to faint • have shortness of breath • have shortness of breath			
	л	 Intro long transfer and the second sec			
1	22 - Partie Mill Mild Die wenneem Zu Biologisch Ziel Die	to protect it from theft. Never give your lacosamide to anyone else, because it may harm them. Selling or giving away this medicine is against the law. What is lacosamide injection?			
		 tacosamide injection is a prescription medicine used: to treat partial-onset seizures in people 4 years of age and older. 			
	900 NH 71 NH 10 H 10 H 10 T 10 H 10 T 10 T 10 T 10	with other medicines to treat primary generalized tonic-clonic seizures in people 4 years of age and older. It is not known if lacesamide is safe and effective for partial-onset seizures in children under 1 month of age or for primary generalized tonic-clonic			
	The numbers at the bottom of the figure are for patients still at risk in the study at a given timepoint (i.e., the continuing patients in the study without an	Seizures in children under 4 years of age. What should I tell my healthcare provider before taking lacosamide injection?			
1	event or censoring prior to the timepoint).	Before you take lacosamide injection, tell your healthcare provider about all of your medical conditions, including if you: have or have had depression, mood problems or suicidal thoughts or behavior.			
	16 HOW SUPPLIED/STORAGE AND HANDLING	have hard problems. have head problems. have head problems.			
)	16.1 How Supplied	 have liver problems. have abused prescription medicines, street drugs or alcohol in the past. 			
	Lacosamide Injection Lacosamide injection USP is a clear, colorless solution supplied as below:	 are pregnant or plan to become pregnant. It is not known if lacosamide can harm your unborn baby. Tell your healthcare provider right away if you become pregnant while taking lacosamide. You and your healthcare provider will decide if you should take lacosamide while you are pregnant. 			
	NDC Number Concentration Volume Package	o If you become pregnant while taking lacosamide injection, 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			
	Tob Hame Concentration Concentration Provide the second secon	safety of antiepileptic medicine during pregnancy. • are breastfeeding or plan to breastfeed. lacosamide passes into breast milk.			
	16.2 Storage and Handling	o Breastfeeding during treatment with lacosamide may cause your baby to have more sleepiness than normal. If this happens, contact your baby's healthcare provider.			
i	Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F). [See USP Controlled Room Temperature]	o Talk to your healthcare provider about the best way to feed your baby if you take lacosamide injection. Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal			
	Do not freeze lacosamide injection 17 PATIENT COUNSELING INFORMATION	supplements. Taking lacosamide with certain other medicines may cause side effects or affect how well they work. Do not start or stop other medicines without			
	Advise the patient or caregiver to read the FDA-approved patient labeling (Medication Guide).	talking to your healthcare provider. Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist each time you get a new medicine.			
	Suicidal Thinking and Behavior	How should I take lacosamide injection? • Take lacosamide injection exactly as your healthcare provider tells you.			
5	Patients, their caregivers, and families should be counseled that AEDs, including lacosamide, may increase the risk of suicidal thoughts and behavior and				
	should be advised of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the	Your healthcare provider will tell you how much lacosamide injection to take and when to take it. Your healthcare provider may change your dose if needed. Power the lacosamide injection with a first kine the settlement and the settlement of the settle			
	should be advised of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers [see Warninos and Precautions (5.1)].	 Your healthcare provider may change your dose if needed. Do not stop lacosamide injection without first talking to a healthcare provider. Stopping lacosamide injection suddenly in a patient who has epilepsy can cause seizures that will not stop (status epilepticus). 			
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rovider. You can ask your pharmacist or healthcare provider for information about lacosamide injection that is written for health profe

provider. You can ask your pharmacist or healthcare provider for information about lacosamide injection that is written for heal What are the ingredients in lacosamide? Active ingredient: lacosamide Injection inactive ingredients: sodium chloride (7.62 mg/mL), water for injection, hydrochloric acid (for pH adjustment) Manufactured for

Somerset Therapeutics, LLC

Somerset, NJ 08873

Made in India

Code No.: KR/DBUGS/KTK/28/289/97

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

Revised: 9/2022

SOMERSET THERAPEUTICS LIMITED				ARTWORK APPROVAL FORM			
Product	Lacosamide Injecti	on 200 mg/20 mL (10 n	ng/mL)	Style:			
Specification:	Ink : Siegwerk (Te	30-40 GSM ITC Newsprint Paper werk (Tempo Eazy Process Black -60-9000026-0.2010 o Special PR Black – 60-911310-5.2020) / (Geos G Process Black - 120000000952) enone free)		Colours:			
				Dimension:	Open : 500 x 370 mm (LxW) Folded : 125 x 46 mm		d : 125 x 46 mm
Item Code	1200928	Remarks		No of Folds: (only for PIL)	(5 folds)	Artwork Print Scaled to	
Prepared by PDD	Verified by FD	Approved by Regulatory Affairs	Checked by Packing		cked by QA	Approved by QA	