

Lapcetam Injection

Levetiracetam (100 mg/mL) Injection

Generic Name: Levetiracetam

Dosage Form: Intravenous (IV) injection

Strength: 100 mg/mL

clinical response and tolerance to a maximum of 3000 mg/day.

- **Children (4–15 years):** Dose based on body weight, typically starting at 10 mg/kg IV twice daily. Adjust as needed up to 60 mg/kg/day.

Indications

Levetiracetam injection is used for the treatment of:

- **Seizures:**
 - Partial-onset seizures in adults and children.
 - Myoclonic seizures in patients with juvenile myoclonic epilepsy.
 - Primary generalized tonic-clonic seizures in patients with idiopathic generalized epilepsy.
- When oral administration is not feasible (e.g., during acute care settings or when patients cannot swallow).

Administration Instructions:

- Dilute the injection with an appropriate diluent (e.g., 0.9% sodium chloride) before administration.
- Infuse over 15 minutes.

Contraindications

- Hypersensitivity to levetiracetam or any of its excipients.

Warnings and Precautions

1. **Psychiatric and Behavioral Symptoms:** May cause mood changes, aggression, irritability, or suicidal thoughts. Monitor patients closely.
2. **Renal Impairment:** Dose adjustment required in patients with reduced renal function.
3. **Anaphylaxis and Angioedema:** Rare but serious allergic reactions have been reported.
4. **Withdrawal Seizures:** Abrupt discontinuation may increase seizure frequency. Gradual dose reduction is recommended.

Dosage and Administration

Route of Administration: Intravenous (IV) infusion.

Dosage:

- **Adults and Adolescents (16 years and older):**
Initial dose: 500 mg IV twice daily.
Dosage may be increased based on

- 5. Pregnancy and Breastfeeding: Use only if clearly needed. Discuss risks and benefits with the healthcare provider.**
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Side Effects

Common Side Effects:

- Drowsiness
- Dizziness
- Fatigue
- Irritability

Serious Side Effects:

- Severe mood or behavioral changes
 - Hallucinations or psychosis
 - Allergic reactions (e.g., rash, itching, swelling, or difficulty breathing)
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Drug Interactions

- **CNS Depressants: Concurrent use with other sedatives may enhance drowsiness or dizziness.**
 - **Enzyme-inducing Antiepileptic Drugs (e.g., carbamazepine, phenytoin): May alter levetiracetam levels.**
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Storage

- Store at room temperature (15–30°C or 59–86°F).
 - Protect from light and excessive heat.
 - Use diluted solutions within the recommended time frame.
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Missed Dose

As this is typically administered in a clinical setting, missed doses are uncommon. Ensure timely administration as per the prescribed schedule.

Overdose Management

Symptoms of overdose may include drowsiness, agitation, aggression, or respiratory depression. Provide supportive treatment and consider hemodialysis if necessary to remove the drug from circulation.

Note: This medication should only be administered by trained healthcare professionals. Always consult your doctor or pharmacist for more specific guidance tailored to your condition.

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