

LeponeX may cause agranulocytosis. Its use should be limited to patients:

- with schizophrenia who are non-responsive to or intolerant of classical antipsychotic agents, or with schizophrenia or schizoaffective disorder who are at risk of recurrent suicidal behavior (see section INDICATIONS) who have leukocyte findings (white blood cell count (WBC) $\geq 3500/\text{mm}^3$ ($\geq 3.5 \times 10^9/\text{L}$) and absolute neutrophil counts (ANC) $\geq 2000/\text{mm}^3$ ($\geq 2.0 \times 10^9/\text{L}$)).
- in whom regular white blood cell counts and absolute neutrophil counts can be performed as follows: weekly during the first 18 weeks of therapy, and at least every 4 weeks thereafter throughout treatment. Monitoring should continue throughout treatment and for 4 weeks after complete discontinuation of LeponeX (see section WARNINGS AND PRECAUTIONS).

Prescribing physicians should comply fully with the required safety measures. At each consultation, a patient receiving LeponeX should be reminded to contact the treating physician immediately if any kind of infection begins to develop. Particular attention should be paid to flu-like complaints such as fever and sore throat, and to other evidence of infection, which may be indicative of neutropenia (see section WARNINGS AND PRECAUTIONS). LeponeX must be dispensed under strict medical supervision in accordance with recommendations (see section WARNINGS AND PRECAUTIONS).

LeponeX®

Antipsychotic agent

DESCRIPTION AND COMPOSITION

100 mg tablet: Each tablet contains 25 mg clozapine, 25 mg meprobamate and 50 mg hydrochloride.

25 mg tablet: Each tablet contains 100 mg clozapine.

Pharmaceutical form

Tablets. The scored tablets can be divided into equal halves.

Active substance

Clozapine

Certain dosage strengths may not be available in all countries.

Active moiety

Clozapine

Excipients

LeponeX tablets: magnesium stearate; silica, colloidal anhydrous; povidone; talc; maize starch; lactose monohydrate. Pharmaceutical formulations may vary between countries.

INDICATIONS

- **Treatment-resistant schizophrenia**

LeponeX is indicated in patients with treatment-resistant schizophrenia, i.e. patients with schizophrenia who are non-responsive to or intolerant of classic antipsychotics.

Non-responsiveness is defined as a lack of satisfactory clinical improvement despite the use of adequate doses of at least two marketed antipsychotics prescribed for adequate durations.

Intolerance is defined as the impossibility of achieving adequate clinical benefit with classic antipsychotics because of severe and untreatable neurological adverse reactions (extrapyramidal side effects or tardive dyskinesia).

- **Risk of recurrent suicidal behavior**

LeponeX is indicated for reducing the risk of recurrent suicidal behavior in patients with schizophrenia or schizoaffective disorder who are judged to be at chronic risk of recurrent suicidal behavior, based on history and recent clinical state. Suicidal behavior refers to actions by a patient that put him/herself at high risk for death.

DOSE AND ADMINISTRATION

Dosage Information

The dosage must be adjusted individually. For each patient the lowest effective dose should be used. Cautious titration and a divided dosage schedule is necessary to minimize the risks of hypotension, seizure, and sedation.

Initiation of LeponeX treatment must be restricted to those patients with a WBC count $\geq 3500/\text{mm}^3$ ($\geq 3.5 \times 10^9/\text{L}$) and ANC $\geq 2000/\text{mm}^3$ ($\geq 2.0 \times 10^9/\text{L}$), and within standardized normal limits.

Dose adjustment is indicated in patients who are also receiving medicinal products that have pharmacokinetic interactions with clozapine, such as benzodiazepines or selective serotonin reuptake inhibitors (see section INTERACTIONS).

Method of Administration

LeponeX is administered orally.

Switching from a previous antipsychotic therapy to LeponeX

It is generally recommended that LeponeX should not be used in combination with other antipsychotics. When LeponeX therapy is to be initiated in a patient undergoing oral antipsychotic therapy, it is recommended that the dosage of other antipsychotics be reduced or be profound and may lead to cardiac and/or respiratory arrest in some circumstances. The prescribing physician should judge whether or not to discontinue the other antipsychotic therapy before initiating treatment with LeponeX.

Treatment resistant schizophrenia

Starting therapy

LeponeX treatment should be started with 12.5 mg (half a 25 mg tablet) once or twice on the first day, followed by one or two 25 mg tablets on the second day. If well tolerated, the daily dose may then be increased slowly in increments of 25 mg to 50 mg in order to achieve a dose level of up to 300 mg/day. Thereafter, if required, it may be increased; the daily dose may be further increased in increments of 50 mg to 100 mg at half-weekly or, preferably, weekly intervals.

Therapeutic dose range

In most patients, antipsychotic efficacy can be expected with 300 to 450 mg/day given in divided doses. Some patients may be treated with lower doses, and some patients may require doses up to 600 mg/day. The total daily dose may be divided unevenly, with the larger portion being taken at bedtime.

Maximum dose

To obtain full therapeutic benefit, a few patients may require larger doses, in which case judicious increments (not exceeding 100 mg) are permissible up to 900 mg/day. However, the possibility of increased adverse reactions (in particular seizures) occurring at doses over 450 mg/day must be borne in mind.

Maintenance dose

Long-term neuroleptic therapeutic benefit, many patients can be maintained effectively on lower doses. Careful downward titration is therefore recommended. Treatment should be maintained for at least 6 months. If the daily dose does not exceed 200 mg, once daily administration in evening may be appropriate.

Ending therapy

In the event of planned termination of LeponeX therapy, a gradual reduction in dose over a 1- to 2-week period is recommended. If abrupt discontinuation is necessary (e.g. because of leucopenia), the patient should be treated with a second antipsychotic agent. In patients with symptoms and symptoms related to cholinergic rebound (see section WARNINGS AND PRECAUTIONS).

Restarting therapy

In patients in whom the interval since the last dose of LeponeX exceeds 2 days, treatment should be re-initiated with 12.5 mg (half a 25-mg tablet) once on the first day. If this dose is well tolerated, it may be feasible to titrate the dose to the therapeutic level more quickly than is recommended for initial treatment. However, in any patient who has previously experienced respiratory or cardiac arrest with initial dosing (see section WARNINGS AND PRECAUTIONS), but was then able to be successfully titrated to a therapeutic dose, titration should be done with extreme caution.

WARNINGS AND PRECAUTIONS

Special precautionary measure

Agranulocytosis

Because of the association of LeponeX with agranulocytosis, the following precautionary measures are mandatory:

- Drugs known to have a substantial potential to depress bone marrow function should not be used concurrently with LeponeX.
- In addition, the concomitant use of long-acting depot antipsychotics should be avoided because of the impossibility of removing these medications, which may be potentially myelosuppressive, from the body rapidly in situations where this may be required, e.g. agranulocytopenia.
- Patients with a history of primary bone marrow disorders may be at increased risk of agranulocytosis and therefore should be carefully reviewed by a haematologist prior to starting LeponeX.
- Patients who have low white blood cell (WBC) counts because of benign ethnic neutropenia should be given special consideration and should be started on LeponeX under the supervision of a haematologist. LeponeX must be dispensed under strict medical supervision in accordance with official recommendations.

White Blood Cell (WBC) counts and Absolute Neutrophil Count (ANC) monitoring

White blood cell count (WBC) and differential blood counts must be performed within 10 days prior to starting LeponeX treatment to ensure that only patients with normal leukocyte (WBC $\geq 3500/\text{mm}^3$ ($\geq 3.5 \times 10^9/\text{L}$) and absolute neutrophil counts (ANC $\geq 2000/\text{mm}^3$ ($\geq 2.0 \times 10^9/\text{L}$)) will receive LeponeX. After the start of LeponeX treatment, regular WBC and ANC counts must be monitored regularly for 18 weeks and thereafter at least every four weeks throughout treatment and for 4 weeks after complete discontinuation of LeponeX. Prescribing physicians should comply fully with the required safety measures. At each consultation, a patient receiving LeponeX should contact the treating physician immediately if any kind of infection begins to develop. Particular attention should be paid to flu-like complaints such as fever or sore throat and to other evidence of infection, which may be indicative of neutropenia. A differential blood count must be performed immediately if any symptoms or signs of an infection occur.

Low WBC count and/or ANC

If during the first 18 weeks of LeponeX therapy, the WBC count falls to between 3500/ mm^3 and 3000/ mm^3 and/or the ANC falls to between 2000/ mm^3 and 1500/ mm^3 , haematological evaluations must be performed at the least twice weekly for 4 weeks or longer, until the WBC count has returned to $\geq 3000/\text{mm}^3$ and/or the ANC falls to between 1500/ mm^3 and 1000/ mm^3 .

In addition, if, during LeponeX therapy, the WBC count is found to have dropped by a substantial amount from baseline, a repeat WBC count and a differential blood count should be performed. A substantial drop is defined as a single drop of 3000/ mm^3 or more, or a cumulative drop of 3000/ mm^3 or more within three weeks. Immediate discontinuation of LeponeX is mandatory if the WBC count is less than 3000/ mm^3 or the ANC is less than 1500/ mm^3 during the first 18 weeks of therapy, or if the WBC count is less than 2500/ mm^3 or the ANC is less than 1000/ mm^3 after the first 18 weeks of therapy. WBC counts and differential blood counts should then be performed daily and patients should be carefully monitored for flu-like symptoms (fever, chills, myalgia, malaise, sore throat) and/or disorientation. If during LeponeX, haematological evaluation is required until haematological recovery has occurred.

If LeponeX has been withdrawn and WBC count falls further to below 2000/ mm^3 and/or the ANC falls to below 1000/ mm^3 , treatment with LeponeX of this condition must be guided by an experienced haematologist. If possible, the patient should be referred to a specialised haematological unit, where protective isolation and the administration of G-CSF (granulocyte-macrophage colony stimulating factor) or discontinuation of cyclo colony stimulating factor) may be indicated. It is recommended that the colony stimulating factor therapy be discontinued when the neutrophil count has returned to a level above 1000/ mm^3 .

Patients in whom sepsis has been documented as a result of white blood cell deficiencies (see above) must not be re-exposed to LeponeX.

It is recommended that the haematological values be confirmed by performing two blood counts on two consecutive days. However, LeponeX should be discontinued after the first blood count.

In the event of interruption of therapy for non-haematological reasons

Patients who have been on LeponeX for more than 18 weeks and have had their treatment interrupted for more than 3 days but less than 4 weeks should have their WBC count and ANC monitored weekly for an additional 6 weeks. If no haematological abnormality occurs, monitoring at intervals not exceeding 4 weeks may be resumed. If LeponeX treatment has been interrupted for 4 weeks or longer, weekly monitoring is required for the next 18 weeks of treatment (see section DOSAGE AND ADMINISTRATION).

Other precautions

Eosinophilia

In the event of eosinophilia, discontinuation of LeponeX is recommended if the eosinophil count rises above 3000/ mm^3 and/or the eosinophil count is re-started only after the eosinophil count has fallen below 1000/ mm^3 .

Thrombocytopenia

In the event of thrombocytopenia, discontinuation of LeponeX is recommended if the platelet count falls below 50,000/ mm^3 .

Cardiovascular disorders

In patients suffering from cardiovascular disorders (note: severe cardiovascular disorders are contraindications) the initial dose should be 12.5 mg given once on the first day, and dosage increase should be slow and in small increments.

Renal impairment

In patients with mild to moderate renal impairment the initial dose should be 12.5 mg given once on the first day, and dosage increase should be slow and in small increments.

Hepatic impairment

Patients with hepatic impairment should receive LeponeX with caution and close monitoring of liver function tests (see section WARNINGS AND PRECAUTIONS).

Pediatrics

No pediatric studies have been performed. The safety and efficacy of LeponeX in children and adolescents have not been established.

Patients 60 years of age and older

It is recommended that treatment in patients 60 years and older is initiated with a lower dose than in younger patients. The first day with subsequent dose increments restricted to 25 mg/day.

be discontinued. Later in treatment, the same signs and symptoms may be very rarely occur and may be linked to cardiomyopathy. Further investigation should be performed if the diagnosis is confirmed. In the presence of high fever, the possibility of **neuroleptic malignant syndrome (NMS)** must be considered. If the diagnosis of NMS is confirmed, LeponeX should be discontinued immediately and appropriate measures should be administered.

Myocardial infarction

In addition, there has been postmarketing reports of myocardial infarction which may be fatal. Chest pain and electrocardiogram (ECG) abnormalities have also been reported. The majority of these cases because of serious pre-existing cardiac disease and plausible alternative causes.

QT interval prolongation

As with other antipsychotics, caution is advised in patients with known cardiovascular disease or family history of QT prolongation. As with other antipsychotics, caution should be exercised when LeponeX is prescribed with medicines known to increase the QTc interval.

Cerebrovascular adverse events

An increased risk of cerebrovascular adverse events has been seen in the dementia population with some atypical antipsychotics. The mechanism for this increased risk is not known. An increased risk cannot be excluded for other antipsychotics or other patient populations. LeponeX should be used with caution in patients with risk factors for stroke.

Renal impairment

In patients suffering from mild to moderate renal impairment, an initial dose of 12.5 mg/day (half a 25 mg tablet) is recommended (see section DOSAGE AND ADMINISTRATION).

Patients aged 60 years and older

It is recommended that treatment be initiated at a particularly low dose (12.5 mg given once on the first day) and subsequent dose increments be restricted to 25 mg/day.

Metabolic changes

Atypical antipsychotics drugs, including LeponeX, have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These metabolic changes may include hyperglycemia, dyslipidemia, and body weight gain. While atypical antipsychotic drugs may produce some metabolic changes, each drug in the class has its own specific risk profile.

Hyperglycemia

Concomitant administration of substances known to induce cytochrome P450 enzymes may decrease the plasma levels of clozapine.

Patients aged 60 years and older with Dementia-related Psychosis

In patients aged 60 years and older with dementia-related psychosis, the safety and efficacy of clozapine has not been established. Observational studies suggest that patients aged 60 years and older with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. In the published literature, risk factors that may predispose to this increased risk in this patient population when treated with antipsychotics include sedation, the presence of cardiac conditions (e.g. cardiac arrhythmias) or pulmonary conditions (e.g. pneumonia, with or without aspiration). LeponeX should be used with caution in patients aged 60 years and older with dementia.

Rebound, withdrawal effects

If abrupt discontinuation of LeponeX is necessary (e.g. because of leucopenia), the patient should be carefully observed for the recurrence of psychotic symptoms and symptoms related to cholinergic rebound such as profuse sweating, headache, nausea, vomiting and diarrhoea.

Driving and using machines

The adverse effects of clozapine may lead to cause sedation and lower the seizure threshold, activities such as driving or operating machinery should be avoided, especially during the initial weeks of treatment.

ADVERSE DRUG REACTIONS

Summary of the safety profile

The adverse effects of clozapine are most often predictable based on its pharmacological properties with the exception of agranulocytosis (see section WARNINGS AND PRECAUTIONS).

The most serious adverse reactions experienced with clozapine are agranulocytosis, seizure, cardiovascular effects and fever (see section WARNINGS AND PRECAUTIONS). The most common side effects include constipation, sedation, dizziness, tachycardia, constipation, and hypersalivation.

Data from the clinical trials experience showed that a varying proportion of clozapine-treated patients (from 7.1 to 15.6%) were discontinued on an average of 7.2 days after those that could be reasonably attributed to clozapine. The more common events considered to be causes of discontinuation were leucopenia; somnolence; dizziness (excluding vertigo); and psychotic disorder.

Adverse events are listed by MedDRA system organ class (see Table 3). Within each system organ class, the adverse reactions are ranked by frequency, using the following convention: Very common ($\geq 1/10$), common ($\geq 1/100$, $< 1/10$), uncommon ($\geq 1/1,000$, $< 1/100$), rare ($\geq 1/10,000$, $< 1/1,000$), very rare ($< 1/10,000$). Only those pharmacological actions resembling those of clozapine, but which are isolated reports. Within each frequency grouping, adverse drug reactions are presented in order of decreasing seriousness.

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Data from the clinical trials experience showed that a varying proportion of clozapine-treated patients (from 7.1 to 15.6%) were discontinued on an average of 7.2 days after those that could be reasonably attributed to clozapine. The more common events considered to be causes of discontinuation were leucopenia; somnolence; dizziness (excluding vertigo); and psychotic disorder.

Adverse events are listed by MedDRA system organ class (see Table 3). Within each system organ class, the adverse reactions are ranked by frequency, using the following convention: Very common ($\geq 1/10$), common ($\geq 1/100$, $< 1/10$), uncommon ($\geq 1/1,000$, $< 1/100$), rare ($\geq 1/10,000$, $< 1/1,000$), very rare ($< 1/10,000$). Only those pharmacological actions resembling those of clozapine, but which are isolated reports. Within each frequency grouping, adverse drug reactions are presented in order of decreasing seriousness.

ADVERSE DRUG REACTIONS

Summary of the safety profile

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