

Leponez can 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 leukopenia, neutropenia or agranulocytosis (white blood cell count [WBC] $\geq 3500/\text{mm}^3$ [$\geq 3.5 \times 10^9/\text{L}$] and absolute neutrophil counts [ANC] $\geq 2000/\text{mm}^3$ [$\geq 2.0 \times 10^9/\text{L}$]).

and 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 must continue throughout treatment and for 4 weeks after complete discontinuation of Leponez (see section WARNINGS AND PRECAUTIONS).

Prescribing physicians should comply fully with the required safety measures. At each consultation, a patient receiving Leponez 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, sore throat and to other evidence of infection, which may be indicative of neutropenia (see section WARNINGS AND PRECAUTIONS).

Leponez must be dispensed under strict medical supervision in accordance with the recommendations (see section WARNINGS AND PRECAUTIONS).

Leponez®

Antipsychotic agent

DESCRIPTION AND COMPOSITION

25 mg tablet: Each tablet contains 25 mg of clozapine, 100 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

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

INDICATIONS

Treatment-resistant schizophrenia
Leponez 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 adequate doses of severe and/or intolerable treatable neurological adverse reactions (extrapyramidal side effects or tardive dyskinesia).

- Risk of recurrent suicidal behavior**
Leponez 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 suicidal behavior. Patients who are judged to be at chronic risk of suicidal behavior should be monitored 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 are necessary to minimize the risks of hypotension, seizure, and sedation.

Initiation of Leponez 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 with 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

Leponez is administered orally.

Switching from a previous antipsychotic therapy to Leponez

It is generally recommended that Leponez should not be used in combination with other antipsychotics. When Leponez therapy is to be initiated in a patient undergoing oral antipsychotic therapy, it is recommended that the dosage of other antipsychotics be reduced or discontinued by gradually tapering it downwards. Based on clinical circumstances, the prescribing physician should judge whether or not to discontinue the other antipsychotic therapy before initiating treatment with Leponez.

Treatment-resistant schizophrenia

Starting therapy
Leponez 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 within 2 weeks. Thereafter, if required, 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

After the initial 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 the evening may be appropriate.

Ending Therapy

In the event of planned termination of Leponez 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 carefully monitored for the appearance of psychotic symptoms and signs and symptoms related to cholinergic rebound (see section WARNINGS AND PRECAUTIONS).

Restarting therapy

In patients in whom the interval since the last dose of Leponez exceeds 2 days, treatment should be re-initiated with 12.5 mg (half a 25-mg tablet) given once or twice 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, re-titration should be done with extreme caution.

Reducing the risk of suicidal behavior in schizophrenia and schizoaffective disorder

The dosage and administration recommendations described in the preceding section (DOSAGE AND ADMINISTRATION) regarding the use of Leponez in patients with treatment-resistant schizophrenia should also be followed when treating patients with schizophrenia or schizoaffective disorder at risk for recurrent suicidal behavior.

A course of treatment with Leponez of at least two years is recommended in order to maintain the reduction of risk for suicidal behavior. It is recommended that the patient's risk of suicidal behaviour be reassessed after two years of treatment and that thereafter the decision to continue treatment with Leponez be revisited at regular intervals, based on thorough assessments of patient's risk for suicidal behavior during treatment.

Special populations

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 Leponez with caution along with regular monitoring of liver function tests (see section WARNINGS AND PRECAUTIONS).

Pediatrics

No pediatric studies have been performed. The safety and efficacy of Leponez 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 at a particularly low dose, with the peak incidence with the first subsequent dose increments restricted to 25 mg/day.

be discontinued. Later in treatment, the same signs and symptoms may be very rarely observed and may be linked to cardiomyopathy. Further clinical studies are being performed and if the diagnosis is confirmed, the treatment should be stopped unless the benefit clearly outweighs the risk to the patient.

Myocardial infarction

In addition, there have been postmarketing reports of myocardial infarction which may be fatal. Cause assessment is difficult as 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 Leponez 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. Leponez 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 antipsychotic drugs, including Leponez, 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

On clinical studies, severe hyperglycemia, sometimes leading to ketoacidosis/hyperosmolar coma, has been reported during Leponez treatment in patients with no prior history of hyperglycemia. While a causal relationship to Leponez use has not been definitively established, glucose levels returning to normal in most patients after discontinuation of Leponez, and re-challenge produced a recurrence of hyperglycemia in a few cases. The effect of Leponez on glucose metabolism in patients with diabetes has not been studied. Impaired glucose tolerance, severe hyperglycemia, ketoacidosis, and hyperosmolar coma have been reported in patients with no prior history of hyperglycemia. Patients with an established diagnosis of diabetes mellitus who are treated with atypical antipsychotics should be monitored for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family history of diabetes) who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Exacerbation should be considered in patients receiving Leponez who develop symptoms of hyperglycemia, such as polydipsia, polyuria, polyphagia or weakness. Patients who develop symptoms of hyperglycemia during treatment with atypical antipsychotics should undergo fasting blood glucose testing. In some cases, hyperglycemia has resolved when the atypical antipsychotics was discontinued; however, some patients required continuation of antidiabetic treatment despite discontinuation of the suspect drug. In patients with significant treatment-emergent hyperglycemia, discontinuation of Leponez should be considered.

Rebound, withdrawal effects

If abrupt discontinuation of Leponez 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

Patients should be warned of the risk 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 are constipation, sedation, dizziness, tachycardia, constipation, and hypersalivation.

Dislipidemia

Undesirable alterations in lipids have been observed in patients treated with atypical antipsychotics. In clinical studies, the following changes including baseline and periodic follow-up lipid evaluations in patients using clozapine, is recommended.

Thrombocytopenia

In the event of thrombocytopenia, discontinuation of Leponez is recommended if the platelet count falls below 50,000/mm³.

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 (see section DOSAGE AND ADMINISTRATION).

Orthostatic hypotension, with or without syncope, can occur during Leponez treatment. Rarely (about one per 3000 Leponez-treated patients), collapse can be profound and may be accompanied by cardiac and/or respiratory arrest. Such events are more likely to occur during initial titration in association with rapid dose escalation; on very rare occasions they occurred even after the first dose. Therefore, patients commencing Leponez treatment require close medical supervision. Tachycardia persists at rest, accompanied by autonomic shortness of breath or signs and symptoms of heart failure, may rarely occur during the first month of treatment and very rarely thereafter. The occurrence of these signs and symptoms necessitates an urgent follow-up (see section WARNINGS AND PRECAUTIONS).

Anticholinergic effects

Clozapine exerts anticholinergic activity, which may produce undesirable effects throughout the body. Careful supervision is indicated in the presence of prostatic enlargement and narrow-angle glaucoma. Probably on account of its anticholinergic properties, Leponez has been associated with varying degrees of impairment of intestinal peristalsis, ranging from constipation to intestinal obstruction, fecal impaction and paralytic ileus (see section ADVERSE DRUG REACTIONS). On rare occasions these cases have proved fatal.

Fever

During Leponez therapy, patients may experience transient febrile reactions (fever) with the peak incidence with the first 3 weeks of treatment. This fever is generally benign. Occasionally, it

may be associated with an increase or decrease in the WBC count. Patients with fever should be carefully evaluated to rule out the possibility of an underlying infection or the development of agranulocytosis. In the presence of high fever, the possibility of neuroleptic malignant syndrome (NMS) must be considered. If the diagnosis of NMS is confirmed, Leponez should be discontinued immediately and appropriate medical measures should be administered.

Special populations

Hepatic impairment

Patients with stable pre-existing liver disorders may receive Leponez, but must undergo regular liver function tests. Such tests should be performed immediately in patients who develop symptoms of possible liver dysfunction such as nausea, vomiting and/or anorexia during Leponez treatment. If the elevation of the values is clinically relevant or if symptoms of jaundice occur, treatment with Leponez must be discontinued. It may be resumed (see section WARNINGS AND ADMINISTRATION) only when the results of liver function tests are normal.

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

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Metabolic changes

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