

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 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.

CONTRAINDICATIONS

- Known hypersensitivity to clozapine or to any of the excipients of clozapine.
- Patients unable to undergo regular blood tests.
- History of toxic or idiosyncratic granulocytopenia/agranulocytosis (with the exception of granulocytopenia/agranulocytosis from previous infectious diseases).
- Impaired bone marrow function.
- Uncontrolled epilepsy.
- Alcoholic and other toxic psychoses, drug intoxication, comatose states.
- Circulatory collapse and/or CNS depression of any cause.
- Severe renal or cardiac disorders (e.g. myocarditis).
- Active liver disease associated with nausea, anorexia or jaundice; progressive liver disease, hepatic failure.
- Parkinson's disease.

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 achieving a 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.

Low WBC count and/or ANC
If during the first 18 weeks of Leponez 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 least once a week.

After 18 weeks of Leponez therapy, haematological evaluations should be performed at least twice weekly if the WBC count falls to between 3000/ mm^3 and 2500/ mm^3 and/or the ANC falls to between 1500/ mm^3 and 1000/ mm^3 .

In addition, if, during Leponez 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 Leponez 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 (e.g. fever, sore throat, myalgia, malaise) or signs of infection. Following discontinuation of Leponez, haematological evaluation is required until haematological recovery has occurred.

If Leponez has been withdrawn and WBC count falls further to below 2000/ mm^3 and/or the ANC falls below 1000/ mm^3 , the patient should be treated with 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 colony-stimulating factor) or G-CSF (granulocyte 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 .

Patient who have had a substantial drop in WBC count as a result of white blood cell deficiencies (see above) must not be re-exposed to Leponez.

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.

Table 1: Blood monitoring during the first 18 weeks of Leponez therapy

onox therapy			
d cell count		Action required	
WBC/mm ³ (/L)	ANC/mm ³ (/L)		
≥3500 (≥3.5 × 10 ⁹)	≥2000 (≥2.0 × 10 ⁹)	Continue treatment.	Leponez
Between ≥3000 and <3500 (≥3.0 × 10 ⁹ and <3.5 × 10 ⁹)	Between ≥1500 and <2000 (≥1.5 × 10 ⁹ and <2.0 × 10 ⁹)	Continue treatment, sample blood twice weekly until counts stabilize or increase.	Leponez
<3000 (<3.0 × 10 ⁹)	<1500 (<1.5 × 10 ⁹)	Immediately stop Leponez treatment, sample blood daily until hematological abnormality is resolved, monitor for infection. Do not re-expose the patient.	

may very rarely investigate the treatment the risk to

Myocardial infarction
In addition to the major risk of disease and

QT interval
As with other drugs, the risk of QT interval prolongation is increased. As with other drugs, the risk of QT interval prolongation is increased.

Cerebrovascular stroke
An increase in the incidence of cerebrovascular stroke has been reported in patients receiving Leponez. The mechanism is not clear. Leponez should be used with caution in patients with a history of stroke.

Risk of infection
Since Leponez is an immunosuppressant, the risk of infection is increased.

Table 2: Blood monitoring after 18 weeks of Leponez therapy

Blood cell count		Action required	Metabolic Atypical with metabolic ascular risk dyslipidemia may produce own specific
WBC/ mm^3 (/L)	ANC/ mm^3 (/L)		Hyperglycemia On rare occasions toxicity associated treatment causal relationship glucose level of Leponez in a few cases patients with diabetes, severe have been Patients who started on worsening mellitus (e.g. treatment
≥ 3000 ($\geq 3.0 \times 10^9$)	≥ 1500 ($\geq 1.5 \times 10^9$)	Continue Leponez treatment.	
Between ≥ 2500 and < 3000 ($\geq 2.5 \times 10^9$ and $< 3.0 \times 10^9$)	Between ≥ 1000 and < 1500 ($\geq 1.0 \times 10^9$ and $< 1.5 \times 10^9$)	Continue Leponez treatment, sample blood twice weekly until counts stabilize or increase.	
< 2500 ($< 2.5 \times 10^9$)	< 1000 ($< 1.0 \times 10^9$)	Immediately stop Leponez treatment, sample blood daily until hematological abnormality is resolved, monitor for infection. Do not re-expose the patient.	

In the event of interruption of therapy for non-haematological reasons
Patients who have been on Leponez 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 hematology abnormality occurs, monitoring at intervals not exceeding 4 weeks may be resumed. If Leponez 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 Leponez is recommended if the eosinophil count rises above 3000/ mm^3 . Therapy should be re-started only after the eosinophil count has fallen below 1000/ mm^3 .

Thrombocytopenia
In the event of thrombocytopenia, discontinuation of Leponez 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 (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 full medical evaluation. The blood pressure should be monitored with the patient lying down. If the diagnosis of myocarditis is confirmed, Leponez should be discontinued after the first blood count.

be discontinued. Later in treatment, the same signs and symptoms may be very rarely occur and may be linked to cardiomyopathy. Further clinical studies are required to clarify the relationship between Leponez 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 Leponez should be monitored regularly for signs of 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 antipsychotic 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.

There is a risk of altering the metabolic balance resulting in slight impairment of glucose homeostasis and a possibility of unmasking a pre-diabetic condition or aggravating pre-existing diabetes.

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
The adverse effects of Leponez 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 are 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 only 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 drug reactions (ADRs) 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 ($< 1/10,000$).

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Common Leukopenia/decreased WBC/neutropenia, eosinophilia, leukocytosis

Uncommon Agranulocytosis

Rare Anaemia

Very rare Thrombocytopenia, thrombocytemia

Common Metabolism and nutrition disorders

Very rare Weight gain

Rare Diabetes aggravated, impaired glucose tolerance, new onset diabetes

Very rare Hyperosmolar coma, ketoacidosis, severe hyperglycemia, hypercholesterolemia, hypertriglyceridemia

Common Benign hyperthermia, disturbances in sweating/temperature regulation, fatigue

Very rare Psychiatric disorders

Common Dysarthria

Uncommon Dysphemia

Rare Agitation, restlessness

Common Nervous system disorders

Very rare Drowsiness/sedation, dizziness

Common Seizures/convulsions/myoclonic jerks, extrapyramidal symptoms, akathisia, tremor, rigidity, headache,

Uncommon Neuroleptic malignant syndrome

Rare Confusion, delirium

Very rare Tardive dyskinesia, obsessive compulsive symptoms

Common Eye disorders

Uncommon Blurred vision

Common Cardiac disorders