

CARDIOL®

Cardvedilol

ACTION

Cardiac agent, non-selective beta- and alpha-1-receptor blocker.

INDICATIONS

Essential hypertension:

Cardiol 25 mg is indicated for the treatment of essential (non-organically determined) hypertension.

Chronic stable angina pectoris:

Cardiol 25 mg is indicated for the treatment of chronic stable angina pectoris.

Chronic heart failure:

Cardiol 6.25 mg and 25 mg are indicated for the treatment of stable chronic heart failure of any degree of severity, whether ischemic or non-ischemic. In addition to treatment with diuretics, ACE inhibitors and oxygen therapy.

Patients to be treated with the drug should have a reduced left-ventricular ejection fraction and should be clinically stable (no changes in NYHA class) for at least 4 weeks before admission to hospital because of heart failure for approximately 4 weeks before the start of treatment with Cardiol.

DOSE AND ADMINISTRATION

Cardiol dose will be determined by your physician. Please observe the instructions for use, as otherwise Cardiol may not work as it should.

What dose of Cardiol should be used, and how often?

For hypertension Treatment should be started with 1 tablet of Cardiol 25 mg (12.5 mg cardvedilol) per day for the first two days. Treatment can then be continued with 1 tablet of Cardiol 25 mg (25 mg cardvedilol) per day. A daily dose of 1 tablet of Cardiol 25 mg is generally sufficient.

Only the physician can decide whether the dose should be increased. Where the effect is inadequate, the dose can be increased after a minimum of 14 days to 1 tablet of Cardiol 25 mg (25 mg cardvedilol) twice daily. An individual dose of 25 mg or a daily dose of 50 mg cardvedilol should not be exceeded.

Dosage in elderly patients: A daily dose of 1 tablet of Cardiol 25 mg (25 mg cardvedilol) is also recommended for elderly patients at the start of treatment. In some patients this dose has been found to bring about satisfactory fall in blood pressure even during long-term treatment. Where the effect is inadequate, the dose can be increased at intervals of at least 14 days up to maximum levels (individual dose of 25 mg or daily dose of 50 mg cardvedilol).

Chronic stable angina pectoris:

Treatment should be started with 1 tablet of Cardiol 25 mg (12.5 mg cardvedilol) twice daily at each of the first two days and continued with 1 tablet of Cardiol 25 mg (25 mg cardvedilol) twice daily. A dose of 1 tablet of Cardiol 25 mg (25 mg cardvedilol) twice daily is generally sufficient.

Where the effect is inadequate, the dose can be increased after a minimum of 14 days to 2 tablets of Cardiol 25 mg (50 mg cardvedilol) twice daily.

Dosage in elderly patients: In elderly patients on long-term therapy a daily 1 tablet of Cardiol 25 mg (25 mg cardvedilol) twice daily should not be exceeded.

Chronic heart failure:

Cardiol should always be used in combination with the standard treatment of heart failure, which consists of diuretics, digitalis, ACE inhibitors, and/or other vasodilators.

Treatment with Cardiol must not be started until the patient has been stabilized on the conventional basic therapy for heart failure, i.e. the dosage of this standard therapy must have been stable for at least 4 weeks prior to the start of treatment with Cardiol.

Only physicians with specialist qualifications in internal medicine and/or cardiology may use Cardiol in patients with chronic heart failure.

The recommended dose at the beginning of treatment is 3.125 mg cardvedilol twice daily for 2 weeks. If this dose is tolerated it should be increased at intervals of at least 2 weeks to 6.25 mg cardvedilol twice daily, 12.5 mg cardvedilol twice daily, and 25 mg cardvedilol twice daily. The dose should be titrated in this way up to the highest dose tolerated by the patient. Divisible tablets (intermediate content) of Cardiol 6.25 mg and Cardiol 25 mg are available for the adjustment of therapy.

The maintenance dose must be established for each patient individually with strict medical monitoring. Long-term treatment should proceed with the highest tolerated dose. The minimal effective dose is 6.25 mg cardvedilol twice daily. The maximum dose is generally 25 mg cardvedilol twice daily. In patients weighing over 85 kg with mild to moderate chronic heart failure, a cautious attempt may be made to increase the dose up to a maximum of 50 mg cardvedilol twice daily, provided that the patient is closely monitored.

In patients weighing less than 85 kg the maximum dose should not exceed 25 mg cardvedilol twice daily. In patients weighing over 85 kg a cautious attempt may be made to increase the dose up to a maximum of 50 mg cardvedilol twice daily, provided that the patient is closely monitored.

The dose of Cardiol may be increased only if the patient's clinical condition is satisfactory and stable, i.e. if there are no signs of worsening of the heart failure and no clinically relevant side effects, especially ones caused by vasodilatation (e.g. a decrease in blood pressure or dizziness). Patients must therefore be checked for such symptoms, in particular, before each dose increment.

Forecasting and regular medical checks (e.g. of renal function, body weight, blood pressure, heart rate, and heart rhythm) must be carried out, particularly during the dose titration period (increase of the dose to the maintenance level). A deterioration in the symptoms of heart failure and side effects due to the vasodilating action of Cardiol often occur for a short time only and should be treated by temporarily reducing the dose of the product or if necessary by suspending treatment. However, if the symptoms are caused primarily by fluid retention, the dose of diuretic can be increased temporarily. An exaggerated fall in blood pressure may occur during the dose titration period. In patients with severe heart failure (NYHA class II or III) and on high dose diuretic therapy. Therefore, in order to prevent an uncontrolled fall in blood pressure, such patients should remain in hospital supervision for about 2 hours after the first dose of Cardiol and after any dose increment.

Where treatment with Cardiol has been interrupted for more than two weeks it should be resumed with any dose increment twice daily for two weeks followed by gradual dose titration as described above.

Dosage in patients with impaired renal function: The appropriate dose must be established for each patient individually. On the basis of the pharmacokinetic parameters of cardvedilol in heart failure alone, no dosage adjustment of Cardiol is required.

Use in other patient categories:

Place the tablet on a hard surface and press down with one thumb on the left of the dividing groove and the other thumb on the right. Do not use a knife or sharp object to cut the tablet.

How and when should Cardiol be used?

Cardiol should be swallowed whole with sufficient liquid. Unless otherwise prescribed the drug should generally be taken in the morning or once a tablet in the evening. It is recommended that Cardiol be taken with meals in order to reduce the absorption of the active ingredient and thus possibly to reduce the frequency of side effects.

For how long should Cardiol be used?

The duration of treatment will be determined by your physician. Treatment with Cardiol is generally long-term therapy and if possible should not be stopped abruptly, but rather tapered off over 1-2 weeks. In order to prevent any exacerbation of angina pectoris, antianginal therapy should be continued for a period of 2 weeks after this tapering-off period.

CONTRAINDICATIONS

When should you not use Cardiol?

- in patients hypersensitive to the active ingredient cardvedilol or to other ingredients of the product,
- in cardiac shock,
- in pronounced myocardial insufficiency (decompensated heart failure),
- in acute pulmonary embolism,
- in the presence of pronounced low blood pressure (systolic pressure < 90 mmHg),
- in bradycardia (patients who are receiving Cardiol for heart failure should have a resting heart rate of at least 65 beats/min),
- in pronounced disturbances of the heart rhythm (e.g. second or third degree atrioventricular block),
- in cases of sick sinus syndrome or sinoatrial block (exception: pacemaker therapy),
- in cor pulmonale (heart failure due to respiratory disease),
- in bronchial asthma or other respiratory diseases with a bronchospastic component (e.g. chronic obstructive lung disease),
- in the presence of an untreated pheochromocytoma (tumour of adrenal medulla),
- in the presence of severely impaired liver functions in metabolic acidosis,
- in patients currently receiving MAO-A inhibitors (exception: MAO-B inhibitors),
- in patients receiving simultaneous intravenous treatment with verapamil, diltiazem, or other antiarrhythmic drugs.

SPECIAL WARNINGS

Cardiol should not be used in the following situations, as insufficient clinical data are available (tablets or organically determined (secondary) hypertension, stimulus conduction disturbances in the heart (complete bundle-branch block), tendency to a fall in blood pressure on changing position (orthostatic hypotension), acute inflammatory heart disease, hemodynamically relevant infarction in the heart, ventricular and stages of peripheral vascular disease, severe renal insufficiency, and simultaneous treatment with certain antiarrhythmics (alpha-1-receptor antagonists or alpha-1-receptor agonists).

When does the use of Cardiol carry particular care?

- Under all of the circumstances described below, you may take Cardiol only under certain conditions and only with particular care. Please refer to your physician for further information. These restrictions also apply if any of the circumstances described below applied to you previously. As only limited clinical experience is available on use of Cardiol in patients with unstable angina pectoris, its use in this condition carries particular care. Caution is required when Cardiol is used in patients with peripheral vascular disease, as beta-blocker can trigger or exacerbate the signs and symptoms of arterial blood flow disorders. Patients with angiospasm in fingers or toes (Raynaud's disease) may experience a worsening of symptoms. Patients with history of severe allergic reactions and/or in those receiving desensitization therapy, the use of beta-blockers calls for particular care because of the possibility that such hypersensitivity reactions may be intensified.
- In patients with a persistent or recurrent need for medical care with beta-blocking properties (such as Cardiol) should be used only after a careful consideration of risks and benefits.
- What must you be aware of in relation to pregnancy and breastfeeding? If insufficient data are available on use in pregnancy, Cardiol should be used in pregnancy only after a careful consideration of risks and benefits.

Cardiol and/or its metabolites pass into breast milk. Women therefore refrain from breastfeeding during treatment with Cardiol.

What needs to be noted in the case of children, adolescents, and the elderly?

Cardiol should not be used in children or juveniles under 18 years of age, as insufficient clinical data are available on its use in this age group. In the case of persons over 70 years old an exaggerated fall in blood pressure may occur after the first dose of Cardiol or after dose increments. Elderly patients therefore remain under medical supervision for about 2 hours after the first dose of Cardiol and after dose increments.

WARNINGS AND PRECAUTIONS FOR USE

What precautionary measures must be taken?

- Patients with a history of bradycardia (brachycardia) may be treated with beta-blockers only after effective alpha-1-receptor blockade. As no data are available on treatment with Cardiol in such situations, the drug should not be used if the presence of a brachycardia is suspected.
- In the event of a junctional escape rhythm of Cardiol and clonidine being used simultaneously, the clonidine must not be withdrawn until a few days after the end of the treatment with Cardiol, and then must be withdrawn gradually.

As the possibility of more frequent and/or more severe attacks of angina pectoris, and in rare instances of heart attacks, and also of abrupt transient peaks of blood pressure, cannot be ruled out in the event of a sudden withdrawal of Cardiol, particularly in patients with chronic stable angina pectoris and in patients with myocardial blood flow disturbances (locally determined heart failure), treatment with Cardiol should not be broken off abruptly. It is recommended that the dose be reduced gradually over 1-2 weeks. If necessary, simultaneous antianginal therapy may be given to prevent any deterioration of angina pectoris. An exaggerated fall in blood pressure may occur after the first dose of Cardiol or after dose increments, particularly in patients who have severe heart failure (NYHA class II) and salt and/or fluid deficiency (e.g. patients on high-dose diuretic therapy). But also in the elderly (70 years) and in persons whose blood pressure is already low (e.g. systolic pressure < 100 mmHg). Therefore, in order to prevent an exaggerated fall in blood pressure, such patients should remain under medical supervision for about 2 hours after the first dose of Cardiol and after any dose increments. Frequent and regular medical checks must be carried out, not only on renal functions, body weight, blood pressure, heart rate and cardiac rhythm, particularly during the dose titration period (increase in the maintenance level). Only physicians with specialist qualifications in internal medicine and/or cardiology may use Cardiol in patients with chronic heart failure.

Especially at the beginning of treatment, patients with heart failure may experience a deterioration in their symptoms. In particular increased fluid retention or oedema may occur, this, an increase in the dose of diuretic may be tried initially. Occasionally, however, it may be necessary to reduce the dose of Cardiol or to suspend treatment temporarily.

In patients with heart failure and low blood pressure (systolic pressure < 90 mmHg), treatment with Cardiol, a deterioration of renal function (ischemic renal disease), generalised vascular disease, or impaired renal function, a deterioration of renal function may occur during treatment with Cardiol, though this is usually reversible. The renal function of patients with these side effects must therefore be checked frequently during the dose titration phase of Cardiol therapy. In patients with renal function deterioration, the dose of Cardiol should be reduced or treatment stopped altogether. Cardiol can cause an appreciable increase in heart rate. As a rule the dose of Cardiol should be reduced if the heart rate falls below 55 beats/min. Cardiol should be used with caution in patients with aortic stenosis or aortic regurgitation because of the adverse effect on stimulus conduction from the atrium to the ventricle (AV conduction).

Administration of Cardiol simultaneously with calcium antagonists or antiarrhythmics calls for careful monitoring of blood pressure, heart rate, and cardiac rhythm (ECG required, especially in the case of verapamil or diltiazem), as it can lead to a greater decrease in blood pressure, a slow heart rate, and/or heart rhythm disturbances.

In connection with anaesthesia, it should be noted that the effects on heart function (negative inotropism) and the blood pressure-lowering action of Cardiol and of some anaesthetics and narcotics may cause myocardial position.

Particularly careful medical monitoring is required in diabetics with large fluctuations in blood glucose level, as the early warning signs and symptoms of an acute fall in blood glucose level (hypoglycaemia) may be masked or delayed. In patients who have heart failure and diabetes mellitus, the use of Cardiol may increase the risk of blood glucose fluctuations. The possibility of such patients must therefore be checked regularly at the beginning of treatment and after any change in the dose of Cardiol, and the hypoglycaemic therapy should be adjusted as required. Careful monitoring of blood glucose by a physician is also necessary in patients with heart failure and diabetes mellitus. In patients with symptoms of an overactive thyroid gland (hyperthyroidism), the possibility of a further drop in flow must be taken into account in patients who wear contact lenses.

What must you be aware of in relation to driving, operating machinery, or working without hand support? If necessary, medical checks should be performed on effect of Cardiol on patients who drive or operate machinery. Patients treated with the drug should have regular medical check-ups. Because of individually variable reactions (e.g. dizziness, tiredness), the ability to drive or operate machinery may be impaired. This applies particularly at the start of treatment, after dose increments, on changing products, and in combination with alcohol.

SIDE EFFECTS

Central nervous system: Dizziness, headache, and tiredness occur occasionally. These effects are usually mild and occur particularly at the start of treatment. Hallucinations, confusion, depression, sleep disturbances, and nightmares occur rarely. Disturbances occur only in patients with severe heart failure.

Cardiovascular system: Particularly after the first dose of Cardiol and after dose increments, though also on standing up after lying down (orthostasis), patients occasionally develop an excessive drop in blood pressure (hypotension) accompanied by symptoms of dizziness and/or weakness, and in rare instances transient loss of consciousness (syncope).

There have been occasional reports of slowing down of the pulse and rare reports of a sensation of coldness in the limbs. Exacerbation of symptoms in patients with intermittent claudication due to impaired blood flow in the legs and in patients with peripheral vascular disease (e.g. Raynaud's disease) may occur. In patients with a history of an overactive thyroid gland (hyperthyroidism), there have been occasional reports of slowing down of the pulse and rare reports of a sensation of coldness in the limbs. Exacerbation of symptoms in patients with intermittent claudication due to impaired blood flow in the legs and in patients with peripheral vascular disease (e.g. Raynaud's disease) may occur. In patients with a history of an overactive thyroid gland (hyperthyroidism), there have been occasional reports of slowing down of the pulse and rare reports of a sensation of coldness in the limbs.

Respiratory tract: Patients with Prinzmetal's angina may experience an exacerbation of symptoms. Total AV block or a block of the AV node (second or third degree) may occur. In patients with a history of an overactive thyroid gland (hyperthyroidism), there have been occasional reports of slowing down of the pulse and rare reports of a sensation of coldness in the limbs.

Other side effects: In patients with heart failure and in patients with generalised vascular disease and/or impaired renal function, a deterioration in renal function, and in rare instances renal failure, may occur.

Respiratory tract: Due to possible increase in airway resistance, patients with a tendency to bronchospastic reactions, a history of asthma attacks, or a history of asthma attacks, there have been occasional reports of shortness of breath and rare reports of blocked nose.

Autonomic tract: Nausea, diarrhea, abdominal pain, and vomiting occur occasionally. Constipation occurs rarely. In patients with a history of an overactive thyroid gland (hyperthyroidism), there have been occasional reports of slowing down of the pulse and rare reports of a sensation of coldness in the limbs.

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