Milpharm

Package leaflet: Information for the user

Bosentan 62.5 mg film-coated tablets

Bosentan 125 mg film-coated tablets

bosentan

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Bosentan is and what it is used for
- 2. What you need to know before you take Bosentan
- 3. How to take Bosentan
- 4. Possible side effects
- 5. How to store Bosentan
- 6. Contents of the the pack and other information

1. What Bosentan is and what it is used for

Bosentan tablets contain bosentan, which blocks a naturally occurring hormone called endothelin-1 (ET-1), which causes blood vessels to narrow. Bosentan therefore causes blood vessels to expand and belongs to the class of medicines called "endothelin receptor antagonists".

Bosentan is used to treat:

• **Pulmonary arterial hypertension** (PAH): PAH is a disease of severe narrowing of the blood vessels in the lungs resulting in high blood pressure in the blood vessels (the pulmonary arteries) that carry blood from the heart to the lungs. This pressure reduces the amount of oxygen that can get into the blood in the lungs, making physical activity more difficult. Bosentan widens the pulmonary arteries, making it easier for the heart to pump blood through them. This lowers the blood pressure and relieves the symptoms.

Bosentan is used to treat patients with class III pulmonary arterial hypertension (PAH) to improve exercise capacity (the ability to carry out physical activity) and symptoms. The 'class' reflects the seriousness of the disease: 'class III' involves marked limitation of physical activity. Some improvements have also been shown in patients with class II PAH. 'Class II' involves slight limitation of physical activity. The PAH for which Bosentan is indicated can be:

- primary (with no identified cause or familial);
- caused by scleroderma (also called systemic sclerosis, a disease where there is abnormal growth of the connective tissue that supports the skin and other organs);
- caused by congenital (inborn) heart defects with shunts (abnormal passageways) causing abnormal flow of blood through the heart and lungs.
- Digital ulcers: (sores on the fingers and toes) in adult patients with a condition called scleroderma. Bosentan reduces the number of new finger and toe ulcers that appear.

What you need to know before you take Bosentan

Do not take Bosentan:

- **if you are allergic to bosentan** or any of the other ingredients of this medicine (listed in section 6)
- if you have liver problems (ask your doctor)
- **if you are pregnant, or could get pregnant** because you are not using reliable contraceptive methods. Please read the information under

long as you are taking Bosentan. We suggest you write the date of your most recent test and also of your next test (ask your doctor for the date) on the Patient Alert Card, to help you remember when your next test is due.

Blood tests for liver function

These will be done every month for the duration of treatment with Bosentan. After an increase in dose an additional test will be done after 2 weeks.

Blood tests for anaemia

These will be done every month for the first 4 months of treatment, then every 3 months after that, as patients taking Bosentan may get anaemia.

If these results are abnormal, your doctor may decide to reduce your dose or stop treatment with Bosentan and to perform further tests to investigate the cause.

Children and adolescents

Bosentan is not recommended in paediatric patients with systemic sclerosis and ongoing digital ulcer disease. Please see also section 3. How to take Bosentan.

Other medicines and Bosentan

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines, including medicines obtained without a prescription. It is especially important to tell your doctor if you are taking:

- cyclosporine A (a medicine used after transplants and to treat psoriasis), which must not be used together with Bosentan
- sirolimus or tacrolimus, which are medicines used after transplants, as these are not recommended to be used together with Bosentan
- glibenclamide (a diabetes medicine), rifampicin (a tuberculosis medicine), fluconazole (a medicine against fungal infections),ketoconazole (a medicine used to treat Cushing's syndrome), or nevirapine (an HIV medicine) as these medicines are not recommended to be used together with Bosentan.
- other medicines for the treatment of HIV infection, which may require special monitoring if used together with Bosentan
- hormonal contraceptives, which are not effective as the sole method of contraception when you take Bosentan. Inside your pack of Bosentan tablets you will find a Patient Alert Card which you should read carefully. Your doctor and/or gynaecologist will establish the contraception which is appropriate for you.
- Other medications for the treatment of pulmonary hypertension: sildenafil and tadalafil;
- Warfarine (an anticoagulant agent);
- Simvastatin (used to treat hypercholesterolemia).

Bosentan with food, drink and alcohol Bosentan can be taken with or without food.

Bosentan can be taken with or without lood.

Pregnancy, breast-feeding and fertility If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this

Women of child-bearing age

Do NOT take Bosentan if you are pregnant or planning to become pregnant.

Pregnancy tests

medicine.

Bosentan may harm unborn babies conceived before starting or during treatment. If you are a woman who could become pregnant, your doctor will ask you to take a pregnancy test before you start taking Bosentan, and regularly while you are taking Bosentan.

Contraceptives

If it is possible that you could become pregnant, use a reliable form of birth control (contraception) while you are taking Bosentan. Your doctor or gynaecologist will advise you about reliable contraceptive methods while taking Bosentan. Because Bosentan may make hormonal contraception (e.g., oral, injection, implant, or skin patches) ineffective, this method on its own is not reliable. Therefore, if you use hormonal contraceptives you must also use a barrier method (e.g., female condom, diaphragm, contraceptive sponge, or your partner must also use a condom). Inside your pack of Bosentan tablets you will find a Patient Alert Card. You should complete this card and take it to your doctor at your next visit so that your doctor or gynaecologist can assess whether you need additional or alternative reliable contraceptive methods. Monthly pregnancy tests are recommended while you are taking Bosentan and are of child-bearing age.

"Contraceptives" and "Other medicines and Bosentan"

• **if you are taking cyclosporine A** (a medicine used after a transplant or to treat psoriasis)

If any of these apply to you, tell your doctor.

Warnings and precautions

Talk to your doctor or pharmacist before taking Bosentan.

Tests your doctor will do before treatment

- a blood test to check your liver function
- a blood test to check for anaemia (low haemoglobin)
- a pregnancy test if you are a woman of childbearing potential

Some patients taking Bosentan have been found to have abnormal liver function tests and anaemia (low haemoglobin).

Tests your doctor will do during treatment

During treatment with Bosentan, your doctor will arrange for regular blood tests to check for changes in your liver function and haemoglobin level.

For all these tests please refer also to the Patient Alert Card (inside your pack of Bosentan tablets). It is important that you have these regular blood tests as

Breast-feeding

Tell your doctor immediately **if you are breast-feeding.** You are advised to stop breast-feeding if Bosentan is prescribed for you, because it is not known whether this medicine passes into breast milk.

Fertility

If you are a man taking Bosentan, it is possible that this medicine may lower your sperm count. It cannot be excluded that this may affect your ability to father a child. Talk to your doctor if you have any questions or concerns about this.

Driving and using machines

Bosentan has no or negligible influence on the ability to drive and use machines.

However, Bosentan can induce hypotension (decrease of your blood pressure) which can make you feel dizzy, affect your vision and affect your ability to drive and use machines.



Therefore, if you feel dizzy or that your vision is blurred while taking Bosentan, do not drive or operate any tools or machines.

Bosentan contains Sodium:

This medicine contains less than 1 mmol (23 mg) of sodium per dose, that is to say it is essentially'sodium-free'.

3. How to take Bosentan

Treatment with Bosentan should only be started and monitored by a doctor who has experience in the treatment of PAH or systemic sclerosis. Always take this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not sure

Bosentan with food and drink

Bosentan can be taken with or without food.

Recommended dose

Adult

The treatment in adults is usually started for the first 4 weeks with 62.5 mg twice daily (morning and evening), from then your doctor will usually advise you to take a 125 mg tablet twice daily, depending on how you react to Bosentan.

Children and adolescents

The dose recommendation in children is only for PAH. For children 1 year and older, treatment with Bosentan is usually started with 2 mg per kg bodyweight twice daily (morning and evening). Your doctor will advise you on your dosing.

Please note that other formulations of bosentan are also available which may make correct dosing easier for children and patients with low body weight or difficulties to swallow film-coated tablets.

If you have the impression that the effect of Bosentan is too strong or too weak, talk to your doctor in order to find out whether your dose needs to be changed.

How to take Bosentan

Tablets should be taken (morning and evening), swallowed with water. The tablets can be taken with or without food

If you take more Bosentan than you should

If you take more tablets than you have been told to take, contact your doctor immediately.

If you forget to take Bosentan

If you forget to take Bosentan, take a dose as soon as you remember, then continue to take your tablets at the usual times. Do not take a double dose to make up for forgotten tablets.

If you stop taking Bosentan

Suddenly stopping your treatment with Bosentan may lead to your symptoms getting worse. Do not stop taking Bosentan unless your doctor tells you to. Your doctor may tell you to reduce the dose over a few days before stopping completely.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

- The most serious side effects with bosentan are
- Abnormal liver function which may affect more than 1 in 10 people
- Anaemia (low blood value) which may affect up to 1 in 10 people. Anaemia may occasionally require blood transfusion.

Your liver and blood values will be monitored during treatment with bosentan (see section 2). It is important that you have these tests as ordered by your doctor.

Signs that your liver may not be working properly include:

- nausea (urge to vomit)

Uncommon (may affect up to one in 100 people):

- Thrombocytopenia (low number of blood platelets)
- Neutropenia/leukopenia (low number of white blood cells)
- Elevated liver function tests with hepatitis (inflammation of the liver) including possible exacerbation of underlying hepatitis and/or jaundice (yellowing of the skin or the whites of the eyes)

Rare (may affect up to one in 1000 people):

- Anaphylaxis (general allergic reaction), angioedema (swelling, most commonly around the eyes, lips, tongue or throat)
- Cirrhosis (scarring) of the liver, liver failure (serious disturbance of liver function)

Blurred vision have also been reported at an unknown frequency (frequency cannot be estimated from the available data).

Side effects in children and adolescents

The side effects that have been reported in children treated with bosentan are the same as those in adults.

Reporting of side effects

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme Website: www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Bosentan

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the label, carton after EXP. The expiry date refers to the last day of that month.

This medicinal product does not require any special storage conditions.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Bosentan contains

(as monohydrate).

- The active substance is bosentan as monohydrate. Each film-coated tablet contains 62.5 mg bosentan (as monohydrate). Each film-coated tablet contains 125 mg bosentan
- The other ingredients are: Tablet core: Pregelatinised starch, maize starch, sodium starch glycolate (type-A), crospovidone (type-B), povidone (K-90) glycerol dibehenate and magnesium stearate. Film coating: Hypromellose (E464), ethyl cellulose, triacetin, talc, titanium dioxide (E171), iron oxide yellow, iron oxide red.

What Bosentan looks like and contents of the pack Film- coated tablet.

Bosentan 62.5 mg film-coated tablets

Orange-white coloured, round [Diameter: 6.1mm], biconvex, film-coated tablets debossed with 'K' on one side and '21' on other side.

Bosentan 125 mg film-coated tablets

Orange-white coloured, oval, biconvex, film-coated tablets debossed with 'K' on one side and '22' on other side, separated by breakline. The tablet can be divided into equal doses. The size is: 11.2 mm x 5.2 mm

Bosentan film-coated tablets are available in triple laminated white opaque PVC/PE/PVdC-Aluminium foil blister pack and HDPE bottle with polypropylene closures.

Blister pack:

For 62.5 mg: 14, 28, 30, 50, 56, 60, 90, 98 and 112 film-coated tablets.

- vomiting
- fever (high temperature)
- pain in your stomach (abdomen)
- jaundice (yellowing of your skin or the whites of your eyes)
- dark-coloured urine
- itching of your skin
- lethargy or fatigue (unusual tiredness or exhaustion)
- flu-like syndrome (joint and muscle pain with fever)

If you notice any of these signs tell your doctor immediately

Other side effects:

Very common (may affect more than one in 10 people):

- Headache
- Oedema (swelling of the legs and ankles or other signs of fluid retention)

Common (may affect up to one in 10 people):

- Flushed appearance or redness of skin
- Hypersensitivity reactions (including skin inflammation, itching and rash)
- Gastrooesophageal reflux disease (acid reflux)
- Diarrhoea
- Syncope (fainting)
- Palpitations (fast or irregular heart beats)
- Low blood pressure
- Nasal congestion

For 125 mg: 10, 14, 28, 30, 50, 56, 60, 90, 98, 100,112 and 120 film-coated tablets.

Bottle pack:

30,100 and 1000 film-coated tablets.

Not all pack sizes may be marketed.

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