Package leaflet: Information for the user

Fragmin® 2,500 IU/0.2 ml & 5,000 IU/0.2 ml Solution for Injection
dalteparin sodium

Read all of this leaflet carefully before you start using 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, pharmacist or nurse.
- This medicine has been prescribed for you only. If your doctor has given you this medicine to use at home 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What Fragmin is and what it is used for

Fragmin is a solution for injection. Its active ingredient is dalteparin sodium.

Fragmin belongs to a group of medicines called low molecular weight heparins or anti-thrombotics, which help prevent the formation of blood clots by thinning the blood.

Venous thromboembolism is a condition where blood clots develop in the legs (deep vein thrombosis) or the lungs (pulmonary embolism), e.g. after surgery, prolonged bed rest or in patients with certain types of cancer.

- Fragmin is used in adults above 18 years old to prevent blood clots (venous thromboembolism) forming before and after an operation or if you are bedridden due to illness and to prevent their recurrence.

The 5000 IU product can also be used in adults above 18 years old for**:**

- Prevention of deep vein thrombosis in patients bedridden due to a medical condition but not limited to, for example heart failure and respiratory failure.
- Treatment of patients with solid tumours who suffer from low platelet counts.

Fragmin is indicated in children for:

- Treatment of blood clots in the veins (venous thromboembolism or VTE) in children and adolescents 1 month of age and older.

Ask your doctor if you are unsure why you have been given Fragmin.

2. What you need to know before you are given or use Fragmin

You should not be given Fragmin:
• if you are allergic (hypersensitive) to the active ingredient dalteparin sodium or a similar

product or any of the other ingredients of this medicine (listed in section 6).
- if you have an active stomach ulcer or ulcer of the duodenum (small intestine).
- if you have suffered from a brain haemorrhage (bleeding in your brain).
- if you have fluid mixed with blood that appears around heart and lungs.
- if you suffer from any condition which may cause you to bleed more easily (e.g. haemophilia, liver failure). Ask your doctor if you are unsure.
- if you have a condition called septic endocarditis (an infection and inflammation of the lining of the heart and heart valves). Your doctor will have told you if you have this.
- if you have had a condition called "heparin-induced thrombocytopenia" (a decrease in the number of clotting cells (platelets) in your blood caused by heparin, which may cause you to bruise and bleed more easily). Your doctor will have told you if you have this.
- if you have an injury to, or have had an operation involving your spine, head, eyes or ears.

If you are receiving Fragmin to treat blood clots, you should not have a local, spinal or epidural anaesthetic.

If you are given this medicine as part of your cancer treatment your doctor will check that you weigh more than 40 kg, and that you have not had a stroke within the last 3 months.

Warnings and precautions
Talk to your doctor, pharmacist or nurse before you are given or use Fragmin:

- if you have conditions which make you more susceptible to bleeding e.g.:
    - after an operation or trauma
    - a stroke caused by a bleed
    - a brain tumour
    - severe liver or kidney failure
    - abnormal or low numbers of platelets (clotting cells)
    - eye disease caused by blood pressure or diabetes
    - taking other medicines that thin the blood (e.g. aspirin, warfarin, dipyridamole)
    - uncontrolled high blood pressure
- if you are allergic or suspect you have a possible allergy to latex (natural rubber) or if the needle cover of Fragmin prefilled syringes will be handled by someone with a known or possible allergy to latex (natural rubber). The needle cover of Fragmin prefilled syringes may contain latex (natural rubber) which may cause severe allergic reactions in individuals with allergy to latex (natural rubber).
- if you have been told by your doctor that you have a lot of potassium in your blood or have a low blood pH. Your doctor will monitor your blood regularly before and during treatment.
- if you have ever had an operation to insert an artificial heart valve.
- if you need to have any other injections.

You may need to have blood tests to monitor the effects of Fragmin:
- if you have kidney failure or liver problems
- if you are very thin or morbidly obese
- if you are pregnant
- if you are at increased risk of bleeding or rethrombosis (more blood clots)
- if you are a child
- if you have blood problems due to cancer treatment

Children and adolescents
Fragmin is not used for new born babies under 1 month of age.

Other medicines and Fragmin

Tell your doctor, pharmacist or nurse if you are taking, have recently taken or are planning to take or use any other medicines. This includes medicines that you have bought for yourself.

Some medicines can affect the way Fragmin works, or Fragmin itself can reduce the effectiveness of other medicines taken at the same time.

Medicines that **increase** the effect of Fragmin include:

Thrombolytic (clot-dissolving) treatment or certain medicines which affect blood clotting may increase the risk of haemorrhage when combined with Fragmin:

- Aspirin (acetylsalicylic acid).
- Platelet inhibitors (used to decrease platelet aggregation and reduce the risk of blood clots).
- Thrombolytics (used to dissolve blood clots).
- Nonsteroidal anti-inflammatories (NSAIDs) (medicines used to treat inflammation).
- Antagonists of GP IIb/IIIa receptors (medicines affecting platelet aggregation, used to treat cardiac disorders).
- Antagonists of vitamin K and other types of (oral anticoagulants).
- Dextran (used in certain artificial tears).

Medicines that can **reduce** the effect of Fragmin include:
• Those for allergy and hay fever (e.g. antihistamines).
• Those used for heart or circulation problems (e.g. digoxin or digitoxin).
• Antibiotics known as tetracyclines which are used to treat bacterial infections.
• Vitamin C (e.g. some vitamin supplements).

Other medicines that may interfere with Fragmin include:

- Those used to treat angina (intravenous nitroglycerine).
- Antibiotics such as high dose penicillin which are used to treat bacterial infections.
- Anti-malarials (e.g. quinine).
- Tobacco smoking.

Please note that if you are being treated with Fragmin for unstable coronary artery disease your doctor may adjust your dose of aspirin accordingly.

Please tell your doctor or pharmacist if you are taking or have recently taken any other low molecular weight heparins or anti-thrombotics.

Pregnancy and breast-feeding
Fragmin has not been found to cause harmful effects during pregnancy. The possibility of harm to the baby appears remote. Tell your doctor if you are pregnant and they will advise you.
Fragmin is not recommended for the prevention of blood clots on artificial heart valves during pregnancy.

If you are receiving Fragmin to treat blood clots, you should not have a local, spinal or epidural anaesthetic.

Ask your doctor or pharmacist for advice before being given or using this medicine whilst breast-feeding.

Driving and using machines
Fragmin does not affect the ability to drive and operate machinery.

Fragmin contains sodium

Fragmin 2,500 IU (anti-Xa)/0.2 ml and 5,000 IU (anti-Xa)/0.2 ml contain less than 1 mmol (23 mg) of sodium per pre-filled syringe, i.e. that is to say essentially "sodium-free". Patients on low sodium diets and parents whose children receive treatment with Fragmin can be informed that these medicinal product formulations are essentially ‘sodium-free’.

This product may be prepared with a solution that contains sodium. Tell your doctor if you or your child are on a low salt (sodium) diet.

3. How Fragmin is given to you

Your medicine will usually be administered by a doctor or nurse or you may be shown how to give the injection yourself at home (see section on How to Inject Fragmin). The amount of Fragmin you receive will depend on your body weight.

Fragmin is given as a single, once daily, subcutaneous injection, which means it is injected beneath the skin. It is usually injected into a skin fold in your abdomen (stomach), or the outer aspects of your thigh. It should not be injected into your muscles.

Use in adults and the elderly
To prevent blood clots (venous thromboprophylaxis)
• Patients with a moderate risk of developing a clot:
The recommended dose is 2,500 IU one to two hours before the operation, then 2,500 IU each morning. This is continued for five to seven days, or until you are fully able to move about.

• Patients with a greater risk of developing a clot e.g. those who have had clots in the past:
For this type of patient, the recommended dose is 2,500 IU one to two hours before the operation, the same dose 8 to 12 hours later, then 5,000 IU each morning. As an alternative, 5,000 IU may be given the evening before the operation, then 5,000 IU on following evenings. The first dose (2,500 IU) may also be given as soon as possible after your operation and is to be continued for five to seven days, or until you are able to move about.

• Hip Replacement Surgery
After a hip operation, your doctor may decide to continue treating you with Fragmin for five weeks using a dose of 5,000 IU every evening. If you have an artificial heart valve, the normal dose for prevention of blood clots is not sufficient. Your doctor will discuss this with you.
• The maximum dose you will be given in a 12 hour period is 10,000 IU.
• If you are bedridden due to illness, the dose of Fragmin given will be 5,000 IU daily. The length of treatment will be up to 14 days, depending on your illness.

These are typical doses for adults, including elderly patients. Your doctor will work out the right dose for you. Some of the liquid in the syringe may have to be expelled before the injection is given.

To treat blood clots (venous thromboembolism) in certain types of cancer and prevent recurrence
The usual dose used to treat venous thromboembolism in cancer is 200 IU (units) for every kilogram you weigh (see table below) once daily during the first month after a thromboembolic event (blood clot), followed by 150 IU for every kilogram you weigh (during months 2-6).

Dose of Fragmin during month 1

Body weight (kg)	Dose (IU)
< 46	7,500
46-56	10,000
57-68	12,500

69-82	15,000
≥ 83	18,000

Dose of Fragmin during months 2-6

Body Weight (kg)	Dose (IU)
≤ 56	7,500
57 to 68	10,000
69 to 82	12,500
83 to 98	15,000
≥ 99	18,000

This treatment course is not recommended for patients weighing less than 40 kg.

The maximum daily dose is 18,000 IU. The recommended duration of treatment is 6 months. If you are suffering from severe kidney disease or a decreased platelet count (clotting cells) caused by chemotherapy or another condition with an elevated bleeding risk, your doctor will adjust this dose accordingly.

In some cases of decreased platelet count (clotting cells), your doctor may interrupt your treatment with Fragmin for a short period.

Medical staff may take blood samples during your treatment to monitor the effects of Fragmin.

Use in Children and Adolescents
Treatment of blood clots in the veins (Symptomatic Venous Thromboembolism - VTE)
The recommended dose depends on the child's body weight and age group and will be calculated by your doctor. Your doctor will advise you about the individualised dose of Fragmin according to these criteria. Do not change the dosage and treatment schedule without consulting your doctor.

The following table shows the recommended starting dose for children and adolescents depending on their age:
Children 1 month to less than 2 years: 150 IU/kg twice daily.
Children 2 years to less than 8 years: 125 IU/kg twice daily.
Children 8 years to less than 18 years: 100 IU/kg twice daily.

The effect of Fragmin will be monitored after the initial dose and subsequent dose adjustment made using a blood test.

How to Inject Fragmin
Fragmin is administered under the skin (subcutaneously). This section of the leaflet explains how you should inject Fragmin to yourself or to your child. You should follow these instructions only after you have been trained by your doctor. If you are not sure what to do, talk to your doctor immediately. You should inject (or give) the dose of Fragmin at the times recommended by your doctor.

When dilution is required before administering Fragmin to children, it should be performed by a healthcare professional. You should follow your doctor's instructions on how and when to inject the diluted drug that is provided to you.

Please follow the steps explained below

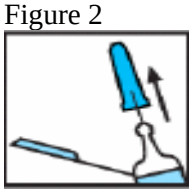
Step 1: How you prepare your syringe for injection will depend on specific Fragmin presentation that you will be using

If you are using a Prefilled syringe with needle trap:
The Needle-Trap safety system is specially designed to help prevent needle accidents after correct use of Fragmin. It consists of a plastic safety device attached to the label stuck on the syringe. It is used to avoid accidental punctures after the proper injection of Fragmin. The Needle-Trap consists of a plastic tab (gripper) lying parallel along the needle, firmly attached to the label on the syringe barrel.
The safety system requires the following actions in order to be activated: Pick up the syringe, grasp the tip of the plastic needle catcher and bend it away from the shield (see Figure 1).

Figure 1

Remove the grey rubber cover by pulling it straight off (see Figure 2).

Figure 2

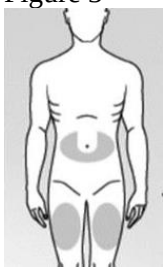


You will notice an air bubble in the syringe. It is supposed to be there and you can just ignore it. It is important not to press the plunger just yet as some of the medicine may be lost. The air bubble in the disposable syringes should not be pushed out before injecting, as this may lead to loss of medicine and therefore a reduced dose.
You are now ready to inject. Continue to Step 2.

Step 2: Choosing and preparing the subcutaneous injection area

Choose one of the recommended injection sites below (see shaded areas Figure 3):
A “U” shaped area around the navel.
Side of the middle thighs.

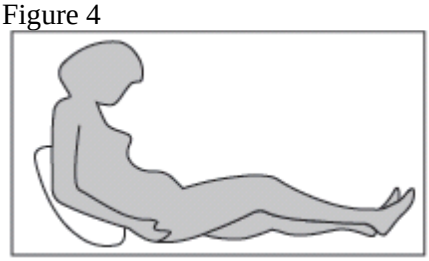
Figure 3



- Use a different site to inject each time a dose is given.
- Do not inject into areas where the skin is tender, bruised, red, or hard. Avoid areas with scars.
- If you or the child have psoriasis, do not inject directly into any raised, thick, red, or scaly skin patches (“psoriasis skin lesions”).
- Wash and dry your hands.
- Clean the injection site with a new alcohol swab, using a circular motion. Allow the skin to dry thoroughly. Do not touch this area again before giving the injection.

Step 3: Getting the right position
You or your child should be sitting or lying down for subcutaneous injection administration. If you are self-injecting, get yourself in a comfortable sitting down position where you can see your stomach (see Figure 4).

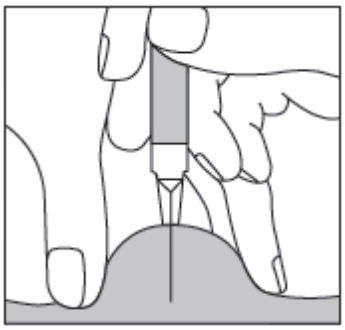
Figure 4



Step 4:
Using the thumb and forefinger, lift up a fold of skin with one hand. With the other hand, hold the syringe like a pencil. This will be the injection site.

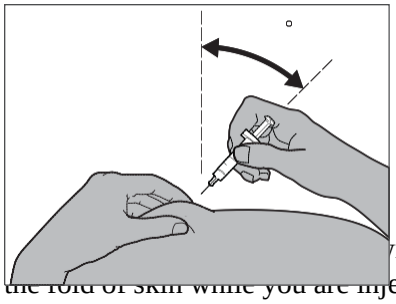
Step 5:
If you are injecting Fragmin to an adult or yourself, hold the syringe above the folded skin keeping it at a right angle (i.e. vertically as in the diagram and not at an angle). Insert the needle into the skin until the needle is fully inserted (see Figure 5).

Figure 5



If you are injecting Fragmin to a child, push the needle all the way into the skin with a quick, short motion, at an angle between 45° and 90° (see Figure 6).

Figure 6

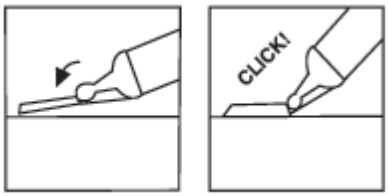


n at a slow, steady rate to deliver the correct dose. Keep pinching the fold of skin while you are injecting and then release the fold of skin and pull the needle out.

If there is any oozing of blood at the injection site, apply gentle pressure. Do not rub the injection site as this may encourage bruising.

Press a cotton ball over the injection site for 10 seconds. Slight bleeding may occur. Do not rub the injection site. You may place a bandage over the injection site.

Step 7: If your syringe has a needle trap, activate the needle-trap
Place the plastic catcher against a hard, stable surface and with one hand pivot the syringe barrel upwards against the needle forcing the needle into the catcher where it locks in place.
Continue bending the needle until the syringe exceeds a 45-degree angle with the flat surface to render it permanently unusable.



Step 8:
Dispose of the syringe and needle into a sharps container. Keep your sharps bin out of reach of other people. When the sharps bin is almost full, dispose of it as instructed or speak to your doctor or nurse.

If you are given more Fragmin than you should
If you feel that you have been given more Fragmin than you should, inform your doctor or nursing staff immediately. Your doctor may initiate measures to decrease the risk of bleeding.

If you forget to use Fragmin
Tell your doctor or pharmacist if you think that a dose has been forgotten.
A double dose should not be given to make up for a forgotten dose.

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

4. Possible side effects

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

Stop using Fragmin and talk to a doctor or nurse at once if you get any signs of a severe allergic reaction (such as difficulty breathing, swelling of the lips, mouth, throat or eyes).

- Common side effects (may affect up to 1 in 10 people):
    - A reversible decrease in the number of clotting cells (platelets) in your blood (Type I thrombocytopenia). This may make you bruise more easily
    - Bleeding at any site
    - Certain substances produced by your liver may increase
    - Pain and reactions at the injection site
    - Haematoma – you may notice blood collecting under the skin

- Uncommon side effects (may affect up to 1 in 100 people):
    - Increased levels of potassium in your blood (symptoms may include temporary muscle weakness, loss of feeling and changes in your heartbeat)
    - Red skin rash and itchiness
    - Itching
    - Allergic reactions
    - Your bones may weaken and break more easily. This is known as osteoporosis and has been seen in patients using heparin for a long time

- Rare side effects (may affect up to 1 in 1,000 people):
    - An immune system problem resulting in a severe decrease in the number of

clotting cells (platelets) in your blood (Type II thrombocytopenia)
- Alopecia (hair loss)
- Painful skin lesions

- Not known (frequency cannot be estimated from the available data):
  - Bleeding inside or around your brain, symptoms may include sudden severe headache
  - Bleeding behind your abdomen (stomach), symptoms may include a feeling of tenderness and swelling around your stomach
  - Bruising of the spine which may lead to back pain, tingling, numbness or weakness in your legs, bowel or bladder problems

If you have an artificial heart valve, treatment with Fragmin might not be sufficient to prevent a blood clot, and you might develop a clot in the heart valve.

The adverse reactions in children are expected to be the same as in adults, however there is only a little information about the possible side effects of long-term use in children.

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet.

Reporting of side effects
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme at: 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 Fragmin

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

After opening, immediate use is recommended.

Fragmin should not be used after the expiry date which is printed on the label and carton. The expiry date refers to the last day of that month.

Store below 25°C.

Your doctor or nurse will store Fragmin in a safe place under the above conditions.

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

6. Contents of the pack and other information

What Fragmin contains
The active ingredient in Fragmin is dalteparin sodium. Two strengths of Fragmin syringes are available, containing either 2,500 IU (International Units) or 5,000 IU of dalteparin sodium in 0.2 ml of solution.

The other ingredients are water for injections and in the 2,500 IU product, sodium chloride.

What Fragmin looks like and contents of the pack

Fragmin is available as a clear, colourless or straw-coloured solution in pre-filled single dose syringes, each containing 0.2 ml of dalteparin sodium solution.
10 syringes are packed in each box.

Marketing Authorisation Holder
Pfizer Limited
Ramsgate Road
Sandwich
Kent
CT13 9NJ
UK

Manufacturer
Pfizer Manufacturing Belgium
NV, Rijksweg 12, 2870 Puurs (Puurs-Sint-Amands),
Belgium

Catalent France Limoges S.A.S
Z.I. Nord
53 rue de Dion Bouton
87280 Limoges
France

This leaflet was last revised in 11/2024.

Ref: FR 25_0