1. What heparin injection is and what it is used for

This leaflet explains some of the things you need to know about your medicine. It does not take the place of talking to your doctor or pharmacist. You can ask your doctor or pharmacist to explain this more.

1.1. Name of the medicinal product

The name of your medicine is heparin sodium 1,000 I.U./ml solution for injection or concentrate for solution for infusion.

1.2. What it is used for

Heparin sodium injection is used in the prevention and treatment of deep vein thrombosis and pulmonary embolism, and in the management of unstable angina and during certain cardiac procedures.

1.3. What heparin injection is

Heparin sodium injection is a form of the medicine heparin, which is an anticoagulant. It prevents the blood from clotting too much. It can be given by injection into a vein or muscle and by intravenous infusion.

1.4. How to use heparin injection

Heparin sodium injection is usually given by injection into a vein or muscle. It is sometimes given by infusing it into the blood stream through a vein or under the skin. It is given either as a single dose or by intermittent intravenous injection.

1.5. How to inject heparin injection

The dose of heparin sodium injection is given in the prescribing information.

2.Warnings and precautions

Heparin sodium injection is used under medical supervision. It is not for use by members of the public. Read the Warnings and Precautions before you start heparin injection.

2.1. How to use heparin injection

If you have any further questions,

2.2. How to use heparin injection

To listen to or request a copy of this leaflet in Braille, large

2.3. How to use heparin injection

If you think too much medicine has been given to you

2.4. How to use heparin injection

If you have any further questions,

2.5. How to use heparin injection

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2.6. How to use heparin injection

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2.18. How to use heparin injection

If you have any further questions,

2.19. How to use heparin injection

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2.20. How to use heparin injection

If you have any further questions,
4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Heparin sodium injection can be used in the treatment of:

- Deep vein thrombosis
- Embolism
- Arterial thromboembolism
- Prophylaxis and treatment of pulmonary embolism
- Venous osteomyelitis
- Hyperkalemia
- Malignant hyperthermia
- Relative hypovolaemia

4.2. Recommended dosage

By continuous intravenous infusion in 5% glucose or 0.9% sodium chloride solution.

- Adults: loading dose 50 units/kg intravenously. Maintenance 15-25 units/kg/hour by intravenous injection.
- Elderly: loading dose 50 units/kg intravenously. Maintenance 1,000-2,000 units/hour by intravenous injection.

4.3. Method of administration

Heparin sodium injection should be administered as an infusion injection or concentrate for solution for infusion.

- By continuous intravenous infusion:
  - Adults: loading dose 50 units/kg intravenously. Maintenance 15-25 units/kg/hour by intravenous injection.
  - Elderly: loading dose 50 units/kg intravenously. Maintenance 1,000-2,000 units/hour by intravenous injection.

4.4. Special warnings and precautions for use

Heparin belongs to a group of drugs that are called anticoagulants. They are used to stop your blood from coagulating (thickening and forming clots).

- You should tell your doctor if you are allergic to heparin or any other anticoagulants.
- Your doctor will decide which dose is best for you.
- If you are allergic to heparin, you may be less likely to bleed or be more likely to bleed.
- If you are allergic to heparin, you may have to have a new test before you have the injection.
- You will have blood tests every day to check the effects of the injection.

4.5. Hepatic and renal impairment

In patients with advanced renal or hepatic disease, a reduction in dosage may be necessary.

5. PHARMACOLOGICAL PROPERTIES

5.1. Preclinical safety studies

There is considerable variation in individual anticoagulant responses to heparin. This is partly due to the fact that the human dose of heparin administered is expressed in terms of anti-factor Xa activity.

5.2. Preclinical pharmacodynamic properties

By using a synthetic thromboplastin, it is possible to obtain a low molecular weight heparin preparation that is less antigenic.

5.3. Preclinical pharmacokinetic properties

The half life of heparin is dependent on the dose.

6. CLINICAL PHARMACOLOGY

6.1. Therapeutic-effect relations

The amount of heparin in your blood is important. Taking some medicines with heparin may make it less effective.

6.2. Pharmacokinetic properties

Heparin sodium injection is usually given as an injection slowly into a vein. It is absorbed rapidly and is excreted in the urine.

6.3. Shelf life

Heparin injection should not be given if it shows signs of contamination. It should be used within 6 months of opening.

6.4. Special precautions for storage

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

6.5. Special precautions for disposal

Do not flush heparin sodium injection down the toilet. It should be disposed of by placing it in a sealed plastic bag and disposing of it in the refuse.

6.6. Special precautions for disposal

Do not flush heparin sodium injection down the toilet. It should be disposed of by placing it in a sealed plastic bag and disposing of it in the refuse.

7. ADVERSE REACTIONS

7.1. Side-effects

Hypersensitivity reactions to heparin are rare. They include urticaria, angioedema, and anaphylactic reactions. They may be due to the ingredients in your injection.

7.2. Overdose

Heparin is used to thin your blood. If too much is given, you may bleed more. This is most likely to occur within the first few hours of treatment.

8. SPECIAL MEASURES IN CASE OF OVERDOSE

If you think you have been given too much heparin sodium injection, you should tell your doctor or nurse.

9. MARKETING AUTHORISATION NUMBER(S)

This is a service provided by the Royal National Institute of Blind People.

Website: www.hpra.ie

10. REFERENCE

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www.hpra.ie

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