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ELINJEC®

(Ferric Carboxymaltose)

QUALITATIVE AND QUANTITATIVE COMPOSITION

ELINJEC® Injection 500mg/10ml

Ferric Carboxymaltose MS equivalent to Elemental Iron.......500mg

PHARMACEUTICAL FORM

CLINICAL PARTICULARS

ELINJEC[®] is indicated for the treatment of iron deficiency when:

Oral iron preparations are ineffective.

Oral iron preparations cannot be used

There is a clinical need to deliver iron rapidly

The diagnosis of iron deficiency must be based on laboratory tests

POSOLOGY AND METHOD OF ADMINISTRATION:

Posology: The posology of **ELINJEC** follows a stepwise approach:

Step 1: Determination of the iron need: The individual iron need for repletion using **ELINJEC** sidetermined based on the patient's body weight and haemoglobin (Hb

Table: Determination of Iron need:

| Hb | | Patient body weight | | |
|-----------|-------------|---------------------|---------------|----------------|
| g/dL | mmol/L | below 35kg | 35kg to <70kg | 70kg and above |
| <10 | <6.2 | 500mg | 1,500mg | 2,000mg |
| 10 to <14 | 6.2 to <8.7 | 500mg | 1,000mg | 1,500mg |
| ≥14 | ≥8.7 | 500mg | 500mg | 500mg |

Step 2: Calculation and administration of the maximum individual iron dose(s): Based on the iron need determined above the appropriate dose(s) of **ELINJEC**[®] should be administered taking into consideration the following:

A single **ELINJEC**[®] administration should not exceed:

1 Simgli ronkly body weight (for administration by intravenous injection) or 20mg iron/kg body weight (for administration should not exceed:

The maximum recommended cumulative dose of **ELINJEC**[®] is 1,000mg of iron (20mL **ELINJEC**[®]) per week.

Step 3: Post-iron repletion assessments:

Re-assessment should be performed by the clinician based on the individual patient's condition

The Hb level should be re-assessed no earlier than 4 weeks post final **ELIN JEC** administration to allow adequate time for erythropoiesis and iron utilization.

In the event the patient requires further iron repletion, the iron need should be recalculated.

Special Population-patients with haemodialysis-dependent chronic kidney disease: A single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease: A single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the disease is the patient of the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient is a single maximum daily dose of 200mg iron should not be exceeded in haemodialysis-dependent chronic kidney disease; and iron the patient iron the patien

Paediatric population: The use of ELINJEC® has not been studied in children, and therefore, is not recommended in children under 14 years

Method of administration: ELINJEC® must only be administered by the intravenous route.

By injection or by infusion, or;
 During a haemodialysis session undiluted directly into the venous limb of the dialyzer

ELINJEC® must not be administered by the subcutaneous or inframuscular route.

Intravenous injection: ELINJEC® may be administered by intravenous injection using undiluted solution. The maximum single dose is 15mg iron/kg body weight but should not exceed 1,000mg iron.

Administration rates for intravenous injection of $\mathsf{ELINJEC}^{\otimes}$.

| Volume of ELINJEC ® required | Equivalent iron dose | Administration rate / Minimum administration time |
|-------------------------------------|----------------------|---|
| 2 to 4mL | 100 to 200mg | No minimal prescribed time |
| >4 to 10mL | >200 to 500mg | 100mg iron / min |
| >10 to 20mL | >500 to 1,000mg | 15 minutes |

Intravenous infusion:

ELINJEC® may be administered by intravenous infusion, in which case it must be diluted.
 The maximum single dose is 20mg iron/kg body weight, but should not exceed 1,000mg iron.

• The maximum single dose is zuring iroting doug weight, our should not exceed 1,000 mg mon.
• For infusion, **ELINJEC**®must only be diluted in sterile 0.9% m/V sodium chloride solution as shown in below table.

Note: For stability reasons, **ELINJEC**® should not be diluted to concentrations less than 2mg iron/mL (not including the volume of the ferric carboxymaltose solution). For further instructions on dilution of the medicinal product before administration, refer below table

Dilution plan of **ELIN JEC**® for intravenous infusion.

| Volume of ELINJEC ® required | Equivalent iron dose | Maximum amount of sterile 0.9% m/V sodium chloride solution | Minimum administration time |
|-------------------------------------|----------------------|---|-----------------------------|
| 2 to 4mL | 100 to 200mg | 50mL | No minimal prescribed time |
| >4 to 10mL | >200 to 500mg | 100mL | 6 minutes |
| >10 to 20mL | >500 to 1,000mg | 250mL | 15 minutes |

CONTRAINDICATIONS:

- ontrainfoldations.
 ontrainfolded in cases of:
 Hypersensitivity to the active substance.
 Known serious hypersensitivity to other parenteral iron products.
- Anaemia not attributed to iron deficiency, e.g. other microcytic anaemia.
 Evidence of iron overload or disturbances in the utilisation of iron.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Hypersensitivity reactions: Parenterally administered fron preparations can cause hypersensitivity reactions including serious and potentially fatal anaphylactic/anaphyla



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hypersensitivity reactions or signs of intolerance occur during administration, the treatment must be stopped immediately and consult the doctor immediately

If hypersensitivity reactions or signs of intolerance occur during administration, the treatment must be stopped immediately and consult the doctor immediately.

Hypophosphataemic osteomalacia: Symptomatic hypophosphataemia leading to osteomalacia and fractures requiring clinical intervention including surgery are known to be reported in the post marketing setting. Patients should be asked to seek medical advice if they experience worsening lugue with myaligias or bone pain. Serum phosphate should be monitored in patients who receive multiple administrations at higher doses or long-term treatment, and those with existing risk factors for hypophosphataemia. In case interesting hypophosphataemia, treatment with ferric carboxymaltose should be re-evaluated.

Hepatic or renal impairment: In patients with liver dysfunction, parenteral iron should only be administered after careful benefitirisk assessment. Parenteral iron administration should be avoided in patients with hepatic dysfunction, where iron overload is a precipitating factor, in particular Porphyria Cutanea Tarda (PCT).

Careful monitoring of iron status is recommended to avoid iron overload. No safety data on haemodialysis-dependent thronic kidney disease patients receiving single doses of more than 200mg iron are available.

Infection: Parenteral iron must be used with caution in case of acute or chronic infection, asthma, eczema or atopic allergies.

It is recommended that the treatment with ferric carboxymaltose injection is stopped in patients with ongoing bacteraemia. Therefore, in patients with chronic infection a benefitirisk evaluation has to be performed, taking into account the suppression of epithropoiesis.

Extravasation: Caution should be exercised to avoid paravenous leakage when administration site may lead to irritation of the skin and potentially long lasting brown discolouration at the site of administration, in case of paravenous leakage of the administration of refire carboxymaltose injection in twisted to stop administration in case

administration. In case of paravenous leakage, the administration of ferric carboxymaltose injection must be stopped immediately.

Sodium: Iron carboxymaltose injection contains up to 5.5mg (0.24mmol) sodium per mL of undiluted solution, equivalent to 0.3% of the WHO recommended maximum daily intake of 2g sodium for an adult

Paediatric population: The use of ferric carboxymaltose injection has not been studied in children.

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION:

The absorption of oral iron is reduced when administered concomitantly with parenteral iron preparations. Therefore, if required, oral iron therapy should not be started for at least 5 days after the last administration of ferric carboxymaltose injection.

FERTILITY, PREGNANCY AND LACTATION:
Pregnancy: There are limited data from the use of ferric carboxymaltose injection in pregnant women. A careful benefit/risk evaluation is required before use during pregnancy and ferric carboxymaltose injection should not be used during pregnancy unless clearly necessary. Iron deficiency occurring in the first trimester of pregnancy can in many cases be treated with oral iron. Treatment with ferric carboxymaltose injection should be confined to the second and third trimester if the benefit is judged to outweigh the potential risk for both the mother and the feetus. Feetal bradycardia may occur following administration of parenterions. It is usually transient and a consequence of a hypersensitivity reaction in the mother. The unborn beby should be carefully monitored during intravenous administration of parenterial irons to pregnant women.

Breast-feeding: Clinical studies showed that transfer of iron from ferric carboxymaltose injection to human milk was negligible (<1%). Based on limited data on breast-feeding women it is unlikely that ferric carboxymaltose injection represents a risk to the breast-feed child.

Fertility: There are no data on the effect of ferric carboxymaltose injection on human fertility. Fertility was unaffected following ferric carboxymaltose injection treatment in animal studies.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES:

erric carboxymaltose injection is unlikely to impair the ability to drive and use machines

The most commonly reported adverse drug reactions (ADR) is nausea, followed by injection/infusion site reactions, hypophosphataemia, headache, flushing, dizziness and

injection/infusion site reactions comprise several ADRs which individually are either uncommon or rare. The most serious ADR is anaphylactoid/anaphylactic reactions (rare) fatalities are known to be reported.

Common: Hypophosphataemia, headache, dizziness, flushing, hypertension, nausea, injection/infusion site reactions*

Lommon: hypoprosportatemia, neadacre, dizziness, flusining, hypoerension, nausea, nigection/insulosis is reactions:

"Uncommon: hypoprosportatemia, neadacre, dizziness, flusining, hypopresion, dispresses, abdominal pain, constipation, diarrhoea, pruritus, urticaria, erythema, rash", myalaja, back pain, arthralgia, pain in extremity, muscle spasm, pyrexia, fatigue, chest pain, oedema peripherat, chills, alanine aminotransferase increased, blood lactate dehydrogenase increased, blood alkaline phosphatase increased.

Rare: Anaphylactoid/anaphylactoic reactions, anxiety, phlebitis, syncope, presyncope, bronchospasm, flatulence, angleedema, pallor, distant skin discolouration, malaise, influenza like illness (whose onset may vary from a few hours to several days).

Frequency not known: Loss of consciousness, Kounis syndrome, face oedema, hypophosphataemic osteomalacia.

Includes the following preferred terms: Rash (individual ADR determined to be uncommon) and rash erythematous, generalised, -macular, -maculo-papular, pruritic (all actividual ADR determined to the consciousness, Karemmont has recommended and the consciousness of the consciousness, Karemmont has recommended and the consciousness of the consciousne

ndividual ADRs determined to be rare).

"Includes, but is not limited to, the following preferred terms: Injection/infusion site-pain, haematoma, discolouration, extravasation, irritation, reaction, (all individual ADRs determined to be uncommon) and paraesthesia (individual ADR determined to be rare).

PHARMACOLOGICAL PROPERTIES
PHARMACODYNAMIC PROPERTIES:
Pharmacotherapeutic Group: Iron trivialent, parenteral preparation, ATC code: 803AC.
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The complex is designed to provide, in a colloidal solution of the iron complex ferric carboxymallose.
The complex is designed to provide, in a controlled way, utilisable iron for the iron transport and storage proteins in the body (transferrin and ferritin, respectively).
Red cell utilisation of "Fer from radio-labelled ferric carboxymaltose injection ranged from 91% to 99% in subjects with iron deficiency (ID) and 61% to 84% in subjects with

renal anaemia at 24 days post-dose. Ferric carboxymaltose injection treatment results in an increase in reticulocyte count, serum ferritin levels and TSAT levels to within normal ranges

Distribution: Positron emission tomography demonstrated that ⁵⁵Fe and ⁵⁵Fe from ferric carboxymaltose injection was rapidly eliminated from the blood, transferred to the

beautured to the control of the cont Elimination: The iron injected or infused was rapidly cleared from the plasma, the terminal half-life ranged from 7 to 12 hours, the mean residence time (MRT) from 11 to 18 hours. Renal elimination of iron was negligible.

PHARMACEUTICAL PARTICULARS

Ferric carboxymaltose injection must only be mixed with sterile 0.9%m/V sodium chloride solution. No other intravenous dilution solutions and therapeutic agents should be used, as there is the potential for precipitation and/or interaction

See expiry on the pack.

Shelf life after first opening of the container: From a microbiological point of view, preparations for parenteral administration should be used.

Shelf life after first opening of the container: From a microbiological point of view, preparations for parenteral administration should be used. be used immediately after dilution with sterile 0.9% m/V sodium chloride solution.

ELINJEC® Injection 500mg/10ml in a pack of 1's

INSTRUCTIONS

Dosage: As directed by the physician.
To be sold on the prescription of a physician only.
Single dose viad, discard any portion of the content remaining after use.
Keep out of reach of children. Do not store over 30°C, and protect from heat, light and freezing.

Improper storage may deteriorate the medicine

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njection should not be used if container is leaking, solution is cloudy or it contains undissolved particle(s).

. فوماك: دُاكثر كى بدايت كمطابق استعال كرير-مرف ڈاکٹر کے نسخے کےمطابق فروخت کریں۔ وائل صرف ایک دفعد استعال کے لئے ہے، ستعال کے بعد باقی ﷺ جانے والےمحلول کوضائع کر دیں۔ . یواکو ۳۴ ڈگری سینٹی گریڈ سے زیادہ درجہ حرارت پر نہر تھیں، گرمی، روشنی اور مجمد ہونے ہے محفوظ رکھیں ورنہ دواخراب ہوجا لیگی۔

تجکشن کے لیک ہونے ، وُھندلا ہونے یااس میں کوئی غیرحل پزیرشے نظرآنے کی صورت میں ہر گزاستعال نہ کریں۔

R.N-01/NA/01/2023