MEDLEY PHARMACEUTICALS

Fermed Syrup

[Elemental Iron as Iron Protein Succinylate]

Composition: Each 15ml syrup contains 800mg Iron Protein Succinylate equivalent to 40mg elemental iron .

Description:

In **Fermed** elemental iron is bounded to milk's succinylated protein to form an iron protein complex. It is used in such complex form because the free inorganic iron is too much toxic. **Fermed** is used for the iron deficiency anemia. It is freely soluble at pH above 5, but become turbid when the pH become below 5, however again it become clear when the pH raise up from 5. Iron protein succinylate is not hydrolyzed by pepsin but is hydrolyzed by pancreatin at neutral pH. Due to these characteristics the iron in the formulation is protected by the proteic shell from the actions of the hydrochloric acid and pepsin of the gastric juice, so it does not cause gastric mucosal damage, which is common to the most of iron salts, especially to those of ferrous form. The delivery of iron from **Fermed** occurs in the duodenal, lumen and in the jejunum as a consequence of the normal pH raise, which makes the compound again soluble and allows the digestion of the proteic shell by the pancreatic enzymes. The iron becomes so available for the physiologic absorption without reaching too high peaks. Therefore **Fermed** does not generally cause GIT intolerance.

Mechanism of action of the Elemental Iron:

Iron forms the nucleus of the iron-porphyrin heme ring, which together with globin chains forms hemoglobin. Hemoglobin reversibly binds oxygen and provides the critical mechanism for oxygen delivery from the lungs to other tissues. In the absence of adequate iron, small erythrocytes with insufficient hemoglobin are formed, giving rise to microcytic hypochromic anemia.

Indications:

Fermed is used for the treatment or prevention of iron deficiency anemia. Iron deficiency anemia may be latent or clear due to insufficient intake of iron or impaired absorption, acute or chronic blood loss or infections in patients of all ages, pregnancy and breast feeding.

Contraindications:

known hypersensitivity to the product, heamosiderosis, heamochromatosis, Aplastic and heamolytic anemia, chronic pancratitis, liver cirrhosis.

Cautions:

The bottle containing the product should be kept in a refrigerator or at room temperature below 25C°.

Side effects:

GIT disorders, such as diarrhea, nausea, and epigastric pain, may occasionally occur, especially when too high dosage is administered.

Drug interactions:

Iron derivation may impair the absorption of tetracyclines, of which the concurrent administration should be avoided.

Dosage and Administration:

1.5ml/kg/day equivalent to 4mg/kg/day of Fe^{+3} upon doctor's prescription, in one or two administrations, preferably before meal.

Availability:

Available in a pack of 60ml glass bottle.

Manufactured by:
ISO 9001-2008 Certified Company
Medley Pharmaceuticals
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Wah Cantt- Rawalpindi