

PRESCRIBING INFORMATION

Ryxon® Injection IM/IV

(Ceftriaxone for Injection USP)

رائی زان انجکشن
آئی ایم / آئی وی

Long-acting, broad-spectrum cephalosporin antibiotic for parenteral use

composition:

Ryxon Injection 2 g
Each vial contains:
Ceftriaxone.....2 g
(as Ceftriaxone Sodium USP)

Ryxon Injection 500mg
Each vial contains:
Ceftriaxone.....500mg
(as Ceftriaxone Sodium USP)

Ryxon Injection 1g
Each vial contains:
Ceftriaxone.....1g
(as Ceftriaxone Sodium USP)

Ryxon Injection 250 mg
Each vial contains:
Ceftriaxone.....250 mg
(as Ceftriaxone Sodium USP)

DESCRIPTION:

The bactericidal activity of Ceftriaxone results from inhibition of cell wall synthesis. Ceftriaxone exerts in-vitro activity against a wide range of gram-negative and gram-positive microorganisms. Ceftriaxone is highly stable to most β -lactamases, both penicillinases and cephalosporinases, of gram-positive and gram-negative bacteria.

PHARMACOKINETICS:

Ceftriaxone is characterized by an unusually long elimination half-life of approximately eight hours in healthy adults.

Elimination:

The elimination half-life in healthy adults is about eight hours. In infants aged less than eight days and in persons over 75 years of age, the average elimination half-life is about twice as long. In adults, 50-60% of Ceftriaxone is excreted unchanged by the kidneys, while 40-50% is excreted unchanged in the bile.

In patients with renal impairment or hepatic dysfunction, the pharmacokinetics of Ceftriaxone are only minimally altered and the elimination half-life is only slightly increased. If kidney function alone is impaired, biliary elimination of Ceftriaxone is increased; if liver function alone is impaired, renal elimination is increased.

Protein binding:

Ceftriaxone is reversibly bound to albumin, and the binding decreases with the increase in the concentration.

Penetration into the cerebrospinal fluid:

Ceftriaxone penetrates the inflamed meninges of infants and children. The average extent of diffusion in the cerebrospinal fluid in bacterial meningitis is 17% of the plasma concentration, i.e. approximately four times that in aseptic meningitis.

INDICATIONS:

Infections caused by pathogens sensitive to Ceftriaxone, e.g.:

- Sepsis;
- Meningitis;
- Abdominal infections (peritonitis, infections of the biliary and gastrointestinal tracts);
- Infections of the bones, joints, soft tissue, skin and of wounds;

- Infections in patients with impaired defence mechanisms;
- Renal and urinary tract infections;
- Respiratory tract infections, particularly pneumonia, and ear, nose and throat infections;
- Genital infections, including gonorrhoea.
- Perioperative prophylaxis of infections.

DOSAGE AND ADMINISTRATION:

Adults and children over twelve years:

The usual dosage is 1-2 g of Ryxon administered once daily (every 24 hours). In severe cases or in infections caused by moderately sensitive organisms, the dosage may be raised to 4 g, administered once daily.

Neonates, infants and children up to twelve years:

The following dosage schedules are recommended for once daily administration:

Neonates (up to two weeks):

A daily dose of 20-50 mg/kg bodyweight, not to exceed 50 mg/kg, on account of the immaturity of the infant's enzyme systems. It is not necessary to differentiate between premature and infants born at term.

Infants and children (three weeks to twelve years):

A daily dose of 20-80 mg/kg. For children with body-weights of 50 kg or more, the usual adult dosage should be used. Intravenous doses of 50 mg or more per kg should be given by infusion over at least 30 minutes.

DIRECTIONS FOR USE:

Reconstituted solutions retain their physical and chemical stability for six hours at room temperature (or 24 hours at 5°C). As a general rule, however the solutions should be used immediately after preparation. The range in colour from pale yellow to amber, depending on the concentration and the length of storage. This characteristic of the active ingredient is of no significance for the efficacy or tolerance of the drug.

Intramuscular injection

For IM injection, Ryxon 250 mg & 500 mg is dissolved in 2 ml, and Ryxon 1 g in 3.5 ml, of 1% lidocaine solution and administered by deep intragluteal injection. It is recommended that not more than 1 g be injected on either side. The lidocaine solution must never be administered intravenously.

