Code No.: 20057973

Country: Philippines FRONT SIDE

**BACK SIDE** 



100% Pantone 485 C

the use of a Registered Medical Practitioner or a Hospital or a Laboratory only.

# CEFTRISONE-S 1.5g

# Ceftriaxone & Sulbactam for Injection

(Combipack with Sterile Water for Injections BP)

Each combipack contains :
(a) 1 vial of Ceftriaxone & Sulbactam for injection

Each vial contains: Ceftriaxone Sodium USP (Sterile)

eq. to Anhydrous Ceftriaxone Sulbactam Sodium USP (Sterile)

(b) 1 Ampoule of Sterile Water for Injections BP

Sterile Water for Injections BP

PHARMACEUTICAL FORM

### THERAPEUTIC INDICATIONS

ogens sensitive to Ceftriaxone Injection, e.g.

- Meninglits,
  Abdominal infections (peritonitis, infections of the biliary and gastro inlestinal tracts),
  Infections of the bones, joints, soft tissue, skin and of wounds;
  Infections in patients with impaired defence mechanisms.
  Renal and uninary tract infections,
  Respiratory tract infections, particularly pneumonia, and ear, nose and throat infections
  Genital infections, including gonorrheaa
  Perioperative prophylaxis of infections

# DOSAGE AND ADMINISTRATION Ceftriaxone & Sulbactam For Injection

on may be administered either by the intravenous route or intramuscularly

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Adults The usual adult daily dose in Ierms of Ceffinaxone is 1-2 grams given once a day (or in equally divided doses twice a day) depending on the type and severify of the infection. The total daily dose should not exceed 4 grams. Dosage regimen for Ceffinaxone-Sublactam should be adjusted in patients with marked decrease in renal function (creatinine decarace of 30ml/min) and to compensate for reduced clearance less than 15ml/min patient should receive a maximum of 500 mg of sulbactam every 12 hours(maximum dose 1 gram of sulbactam)

Paediatric patients
For treatment of Skin and Soft tissue infections the recommended total dailydose (in terms of Ceffriaxone) is 50
Straighting they on once a day or (in equally divided doses twice a day). The total daily dose should not exceed 1 gram
For treatment of acute bacterial otitis media. A single inframuscular dose of 50mg/kg (not to exceed 1 gram) is

recommended in treatment of Meninglis: The initial therapeutic dose in terms of Ceffriaxone should be 100 mg/kg (not to exceed 4 grams). Daily dose may be administered once a day or in equally divided doses 12 hourly. The usual duration of therapy is 7-14 days.

For treatment of serious infections other than meninglis: Recommended total daily dose in terms of Cefficaxone is 50-75 mg/kg given in divided doses every 12 hors. The total daily dose (in terms of Cefficaxone) should not exceed more than 2 grams.

CONTRAINDICATIONS

Cettnaxone & Subactam For Injection is contraindicated in patients with known allergy to Cephalosporin group of antibiotics. Hypersensitivity to penicillin may pre-dispose the patient to the possibility of allergic cross-reactions.

- SPECIAL WARNINGS AND PRECAUTIONS
   Superinfections with non-susceptible microorganisms may occur.
   Since pseudo-membranous odits has been reported to occur with ceffriaxone, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of Ceftinaxone &
- Sulbactan For Injection Cettrazene, If given at higher than standard doses, may get precipitated as its calcium salf in the gall bladder, the shadows of which seen under sonography, could be mistaken for gailstones. However, it is largely asymptomatic and the shadows disappear on discontinuation of therapy or in due course after the completion of therapy. Even in the case of symptomatic cases surgical interventions are not required, and they may be treated conservatively. Discontinuation of Ceftriaxone & Sulbactam For Injection treatment in symptomatic cases is at the
- discretion of the chinocal. Like other capital space is shown to displace bilirubin from serum albumin. Hence cau'il or needs to be exercised when considering Cetthraxone & Subbactam For Injection for the treatment of encorates with hyper-billirubinemia in order to avoid the risk of development of billirubin encopalacipathy, use of Cettriaxone & Subbactam For Injection is best avoided in neonates in general and prematures in
- During prolonged treatment with Ceftriaxone & Suibactam For Injection , blood profile should be checked
- arregular intervals.

  Dosage adjustments are not necessary in hepatic failure. However, in patients with hepatic dysfunction and significant renal malfunction, Cettriaxone & Sulbactam For Injection doses should not exceed an
- and significant rerial antifunction, Cettraxione & Subdictain For Injection doses should not exceed an equivalent of Zeidary of Cettraxione. Close serum monitioning is recommended. Extreme caution needs to be exercised in pericillin-sensitive patients. In case of serious hypersensivity reactions, SC administration of epigenphrine and other emergency measures are recommended. The allergic reaction is the indication for the interruption of Cettraxione & Subtactam For Injection therapy. Cettraxione & Subtactam For Injection should not be administered to neonates in general, hyper bilirubinemic neonates in parfocular, and to premature bablies.

- No imparment of renal function has been observed after concurrent administration of large doses of Cethraxone and potent diurectics.
   There is no evidence to suggest that Cettraxone increases renal toxicity of aminoglycosides. The elimination of Cethraxone is not altered by probeneid.
   Cettraxone and oblivamphenicol have been shown to be antagonistic in in vitro studies.
   In cases of concomitant severe renal and hepatic dysfunction, the plasma concentrations of cethriaxone should be determined at regular intervals.
   Coombistes thray show false positive results during Cethraxone therapy.
   Non-enzymatic urinary glucose estimation methods may give false-positive results.

## PREGNANCY AND LACTATION

Pregnancy
Reproductive studies have been performed in mice and rats at doses upto 20 times the usual human dose and no evidence of embryo toxicity, felotoxicity or teratogenicity. In primates no teratogenicity or embryogenicity was demonstrated at a dose approximately 3 times the human dose. There are however no well controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed

breasmeating
Low concentrations of Ceffnaxone are excreted in human milk. No risk to nursing infants have been reported but caution should be exercised when ceffriaxone sulbactam is administered to nursing women

### EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

e-Sulbactam has been associated with dizziness, which may affect the ability to drive or operate machinery.

### UNDESIRABLE EFFECTS

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Darrhoea Aussew, Vomiting (sest fiequent), Stomatifis, Giossilis, Elevations of SGOT/SGPT, Eosinophilia, Thrombo-cytoperia, Leukoperia, Granulocytoperia, Hernaloma, Exambrena, Allergic dermatifis, Pruntis, Urticaria, Edema, Erghtherna multilome, Headache, Dizzines, Indrases in senum creatinni, Myossis of the gentila tract. Oliquira, Fever

### OVERDOSAGE

OVERUDANCE: Limited information is available on the acute toxicity of Ceffriaxone & Subactam For Injection. No specific antidote is available for the treatment of overdose. Hemodialysis does not remove the furly from system effectively. Hence, the treatment for Ceffriaxone & Subactam For Injection overdose is essentially supportive and symptomatic

### PHARMACODYNAMIC PROPERTIES

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Ceftrazone is a cephalosponicesparmycin beta-lactam antibiotic used in the treatment of bacterial infections caused by susceptible, usually gram-positive, organisms. Ceftriazone has in vitro activity against gram-positive and gram-regative aerobic and anserobic bacteria. Ceftriazone works by inhibiting the mucopeptide synthesis in the bacterial cell wall. The beta-lactam moiety of Ceftriazone brids to carboxypeptidoses, endopeptidoses, and transpeptidoses in the bacterial cylopiasmic membrane. These encrymes are involved in cell-wall synthesis and cell division. By briding to these enzymes, Ceftriazone results in the formation of defeders or cell usils and cell death. Subactam is a beta-lactamase inhibitor. This drug is given in combination with beta-lactam antibiotic to inhibit beta laclaramse an enzyme produced by bacteria that destroys the antibiotics. Subactam is an irreversible inhibitor of β lactamases, it binds to the enzyme and does not allow it to degrade the antibiotic.

# PHARMACOKINETIC PROPERTIES

Absorption 
Following Internuscular administration, peak serum concentrations of Ceffriaxone and Sulbactam are seen between 15 minutes to 2 hrs. The area under curve (AUC) after IM administration is equivalent to that after the administration of an equivalent to that after the administration of an equivalent obe, inclosing 10/39 becausability for internuscularly administerated Ceffriaxone sodium. On intravenous administration Ceffriaxone sodium offitises into the tissue fluid where if given in the recommended doses bacteriolistic concentrations are maintained for upto 24 hrs. Ceffriaxone is highly bound to human serum protein by about 83-90%

Distribution
The volume of distribution of Ceffinaxone sodium is 7-12 L and that of Subactam is 18-27.6 L Ceffinaxone sodium penetrates well into the extravascular spaces, issue fluid and the synovial fluid of inflamed joints. Ceffinaxone crosses placenta and is distributed in the amniotic fluid. It is also distributed in the milk.

Metabolism Coeffination is not metabolised in the body and is eliminated unchanged via two pathways, urine and bile Metabolism of sulbactam is less than 25%.

Exception
40-50% of parenterally administered dose is excreted into the urine within 48 hours as active drug. Thus, high
concentrations are attained in urine, whatever is not excreted via kidney is excreted through bile 70-80% of
Sulbaclam is excreted by the kidney billiary excretion is minimal and renal excretion is blocked by probeneod
Sulbaclam and Certifications can be removed by hemodralysis.

# SHELFLIFE

## STORAGE CONDITIONS

Store below 30°C. Protect from light & moisture. Do not freeze Keep out of reach of children

## PRESENTATION

Ceftrisone-S 1.5g is available in vial

Manufactured by: Akums Drugs & Pharmaceuticals Ltd. 2,3,4 & 5, Sector-6B, I.I.E., SIDCUL, Ranipur, Haridwar-249 403, INDIA

