

# Ocexone<sup>®</sup>

sw*i*pha

Description:

Ocexone\* is a sterile, semi-synthetic, broad-spectrum cephalosporin antibiotic. It is a white to yellowish-orange crystalline pow which is readily soluble in water, sparingly soluble in methanol and very slightly soluble in ethanol. The colour of Ocexone\* soluti ranges from light yellow to amber depending on the length of storage, concentration and dillents used. Ocexone\* contain approximately 83 mg (3,6 mEq) of sodium per gram of Ceftriaxone. It is administered by intramuscular injection, intravenous infusion.

approximating clinic and intravamatic repetition with a repetition of Certification et al. 2 g. concentration of Certification et al. 2 g. concentration of Certification et al. 2 g. concentration of Certification of Certification et al. 2 g. concentration of Section 1.2 g. concentration 1.2 g. concentr

crobiology:

b bactericidal activity of Ceftriaxone results from inhibition of cell wall synthesis. Ceftriaxone has a high degree of stability in the sence of beta-lactamases, both penicillinases and cephalosporinases, of gram-negative and gram-positive bacteria. 
fitriaxone has been shown to be active against most strains of the following micro-organisms:

Ceftriaxone has been shown:

Aerobic gram-negative micro
Acinetobacter calcoaceticus:
Enterobacter aeropacetes:
Enterobacter aeropacetes:
Enterobacter aeropacetes:
Enterobacter aeropacetes:
Enterobacter aeropacetes:
Enterobacter aeropacetes:
Escherichia coli
Haemophilus of unaraefituenzae (incl
Haemophilus of unaraefituenzae
Klebsiella oparaefituenzae
Klebsiella oparaefituenzae
Klebsiella oparaefituenzae
Morganella morganii
Neisseria gonorrhoeae
Neisseria genorrhoeae
Neisseria menigitidis
Proteus wilgatis
Serratia marcescens

Note: Methicillin-resistant staphylococci are resistant to cephalosporins, including Ceftriaxo streptococci and enterococci, e.g., Enterococcus (Streptococcus) faecalis, are resistant.

Note: Most strains of Clos

Indications and Usage:
To reduce the development of drug-resistant bacteria and maintain the effectiveness of Ocexone® and other antibacterial drugs.
Ocexone® should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria.
Ocexone® is indicated for the treatment of the following infections when caused by susceptible organisms:

LOWER RESPIRATORY TRACT INFECTIONS caused by Streptococcus pneumoniae, Staphylococcus aureus, Haemophilus parainfluenzae, Klebsiella pneumoniae, Escherichia coli, Enterobacter aerogens, Proteus mirabilis, or Serratia marcescens.

ACUTE BACTERIAL OTITIS MEDIA caused by Streptococcus pneumoniae, Haemophilus influenzae (including beta-lactamase producing strains) or Moraxella catarrhalis (including beta-lactamase producing strains).

SKIN AND SKIN STRUCTURE INFECTIONS caused by Staphylococcus aureus, Staphylococcus epidermis, Streptococcus pyogenes, Viridans group streptococci, Escherichia coli, Enterobacter cloacae, Klebsiella oxytoca, Klebsiella pneumoniae, Proteus mirabilis, Morganella morganii, Pseudomonas aeruginosa, Serratia marcescens, Acinetobacter calcoaceticus, Bacteroides fragilis or Peptostretococcus sepecies.

URINARY TRACT INFECTIONS (complicated and uncomplicated) caused by Escherichia coli, Proteus mirabilis, Proteus vulga Morganella morganii, or Klebsiella pneumoniae.

UNCOMPLICATED GONORRHEA (cervical/urethral and rectal) caused by Neisseria gonorrhoeae, including both penicillinase-producing and non-penicillinase-producing strains, and pharyngeal gonorrhea caused by non-penicillinase-producing strains of Neisseria gonorrhoeae.

PELVIC INFLAMMATORY DISEASE caused by Neisseria gonorrhoeae. Ocexone\*, like other cephalosporins, has no activity against Chlamydia trachomatis. Therefore, when cephalosporins are used in the treatment of patients with pelvic inflammatory disease and Chlamydia trachomatis is one of the suspected pathogens, appropriate artichlamydial coverage should be added.

BACTERIAL SEPTICEMIA caused by Staphylococcus aureus, Streptococcus pneumoniae, Escherichia coli, Haemophilus influenzae, or Klebsiella pneumoniae,

IE AND JOINT INFECTIONS caused by Staphyloc bilis, Klebsiella pneumoniae or Enterobacter species.

INTRA-ABDOMINAL INFECTIONS caused by Escherichia coli, Klebsiella pnet (Note: most strains of Clostridium difficile are resistant) or Peptostreptococcus spe

MENINGITIS caused by Haemophilus influenzae, Neisseria meningitidis or Streptococcus pneumoniae. Ocexone® has also been used successfully in a limited number of cases of meningitis and shunt infection caused by Staphylococcus epidermidis and Escherichia coll.

SURGICAL PROPHYLAXIS: The pre-operative administration of a single 1 g dose of Ocexone® may reduce the incidence of properative infections in patients undergoing surgical procedures classified as contaminated or potentially contaminated.

Contraindications:

Oexone® is contraindicated in patients with known allergy to the cephalosporin dass of antibloicics,

Novantas (≤ 26 JAVS): Hyperbilirubinemic neonates, epecially prematures, should not be treated with Ocexone®. In vitro studies have shown that Ceftriaxone can displace bilirubin from its binding to serum albumin and bilirubin encephalopathy can possibly develop in these patients.

Oexone® must not be co-administered with calcium-containing i.v. solutions, including continuous calcium—containing infusions such as parenteral nutrition, in neonates because of the risk of precipitation of Ceftriaxone-calcium sult. Cases of fataleriang inclusions contained in the containing infusions of Ceftriaxone-calcium precipitates in lung and kidneys in neonates have been described even in cases where the infusion lines and the times of administration of Ceftriaxone and calcium—containing subultions differed. Therefore Ocexone® and calcium-containing inv. solutions should not be administered within 48 hours of each other in any patient.

warning:
Do not use diluents containing calcium such as Ringer's or Hartman's solution to reconstitute Ocexone\*. Particulate formation result. Co-administration via different infusion lines or different sites should also be avoided with calcium containing infusions.

Hypersensitivity: Before therapy with Ocexone\* is instituted, careful inquiry should be made to determine whether the patient has had previous hypersensitivity reactions to cephalosporins, penicillins or other drugs. This product should be given cautiously to penicillin-sensitive patients. An advantage and emperated administered with caution to any patient who has demonstrated some form of allergy, particularly to drugs. Serious acute hypersensitivity reactions may require the use of subcutaneous epinephrine and other emergency measures.

Precautions:

General: Prescribing Ocexone\* in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication increases the risk of the development of drug-resistant bacteria.

Dosage adjustments should not be necessary in patients with hepatic or renal dysfunction; however, in patients with both hepatic dysfunction and significant renal disease, Ocexone\* dosage should not exceed 2 g daily without close monitoring of serum

increases the risk of the development of drug-resistant bacteria.

Dosage adjustments should not be necessary in patients with hepatic or renal dysfunction; however, in patients with both hepatic dysfunction and significant renal disease, Ocexone\* dosage should not exceed 2 g daily without dose monitoring of serur concentrations.

Alterations in prothermore that the patient of t

nesis, Mutagenesis, Impairment of Fertility:
lesis; Considering the maximum duration of treatment and the class of the compound, carcinoge, in animals have not been performed.

Carcinogenesis: Considering the maximum duration or treatment and use dead of Certification in annials have not been performed.

Mutagenesis: Certification experience of Certification in Aminish have not been performed.

Mutagenesis: Certification exposed to potential for mutagenic activity in studies.

Mutagenesis: Certification produced no impairment of fertility when given intravenously to rats at daily doses up to 586 mg/kg/day, approximately 20 times the recommended clinical dose of 2 giday.

Perganancy: Perganancy Category B. Reproductive studies have been performed in rats at doses up to 20 times the usual human dose and have no evidence of embryotoxicity, fetotoxicity or teratogenicity. In primates, no embryotoxicity or teratogenicity was demonstrated at a dose approximately 3 times the human dose.

There are however, no adequate and 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.

\*\*Nursing Mothers:\*\* Low concentrations of Certifications are excreted in human milk. Caution should be exercised when Oceane's administered to a rursing woman.

\*\*Paediatric Use:\*\* Safety and effectiveness of Oceane's in neonates, infants and paediatric patients have been established. Invitro studies have shown that Certificatione like some other cephalosporins can displace bilirubin from serum albumin. Oceane's should not be administered to hyperbilirubinemic neonates especially prematures.

Adverse reactions:
Ocexone® is generally ocexone® therapy or of ullocal Reactions: Pain, in

Interventions:

One

Is generally well tolerated. In clinical trials the following adverse reactions which were considered to be related to one

Is generally one the service of the control of the contr

rvous System: Headache or dizziness were reported occassionally (less t ary: Moniliasis or vaginitis were reported occasionally (less than 1%) ous: Diaphoresis and flushing were reported occasionally (less than 1%).

rith the combination of chloramphenicol and Ceftria incomycin, fluconazole and aminoglycosides.

Dosage and Administration: Standard dosage Adults and children over 12 years The usual dosage is 1-2 g of Ocexone® once daily (every 24 hours). I organisms, the dosage may be raised to 4 g, once daily.

Duration of therapy:
The duration of therapy varies according to the course of the disease. As with antibiotic therapy in general, administration of Ocexone" should be continued for a minimum of 48 - 72 hours after patient has become afebrile or evidence of bacterial eradication has been obtained.

Combination therapy:
Synergy between Cocxone\* and aminoglycosides has been demonstrated with many gram-negative Bacteria under experimental
conditions. Although enhanced activity of such combinations is not always predictable, it should be considered in severe, life
threatening infections due to microorganisms such as Pseudomonas aeruginosa, Because of physical incompatibility the two drugs
nust be administered separately at the recommended dosages.

Method of administration:
As a general rule the solutions should be used immediately after preparation. Reconstituted solutions retain their physical and chemical stability for 6 hours at room temperature (or 24 hours in the refrigerator at 2 - 8°C). The solutions range in colour from pale yellow to amber, depending on the concentration and length of storage. The coloration of the solutions is of no significance for the efficacy or tolerance of the drug.

Intramuscular injection: For i.m. injection Ocexone\* 1 g is dissolved in 3.5 ml, of 1% lidocaine hydrochloride solution and injected well within the body of a relatively large muscle. It is recommended that not more than 1 g be injected at one site. The lidocaine solution should hever be administered intravenulsy.

Intravenous injection: For i.v. Injection, Ocexone\* 1 g is dissolved in 10 ml sterile water for injections. The intravenous administration should be given over 2-4 minutes.

Intravenous Infusion: The infusion should be given over at least 30 minutes. For i.v. Infusion, 2 g Ocexone\* is dissolved in 40 ml one of the following calcium-free infusion solutions: sodium chloride 0.9%, sodium chloride 0.46% - dextrose 2.5%, dextrose 5% should not be dextrose 10%, dextrane 5% in dextrose 2%, brown should not be mixed with or piggybacked into solutions containing other antimicrobial drugs or into diluent solutions other than those listed above owing to possible incompatibility.

Patients with renal impairment
In patients with renal impairment
In patients with impaired renal function, there is no need to reduce the dosage of Ocexone\* provided hepatic function is intact. Only in cases of preterminal renal failure (creatinine dearance <10 ml/min) should the Ocexone\* dosage not exceed 2 g daily. In patients with both severe renal and hepatic drysfunction, the plasma concentrations of Cefficiance should be determined at regular intervals and if necessary the dose should be adjusted.
In patients undergoing dialysis no additional supplementary dosing is required following the dialysis. Plasma concentrations should however, be monitored to determine whether dosage adjustments are necessary, since the elimination rate in these patients may be altered.

## Elderly The dosage

ecommended for adults require n

Children
Neonates, infants and children up to 12 years
Neonates, infants and children up to 12 years
The following dosage schedules are recommended for once daily administration:
Neonates (up to 14 days): 20 –50 mg/kg bodyweight once daily. This daily dose should not exceed 50 mg/kg. It is not nece
differentiate between premature and term infants. Infants and children (15 days to 12 years): 20-80 mg/kg once daily.
For children with bodyweights of 50 kg or more, the usual adult dosage should be used.
Intravenous doses of 250 mg/kg bodyweight should be given by slow infusion over at least 30 minutes.

Meningitis
In bacterial meningitis in infants and children, treatment begins with doses of 100 mg/kg (up to a maximum of 4 g) once dally. As soon as the causative organism has been identified and its sensitivity determined, the dosage can be reduced accordingly. The following duration of therapy has shown to be effective:

\*\*Neisseria meningitidis\*\*

\*\*Jean-ophilus influenze\*\*

\*\*Gdays\*

\*\*Streptococcus pneumoniae\*\*

\*\*7 days\*\*

producing and nonpenicilinase-producing strains) A single i.m. dose of 250 mg.

Perioperative prophylaxis
A single dose of 1 - 2 g (depending on the risk of infection) 30 - 90 minutes prior to surgery. In colorectal surgery, administration of Ocexone\* with or without a 5-nitroimidazole e.g. Ornidazole (separate administration, see Method of administration) has proven effective.

rresentation:
Ocexone\* is supplied in vials containing 1 g and 2 g equivalent of Ceftriaxone. The 1 g i.m. Ocexone\* is co-packaged with 3.5ml lidocaine and the i.v. Ocexone\* is co-packaged with 10ml water for injection.

### MEDICINE: KEEP OUT OF REACH OF CHILDREN

