

SCHEDULING STATUS: **S4**

PROPRIETARY NAME AND DOSAGE FORMS:

CEFTAZIDIME 1 g OETHMAAN(Powder for solution for injection)

COMPOSITION:

CEFTAZIDIME 1 g OETHMAAN 1 vial with 1.29 g of powder contains ceftazidime pentahydrate corresponding to 1.0 g of ceftazidime.

Inactive ingredient: Sodium carbonate

Sugar free

PHARMACOLOGICAL CLASSIFICATION:

A-20.1.1 Broad and medium spectrum antibiotics

PHARMACOLOGICAL ACTION:

Ceftazidime is a bactericidal cephalosporin antibiotic.

Bacteriology:

Ceftazidime is bactericidal in action, exerting its effect on target cell wall proteins and causing inhibition of cell wall synthesis. A wide range of pathogenic strains and isolates associated with hospital acquired infections are susceptible to ceftazidime in vitro, including resistant strains and multi-resistant strains. It is stable to most clinically important beta-lactamases produced by both Gram-negative and Gram-positive organisms and multi-resistant strains. Ceftazidime has high intrinsic activity in vitro and acts with few changes in minimum inhibitory concentration (MIC) at varied inoculum levels. Ceftazidime has been shown to have in vitro activity against the following organisms:

Gram-negative:

Pseudomonas aeruginosa, *Pseudomonas* spp. (other), *Klebsiella pneumoniae*, *Klebsiella* spp. (other), *Proteus mirabilis*, *Proteus vulgaris*, *Morganella morganii* (formally *Proteus morganii*), *Proteus rettgeri*, *Providencia* spp., *Escherichia coli*, *Enterobacter* spp., *Citrobacter* spp., *Serratia* spp., *Salmonella* spp., *Shigella* spp., *Yersinia enterocolitica*, *Passalacqua miltocystis*, *Aeromonas* spp., *Moraxella catarrhalis*, *Neisseria meningitidis*, *Haemophilus influenzae* (including ampicillin-resistant strains), *Haemophilus parainfluenzae* (including ampicillin-resistant strains).

Gram-positive:

Micrococcus spp., *Streptococcus pyogenes*, *Streptococcus* Group B, *Streptococcus pneumoniae*, *Streptococcus mitis*, *Streptococcus* spp., excluding *Enterococcus* (*Streptococcus faecalis*). *Bacillus* spp., mostly resistant. Ceftazidime is not active in vitro against methicillin-resistant *Staphylococci*, *Streptococcus faecalis* and many other *Enterococci*, *Listeria monocytogenes*, *Campylobacter* spp., or *Clostridium difficile*.

At a dose of 1 g injected, ceftazidime serum levels exceed MIC₅₀ for more than 12 hours for *Streptococcus* Group A and B (except *S. faecalis*), *E. coli*, *Klebsiella* spp., *Proteus* spp., *Proteus* spp. (Indole positive), *Serratia* spp., *Citrobacter* spp., *Salmonella* spp., and *Haemophilus influenzae*.

Ceftazidime is not active against the following bacteria:

Methicillin-resistant staphylococci, *Enterococcus* (*Streptococcus faecalis*), *Clostridium difficile*, *Listeria monocytogenes*, *Campylobacter* spp., *Haemophilus influenzae*.

Pharmacokinetic Properties:

In healthy subjects, the serum half-life of ceftazidime is 1.8 hours (1.5 to 2 hours) and only slightly altered by dosage or route of administration. The half-life is prolonged in patients with impaired renal function. Ceftazidime has a low serum protein binding (10%).

INDICATIONS:

CEFTAZIDIME 1g OETHMAAN is indicated for the treatment of the following infections when caused by susceptible organisms:

- **Severe infections including: septicemia, bacteraemia, peritonitis, and in immunocompromised patients, caused by *Streptococcus pneumoniae*, *Streptococcus* Group B, *Streptococcus pneumoniae*, *Streptococcus mitis*, *Streptococcus* spp., *Escherichia coli*, *Haemophilus influenzae*, *Klebsiella pneumoniae*, *Salmonella* spp., *Acinetobacter* spp., *Yersinia enterocolitica*, *Pasteurella multocida*, *Haemophilus parainfluenzae*, *Escherichia coli*, *Streptococcus pyogenes*, *Proteus mirabilis*, *Serratia* spp., or *Enterobacter* spp.**
- **Respiratory tract infections, such as pneumonia, bronchopneumonia, and bronchitis including lung infections in patients with cystic fibrosis**, caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Klebsiella pneumoniae*, *Haemophilus parainfluenzae*, *Escherichia coli*, *Streptococcus pyogenes*, *Proteus mirabilis*, *Serratia* spp., or *Enterobacter* spp.
- **Urinary tract infections**, caused by *Neisseria gonorrhoeae*, *Escherichia coli*, *Proteus mirabilis*, *Klebsiella pneumoniae*, *Proteus vulgaris*, *Morganella morganii*, *Enterobacter* spp., or *Citrobacter* spp.
- **Skin and soft tissue infections**, caused by *Streptococcus pyogenes*, *Streptococcus* spp., *Escherichia coli*, *Enterobacter* spp., *Klebsiella pneumoniae*, *Proteus mirabilis*, or *Morganella morganii*.
- **Gastrointestinal, biliary and abdominal infections**, caused by *Escherichia coli*, *Klebsiella pneumoniae*, *Streptococcus* spp., *Salmonella* spp., *Shigella* spp., or *Yersinia enterocolitica*.

CONTRAINDICATIONS:

Hypersensitivity to cephalosporin antibiotics.

WARNINGS AND SPECIAL PRECAUTIONS:

Great care should be taken if CEFTAZIDIME 1 g OETHMAAN is to be given to patients who are penicillin-sensitive. Care is also necessary in patients with known histories of allergy.

CEFTAZIDIME 1g OETHMAAN should be given with caution to patients with renal impairment; a dosage reduction is necessary. Renal and haematological status should be monitored especially during prolonged and high-dose therapy.

CEFTAZIDIME 1g OETHMAAN may interfere with the Jaffé method of measuring creatinine concentrations and may produce falsely high values; this must be taken into mind when measuring renal function. Positive results to the direct Coombs' test have been found during treatment with CEFTAZIDIME 1g OETHMAAN and may interfere with blood cross-matching.

The urine of patients being treated with CEFTAZIDIME 1g OETHMAAN may give false-positive reactions for glucose using copper-reduction reactions.

INTERACTIONS:

The concomitant use of a nephrotoxic medicine such as the aminoglycoside gentamicin may increase the risk of kidney damage with CEFTAZIDIME 1g OETHMAAN. There is a risk of enhanced nephrotoxicity with a loop diuretic like furosemide. The renal excretion of CEFTAZIDIME 1g OETHMAAN is inhibited by probenecid.

There may be antagonism between CEFTAZIDIME 1g OETHMAAN and bacteriostatic antibiotics.

HUMAN REPRODUCTION:

The safety in pregnancy and lactation has not been established.

DOSAGE AND DIRECTIONS FOR USE:

CEFTAZIDIME 1g OETHMAAN is given by deep intramuscular injection, slow intravenous injection over 3 to 5 minutes, or intravenous infusion over up to 30 minutes.

Adults:

The usual dose for adults ranges from 1 to 6 g daily in divided doses every 8 to 12 hours. The higher doses are used in severe infections especially in immunocompromised patients. In adults with cystic fibrosis who have pseudomonal lung infection, high doses of 90 to 150 mg per kg body-weight daily in 3 divided doses are used; up to 9 daily has been given to adults with normal function. Single doses of more than 1 g should be given intravenously.

Children:

Children are usually given 30 to 100 mg per kg daily in 2 or 3 divided doses, but in severely ill children up to 150 mg per kg daily to a maximum of 6 g daily may be given in 3 divided doses.

Neonates and infants up to 2 months old:

A dose of 25 to 60 mg per kg daily in 2 divided doses is effective.

Elderly:

In the elderly, the dose should generally not exceed 3 g daily.

Renal impairment:

In patients with renal impairment the dosage of CEFTAZIDIME 1g OETHMAAN may need to be reduced. Following a loading dose of 1g maintenance doses are based on the creatinine clearance.

Maintenance doses are:

| Creatinine clearance (ml/min) | Recommended dosage |
|-------------------------------|----------------------|
| 31 to 50 | 1 g every 12 hours |
| 16 to 30 | 1 g every 24 hours |
| 6 to 15 | 0.5 g every 24 hours |
| < 5 | 0.5 g every 48 hours |

In severe infection these doses may need to be increased by 50 %. In these patients ceftazidime trough serum concentrations should not exceed 40 µg/ml. In patients undergoing peritoneal dialysis a loading dose of 1 g may be given followed by 500 mg every 24 hours; ceftazidime sodium may also be added to the dialysis fluid, usually 125 to 250 mg of ceftazidime for 2 litres of dialysis fluid. In patients undergoing haemodialysis a loading dose of 1 g is given and should be repeated after each dialysis period.

Administration:

CEFTAZIDIME 1g OETHMAAN may be given intravenously or by deep intramuscular injection into a large muscle mass such as the upper outer quadrant of the *gluteus maximus* or lateral part of the thigh.

Instructions for reconstitution:

It is preferable to use freshly constituted solutions of CEFTAZIDIME 1g OETHMAAN. See table below for addition volumes and solution concentrations:

| Vial size | Amount of diluent to be added (ml) | Approximate concentration (mg/ml) |
|-----------------------|------------------------------------|-----------------------------------|
| 0.5 g intramuscular | 1.5 | 238 |
| 0.5 g intravenous | 5.0 | 91 |
| 1 g intramuscular | 3.0 | 263 |
| 1 g intravenous | 10 | 91 |
| 2 g intravenous bolus | 10 | 174 |

When ceftazidime is dissolved, carbon dioxide is released and a positive pressure develops. For ease of use, follow the recommended techniques of reconstitution described below.

Intramuscular administration:

Ceftazidime should be reconstituted with Water for Injection or 0.5 % 1% Lidocaine hydrochloride injection, as indicated in the table above. The package insert for Lidocaine should be consulted before reconstitution of ceftazidime with lidocaine.

Parenteral administration:

For direct intermittent intravenous administration, reconstitute ceftazidime with Water for Injection (see table above). Slowly inject the solution directly into the vein over a period of up to 5 minutes or give through the tubing of a giving set.

Instructions for reconstitution:

1. Insert the needle through the vial closure and inject the recommended volume of diluent. The vacuum may assist entry of the diluent into the syringe needle.
2. Stop to dissolve; carbon dioxide is released and a clear solution obtained in about 1 to 2 minutes.
3. Invert the vial. With the syringe plunger fully depressed, insert the needle through the vial closure and withdraw the total volume of solution into the syringe (the pressure in the vial may aid withdrawal). Ensure that the needle remains in the vial closure and does not enter the headspace. The withdrawn solution may contain small bubbles of carbon dioxide, they may be disregarded.

For short intravenous infusion (e.g. up to 30 minutes), CEFTAZIDIME 1g OETHMAAN may be dissolved in 50 ml Water for injections as follows:

1. Insert the syringe needle through the vial closure and inject 10 ml of diluent. The vacuum may assist entry of the diluent.
2. Stop to dissolve; carbon dioxide is released and a clear solution obtained in about 1 to 2 minutes.
3. Insert a gas relief needle through the vial closure to relieve the internal pressure. With the gas relief in position, add the remaining 40 ml of diluent. Remove the gas relief needle and syringe needle; shake the vial and set up for infusion use in the normal way.

Note: To preserve product sterility, it is important that a gas relief needle is not inserted through the vial closure before the product has dissolved.

These solutions may be given directly into the vein or introduced into the tubing of a giving set if the patient is receiving parenteral fluids.

Compatibility with fluids:

CEFTAZIDIME 1g OETHMAAN should not be mixed with solutions with a pH above 7.5, for example sodium bicarbonate solution for injection. CEFTAZIDIME 1g OETHMAAN and aminoglycosides should not be mixed in the solution for injection because of the risk for precipitation. At ceftazidime concentrations between 20 mg/ml and 333 mg/ml the CEFTAZIDIME 1g OETHMAAN powders for injection/infusion may be mixed in common used dilutions for infusion:

- 0.9 % sodium chloride solution (physiological saline solution)
- 5 % glucose solution
- 0.9 % sodium chloride + 5 % glucose solution
- Ringer's Lactate Solution

When reconstituted for intramuscular use, CEFTAZIDIME 1g OETHMAAN powder for injection/infusion can also be diluted with 1 % lidocaine solutions.

SIDE EFFECTS

Haematological disorders:

The following side-effects have been reported and the frequencies are unknown: gastrointestinal adverse effects such as nausea, vomiting, and diarrhea. Prolonged use may result in overgrowth of non-susceptible organisms and pseudomembranous colitis may develop.

Hepatotoxicity:

The following side-effects have been reported and the frequencies are unknown: transient increases in liver enzyme values. Hepatitis and cholestatic jaundice.

Immune system disorders (including skin reactions):

The following side-effects have been reported and the frequencies are unknown: convulsions and other signs of CNS toxicity have been associated with high doses, especially in patients with severe renal impairment.

Musel and urinary disorders:

The following side-effects have been reported and the frequencies are unknown: nephrotoxicity. Acute renal tubular necrosis has followed excessive dosage and has also been associated with its use in older patients or those with pre-existing renal impairment or those with the concomitant administration of nephrotoxic medicines such as aminoglycosides. Acute interstitial nephritis is also a possibility as a manifestation of hypersensitivity.

General disorders and administration site conditions:

The following side-effects have been reported but the frequencies are unknown: there may be pain at the injection site following intra-muscular administration, and thrombocytopenia has occurred following intravenous infusion. There may be a positive response to the Coombs' test.

KNOWN SYMPTOMS OF OVERDOSEAGE AND PARTICULARS OF ITS TREATMENT:

See "SIDE EFFECTS and WARNINGS AND SPECIAL PRECAUTIONS". Serum levels of CEFTAZIDIME 1g OETHMAAN are reduced by dialysis. Treatment is supportive and symptomatic.

IDENTIFICATION:

CEFTAZIDIME 1 g OETHMAAN: a white to cream coloured powder.

PRESENTATION:

CEFTAZIDIME 1 g OETHMAAN powder for solution for injection is packed in cartons containing 1 or 10 single dose, clear, colourless glass vial/s with a grey rubber stopper and aluminium cap with a red flip-off seal.

STORAGE INSTRUCTIONS:

Store in the original packaging (in the carton) at or below 25 °C. The contents are stable for 24 months for immediate use, but the solution may be stored in the original vial in the refrigerator at 2 to 8 °C for 24 hours. After use, discard any remaining solution.

KEEP OUT OF THE REACH OF CHILDREN.

REGISTRATION NUMBERS:

CEFTAZIDIME 1 g OETHMAAN: 41/20.1.1/0922

NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE CERTIFICATE OF REGISTRATION:

OETHMAAN BIOSIMS (PTY) LTD.

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HANDELSNAAM EN DOSEERVORM

CEFTAZIDIME 1 g OETHMAAN (poeler vir oplossing vir inspuiting)

SAMESTELLING

CEFTAZIDIME 1 g OETHMAAN 1 flesje met 1,29 g poeler bevat ceftazidimepentahydrat gelijkstaande aan 1,0 g ceftazidime.

Onderdelen bestanddeel: Natrumkarbonaat

Suiker vry

FARMAKOLOGIESE KLASIFIKASIE

A 20.1.1 Breë en mediumsporenbacteriëntibiotika

FARMAKOLOGIESE WERKING

Ceftazidime is 'n bakteriodesondend kefalosporienantibiotikum.

Bakteriologie

Ceftazidime is bakteriodesondend van werking en oefen sy effek uit op teikenswendproteïne en veroorsaak remming van selwandsintese. 'n Wyk verskeidenheid van patogene stamme en isolate wat verband hou met hospitalverwone infeksies, is in vitro vatbaar vir ceftazidime, waaronder weerstandige stamme en multiverstandige stamme. Dit is steeds ten volle belangrik om die werkplek te wet dat daar is. Gram-negatiewe en Gram-positiewe organismes geproduseer word, waaronder multiverstandige stamme. Ceftazidime het in vitro 'n høe intrinsiese aktiwiteit en werk met 'n paar verskille in die minimum inhibisiekonseptasie (MIK) by verskillende inokulumvlakke. Dit is getoon dat ceftazidime in vitro aktiwiteit teen die volgende organismes het:

Gram-negatief

Pseudomonas aeruginosa, Pseudomonas spp. (ander), Klebsiella pneumoniae, Klebsiella spp. (ander), Proteus mirabilis, Proteus vulgaris, Moraxella catarrhalis, Proteus rettgeri, Proteus spp., Escherichia coli, Enterobacter spp., Citrobacter spp., Serratia spp., Salmonella spp., Shigella spp., Yersinia enterocolitica, Pasteurella multocida, Acinetobacter spp., Neisseria gonorrhoeae, Neisseria meningitidis, Haemophilus influenzae (insluitend ampicillien-weerstandige stamme), Haemophilus parainfluenzae (insluitend ampicillien-weerstandige stamme).

Gram-positief

Micrococcus spp., Streptococcus pyogenes, Streptococcus Group B, Streptococcus pneumoniae, Streptococcus mitis, Streptococcus spp., uitgesluitend streptococcus Group A, Streptococcus faecalis, Streptococcus spp., Escherichia coli, Enterobacter spp., Citrobacter spp., Serratia spp., Salmonella spp., Shigella spp., Yersinia enterocolitica, Pasteurella multocida, Campylobacter spp., Listeria monocytogenes, Clostridium difficile.

Metaboliseerende stamme

Enterococcus (Streptococcus) spp., Enterococcus faecalis, Enterococcus faecale, Clostridium perfringens, Listeria monocytogenes, Campylobacter spp., Clostridium difficile.

Farmakokinetiese eienskappe

In gesonde mense is ceftazidime van ceftazidime 1,8 uur (1,5 tot 2 uur) en dit word min deur die dosis of toedieningsrente beïnvloed. Die halfleeftyd is langer in pasiente met swak leverfunksie. Ceftazidime het 'n lae serumproteïnebinding (10%).

INDIKASIES

CEFTAZIDIME 1 g OETHMAAN is aangewys vir die behandeling van die volgende infeksies wanneer deur vatarele organisme veroorsaak:

- Erge infeksies, waaronder sepsiemie, bakteriemie, peritonitis, en in pasiente met swak immuniteit, insluitend Streptococcus pneumoniae, Streptococcus Group B, Streptococcus faecalis, Streptococcus mitis, streptococcus spp., Escherichia coli, Haemophilus influenzae, Klebsiella pneumoniae, Salmonella spp., Acinetobacter spp., Yersinia enterocolitica, Pasteurella multocida.

- Respiratoire infeksies soos longontsteking, bronchopneumonie en brongitis, insluitend longinfeksies in pasiente met sistiese fibrose, insluitend Streptococcus pneumoniae, Haemophilus influenzae, Klebsiella pneumoniae, Haemophilus parainfluenzae, Escherichia coli, Streptococcus pyogenes, Proteus mirabilis, Serratia spp., of enterobacter spp.

- Oor-, neus- en keelinfeksies, veroorsaak deur Streptococcus pneumoniae, Haemophilus influenzae, Klebsiella pneumoniae, Haemophilus parainfluenzae, Escherichia coli, Streptococcus pyogenes, Proteus mirabilis, Serratia spp., ff Enterococcus spp.

- Urethraal infeksies, veroorsaak deur Escherichia coli, Haemophilus influenzae, Proteus mirabilis, Morganella morganii, Enterobacter spp., of Citrobacter spp., Klebsiella pneumoniae, Proteus mirabilis, of Morganella morganii.

- Vel- en sageweefselinfeksies, veroorsaak deur Streptococcus pyogenes, Streptococcus spp., Escherichia coli, Enterobacter spp., Klebsiella pneumoniae, Proteus mirabilis, of Morganella morganii.

- Gastro-intestinale, gal- en abdominale infeksies, veroorsaak deur Escherichia coli, Klebsiella pneumoniae, Streptococcus spp., Salmonella spp., Shigella spp., of Yersinia enterocolitica.

KONTRAINDIKASIES

Hipersensitiviteit teen ceftazidime en pseudomonasantibiotika.

WAARSUKWINGS EN SPESIALE VOORSORGMATREËNS

Wees bale versigtig as CEFTAZIDIME 1 g OETHMAAN gegee word aan pasiente wat penicilin-sensitief is. Wees ook versigtig met pasiente met 'n bekende geskiedenis van allergie.

CEFTAZIDIME 1 g OETHMAAN moet versigtig gegee word aan pasiente met swak nierfunksié; 'n verlaging van die dosis is nodig. Nier- en hematologiese status moet veral tydens langdurige behandeling en met hoë dosisse gemonitor word.

CEFTAZIDIME 1 g OETHMAAN kan immeng met die Jaffé-metode om kreatienekonsentrasies te meet en kan vals hoë waardes gee; dit moet in gedagte gehou wordanneer dié funksie gescrewe word. Penetrasie van ceftazidime in die huid is onbekend. Ceftazidime is tydens behandeling met CEFTAZIDIME 1 g OETHMAAN gekry en dit kan immeng met toets vir verenigbaarheid van bloed.

Die urien van pasiente wat met CEFTAZIDIME 1 g OETHMAAN behandel word, kan valse positiewe reaksies vir glukose gee as dit die koperreduksiereaksie gebruik.

INTERAKSIES

Die gelyktydige gebruik van nefrotoksiese medisyne soos aminoglikoside, gentamisin en tobramisin kan die risiko vir nierskade deur CEFTAZIDIME 1 g OETHMAAN verhoog.

Dit is onbekend of ceftazidime ergens nefrotoksiteit met fusiurektia soos veroorsaak. Die renale uitbreiding van CEFTAZIDIME 1 g OETHMAAN word deur probenesine gemaak.

Daar kan antagonistiese weess tussen CEFTAZIDIME 1 g OETHMAAN en bakteriostatische antibioticumsmedels.

MENSLIKE VOORTPLANTING

Veiligheid en effektiviteit tydens swangerskap en borsvoeding is nie bepaal nie.

DOOSIS EN GEBRUIKSAANWYSINGS

CEFTAZIDIME 1 g OETHMAAN word gegee deur diep intramuskulêre inspuiting, stadiig binneare inspuiting voor 3 tot 5 minute, of binneare infusie oor tot 30 minute.

Volwassene

Die geplaasde dosis vir volwassenes wissel van 1 tot 6 g per dag in verdeelde dosisse elke 8 tot 12 uur. Die hoë dosisse word vir ernste infeksies gebruik, terwyl pasiente met 'n immunoongebrek. In volwassenes met sistiese fibrose wat longinfeksies deer pseudomonas het, word hoë dosisse van 90 tot 150 mg per kg liggaamsmassa daagliks in 3 verdeelde dosisse gebruik; tot 9 g per dag is een volwassenes met normale funksie gegee. Enkeldosisse van meer as 1 g moet intraveneus gegee word.

Kinders

Kinders kry gewoonlik 30 tot 100 mg per kg daagliks in 2 of 3 verdeelde dosisse, maar in ernste situasies tot 150 mg per kg daagliks tot 'n maksimum van 6 g per dag mag in 3 verdeelde dosisse gegee word.

Neonate en babas tot 2 maande ou

'n Dosis van 25 tot 60 mg per kg daagliks in 2 verdeelde dosisse is effektief.

Onherdaapsele dosisse:

| Kreatieninopruiming (ml/min) | Aanbevole dosis |
|------------------------------|-------------------|
| 31 tot 50 | 1 g elke 12 uur |
| 16 tot 30 | 1 g elke 24 uur |
| 6 tot 15 | 0,5 g elke 24 uur |
| < 5 | 0,5 g elke 48 uur |

Bejaardes

Vir bejaardes moet die dosis oor die algemeen nie 3 g oorskry nie.

Swak nierfunksie

Vir pasiente met swak nierfunksie kan die dosis CEFTAZIDIME 1 g OETHMAAN dalk verlaag word. Na 'n ladingdosis van 1 g, is die onderhoudsdosis gebaseer op die kreatieninopruiming.

Onderhoudsdosisse is:

Vir erge infeksie moet hierdie dosisse met 50% verhoog word. Vir hierdie pasiente moet die trogkonsentrasie van ceftazidime in die serum nie 40 µg / ml oorskry nie. Vir pasiente wat peritoneale dialise ondergaan, kan 'n ladingdosis van 1 g gegee word, gevvolg deur 500 mg elke 24 uur; natrumceftazidime kan ook by die dialisevolesof gevoeg word, gevvolg deur 500 mg elke 24 uur. Vir pasiente wat hemodialise ondergaan, word 'n ladingdosis van 1 g gegee en dit moet dan na elke dialiseperiode herhaal word.

Toediening

CEFTAZIDIME 1 g OETHMAAN kan intraveneus of deur diep intramuskulêre inspuiting in 'n groot spiermassa toegedien word, soos die boonste buitenoeste kwadrant van die gluteus maximus of laterale deel van die dij.

Aanwysings vir aanmaak

Dit is verkeerdlik om vars aangemaakte oplossings van CEFTAZIDIME 1 g OETHMAAN te gebruik. Kyk in die tabel hier onder vir die volume oplosmiddel om dit te voeg en die benaderde konsentrasies van die oplossings:

| Flessiegrootte | Volume oplosmiddel om by te voeg (ml) | Benaderde konsentrasie (mg/ml) |
|------------------------|---------------------------------------|--------------------------------|
| 0,5 g intramuskulêr | 1,5 | 238 |
| 0,5 g intraveneus | 5,0 | 91 |
| 1 g intramuskulêr | 3,0 | 263 |
| 1 g intraveneus | 10 | 91 |
| 2 g intraveneuse bolus | 10 | 174 |

Wanneer ceftazidime opgelos word, word koolstofdioksied vrygestel en ontstaan 'n groter atmosferiese druk. Vir gemak van gebruik, volg die volgende regname vir die aanmaak wat hieronder beskryf word.

Intraveneuse toediening:

Ceftazidime moet aangemaak word met water vir inspuiting of 0,5% of 1% lidokaina-hidrochloried inspuiting, soos in die tabel hier bo aangedui. Die inligting in die volblou van lidokaina moet geraadpleeg word voor die aanmaak van ceftazidime met lidokaina.

Intraveneuse toediening:

Wanneer ceftazidime ondervlore intraveneuse toediening, moet ceftazidime met water vir inspuiting of 0,5% lidokaina-hidrochloried inspuiting, soos in die tabel hier bo aangedui. Die inligting in die volblou van lidokaina moet geraadpleeg word voor die aanmaak van ceftazidime met lidokaina.

Aanwysings vir aanmaak:

- Steek die naald deur die flesje se prop en spuit die aanbevele volume oplosmiddel in. Die vakuum kan die inlaat van die oplosmiddel ontdek. Verwyder die sifon.
- Stuur om die sifon in die oplosmiddel en vrygestel die vloeistof.

- Keer die flesje om. Steek die naald met die spuit se suier heettemal ingedruk deur die flesje se prop, en trek die volle volume oplossing op in die spuit (die druk in die flesje kan die ontrekking aangehelp). Maak suier dat die spuit vol is en die oplossing bly en nie in die kontainer kom nie. Die ontrekking oplossing kan koolstofdioksied bevat, en hulle kan geignoerde word.

Vir oral intraveneuse infusie (bv. tot 30 minute), kan CEFTAZIDIME 1 g OETHMAAN soss volg in 50 ml water vir inspuiting opgelos word:

- Steek die sifon in die oplosmiddel en vrygestel die vloeistof.

- Stuur om die sifon in die oplosmiddel en vrygestel die vloeistof.

- Steek die naald in die flesje se prop om die interne druk te verlig. Met die gasverligting in posisie, voeg die oorblywende 40 ml verdunningsmiddel by. Verwyder die gasverligtaal en sifon.

Let wel! Om similituditeit van die produk te bewaar, is dit belangrik dat in die volblou van ceftazidime opgelos word voor die gebruik van die oplosmiddel. Hierdie oplossings kan direk in die aar ingedien word of in die buis van die toediening indien die pasiente parenterale vloeistowwe ontvang.

Verenigbaarheid met vloeistowwe:

CEFTAZIDIME 1 g OETHMAAN moet nie met oplossings met 'n pH bo 7,5 gemeng word nie, byvoorbeeld natrumkarbonaatoplossing. CEFTAZIDIME 1 g OETHMAAN en aminoglikoïde moet as gevolg van die instabiliteit van ceftazidime in oplosning vir inspuiting gemeng word. By konsentrasie van ceftazidime van 20 mg/ml en 333 mg/ml kan CEFTAZIDIME 1 g OETHMAAN-poeler vir inspuiting / infusie met die algemeen gebruikte oplossings vir infusie gemeng word:

- 0,9% natrumchlorionedoplossing (fisiologiese soutoplossing)
- 5% glukose-oplossing
- 5% natrumkloride
- Ringer se lektatooplossing

Wanneer vir intramuskulêre gebruik aangemaak word, kan CEFTAZIDIME 1 g OETHMAAN-poeler vir inspuiting / infusie ook met 1% lidokainenoplosning verdun word.

NEWE-EFFECTE

Hematologiese versteurings:

Die volgende neue-effekte is aangemeld, maar die frekvensies is onbekend: neutropenie en trombopenie. Bloedingskomplikasies wat met hidroksiure, urikure en die hekseptale-distrikusie verband hou, het voorgekom. Hemolitiese anemie kan ook voorkom.

Gastro-intestinale versteurings:

Die volgende neue-effekte is aangemeld en die frekvensies is onbekend: konvulsies en ander tekenes van SSZ-toxisiteit het met hoë dosisse geplaasgedoen en veral in pasiente met erg swak nierfunksié.

Versteurings van immunstelsel (waaronder verlaeekies ingestuis uit):

Die volgende neue-effekte is aangemeld, maar die frekvensies is onbekend: die mes algemene nadelige effekte is hypersensitiviteitsreaksies, waaronder urikure, eosinofilia, koers, reaksies wat soos seruslike lyk en afname.

Versteurings van die senusstelsel:

Die volgende neue-effekte is aangemeld, maar die frekvensies is onbekend: konvulsies en ander tekenes van SSZ-toxisiteit het met hoë dosisse geplaasgedoen en veral in pasiente met erg swak nierfunksié.

Versteurings van die niere en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

Versteurings van die ure en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

Versteurings van die niere en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

Algemene versteurings en effekte by die plek van toediening:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: tydelike styngings in die leverensiemvlakte Hepatitis en cholestaseel geelsgel.

Versteurings van die niere en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

Versteurings van die ure en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

Versteurings van die niere en uremweg:

Die volgende nieu-effekte is aangemeld, maar die frekvensies is onbekend: 'n acute tubuläre necrose nekrose het na intraveneuse infusie voorgekom en is oor die volle periode van die toediening.

BEKENDE SIMPTOME VAN OORDOSERING EN BESONDERHEDEN

Sien 'n OOREEFFECTE EN WAARSUKWINGS EN SPESIALE VOOR-PROMOTIEELLE.

Die vierkante van CEFTAZIDIME 1 g OETHMAAN in die serum word deur diafraal verlaag.

Behandeling is ondersteunend en simptomatis.

IDENTIFIKASIE

CEFTAZIDIME 1 g OETHMAAN: 'n wit tot roomkleurige poeler.

AANBIEDING

CEFTAZIDIME 1 g OETHMAAN-poeler vir oplossing vir inspuiting word in kartonne verpak wat 1 tot 10 kleurlose glasflessies met 'n enkelle dosis bevat met hys rubberproses en aluminiumdoppie met 'n rooi atipiese.

BEWARENGSINOMMERS

CEFTAZIDIME 1 g OETHMAAN: 41/20/1.1/0922

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