Cefazolin=AFT

Name of the medicine

Cefazolin-AFT Powder for Injection 500 mg

Cefazolin-AFT Powder for Injection 1 a

(Cephazolin sodium 524 mg and 1,048 g equivalent to Cephazolin 500 mg and 1 g)
Cephazolin sodium has the chemical name sodium (6R,7R)-3-[(6-methyl-1,3,4-thiadiazol-2

vite.ibhanvilmethvit-il-oxo-7-i/11-tetrazol-1-vteretviteminol-5-this-1-ezebicvoloi4-2-0loct-2-ene-2arboxylate. It has the chemical formula C14H13NaNaO4S3 with a molecular weight of 476.5. The

Cephazolin sodium is a white or almost white powder which is freely soluble in water but only very slightly soluble in ethanol. When reconstituted with Water for Injections or other competible solutions a pale yellow to amber solution is formed depending on the concentration and storage time.

In vitro tests demonstrate that the bectericidal action of ceobalosporins results from inhibition of cell wall synthesis, Cephazolin has been found to be active against the following organisms in vitro:

- Staphylococcus aureus (penicillin sensitive and penicillin resistant)
- Group & B-basemontic strentococci and other strains of strentococci (many strains of enterobacter are resistant)
- Streptococci pneumoniae
- Proteus minshills
- Enterobacter aerogenes
- Haemophilus Influenzae

Most strains of Enterobacter cloacee and indole-positive proteus (P. vulgaris, P. morganii, P. rettgari)

are resistant.
Metricillar resistant staphylococci, serratia, pseudomonas, Acinetobacter calcoaceticus (previously
Mina and Herelies sp.) are almost uniformly resistant to Caphazolin.

Susceptibility tests

Dilution or diffusion techniques (either quantitative (MIC) or breakmoint) should be used following a District of diffusion recrimings (either quantum level) or preaspoint; should be used rollowing a recognised and standardised method e.g. NCCLS.

A report of "susceptible" indicates that the infecting organism is likely to respond to therapy. A report

A report of 'resistant' indicates that the infecting organism is not Busity to respond to therapy. A report of 'mediantely susceptible or intermediate' suggests that the organism would be susceptible if high dosage is used or if the infection were confined to issues and fluids (e.g. urine) in which high artibilities levels are attained.

Cephazolin sodium is poorly absorbed from gastrointestinal tract and is given by intramuscular or intravenous injection. Following a dose of 500 mg given intravenous miscularly, peak plasma concentration of 30 moghts. are obtained effor 1–2 hours, About 25% of Cephazolin in circulation is bound to plasma of 30 mogint, are obtained after 1-2 hours, About 25% of Cephazadi in circulation is bound to glasma-proteins. The plans half-life of Cephazadis is about 1.5 hours and is increased in patients with renal impairment. Cephazadin offluxes into bone and assilic pleanal and sprovide fluid but not appreciately into conservospind fluid. Cephazadin is not matabolized. It is accreted unchanged in the urine, primarily by glamentals illustion and to a losses existent by futular secretion. About 82-69% is accreted unchanged in the urine within 24 hours,

endications
Cephazolin is indicated in the treatment of the following serious infections due to susceptible

- Respiratory Tract Infection
- Genitourinary Tract Infections Skin and Soft-tissue Infections
- Bone and Joint Infections

Appropriate culture and susceptibility studies should be performed to determine susceptibility of the

Patients with known allergy to the cephalosporin group of antibiotics.

Before Cephazolin therapy is instituted, careful inquiry should be made concerning pre hypersensitivity reactions to cephalosporins and penicillin. Cephalosporin C derivatives should be given cautiously to penicillin-sensitive patients. Serious acute hypersensitivity reactions may require adrenatine and other emergency measures.

There is some clinical and laboratory evidence of partial cross-allergenicity between the penicilling and the cephalosporine. Patients have been reported to have had severe reactions (including anaphylaxis) to both medicines.

If an allergic reaction to Cenhazolin occurs, the medicine should be discontinued and the nation treated with the usual agents, e.g. adrenaline or other pressor amines, antihists

Antibiotics, including Centrarylin should be administered cautiously to any natient who has

demonstrated some form of allergy, particularly to medicines.

Pseudomembranous collis has been reported with virtually all broad-spectrum antibiotics (including

Pseudomemorarius card son reports with virtually as proso-operarum amonosis (including microdides, semigriphilatic perioditis). It is important to consider the diagnosis in patients who develop diamnosis in socialism with the little properties of the properties of the properties of the diagnosis in patients who develop diagnosis in moderate to severe cases, appropriate measures should be taken. Properties of the properties of parisms, Cardid chinal dosenvation of the patient is essential. It superfection occurs during therapy, repropriate direct dosenvation of the patient is essential. It superfection occurs during therapy, repropriate

measures should be taken.

Encephalopathy has been reported with the use of Cephazolin in patients with renal failure. When Cophazolis is administered to patients with low urinary output because of impaired man functional forms of the control of the

he intrathecal administration of Cephazolin is not an approved route of administration for this tibidiot. There have been report of severe central nervous system (CNS) toxicity including itsures when Cephazolin was administered in this manner, coad spectrum antibiotics should be prescribed with caution in individuals with a history of striciniatinal disease, particularly collis.

gastrointentral disease, particularly cells. Usage in infrastru. Salely for use in premature infrarts and infrants under one month of age has not been established. Carclinoganests, Mutagenests, Impairment of Furtility Mutagenicity studies and knoplems studies in animals to determine the carcinogenic potential of Caphazolin have not been performed.

Caphazolin have not been performed.

We during Preparancy and Lacteflon
There are, however, no adequate and well-controlled studies in pregnant women. There is no
vedence of inspand fertiley or teaching preparation of the preparation of the

and it's preferable to discontinue breast feeding.

Effects on ability to drive and use machines

ctions with Other Medicines and Other Forms of Interaction

<u>Probanscid</u>

Weed concurrently, probenecid may decrease renal tubular secretion of cephalosporins resulting in increased and more prolonged cephalosporin blood levels.

Information and many proprieties Consequence of the proprieties of the Carlinoide control and the Carl

Live typhoid vaccine

Antibiotics which possess bacterial activity against Salmone\(\)a typhi organisms may interfere with the immunological response to live typhoid vaccine, 24 hours or more should dispose between the last does of the antibidic and the live typhoid vaccine.

Warfarin
Patients receiving warfarin therapy should be closely monitored using the prothrombin time ratio or remarks receiving winners amongs around a consequence of the provision of the adjusted to maintain the required anti-coagulant effect. Alternatively a cephabosporin which does not have hypoprofitmonismic proposities may be used. Cephazolin may produce hypoprothrombinemia and may enhance the anticoagulant effect of

Laboratory tests A false-continue

<u>Additional vision</u>

A false-positive reaction for glucose in the urine may occur with Benedict's solution, Fehling's solution, or CLINITEST Tablets, but not with enzymo-based tests, such as CLINISTIX and TES-

Positive direct and indirect antiglobulin (Coombe') tests have occurred; these may also occur in negrates whose mothers received cephalosporins before delivery.

The following reactions have been reported:

Adverse Effects

rypersensmivity: fedicine fever, skin rash, vulvar pruritus, eosinophilia, Stevens-Johnson syndrome and anaphylaxis

penia, leucopenia, thrombocytopenia, thrombocythaemia and positive direct and indirect

Renat:
Transient rise in BUN levels has been observed without clinical evidence of renal impairment, Interestial nephritis and other renal disorders have been reported rarely. Most patients experiencing these effects have been seriously ill and were receiving multiple medicine therapies. The role of Cophazolin in the development of nephropathies has not been determined.

reparts: Fransient rise in AST, ALT, and alkaline phosphatase levels have been observed rarely. As with some penicillins and some other cephalosporins transient hepetitis and cholestatic jaundice have been reported rarely.

Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment. Nausea and vomiting have been reported rarely. Ancrexia, diarrhoea and oral candidiasis (Oral

Other:

Pain on intransactilar injection, sometimes with induration, has occurred infrequently. Prisibilits at the atte of higotion has been noted. Other reactions have included genital and anal pruntus, genital more always, and support of the principal support of the pr

Dosage and Administration

Cephazolin may be administered intramuscularly or intravenously after reconstitution. Total daily

Cephasonir may be administered intramacuasity or intravenuesy are incommended to design and the design are the same for either route of administration.

The intrathocal administration of Cephason is not an approved route of administration for this antibiotic. There have been reports of severe CNS toxicity including seizures when Cephasonin has neen administered in this ma

been administered in this manner. Internancializa Administration: Reconstitute as directed below. Shake well until disadived, The 500 mg visit can be reconstituted with 0.9% Sodium Chloride Injection, Starfe Water for Injection or Bacteriostatic Water for Injection, The 1 g visit should only be reconstituted with Starfe Water for Injection or Bacteriostatic Water for

hjection. Cephazolin should be injected into a large muscle mass. Do not use the reconstituted injection solution if there is any sign of turbidity.

Vial Size	Discert to be Added	Approx, Available Volume	Approx. Average Concentration
500 mg	2 mL	2,2 mL	225 mg/mL
1 g	3 mL	3,5 mL	286 mg/mL

ephazolin may be administered by intravenous injection or by continuous or intermittent infusion

Ceprazion may se aurennesses y la manufactura de la contra del contra de la contra del la contra de CEFA INJ_PI_MY_rev12.2017(v2)

Injection, 5% Dextrose and 0.9% Sodium Chloride Injection (also may be used with 5% Dextrose and 0.45% or 0,2% Sodium Chloride Injection), Lactated Ringer's Injection, Ringer's Injection, or Plasme-Lybe with 5% Dextrose.

Plasma-Lyle with 5% Dastrions. Intraveous literations: 50 mg or 1 g of Caphazelin in a minimum of 10 mL, of Starle Water for Distate for reconstituted 50 mg or 1 g of Caphazelin in a minimum of 10 mL, of Starle Water for Placetion. Inject exhibition showly over a period of 3 to 5 minutes. It may be administrated directly into the vent on through the bullength or a patient receiving one of the LV, solutions indicated above under bitraveous in Elancia, Op not rigent in less than 3 minutes.

Adults
Mild to moderate Gram-positive infections: 250 = 500 mg every 8 hours

Mild to moderate infections of the respiratory tract caused by Strep pneumonia; 500 mg every 12

hours.

Mild to moderate infections of the genitourinary tract caused by susceptible organisms: 1 g every 12.

house, in house, house,

Renal impairment Creatinine Clearance (mL/min/1,73m²)	Total daily dose (g)	Dose/application (g)	Dosage interval (h)
>80	1-4	0.5-1.0	4-8
80-60	1-2	0.5-1.0	6-8
50-20	0.5-1.0	0.5	12-24
<20	0,5	0,25-0,5	12-24
Haemodialysis	0.5 after each heemodialysis	0_54-8	80

Children
In children, a total daily dosage of 25 to 50 mg/kg of body weight, divided into 3 or 4 equal doses, is
effective for most mild to moderately severe infections. Total daily dosage may be increased to 100 mg/kg of body weight for severe infections.

Weight	25 mg/kg/day Divided into 3 do	ses	25 mg/kg/day s Divided into 4 doses	
kg	Approximate single dose (mg 8 hourly)	Volume (mL) needed with dilution of 125 mg/ml.	Approximate single dose (mg 6 hourly)	Volume (mL) needed with dilution of 125 mg/mL
4.5	40 mg	0.35 mL	30 mg	0.25 mL
9	75 mg	0.6 mL	55 mg	0,45 mL
13.6	115 mg	0.9 mL	85 mg	0.7 mL
18.1	150 mg	1.2 mL	115 mg	0.9 ml.
22.7	190 mg	1,5 mL	140 mg	1.1 mL
Weight	50 mg/kg/day Divided into 3 doses		50 mg/kg/day Divided into 4 doses	
kg	Approximate single dose (mg 8 hourly)	Volume (mL) needed with dilution of	Approximate single dose (mg 6 hourly)	Volume (mL) needed with dilution of
		225 mg/mL		225 mg/mL
4.5	75 mg	225 mg/mL 0,35 mL	55 mg	225 mg/mL 0,25 mL
	75 mg 150 mg		55 mg 110 mg	
		0,35 mL		0.25 mL
4.5 9 13.6 18.1	150 mg	0.35 mL 0.7 mL	110 mg	0.25 mL 0.5 mL

In children with mild to moderate rend impairment (creativine clearance of 70 to 40 mL/min), 60% of the normal daily dose given in divided doses every 12 hours should be sufficient. In children with moderate impairment (creativine department (creativine) department (creativine) department (creativine) department (creativine) dose given in divided doses every 12 hours should be sufficient. In children with severe impairment (creativine declarance of 20 to 5 mL/min), 10% of the normal daily dose given every 24 hours should be adequate. All dosego recommendations apply after an initial banding dose is administrant, Since satisfy for use in premister initial rainfails below 1 monitor of age has not been established, the use of Cophrazigh in those patients is not recommended. Cophrazigh contains no microbial preservative, it is for single use in one patient only. Any unused product should be discarded. To reduce any microbial hazard, use as soon as practicable after Cophrazidh contains the containion, so the under infragration (2-a 5.0 for nows the 12-6 kpc) when the product after incontainion, so there under infragration

(2-8 °C) for not more than 24 hours.

Note: Not all presentations maybe available locally.

Symptoms

Toxic signs and symptoms following an overdose of Cephazolin may include pain, inflammation, and philibitis at the injection site. The administration of inappropriately large doses of parenteral cephalosporins may cause dizziness, paresthesias, and headaches. Seizures may occur following overdosage with some cephalosporins, particularly in patients with renal impair accumulation is likely to occur.

Laborators is \$100 Y \$0.000 CUT.

Laborators abnormalise fire spococcur after an overdose include developes in creatinine, BUN, here enzymes and billutin; a positive Coombs' test, thrombocytosis, thrombocytosis, and prolongation of the profinombin time.

*Treatment**

Presument In the possibility of multiple medicine overdoses, interaction between medicines, and unusual medicine kinetics in your patient. If setures cours, the medicine should be discontinued promptly; anticonvulsant therapy may be if setures cours, the medicine should be discontinued promptly; anticonvulsant therapy may be

administered if dinically indicated. Protect the patient's airway and support ventilation and perfusion. Meticulously monitor and maintain, within acceptable limits, the patient's vital signs, blood gases,

Medicaleurly monitor and maintain, within acceptable limits, the patient's vital skips, tipooc gases, serum electrolytes, etc. In cases of severe overdiosage, especially in a patient with renal failure, combined haemodiallysis and haemoperfusion may be considered if response to more conservative therapy fails. However, no data supporting such liberapy are available.

compatib**a**ties

Incompatibilities Cophisizal in si incompatible with amikacin disulfate, amobarbital-aodium, bleomycin sulphate, calcium gluceptate, calcium gluconate, cimeditin hydrochloride, colletin methat-codium, enthromycin gluceptate, kanamycin sulphate, oxytetracycin hydrochloride, pentobarbital-aodium, polymyxin-B-sulphate and tetracycline hydrochloride.

Dosage Form and Packaging Available

(Not all presentations maybe available locally under dosage forms) 500 mg: Packs of 1, 5 and 10 visits 1 g: Packs of 1, 5 and 10 visits

Storage Conditions and Shelf Life Store at or below 30 °C. Protect from light. The pH of the reconstituted solution is between 4.5 and 6.0. Each gram of Cephazotin sodium contains 46.3 mg of sodium.

Shelf life: 2 years (24 months) from the date of manufacture

Stability: In those situations in which the medicine and the dissent have been mixed, but not immediately administrated to the patient, the admixture may be stored under the following conditions: Reconstituted openized induction if stored lived for for injection, 5% besteres injection, QPK Sodium Chloride Injection, or Bacteriosatis Water for Injection is stable for 12 hours at 26°C and for 24 hours If above under refrigeration (24 = 5°C).

Solutions of Cephazolin in 10% Dextrose Injection, 5% Dextrose in Lactated Ringer's Injection, 5% Dextrose and 0.9% Sodium Chiloride Injection (also may be used with 5% Dextrose and 0.45% or 0.2% Sodium Chloride Injection), Lactated Ringer's Injection, Ringer's Injection, or Plasma-Lyte with 5% Destrose should be used within 12 hours after dilution if stored at 25°C or within 24 hours if

ON Destroines should be used within 12 hours after daution if stored at 25°C or within 24 hours if stored under refragration (c. a. °C.) as so, as practicable after monetistudino, Cephacolin des-To reduce microbiological hours for use as soon as practicable after monetistudino, Cephacolin des-To reduce microbiological hours and is intended for single use in one patient only. Discord any residue. Prior to administration, parentered medicine products should be hapscried visually for particulate matter and ciscoboursation whenever solution and contains present.

Manufacturer

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