## 451180D/Revised: April 2019

Cefazolin for Injection, USP

# Rx only

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cofazolin for hijection, USP and other antibacterial drugs, Cefazolin for injection, USP should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

DESCRIPTION: Cotazolin for Injection, USP is a semi-synthetic cophalosporin for parenteral administration. Is the sodium sait of 3-[[6-methyl-1,3,4-thiadiazol-2-y(thio]-methyl-8-oxo-72[2-(11+terazol-1-yi) acetamidoj-5-this-1-azabicycio [4.2.0]oct-2-ene-2-carbox(i) cald.

### C\_H\_N\_NaO\_S

The pH of the reconstituted solution is between 4 and 6. Cotacolin for injection, USP is a sterile white to cream powder supplied in visits. Each visit occurration, celtracolin colume equivalent to 500 mg of 1 grand of calculation. The or approximately 48 mg (21 ms) (21 ms) (21 ms) (21 ms) (20 ms) of calculation. The or calculation of the sterile of

low to yellow without a change in potency. Cefazolin for Injection, USP is to be administered by intramuscular or

CLINICAL PHARMACOLOGY: After internancolar administration of Colection to Ingredient to normal moment, all Bours following a 500 m (see, and 64 m (org)): at 1 hour and morginit, all Bours following a 100 m (see, and 64 m (org)): at 1 hour and "morginit, all Bours following a 1 grain dose. Studies have short what following intervence administration of Catazolin approximately 185 morginit, and were approximately 4 m (org): at 8 hours for a 1 grain dose.

approximately 180 mogratules and while approximately 1.8 hours following I.V. administration and approximately 2 hours following I.M.

The large fraction to Clearant by Projection & approximately 13 and 15 international and approximately 2 have a block provide the international and approximately 2 have a block provide the international and approximately 2 have a block provide the international and approximately 2 have a block provide a starting the international and approximately 2 have a block provide a starting the international and approximately 2 have a block provide a starting the international and approximately 2 have a block provide a starting the international and approximately 2 have a block provide a starting the international and approximately a starting the international and approximately approximate

The placents, Cataculor The present in very low concentrations in the Cataculor in presents on exercited unchanges in the urars. In the first 16 hours appointingly (6%), of the drug is exercised in the urar and the increase appointingly (6%), of the drug is exercised in the urar and the increase concentrations of appointingly, 2000 regimes, and 2000 regimes to appoint the second appointing and appointing and appointing to appoint the appointing and appointing and appointing the appointing appointing and appointing and appointing appointing the appointing appointing and appointing appo

tolerated. Controlled studies on adult normal volunteers, receiving 1 gram 4 times day for 10 days, monitoring CBC, SGOT, SGPT, bilirubin, alkaline phosphatar BUN, creatinine, and urinalysis, indicated no clinically significant chang attributed to Cetazoln for injection.

It is important that (1) the presentative does be given just prior (1/2) hour the service of th

toxining the completion of explositions with Reduced Renal Function Desage Adjustment for Patients with Reduced Renal Function with the following dosage digitantics, Helens with a constrainties desarrors of the Durkmin or gradeet as earem constitution of 1.0 mg for or lace can be given orientifier of 1.1 to 3.0 mg. V can be be be the toxic of the toxic orientifier of 1.1 to 3.0 mg. V can be be given bit does to be down orientifier of 1.1 to 3.0 mg. V can be be given bit does to be down orientifier of 1.1 to 3.0 mg. V can be be given bit does to be down or furthing of the complexity of the toxic orientifier desarrors rates with the toxic of the toxic orientifier of the toxic orientifier desarrors rates of units of the complexity of the toxic orientifier desarrors rates and other orientifier of the toxic orientifier desarrors rates of units of the toxic orientifier of the toxic orientifier desarrors rates and the orientifier orientifier or toxic orientifier or toxic orientifier desarrors and the orientifier or toxic orientifier of the toxic steply after an initial backing does appropriate to the second of the orientifier desarrors or toxic orientifier or toxic orientifier of the toxic orientifier or toxic orie

Pedatric Docage In podatric patients, a total daily docage of 25 to 50 mg per kg (approximately) to 5 a mg per spond) of body weight, divided into 3 or 4 equal doos, is to 5 a mg per spond) of 45 mg per pound of body weight for server be increased to 100 mg per kg 45 mg per pound of body weight for server infections. Since adapt for use in permitter linitats and in neoratis has not been established, the use of Celtarolin for Injection in these patients is not

		Ped	liatric Dosage O	Suide	
We	ight	25 mg/l Divided int			/kg/day to 4 Doses
Lbs	Кg	Approximate Single Dose mg/q 8 h	Vol. (mL) needed with dilution of 125 mg/mL	Approximate Single Dose mg/q 6 h	Vol. (mL) needed with dilution of 125 mg/mL
10	4.5	40 mg	0.35 mL	30 mg	0.25 mL
20	9	75 mg	0.6 mL	55 mg	0.45 mL
30	13.6	115 mg	0.9 mL	85 mg	0.7 mL
40	18.1	150 mg	1.2 mL	115 mg	0.9 mL
50	22.7	190 mg	1.5 mL	140 mg	1.1 mL

		50 mg/l			/kg/day
We	ight	Divided int	o 3 Doses	Divided in	to 4 Doses
		Approximate Single Dose	Vol. (mL) needed with dilution of	Approximate Single Dose	Vol. (mL) needed with dilution of
Lbs	Кg	mg/q 8 h	225 mg/mL	mg/q 6 h	225 mg/mL
10	4.5	75 mg	0.35 mL	55 mg	0.25 mL
20	9	150 mg	0.7 mL	110 mg	0.5 mL
30	13.6	225 mg	1 mL	170 mg	0.75 mL
40	18.1	300 mg	1.35 mL	225 mg	1 mL
50	22.7	375 mg	1.7 mL	285 mg	1.25 mL

10 the section of diatric patients with severe renal impairment (creatinine clea inin) may be given 10 percent of the normal daily dose every 24 l commendations apply after an initial loading dose.

## RECONSTITUTION:

# RECONSTITUTION: Proparation of Parenteral Solution Parenteral drug products should be SHAKEN WELL when reconstituted, and impacted visually for particulate matter prior to administration. If particulate matter is evicent in reconstituted fueld, the drug patience should be discussed. If on reconstituted for the drug should be discussed for injection is state for 24 hours at non temporature or for 10 days if atomat under refigeration (§°C or 41°F). Reconstituted solutions may range in color from paile yollow to glow without a dange in potency.

Made in Italy www.fres 4511800 Revised: April 2019

Manufactured for Lake Zurich, IL 60047



# Microbiology Mechanism of Action Cefazolin is a bactericidal agent that acts by inhibition of bacterial cell

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Besistance Predominant mechanisms of bacterial resistance to cephalosporins include the presence of extended-spectrum beta-lactamases and enzymatic hydrohysis.

Antimicrobial Activity Cefazolin has been shown to be active against most isolates of the following microorganisms, both *in vitro* and in clinical infections as described in the INDICATIONS AND USAGE section.

	n-Positive		
S	aphylococ	cus aureus	
S	aphylococ	cus epider	midit
S	reptococo	us agalacti	20
S	reptococo	us pneumo	nia
S	reptococo	us pyogen	22

are uniformly resistant to cefazolin Gram-Negative Bacteria Escherichia coli Proteus mirabilis

M.W. 476.5

Most isolates of indole positive Proteus (Proteus vulgaris), Enterobacter spp., Morganella morganii, Providencia rettgeri, Serratia spp., and Pseudomonas spp. are resistant to cefazolin.

Suscentibility Testing For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see: https://www.tda.gov/STIC.

INDICATIONS AND USAGE: Cefazolin for Injection, USP is indicated for the treatment of the following serious infections when due to susceptible organisms.

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present. Urinary Tract Infections: Due to E. coll, P. mirabilis, Klebsiella species, d some strains of enterobacter and enterococci. Skin and Skin Structure Infections: Due to S. aureus (penicilin-sensitive d pericilin-resistant), group A beta-hemolytic streptococci, and other strains stentococci.

streptococci. Billary Tract Infections: Due to E. coli, various strains of streptococci, micabile, Rébsielle species, and S. aureus. Bone and John Infections: Due to S. aureus. Genital Infections: (i.e., prostatilis, epididymitis) due to E. coli, P. mirabilis, basiellis species, and some strains of enterococcci.

Bortal Intelections (i.e., prostating, specifyrmid; due 15: Co (i.f. Prinatibia) Explorisant: but a 16: 2 pranortomic, a charace percellite sensitive and proteiner stress of the sympactic stress intervention and proteiner Endocarditics too 16: 3 pranortomic, a charace percellite sensitive and proteiner stress of the sympactic stress stress of the sympactic stress tool and the sympactic stress stress stress of the sympactic stress protects and stress s

It here as sign of hetelos, speciense for cultures should be obtained to identification of the cuastive segaration to the spectrate thereary may be included. A loss of the state of the state of the state of the includence of the state of the state of the state of the state of the includence of the state of the state of the state of the state of the the state of the s

CONTRAINDICATIONS:

CEFAZULIN FOR INJECTION IS CONTRAINDICATED IN PATIENTS WITH KNOWN ALLERGY TO THE CEPHALOSPORIN GROUP OF ANTIBIOTICS.

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RECAUTIONS: learned dise of Celazolin for injection may result in the overgrowth of ionsusceptible organisms. Careful clinical observation of the patient is included to patients with low urinary nonsusceptible organisms. Careful clinical observation of the patient is essential. When Cetazelin for Injection is administered to patients with low urinary output because of impaired mark function, lower daily discage is required (see DOSAE AND ADMINISTRATION). As with other pl-lactam antibiotics, seizures may occur if inappropriately high doses are administered to patients with impaired renal function (see DOSAE aND ADMINISTRATION).

DÓSAGE AND ADMINISTRATION). Cefazolin for Injection, as with all cephalosporins, should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly

collia. Caphalosportns may be associated with a fail in prothermolin activity. Those at risk include patients with renal or hepatic impairment or poor nutrificeal through status, as well as patients receiving a potenticated course of antimicrobial through, should be monitored in patients at risk and exogenous vitamin K administered as indicated.

as indicated. Prescribing Cefazolin for Injection in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-related bacterial.

Teststam calculate. Drug Interactions Probenecid may decrease renal tubular secretion of cephalosporins when used concurrently, resulting in increased and more prolonged cephalosporin blood

Devolt. Drog(Laboratory Test Interactions A false positive reaction for glucose in the urine may occur with Benedicit's solution, Felling's solution or with CLINITEST<sup>®</sup> tablets, but not with enzyme based test such as CLINIST<sup>№</sup>. Positive direct and indirect and indirect and indirect and indirect and indirect and indirect above these may also occur in neonates whose mothers received cephalosporins before delivey.

softwardsmice, information for Patients the market of the Patients the softwards and the softward bacterial indexides. They do not the value indextoring large, encommon colds, these Catacultis the indextors in the value indextors large, encommon colds. Where Catacultis the indextors in the value indextors large, encommon colds, these Catacultis the indextors is common to the lasterie analy in the occurs of theraps, the medication induces a common to the lasteries and in the occurs of theraps, the medication induces (2) inormals the lasteries will divide resistance and will not be a common the lasteries will divide resistance and will not be (2) inormals by Catacular to lepton of the attachmed and use in the data.

Carcinogenesis/Mutagenesis Mutagenicily studies and long-term studies in animals to determine the carcinogenic potential of Cetazolin for Injection have not been performed. carcinogenic potential of Lettorol for rejection have not been performed. **Registary Terdisory Collaport** (Callaport & Reproduction studies have been performed in ests; how, and rabibit a dooses to b 25 times the human dose and how revealed no evidence of Impained fertility or hum to the fetus data to Callacolin for Injection. There are, however, on adequata and well-controled studies in pregrant women. Because animal reproduction studies are not always perdictive or yill collary mediadi.

needs: Labor and Delivery Labor and Delivery and Delivery and the second second second second second second to cost blood have been appointentiaty one guarter to one bried of instance dup levels. The day appears to have no advess effect on the future. Number Methods Number 2000 and the second second second second second second advestigation of the second second second second second second advestigation of the second secon

decays in potatic patient older than 1 month. *Barlance Cae Carbane Cae Carbane Cae Caebrane Cae Caebrane Cae* 2013 (341) west By uses and once while 138 (15%) west Charane detected to any all differences in sealows and the same charaned between these benefited differences in responses between the sidely and younge patients. We can be apprecision of the same carbane and between the same caebrane caebrane caebrane caebrane caebrane caebrane caebrane the same caebrane caebrane caebrane caebrane caebrane caebrane caebrane maint of toois exections to this day may be greater in patient with impaired with caebrane to most of the caebrane to most of the caebrane to most of the caebrane caebrane caebrane caebrane caebrane to most of the caebrane caebra

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gential moniliasis, and vaginitis). To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088 or <u>www.fda.gov</u>.

# DOSAGE AND ADMINISTRATION: Usual Adult Dosage

Dose	Frequency	
500 mg to 1 gram	every 6 to 8 hours	
250 mg to 500 mg	every 8 hours	
1 gram	every 12 hours	
500 mg	every 12 hours	
1 gram to 1.5 grams	every 6 hours	
	500 mg to 1 gram 250 mg to 500 mg 1 gram 500 mg	

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HOW SUPPLIED: Cefazolin for Inject in, USP 
 Cetazolin for injection, use

 Product
 NDC
 Cetazolin for injection, USP

 23610
 63323-235-10
 500 mg per vial

 23710
 63323-237-10
 I gram per vial
Cefazolin for Injection, USP, is supplied in 500 mg and 1 gram vials. Each vial contains cefazolin sodium equivalent to 500 mg or 1 gram of cefazolin and is

contains cefazolin sodiu packaged 25 per carton Preservative Free.

For I.M. inject Sterile Water 1

Vial Size	Diluent	Concentration	Available Volume
500 mg	2 mL	225 mg/mL	2.2 mL
1 gram	2.5 mL	330 mg/mL	3 mL
			r for Injection, or Sod
liscard vial w	Amount of	r initial entry.) Approximate	AKE WELL. Use promp Approximate
Vial Size	Amount of Diluent	r initial entry.) Approximate Concentration	Approximate Available Volume
liscard vial w	Amount of	r initial entry.) Approximate	Approximate

ADMINISTRATION: Intranuscular Administration Reconstitute value with Sterile Water for Injection according to the dilution table above. Shales well until disactived. Celazoito for Injection should be injected into a large muscle musc. Pain on injection is infrequent with Celazoito for Injection and a large muscle musc. Pain on injection is infrequent with Celazoito for Injection and the state of the state

a large mundle mast. Pain on hjeriotin i simfoquari ti till Cettachin for hjerciton. Hortenson ad Antheritotistoti Daniet biolar, jesetom Following teoretistici on scovering to triv skove takoj sociali sociali prestori i do i simolar, stovar of trivagih kulje prastati sociali sociali prestori i do i simolar, stovar of trivagih kulje prastati sociali sociali prestori i do i soci prestori kulje prestoritati Daniet sociali sociali prestori i do i soci prestori prestori kulje prestori i do i soci prestori prestori kulje prestori prestori prestori i do i soci prestori prestori prestori prestori prestori i do i soci prestori prestori prestori prestori prestori i do i soci prestori prestori u do i soci prestori prestori prestori prestori prestori prestori u do i soci prestori prestori u do i prestori prestori u do i soci prestori prestori u do i prestori prestori u do i soci prestori prestori u do i prestori prestori u do i soci prestori prestori u do i prestori prestori u do i soci prestori prestori u do i prestori prestori u do i prestori u do i prestori prestori u do i prestori u do i prestori pregore i prestori. U do i sociali prestori u do i prestori u do i prestori pregore i prestori. U do

As with other cephalosporins, cefazolin tends to darken depending on storage conditions; within the stated recommendations, however, product potency is not adversely affected.

Before reconstitution protect from light and store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. The container closure is not made with natural rubber latex.

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