CEFAZOLIN - cefazolin sodium injection Physicians Total Care, Inc.

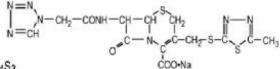
Rx only

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cefazolin for Injection, 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

Cefazolin for Injection, USP, is a sterile semi-synthetic cephalosporin for parenteral administration (Intramuscular or Intravenous). It is the sodium salt of 3-[{(5-methyl -1,3,4 -thiadiazol - 2 - yl) thio]-methyl} - 8 - oxo - 7 - [2 - (1H - tetrazol -1 - yl) acetamido - 5 - thia -1-azabicyclo [4.2.0] oct - 2 - ene - 2 - carboxylic acid. The molecular weight is 476.49.

Cefazolin sodium has the following structural formula:



Molecular formula: C14H13N8NaO4S3

The sodium content is 48 mg per gram of cefazolin.

Cefazolin for injection, USP is supplied in 500 mg or 1 gram vials for intramuscular or intravenous use and in 1 gram infusion bottles for intravenous use.

Each 500 mg or 1 gram vial contains, cefazolin sodium equivalent to 500 mg or 1 gram of cefazolin. Each 1 gram infusion bottle contains, cefazolin sodium equivalent to 1 gram cefazolin.

CLINICAL PHARMACOLOGY

Human Pharmacology: After intramuscular administration of cefazolin to normal volunteers, the mean serum concentrations were 37 mcg/mL at 1 hour and 3 mcg/mL at 8 hours following a 500 mg dose, and 64 mcg/mL at 1 hour and 7 mcg/mL at 8 hours following a 1 gram dose.

Studies have shown that following intravenous administration of cefazolin to normal volunteers, mean serum concentrations peaked at approximately 185 mcg/mL and were approximately 4 mcg/mL at 8 hours for a 1 gram dose.

The serum half-life for cefazolin is approximately 1.8 hours following IV administration and approximately 2 hours following IM administration.

In a study (using normal volunteers] of constant intravenous infusion with dosages of 3.5 mg/kg for 1 hour (approximately 250 mg) and 1.5 mg/kg the next 2 hours (approximately 100 mg) cefazolin produced a steady serum level at the third hour of approximately 28 mcg/mL.

Studies in patients hospitalized with infections indicate that cefazolin produces mean peak serum levels approximately equivalent to those seen in normal volunteers.

Bile levels in patients without obstructive biliary disease can reach or exceed serum levels by up to five times; however, in patients with obstructive biliary disease, bile levels of cefazolin are considerably lower than serum levels (< 1 mcg/mL).

In synovial fluid, the cefazolin level becomes comparable to that reached in serum at about 4 hours after drug administration. Studies of cord blood show prompt transfer of cefazolin across the placenta. Cefazolin is present in very low concentrations in the milk of nursing mothers.

Cefazolin is excreted unchanged in the urine. In the first 6 hours approximately 60% of the drug is excreted in the urine and this increases to 70% to 80% within 24 hours. Cefazolin achieves peak urine concentrations of approximately 2400 mcg/mL and 4000 mcg/mL respectively following 500 mg and 1 gram intramuscular doses.

In patients undergoing peritoneal dialysis (2 L/hr), cefazolin produced mean serum levels of approximately 10 and 30 mcg/mL after 24 hours' instillation of a dialyzing solution containing 50 mg/L and 150 mg/L respectively. Mean peak levels were 29 mcg/mL (range 13-44 mcg/mL) with 50 mg/L (three patients), and 72 mcg/mL (range 26-142 mcg/mL) with 150 mg/L (six patients). Intraperitoneal administration of cefazolin is usually well tolerated.

Controlled studies on adult normal volunteers, receiving 1 gram 4 times a day for 10 days, monitoring CBC, SGOT, SGPT, bilirubin, alkaline phosphatase, BUN, creatinine and urialysis, indicated no clinically significant changes attributed to cefazolin.

Microbiology:*In vitro* tests demonstrate that the bactericidal action of cephalosporins results from inhibition of cell wall synthesis.

Cefazolin is active against the following organisms *in vitro* and in clinical infections:

Staphylococcus aureus (Including penicillinase-producing strains)

Staphylococcus epidermidis

Methicillin-resistant staphylococci are uniformly resistant to cefazolin

Group A beta-hemolytic streptococci and other strains of streptococci (many strains of enterococci are resistant)

Streptococcus pneumoniae

Escherichia coli

Proteus mirabilis

Klebsiella species

Enterobacter aerogenes

Haemophilus influenzae

Most strains of indole positive Proteus (*Proteus vulgaris*), *Enterobacter cloacae*, *Morganella morganii* and *Providencia rettgeri* are resistant. *Serratia*, *Pseudomonas*, *Mima*, *Herellea* species are almost uniformly resistant to cefazolin.

Disk Susceptibility Tests

Disk diffusion technique - Quantitative methods that require measurement of zone diameters give the most precise estimates of antibiotic susceptibility. One such procedure1 has been recommended for use with disks to test susceptibility to cefazolin.

Reports from a laboratory using the standardized single-disk susceptibility test1 with a 30 mcg cefazolin disk should be interpreted according to the following criteria:

- Susceptible organisms produce zones of 18 mm or greater, indicating that the tested organism is likely to respond to therapy.
- Organisms of intermediate susceptibility produce zones 15 to 17 mm, indicating that the tested organism would be susceptible if high dosage is used or if the infection is confined to tissues and fluids (e.g., urine), in which high antibiotic levels are attained,
- Resistant organisms produce zones of 14 mm or less, indicating that other therapy should be selected.

For gram-positive isolates, a zone of 18 mm is indicative of a cefazolin-susceptible organism when tested with either the cephalosporin-class disk (30 mcg cephalothin) or the cefazolin disk (30 mcg

cefazolin).

Gram-negative organisms should be tested with the cefazolin disk (using the above criteria), since cefazolin has been shown by *in vitro* tests to have activity against certain strains of *enterobacteriaceae* found resistant when tested with the cephalothin disk. Gram-negative organisms having zones of less than 18 mm around the cephalothin disk may be susceptible to cefazolin.

Standardized procedures require use of control organisms. The 30 mcg cefazolin disk should give zone diameter between 23 and 29 mm for *E. coli* ATCC 25922 and between 29 and 35 mm for S. *aureus* ATCC 25923.

The cefazolin disk should not be used fortesting susceptibility to other cephalosporins. 1Bauer, A.W.;Kirby, W.M.M.; Sherris, J.C., and Turck, M.: Antibiotic Testing by a Standardized Single Disc Method, Am-J. Clin. Path. 45:493, 1966. Standardized Disc Susceptibility Test, Federal Register 39:19182-19184,1974.

Dilution techniques - A bacterial isolate may be considered susceptible if the minimal inhibitory concentration (MIC) for cefazolin is not more than 16 mcg per mL Organisms are considered resistant if the MIC is equal to or greater than 64 mcg per mL.

The range of MIC's for the control strains are as follows:

S. aureus ATCC 25923,0.25 to 1.0 mcg/mL *E. coli* ATCC 25922, 1.0 to 4.0 mcg/mL

INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cefazolin for Injection, 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 susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Cefazolin for injection, USP is indicated in the treatment of the following serious infections due to susceptible organisms:

RESPIRATORY TRACT INFECTIONS due to Streptococcus pneumoniae, Klebsiella species, Haemophilus influenzae, Staphylococcus *aureus* (penicillin-sensitive and penicillin-resistant) and group A beta-hemolytic streptococci.

Injectable benzathine penicillin is considered to be the drug of choice in treatment and prevention of streptococcal infections including the prophylaxis of rheumatic fever.

Cefazolin is effective in the eradication of streptococci from the nasopharynx; however, data establishing the efficacy of cefazolin in the subsequent prevention of rheumatic fever are not available at present.

URINARY TRACT INFECTIONS due to *Escherichia coli*, *Proteus mirabilis*, *Klebsiella* species and some strains of enterobacter and enterococci.

SKIN AND SKIN STRUCTURE INFECTIONS due to *Staphylococcus aureus* (penicillin-sensitive and penicillin-resistant), group A beta-hemolytic streptococci and other strains of streptococci.

BILIARY TRACT INFECTIONS due to *Escherichia coli*, various strains of streptococci, *Proteus mirabilis, Klebsiella* species and *Staphylococcus aureus*.

BONE AND JOINT INFECTIONS due to Staphylococcus aureus.

GENITAL INFECTIONS (i.e., prostatitis, epididymitis) due to *Escherichia coli*, *Proteus mirabilis*, *Klebsiella* species and some strains of enterococci.

SEPTICEMIA due to Streptococcus pneumoniae, Staphylococcus aureus (penicillin-sensitive and penicillin-resistant), Proteus mirabilis, Escherichia coli, and Klebsiella species.

ENDOCARDITIS due to *Staphylococcus aureus* (penicillin-sensitive and penicillin-resistant) and group A beta hemolytic streptococci.

Appropriate culture and susceptibility studies should be performed to determine susceptibility of the causative organism to cefazolin.

PERIOPERATIVE PROPHYLAXIS: The prophylactic administration of cefazolin preoperatively, intraoperatively and postoperatively may reduce the incidence of certain postoperative infections in patients undergoing surgical procedures which are classified as contaminated or potentially contaminated (e.g., vaginal hysterectomy, and cholecystectomy in high-risk patients such as those 70 years of age, with acute cholecystitis, obstructive jaundice or common duct bile stones).

The perioperative use of cefazolin may also be effective in surgical patients in whom infection at the operative site would present a serious risk (e.g., during open-heart surgery and prosthetic arthroplasty).

The prophylactic administration of cefazolin should usually be discontinued within a 24-hour period after the surgical procedure. In surgery where the occurrence of infection may be particularly devastating (e.g., open-heart surgery and prosthetic arthroplasty), the prophylactic administration of cefazolin may be continued for 3 to 5 days following the completion of surgery.

If there are signs of infection, specimens for cultures should be obtained for the identification of the causative organism so the appropriate therapy may be instituted.

(See DOSAGE AND ADMINISTRATION.)

CONTRAINDICATIONS

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

WARNINGS

BEFORE THERAPY WITH CEFAZOLIN FOR INJECTION, IS INSTITUTED, CAREFUL INQUIRY SHOULD BE MADE TO DETERMINE WHETHER THE PATIENT HAS HAD PREVIOUS HYPERSENSITIVITY REACTIONS TO CEFAZOLIN, CEPHALOSPORINS, PENICILLINS, OR OTHER DRUGS. IF THIS PRODUCT IS GIVEN TO PENICILLIN-SENSITIVE PATIENTS, CAUTION SHOULD BE EXERCISED BECAUSE CROSS-HYPERSENSITIVITY AMONG BETA-LACTAM ANTIBIOTICS HAS BEEN CLEARLY DOCUMENTED AND MAY OCCUR IN UP TO 10% OF PATIENTS WITH A HISTORY OF PENICILLIN ALLERGY. IF AN ALLERGIC REACTION TO CEFAZOLIN FOR INJECTION, USP OCCURS, DISCONTINUE TREATMENT WITH THE DRUG. SERIOUS ACUTE HYPERSENSITIVITY REACTIONS MAY REQUIRE TREATMENT WITH EPINEPHRINE AND OTHER EMERGENCY MEASURES, INCLUDING OXYGEN, IV FLUIDS, IV ANTIHISTAMINES, CORTICOSTEROIDS, PRESSOR AMINES AND AIRWAY MANAGEMENT, AS CLINICALLY INDICATED.

Pseudomembranous colitis has been reported with nearly all antibacterial agents, including cefazolin, and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present diarrhea subsequent to the administration of antibacterial agents.

Treatment with antibacterial agents alter the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by *Clostridium difficile* is one primary cause of "antibiotic-associated colitis."

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be

initiated. Mild cases of pseudomembranous colitis usually respond to drug discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation and treatment with an antibacterial drug clinically effective against *C. difficile* colitis.

PRECAUTIONS

General - Prolonged use of Cefazolin for Injection may result in the overgrowth of nonsusceptible organisms. Careful clinical observation of the patient is essential.

Prescribing Cefazolin for Injection, USP 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-resistant bacteria.

When cefazolin is administered to patients with low urinary output because of impaired renal function, lower daily dosage is required (see DOSAGE AND ADMINISTRATION).

As with other beta-lactam antibiotics, seizures may occur if inappropriately high doses are administered to patients with impaired renal function (see DOSAGE AND ADMINISTRATION).

Cefazolin, as with all cephalosporins, should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

Drug Interactions - Probenicid may decrease renal tubular secretion of cephalosporins when used concurrently, resulting in increased and more prolonged cephalosporin blood levels.

Drug/Laboratory Test Interactions - A false positive reaction for glucose in the urine may occur with Benedict's solution, Fehling's solution or with Clinitest[®] tablets, but not with enzyme-base tests such as Clinistix[®].

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

Carcinogenesis /**Mutagenesis** - Mutagenicity studies and long-term studies in animals to determine the carcinogenic potential of Cefazolin for Injection, USP have not been performed.

Pregnancy - Teratogenic Effects - Pregnancy Category B. Reproduction studies have been performed in rats, mice and rabbits at doses up to 25 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to cefazolin. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Labor and Delivery - When cefazolin has been administered prior to caesarian section, drug levels in cord blood have been approximately one quarter to one third of maternal drug levels. The drug appears to have no adverse effect on the fetus.

Nursing Mothers - Cefazolin is present in very low concentrations in the milk of nursing mothers. Caution should be exercised when cefazolin is administered to a nursing woman.

Pediatric Use - Safety and effectiveness for use in prematures, infants and neonates have not been established. See DOSAGE AND ADMINISTRATION for recommended dosage in pediatric patients over 1 month.

Information for Patients - Patients should be counseled that antibacterial drugs including Cefazolin for Injection, USP should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Cefazolin for Injection, USP is prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may:

(1) decrease the effectiveness of the immediate treatment and

(2) increase the likelihood that bacteria will develop resistance and will not be treatable by Cefazolin for lnjection, USP or other antibacterial drugs in the future.

ADVERSE REACTIONS

The following reactions have been reported:

Gas trointes tinal: Diarrhea, oral candidiasis (oral thrush), vomiting, nausea, stomach cramps, anorexia and pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment (see WARNINGS). Nausea and vomiting have been reported rarely.

Allergic: Anaphylaxis, eosinophilia, itching, drug fever, skin rash, Stevens-Johnson syndrome.

Hematologic: Neutropenia, leukopenia, thrombocytopenia, thrombocythemia.

Hepatic and Renal: Transient rise in SGOT, SGPT, BUN and alkaline phosphatase levels have been observed without clinical evidence of renal or hepatic impairment.

Local Reactions: Rare instances of phlebitis have been reported at the site of injection. Pain at the site of injection after intramuscular administration has occurred infrequently. Some induration has occurred.

Other Reactions: Genital and anal pruritus (including vulvar pruritus, genital moniliasis and vaginitis). DOSAGE AND ADMINISTRATIONUsual Adult Dosage

Type of infection	Dose	Frequency
Moderate to severe infections	500 mg to	Every 6 to 8 hours
	1 gram	
Mild infections caused by susceptible gram	250 mg to	Every 8 hours
+ cocci	500 mg	
Acute, uncomplicated urinary tract infections	1 gram	Every 12 hours
Pneumococcal pneumonia	500 mg	Every 12 hours
Severe, life-threatening infections (e.g.,	1 gram to	Every 6 hours
endocarditis, septicemia)*	1.5 grams	

* In rare instances, doses of up to 12 grams of cefazolin per day have been used.

Perioperative Prophylactic Use

To prevent postoperative infection in contaminated or potentially contaminated surgery, recommended doses are;

- 1. 1 gram IV or IM administered 1/2 hour to 1 hour prior to the start of surgery.
- 2. For lengthy operative procedures (e.g., 2 hours or more), 500 mg to 1 gram IV or IM during surgery (administration modified depending on the duration of the operative procedure).
- 3. 500 mg to 1 gram IV or IM every 6 to 8 hours for 24 hours postoperatively.

It is important that (1) the preoperative dose be given just (1/2 to 1 hour) prior to the start of surgery so that adequate antibiotic levels are present in the serum and tissues at the time of initial surgical incision; and (2) Cefazolin for Injection be administered, if necessary, at appropriate intervals during surgery to provide sufficient levels of the antibiotic at the anticipated moments of greatest exposure to infective organisms.

In surgery where the occurrence of infection may be particularly devastating (e.g., open-heart surgery and prosthetic arthroplasty), the prophylactic administration of Cefazolin for Injection may be continued for 3 to 5 days following the completion of the surgery.

Dosage Adjustment for Patients with Reduced Renal Function

Cefazolin for Injection may be used in patients with reduced renal function with the following dosage adjustments: Patients with a creatinine clearance of 55 mL/min. or greater or a serum creatinine of 1.5 mg % or less can be given full doses, Patients with creatinine clearance rates of 35 to 54 mL/min. or serum creatinine of 1.6 to 3.0 mg % can also be given full doses but dosage should be restricted to at least 8 hour intervals. Patients with creatinine clearance rates of 11 to 34 mL/min. or serum creatinine of 3.1 to 4.5 mg % should be given 1/2 the usual dose every 12 hours. Patients with creatinine clearance rates of 10 mL/min. or less or serum creatinine of 4.6 mg % or greater should be given 1/2 the usual dose every 18 to 24 hours.

All reduced dosage recommendations apply after an initial loading dose appropriate to the severity of the infection. Patients undergoing peritoneal dialysis; See Human Pharmacology. Pediatric Dosage

In pediatric patients, a total daily dosage of 25 to 50 mg per kg (approximately 10 to 20 mg per pound) of body weight, divided into three or four equal doses, is effective for most mild to moderately severe infections. Total daily dosage may be increased to 100 mg per kg (45 mg per pound) of body weight for severe infections. Since safety for use in premature infants and in neonates has not been established, the use of cefazolin in these patients is not recommended.

	25 mg/kg/day divided	25 mg/kg/day ^y divided			
Weight	into 3 doses	into 4 doses			
			Vol. (mL)		Vol. (mL)
		Approximate	needed with	Approximate	needed with
		single dose	dilution of	single dose	dilution of
Lbs	Kg	mg/q8h	125 mg/mL	mg/q6h	125 mg/mL
10	4.5	40 mg	0.35 mL	30 mg	0.25 mL
20	9.0	75 mg	0.60 mL	55 mg	0.45 mL
30	13.6	115 mg	0.90 mL	85 mg	0.70 mL
40	18.1	150 mg	1.20 mL	115 mg	0.90 mL
50	22.7	190 mg	1.50 mL	140 mg	1.10 mL
	50 mg/kg/day divided into 3	uivided			
Weight	doses	into 4 doses			
			Vol. (mL)		Vol. (mL)
		Approximate	needed with	Approximate	needed with
		single dose	dilution of	single dose	dilution of
Lbs	Kg	mg/q8h	225 mg/rnL	mg/q6h	225 mg/mL
10	4.5	75 mg	0.35 mL	55 mg	0.25 mL
20	9.0	150 mg	0.70 mL	110 mg	0.50 mL
30	13.6	225 mg	1.00 mL	170 mg	0.75 mL
40	18.1	300 mg	1.35 mL	225 mg	1.00 mL
50	22.7	375 mg	1.70 mL	265 mg	1.25 mL

Pediatric Dosage Guide

In pediatric patients with mild to moderate renal impairment (creatinine clearance of 70 to 40 mL/min,), 60 percent of the normal daily dose given in equally divided doses every 12 hours should be sufficient. In patients with moderate impairment (creatinine clearance of 40 to 20 mL/min.), 25 percent of the normal daily dose given in equally divided doses every 12 hours should be adequate. Pediatric patients with severe renal impairment (creatinine clearance of 20 to 5 mL/min.) may be given 10 percent of the normal daily dose every 24 hours. All dosage recommendations apply after an initial loading dose.

RECONSTITITION

Preparation of Parenteral Solution

Parenteral drug products should be SHAKEN WELL when reconstituted, and inspected visually for particulate matter prior to administration. If particulate matter is evident in reconstituted fluids, the drug solutions should be discarded.

When reconstituted or diluted according to the instructions below, Cefazolin is stable for 24 hours at room temperature or for 10 days if stored under refrigeration (5°C or 41°F). Reconstituted solutions may range in color from pale yellow to yellow without a change in potency. Single dose vials

For IM injection, IV direct (bolus) injection or IV infusion, reconstitute with Sterile Water for Injection according to the following table. SHAKE WELL.

Vial size	Amount of diluent	Approximate concentration	Approximate Available volume
500 mg	2 mL	225 mg/mL	2.2 mL
1 gram	2.5 mL	330 mg/mL	3 mL

Infusion bottles

Reconstitute with 50 to 100 mL of Sodium Chloride Injection or other IV solution listed under ADMINISTRATION. When adding diluent to vial, allow air to escape by using a small vent needle or by pumping the syringe. SHAKE WELL. Administer with primary IV fluids, as a single dose.

ADMINISTRATION

Intramus cular Adminis tration - Reconstitute vials with Sterile Water for Injection according to the dilution table above. Shake well until dissolved. Cefazolin should be injected into a large muscle mass. Pain on injection is infrequent with cefazolin.

Intravenous Administration - Direct (bolus) injection: Following reconstitution according to the above table, further dilute vials with approximately 5 mL Sterile Water for Injection. Inject the solution slowly over 3 to 5 minutes, directly or through tubing for patients receiving parenteral fluids (see list below).

Intermittent or continuous infusion: Dilute reconstituted cefazolin in 50 to 100 mL of one of the following solutions:

- Sodium Chloride Injection, USP
- 5% or 10% Dextrose Injection, USP
- 5% Dextrose in Lactated Ringer's Injection, USP
- 5% Dextrose and 0.9% Sodium Chloride Injection, USP
- 5% Dextrose and 0.45% Sodium Chloride Injection, USP
- 5% Dextrose and 0.2% Sodium Chloride Injection, USP
- Lactated Ringer's Injection, USP
- Invert Sugar 5% or 10% in Sterile Water for Injection

- Ringer's Injection, USP
- 5% Sodium Bicarbonate Injection, USP

HOW SUPPLIED

Cefazolin for Injection, USP, is supplied in vials containing cefazolin sodium equivalent to 500 mg or 1 gram cefazolin and in infusion bottles containing cefazolin sodium equivalent to 1 gram cefazolin:

NDC 54868-4651-0 500mg / 10mL vial, Carton of 25 vials

As with other cephalosporins, Cefazolin for Injection, USP, 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°-25°C (68° - 77°F), [see USP Controlled Room Temperature].

Manufactured by: Hikma Farmaceutica (Portugal), Lda. 2705-906 Terrugem SNT – PORTUGAL

For:

West-Ward Pharmaceutical Corp. 465 Industrial Way West EATONTOWN, NJ 07724 USA

Rev. Jan. 2006 PIN001-WES/2

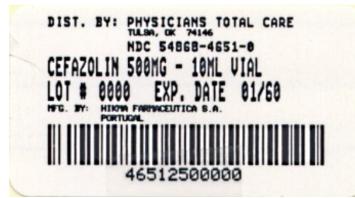
Relabeling of "Additional Barcode Label" by:

Physicians Total Care, Inc. Tulsa, OK 74146

PRINCIPAL DISPLAY PANEL

Cefazolin for Injection, USP

500 mg/10 mL vial, Carton of 25 vials



CEFAZOLIN

cefazolin sodium injection

Product Information

Product Type		DRUG	(Source		90)	4051(INDC:0143-9923-
Route of Administrati	on	INTRAMUSCULAR				
Active Ingredient/	Active Moi	ety				
	Ingredient Name Basis of Stre					
CEFAZOLIN SODIUM (UNII: P380M04	454Z) (CEFAZOLIN - UNII:1	IHS69L0Y4T)	CEFA	ZOLIN SODIU	M 500 mg in 10 mL
	Pac	kage Description	Marketin	ø Start Date	e Ma	rketing End Date
# Item Code	Pac 25 in 1 C/	kage Description ARTON	Marketin	g Start Date	e Ma	rketing End Date
# Item Code 1 NDC:54868-4651-0		ARTON	Marketin	g Start Date	e Ma	rketing End Date
Item Code I NDC:54868-4651-0 I Output	25 in 1 C	ARTON	Marketin	g Start Date	e Ma	arketing End Date
# Item Code 1 NDC:54868-4651-0	25 in 1 C	ARTON	Marketin	g Start Date	e Ma	rketing End Date
# Item Code 1 NDC:54868-4651-0	25 in 1 C/ 10 mL in	ARTON	Marketin	g Start Date	e Ma	rketing End Date
 # Item Code 1 NDC:54868-4651-0 1 	25 in 1 C/ 10 mL in rmation	ARTON		g Start Date Marketing		nrketing End Date Marketing End Date

Labeler - Physicians Total Care, Inc. (194123980)

Establishment						
Name	Address	ID/FEI	Business Operations			
Physicians Total Care, Inc.		194123980	relabel			

Revised: 12/2010

Physicians Total Care, Inc.