CEFOTAN® (Cefotetan for injection, USP)

For Intravenous or Intramuscular Use
To reduce the development of drug-resistant bacteria and
maintain the effectiveness of CEFOTAN® and other antibacterial drugs, CEFOTAN® should be used only to treat or prevent infections that are proven or strongly suspected to be caused

CEFOTAN* (cefotetan for Injection, USP), as cefotetan disodium, is a sterile, semisynthetic, broad-spectrum, beta-lactamase resistant, cephalosporin (cephamycin) antibiotic for parenteral administration. It is the disodium salt of [6R-(6g 7g)] r-[[[4-(2-amino-1-carboxy-2-oxoethylidene)-1,3-dithietan-2-yl] carbonyllamino]-7-methoxy-3-[[(1-methyl-1/f-tetrazol-5-yl)thio] methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic

C,,H,,N,Na,O,S, M.W. 619,57

CEFOTAN® (cefotetan for Injection, USP) is supplied in vials containing 80 mg (3.5 mEq) of sodium per gram of cefotetan activity. It is a white to pale yellow powder which is very soluble in water. Reconstituted solutions of CEFOTAN® (cefotetan for Injection, USP) are intended for intravenous and intramuscular administration. The solution varies from colorless to yellow depending on the concentration. The pH of freshly reconstituted olutions is usually between 4.5 to 6.5.

CEFOTAN® (cefotetan for Injection, USP) is available in two vial strengths. Each 1 gram vial contains cefotetan disodium equivalent to 1 gram cefotetan activity. Each 2 gram vial ntains cefotetan disodium equivalent to 2 grams cefotetan activity.

CLINICAL PHARMACOLOGY

High plasma levels of cefotetan are attained after intravenous and intramuscular administration of single doses to normal

PLASMA CONCENTRATIONS AFTER 1 GRAM IV^a OR IM DOSE

Time After Injection							
Route	15 min	30 min	1.h	2h	4 h	8 h	12 h
rv .	92	158	103	72	42	18	9
IM	34	56	71	- 68	47	20	9

PLASMA CONCENTRATIONS AFTER 2 GRAM IV^a OR IM DOSE

				Time After Injection				
Route	5 min	10 min	1h	3 h	5 h	9 h	121	
IV	237	223	135	74	48	22	120	
IM	-	20	75	91	69	33	19	
a Injecte	ed over 3 n	ninutes						
b Conce	entrations	estimated fr	om rea	ression	line			

The plasma elimination half-life of cefotetan is 3 to 4.6 hours after either intravenous or intramuscular administration.

Repeated administration of CEFOTAN® does not result in accumulation of the drug in normal subjects. Cefotetan is 88% plasma protein bound.

No active metabolites of cefotetan have been detected; however small amounts (less than 7%) of cefotetan in plasma and urine may be converted to its tautomer, which has antimicn activity similar to the parent drug.

In normal patients, from 51% to 81% of an administered dose of CEFOTAN® is excreted unchanged by the kidneys over a 24 hour period, which results in high and prolonged urinary concentrations. Following intravenous doses of 1 gram and 2 grams, urinary concentrations are highest during the first hour and reach concentrations of approximately 1700 and 3500 mcg/ml., respectively.

In volunteers with reduced renal function, the plasma half-life of cefotetan is prolonged. The mean terminal half-life increases with declining renal function, from approximately 4 hours in volunteers with normal renal function to about 10 hours in those with moderate renal impairment. There is a linear correlation between the systemic clearance of cefotetan and creatinine clearance. When renal function is impaired, a reduced dosing schedule based on creatinine clearance must be used (see DOSAGE AND ADMINISTRATION). In pharmacokinetic studies of eight elderly patients (greater than

65 years) with normal renal function and six healthy volunteers (aged 25 to 28 years), mean (± 1 sd) Total Body Clearance (1.8

1.8 (0.3) L/h) and mean Volume of Distribution (10.4 (1.2) L vs. 10.3 (1.6) L) were similar following administration of a one gram intravenous bolus dose.

Therapeutic levels of cefotetan are achieved in many body

100000 0010 110	nos morounigi.
skin	ureter
muscle	bladder
fat	maxillary sinus mucosa
myometrium	tonsil
endometrium	bile
cervix	peritoneal fluid
ovary	umbilical cord serum
kidney	amniotic fluid

Microbiology The bactericis dal action of cefotetan results from inhibition of cell wall synthesis. Cefotetan has in vitro activity against a wide range of aerobic and anaerobic gram-positive and gram-negative organisms. The methoxy group in the 7-alpha position provides cefotetan with a high degree of stability in the presence of betalactamases including both penicillinases and cephalosporinase of gram-negative bacteria.

Cefotetan has been shown to be active against most strains of the following organisms both in vitro and in clinical infections (see INDICATIONS AND USAGE).

Gram-Negative Aerobes

mophilus influenzae (including ampicillin-resistant strains) Klebsiella species (including K. pneumoniae)

Morganella morganii Neisseria gonorrhoeae (nonpenicillinase-producing strains) Proteus mirabilis

Proteus vulgaris

Serratia marcescens

NOTE: Approximately one-half of the usually clinically significant strains of Enterobacter species (e.g., E. aerogenes and E. cloacae) are resistant to cefotetan. Most strains of Pseudomonas aeruginosa and Acinetobacter species are resistant to cefotetan.

Gram-Positive Aerobes

Staphylococcus aureus (including penicillinase- and nonpenicillinaseproducing strains)

phylococcus epidermidis Streptococcus agalactiae (group B beta-hemolytic streptococcus) Strentococcus pneumoniae

treptococcus pyogenes NOTE: Methicillin-resistant staphylococci are resistant to cephalosporins. Some strains of Staphylococcus epidermidis and most strains of enterococci, e.g., Enterococcus faecalis

Prevotella bivia (formerly Bacteroides bivius)

Prevotella disiens (formerly Bacteroides disiens) Bacteroides fragilis

Prevotella melaninogenica (formerly Bacteroides melaninogenicus) Bacteroides vulgatus Fusobacterium species

Gram-positive bacilli (including Clostridium species; see

NOTE: Most strains of C. difficile are resistant (see WARNINGS)

Peptococcus niger Peptostreptococcus species

NOTE: Many strains of B. distasonis, B. ovatus and B. thetaiotaomicron are resistant to cefotetan in vitro. However, the therapeutic utility of cefotetan against these organisms cannot be accurately predicted on the basis of in vitro susceptibility

The following in vitro data are available but their clinical significance is unknown. Cefotetan has been shown to be active in vitro against most strains of the following organisms

Gram-Negative Aerobes

Citrobacter species (including C. diversus and C. freundii) (lebsiella oxytoca

Moraxella (Branhamella) catarrhalis

Neisseria gonorrhoeae (penicillinase-producing strains) Salmonella species

Serratia species Shigella species sinia enterocolitica

Porphyromonas asaccharolytica (formerly Bacteroides asaccharolyticus)

votella oralis (formerly Bacteroides oralis)

Bacteroides splanchnicus Clostridium difficile (see WARNINGS)

Veillonella species

Susceptibility Tests

Quantitative methods are used to determine antimicrobial minimal

inhibitory concentrations (MICs). These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined using a standardized procedure Standardized procedures are based on a dilution method (broth or agar) or equivalent with standardized inoculum concentrations and standardized concentrations of cefotetan powder. The MIC values should be interpreted according to the

MIC (mcg/mL)	Interpretation
≤ 16	Susceptible (S)
32	Intermediate (I)
≥ 64	Resistant (R)

A report of 'Susceptible' indicates that the pathogen is likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable. Areport of Intermediate indicates that the result should be considered equivocal, and if the microorganism is not fully susceptible to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicability in body sites where the drug is physiologically concentrated or in situations where high dosage of drug can be used. This category also provides a buffer zone which prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of 'Resistant' indicates that the pathogen is not likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable; other therapy should be

Standardized susceptibility test procedures require the use of laboratory control microorganisms to control the technical aspects of the laboratory procedures. Standard cefotetan powder should provide the following MIC values:

Microorganism	MIC (mcg/mL)
E. coli ATCC 25922	0.06 to 0.25
S. aureus ATCC 29213	4 to 16

Diffusion Techniques

Quantitative methods that require measurement of zone diameters also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds. One such standardized procedure requires the use of the standardized inoculum concentrations. This procedure uses paper disks impregnated with 30 mcg cefotetan to test the susceptibility of microorganisms to cefotetan.

Reports from the laboratory providing results of the standard single-disk susceptibility test with a 30 mcg cefotetan should be

Zone Diameter (mm)	Interpretation
≥ 16	Susceptible (S)
13 to 15	Intermediate (I)
s 12	Resistant (R)

Interpretation should be as stated above for results using dilution techniques. Interpretation involves correlation of the diameter obtained in the disk test with the MIC for cefotetar

As with standardized dilution techniques, diffusion methods require the use of laboratory control microorganisms that are used to control the technical aspects of the laboratory procedures. For the diffusion technique, the 30 mcg cefotetan disk should provide the following zone diameters in these

Microorganism	Zone Diameter (mm)
E. coll ATCC 25922	28 to 34
S. aureus ATCC 25923	17 to 23

Anaerobic Techniques

For anaerobic bacteria, the susceptibility to cefotetan as MICs can be determined by standardized test methods³. The MIC values obtained should be interpreted according to the following

criteria:	
MIC (mcg/mL)	Interpretation
≤ 16	Susceptible (S)
32	Intermediate (I)
≥ 64	Resistant (R)

Interpretation is identical to that stated above for results using

As with other susceptibility techniques, the use of laboratory control microorganisms is required to control the technical aspects of the laboratory standardized procedures. Standardized cefotetan powder should provide the following MIC values

Microorganism	MIC (mcg/mL)	
Bacteroides fragilis ATCC 25285	4 to 16	
Bacteroides thetaiotaomicron ATCC 29741	32 to 128	
Eubacterium lentum ATCC 43055	32 to 128	

INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of CEFOTAN® and other antibacterial drugs, CEFOTAN® 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, miology and susceptibility patterns may contribute to the empiric selection of therapy

CEFOTAN® (cefotetan for Injection, USP) is indicated for the therapeutic treatment of the following infections when caused by susceptible strains of the designated organis

Urinary Tract Infections caused by E. coli. Klebsiella spo (including K. pneumoniae), Proteus mirabilis and Proteus spp (which may include the organisms now called Proteus vulgaris, Providencia rettgeri, and Morganella morganii)

Lower Respiratory Tract Infections caused by Streptococcus pneumoniae, Staphylococcus aureus (penicillinase- and nonpenicillinase-producing strains), Haemophilus influenzae (including ampicillin- resistant strains), Klebsiella species (including K. pneumoniae), E. coli, Proteus mirabilis, and

Skin and Skin Structure Infections due to Staphylococcus aureus (penicillinase- and nonpenicillinase- producing strains), Staphylococcus epidermidis, Streptococcus pyogenes, Streptococcus species (excluding enterococci), Escherichia coli, Klebsiella pneumoniae, Peptococcus niger Peptostreptococcus species

Gynecologic Infections caused by Staphylococcus aureus (including penicillinase and nonpenicillinase-producing strains), Staphylococcus epidermidis, Streptococcus species (excluding enterococci), Streptococcus agalactlae, E. coli, Proteus mirabilis. Neisseria gonorrhoeae. Bacteroides species (excluding B. distasonis, B. ovatus, B. thetaiotaomicron), Fusobacterium species*, and gram-positive anaerobic cocci (including Peptococcus niger and Peptostreptococcus species). Cefotetan like other cephalosporins, has no activity against Chlamydia trachomatis. Therefore, when cephalosporins are used in the treatment of pelvic inflammatory disease, and C. trachomatis is one of the suspected pathogens, appropriate tichlamydial coverage should be added

Intra-abdominal Infections caused by E. coli. Klebsiella species (including K. pneumoniae), Streptococcus species (excluding enterococci), Bacteroides species (excluding B. stasonis B. ovatus B. thetaiotaomicron) and Clostridium

Bone and Joint Infections caused by Staphylococcus aureus*.

* Efficacy for this organism in this organ system was studied in

Specimens for bacteriological examination should be obtained in order to isolate and identify causative organisms and to determine their susceptibilities to cefotetan. Therapy may be instituted before results of susceptibility studies are known; however, once these results become available, the antibiotic treatment should be adjusted accordingly.

In cases of confirmed or suspected gram-positive or gram-negative sepsis or in patients with other serious infections which the causative organism has not been identified, is possible to use CEFOTAN® concomitantly with an aminoglycoside. Cefotetan combinations with aminoglycosides have been shown to be synergistic in vitro against many Enterobacteriaceae and also some other gram-negative bacteria. The dosage recommended in the labeling of both antibiotics may be given and depends on the severity of the infection and the patient's condition

NOTE: Increases in serum creatinine have occurred when CEFOTAN® was given alone. If CEFOTAN® and an aminoglycoside are used concomitantly, renal function should be carefully monitored, because nephrotoxicity may be

Prophylaxis

The preoperative administration of CEFOTAN® may reduce the incidence of certain postoperative infections in patients undergoing surgical procedures that are classified as clean contaminated or potentially contaminated (e.g., cesarean section, abdominal or vaginal hysterectomy, transurethral

surgery, biliary tract surgery, and gastrointestinal surgery). If there are signs and symptoms of infection, specimens for culture should be obtained for identification of the causative organism so that appropriate therapeutic measures may be

CONTRAINDICATIONS

CEFOTAN* is contraindicated in patients with a known allergy to the cephalosporin group of antibiotics and in those individuals who have experienced a cephalosporin associated hemolytic

WARNINGS

WARNINGS
BEFORE THERAPY WITH CEFOTAN® IS INSTITUTED,
CAREFUL INQUIRY SHOULD BE MADE TO DETERMINE
WHETHER THE PATIENT HAS HAD PREVIOUS
HYPERSENSITIVITY REACTIONS TO CEFOTETAN DISODIUM, CEPHALOSPORINS, PENICILLINS, OR OTHER

DRUGS. IF THIS PRODUCT IS TO BE GIVEN TO PENICILLIN-SENSITIVE PATIENTS, CAUTION SHOULD BE EXERCISED BECAUSE CROSS-HYPERSENSITIVITY AMONG BETA ACTAM ANTIBIOTICS HAS BEEN CLEARLY DOCUMENTED AND MAY OCCUR IN UP TO 10% OF PATIENTS WITH AND MAY OCCUR IN UP TO 10% OF PATIENTS WITH A HISTORY OF PENICILLIN ALLERGY, IF AN ALLERGIC REACTION TO CEFOTAN® OCCURS, DISCONTINUE THE DRUG. SERIOUS ACUTE HYPERSENSITIVITY REACTIONS MAY REQUIRE TREATMENT WITH EPINEPHRINE AND OTHER EMERGENCY MEASURES, INCLUDING OXYGEN, INTRAVENOUS FLUIDS. INTRAVENOUS ANTIHISTAMINES CORTICOSTEROIDS, PRESSOR AMINES, AND AIRWAY MANAGEMENT, AS CLINICALLY INDICATED.

AN IMMUNE MEDIATED HEMOLYTIC ANEMIA HAS BEEN OBSERVED IN PATIENTS RECEIVING CEPHALOSPORIN CLASS ANTIBIOTICS. SEVERE CASES OF HEMOLYTIC ANEMIA, INCLUDING FATALITIES. HAVE BEEN REPORTED IN ASSOCIATION WITH THE ADMINISTRATION OF CEFOTETAN. SUCH REPORTS ARE UNCOMMON. THERE APPEARS TO BE AN INCREASED RISK OF DEVELOPING HEMOLYTIC ANEMIA ON CEFOTETAN RELATIVE TO OTHER CEPHALOSPORINS OF AT LEAST 3 FOLD. IF A PATIENT DEVELOPS ANEMIA ANYTIME WITHIN 2 TO 3 WEEKS SUBSEQUENT TO THE ADMINISTRATION OF CEFOTETAN, THE DIAGNOSIS OF A CEPHALOSPORIN ASSOCIATED ANEMIA SHOULD BE CONSIDERED AND THE DRUG STOPPED UNTIL THE ETIOLOGY IS DETERMINED WITH CERTAINTY, BLOOD TRANSFUSIONS MAY BE CONSIDERED AS NEEDED (see CONTRAINDICATIONS)

PATIENTS WHO RECEIVE COURSES OF CEFOTETAN FOR TREATMENT OR PROPHYLAXIS OF INFECTIONS SHOULD HAVE PERIODIC MONITORING FOR SIGNS AND SYMPTOMS OF HEMOLYTIC ANEMIA INCLUDING A MEASUREMENT OF HEMATOLOGICAL PARAMETERS WHERE APPROPRIA

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including cefotetan, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of C. difficile.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of C. difficile cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patient who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against C. difficile may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated.

ommon with many other broad-spectrum antibiotics, In common with many other broad-spectrum antibiotics, CEFOTAN® may be associated with a fall in prothrombin activity and, possibly, subsequent bleeding. Those at increased risk include patients with renal or hepstobiliary impairment or poor mutritional state, the elderty, and patients with cancer.

nutritional state, the elderly, and patients with cancer. Prothrombin time should be monitored and exogenous vitamin K administered as indicated.

PRECAUTIONS

General

General
Prescribing CEFOTAN* in the absence of 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.

As with other broad-spectrum antibiotics, prolonged use of CEFOTAN® may result in overgrowth of nonsusceptible organisms. Careful observation of the patient is essential. If infection does occur during therapy, appropriate measure

CEFOTAN® should be used with caution in individuals with a history of gastrointestinal disease, particularly colitis

nformation for Patients

Diarrhea is a common problem caused by antibiotics which usually ends when the antibiotic is discontinued. Sometimes after starting treatment with antibiotics, patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibiotic. If this occurs, patients should contact their physician as soon as possible.

Patients should be counseled that antibacterial drugs, including CEFOTAN®, should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When CEFOTAN 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 CEFOTAN® (cefotetan for Injection, USP) or other antibacterial drugs in the

As with some other cephalosporins, a disulfiram-like reaction characterized by flushing, sweating, headache, and tachycardia may occur when alcohol (beer, wine, etc.) is ingested within

72 hours after CEFOTAN® (cefotetan for Injection, USP) 300), alkaline phosphatase (1 in 700), and LDH (1 in 700). administration. Patients should be cautioned about the gestion of alcoholic beverages following the administration of

Increases in serum creatinine have occurred when CEFOTAN® was given alone. If CEFOTAN® and an aminoglycoside are used concomitantly, renal function should be carefully monitored, because nephrotoxicity may be potentiated

Drug/Laboratory Test Interactions

The administration of CEFOTAN® may result in a false positive reaction for glucose in the urine using Clinitest**, Benedict's solution, or Fehling's solution. It is recommended that glucose tests based on enzymatic glucose oxidase be used.

As with other cephalosporins, high concentrations of cefotetan may interfere with measurement of serum and urine creatinine levels by Jaffé reaction and produce false increases in the levels of creatinine reported

Carcinogenesis, Mutagenesis, Impairment of Fertility

Although long-term studies in animals have not been performed to evaluate carcinogenic potential, no mutagenic potential of cefotetan as found in standard laboratory tests.

Cefotetan has adverse affects on the testes of prepubertal rats. Subcutaneous administration of 500 mg/kg/day (approximately 8 to 16 times the usual adult human dose) on days 6 to 35 of life (thought to be developmentally analogous to late childhood and prepuberty in humans) resulted in reduced testicular weight and miniferous tubule degeneration in 10 of 10 animals. Affected cells included spermatogonia and spermatocytes; Sertoli and Levdig cells were unaffected. Incidence and severity of lesions were dose-dependant; at 120 mg/kg/day (approximately 2 to 4 times the usual human dose) only 1 of 10 treated animals was affected, and the degree of degeneration was mild.

Similar lesions have been observed in experiments of comparable design with other methylthiotetrazole-containing antibiotics and impaired fertility has been reported, particularly at high dose levels. No testicular effects were observed in eek-old rats treated with up to 1000 mg/kg/day SC for 5 weeks, or in infant dogs (3 weeks old) that received up to 300 mg/kg/day IV for 5 weeks. The relevance of these findings to

Pregnancy Teratogenic Effects. Pregnancy Category B Reproduction studies have been performed in rats and monkeys at doses up to 20 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to cefotetan. 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.

Nursing Mothers

Cefotetan is excreted in human milk in very low concentrations. Caution should be exercised when cefotetan is administered to

Pediatric Use

Safety and effectiveness in pediatric patients have not been

Of the 925 subjects who received cefotetan in clinical studies 492 (53%) were 60 years and older, while 76 (8%) were 80 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and the other reported clinical experience has not identified differences in responses between elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled

This drug is known to be substantially excreted by the kidney and the risk of toxic reactions to this drug may be greater in natients with impaired renal function. Because elderly natients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (see DOSAGE AND ADMINISTRATION Impaired

ADVERSE REACTIONS

In clinical studies, the following adverse effects were considered related to CEFOTAN therapy. Those appearing in italics have been reported during postmarketing experience.

Gastrointestinal: symptoms occurred in 1.5% of patients, the most frequent were diarrhea (1 in 80) and nausea (1 in 700); pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment or surgical prophylaxis (see WARNINGS)

Hematologic: laboratory abnormalities occurred in 1.4% of patients and included eosinophilia (1 in 200), positive direct Coombs test (1 in 250), and thrombocytosis (1 in 300): agranulocytosis, hemolytic anemia, leukopenia, enia, and prolonged prothrombin time with a

Hepatic: enzyme elevations occurred in 1.2% of patients and included a rise in ALT (SGPT) (1 in 150), AST (SGOT) (1 in

Hypersensitivity: reactions were reported in 1.2% of patients and included rash (1 in 150) and itching (1 in 700); anaphylactic reactions and urticaria.

Local: effects were reported in less than 1% of patients and included phlebitis at the site of injection (1 in 300), and comfort (1 in 500).

Renal: Elevations in BUN and serum creatinine have been

Urogenital: Nephrotoxicity has rarely been reported.

In addition to the adverse reactions listed above which have been observed in patients treated with cefotetan, the following adverse reactions and altered laboratory tests have been reported for cephalosporin-class antibiotics: pruritus, Stevens-Johnson syndrome, erythema multiforme, toxic epidermal necrolysis, vomiting, abdominal pain, colitis, superinfection, vaginitis including vaginal candidiasis, renal dysfunction, toxic nephropathy, hepatic dysfunction including cholestasis, aplastic anemia, hemorrhage, elevated bilirubin, pancytopenia, and neutropenia.

Several cephalosporins have been implicated in triggering seizures, particularly in patients with renal impairment, when the dosage was not reduced (see DOSAGE AND ADMINISTRATION and OVERDOSAGE). If seizures associated with drug therapy occur, the drug should be discontinued. Anticonvulsant therapy can be given if clinically indicated.

To report SUSPECTED ADVERSE REACTIONS, contact Teligent Pharma, Inc. at 1-856-697-1441, or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

Information on overdosage with CEFOTAN® in humans is not available. If overdosage should occur, it should be treated symptomatically and hemodialysis considered, particularly if renal function is compromised.

DOSAGE AND ADMINISTRATION Treatment

The usual adult dosage is 1 or 2 grams of CEFOTAN® (cefotetan for Injection, USP) administered intravenously or intramuscularly. Proper dosage and route of administration should be determined by the condition of the patient, severity of tion and eue bility of the causa

General	Guidelines for cefotetan for la	Dosage of CEFOTAN® njection, USP)
Type of Infection	Daily Dose	Frequency and Route
Urinary Tract	1 to 4 grams	500 mg every 12 hours IV or IM 1 or 2 g every 24 hours IV or IM 1 or 2 g every 12 hours IV or IM
Skin & Skin Structure		
Mild - Moderate*	2 grams	2 g every 24 hours IV 1 g every 12 hours IV or IM
Severe	4 grams	2 g every 12 hours IV
Other Sites	2 to 4 grams	1 or 2 g every 12 hours IV or IM
Severe	4 grams	2 g every 12 hours IV
Life-Threatening	6 grams ^b	3 g every 12 hours IV

8Klehsiella pneumoniae skin and skin structure infections should be treated with 1 or 2 grams every 12 hours IV or IM. b Maximum daily dosage should not exceed 6 grams.

If Chlamydia trachomatis is a suspected pathogen in gynecologic infections, appropriate antichlamydial coverage should be added, since defotetan has no activity against this organism.

To prevent postoperative infection in clean contaminated or potentially contaminated surgery in adults, the recommended dosage is 1 or 2 g of CEFOTAN® (cefotetan for Injection, USP) administered once, intravenously, 30 to 60 minutes prior to surgery. In patients undergoing cesarean section, the dose should be administered as soon as the umbilical cord is clamped.

Impaired Renal Function

When renal function is impaired, a reduced dosage schedule must be employed. The following dosage guidelines may be

		Name and		provide the first live	ACCUPATION AND ADDRESS.
DOSAGE	GUIDELINES	FOR	PATIENTS	WITH	MPAIRED
			INCTION		

	RENAL FUNCTION	
Creatinine Clearance mL/min	Dose	Frequency
> 30	Usual Recommended Dosage*	Every 12 hours
10 to 30	Usual Recommended Dosage*	Every 24 hours
< 10	Usual Recommended	Every 48 hours

Dose determined by the type and severity of infection, and

Alternatively, the dosing interval may remain constant at 12 hour intervals, but the dose reduced to one-half the usual recommended dose for patients with a creatinine clearance of 10 to 30 mL/min, and one-quarter the usual recommended dose for patients with a creatinine clearance of less than 10 mL/min. When only serum creatinine levels are available, creatinine clearance may be calculated from the following formula. The serum creatinine level should represent a steady state of renal

Weight (kg) x (140 - age) 72 x serum creatinine (mg/100 mL)

Females: 0.85 x value for males

Cefotetan is dialyzable and it is recommended that for patients undergoing intermittent hemodialysis, one-quarter of the usual recommended dose be given every 24 hours on days between dialysis and one-half the usual recommended dose on the day

Preparation of Solution For Intravenous Use

Reconstitute with Sterile Water for Injection. Shake to dissolve and let stand until clear.

Vial Size	Amount of Diluent Added (mL)	Approximate Withdrawable Vol (mL)	Approximate Average Concentration (mg/mL)
1 gram	10	10.5	95
2 gram	10 to 20	11 to 21	182 to 95

For Intramuscular Use

Reconstitute with Sterile Water for Injection; Bacteriostatic Water for Injection; Sodium Chloride Injection 0.9%, USP; 0.5% Lidocaine HCl; or 1% Lidocaine HCl. Shake to dissolve and let

Vial Size	Amount of Diluent Added (mL)		Approximate Average Concentration (mg/mL)
1 gram	2	2.5	400
2 gram	3	4	500

Intravenous Administration

The intravenous route is preferable for patients with bacteremia, bacterial septicemia, or other severe or life-threatening infections, or for patients who may be poor risks because of lowered resistance resulting from such debilitating conditions as malnutrition, trauma, surgery, diabetes, heart failure, or malignancy, particularly if shock is present or impending.

For intermittent intravenous administration, a solution contain 1 gram or 2 grams of CEFOTAN® (cefotetan for Injection, USF in Sterile Water for Injection can be injected over a period of three to five minutes. Using an infusion system, the solution may also be given over a longer period of time through the tubing system by which the patient may be receiving other intravenous solutions. Butterfly® or scalp vein-type needles are preferred for this type of infusion. However, during infusion of the solution containing CEFOTAN® (cefotetan for Injection, USP), it is advisable to discontinue temporarily the administration of other solutions at the same site

NOTE: Solutions of cefotetan must not be admixed with solutions containing aminoglycosides. If CEFOTAN® and aminoglycosides are to be administered to the same patient. they must be administered separately and not as a mixed

Intramuscular Administration

As with all intramuscular preparations, CEFOTAN® (cefotetan for Injection, USP) should be injected well within the body of a relatively large muscle such as the upper outer quadrant of the buttock (i.e., gluteus maximus); aspiration is necessary to avoid inadvertent injection into a blood vessel.

Frozen samples should be thawed at room temperature before use. After the periods mentioned below, any unused solutions or frozen material should be discarded. DO NOT REFREEZE.

NOTE: Solutions of CEFOTAN® (cefotetan for Injection, USP) must not be admixed with solutions containing aminoglycosides If CEFOTAN® (cefotetan for Injection, USP) and aminoglycosides are to be administered to the same patient, they must be administered separately and not as a mixed injection. DO NOT ADD SUPPLEMENTARY MEDICATION.

CEFOTAN® (cefotetan for Injection, USP) reconstituted as described above (see DOSAGE AND ADMINISTRATION, Preparation of Solution) maintains satisfactory potency for 24 hours at room temperature (25°C/77°F), for 96 hours under refrigeration (5°C/41°F), and for at least 1 week in the frozen state (-20°C/-4°F). After reconstitution and subsequent storage in disposable glass or plastic syringes, CEFOTAN® (cefotetan for Injection, USP) is stable for 24 hours at room temperature

and 96 hours under refrigeration.

NOTE: Parenteral drug products should be inspected visually whenever solution and container permit.

HOW SUPPLIED

CEFOTAN® (cefotetan for Injection, USP) is a dry, white to pale yellow powder supplied in vials containing cefotetan disodium equivalent to 1 g and 2 g cefotetan activity for intravenous and intramuscular administration. The vials should be stored at 20th to 25° C (68° to 77° F) [see USP Controlled Room Temperature] and should be protected from light.

The following packages are available

NDC No.	Strength	
52565-052-10	1 gram	10 mL vial, packaged in a tray of 10.
52565-053-10	2 grams	20 mL vial, packaged in a tray of 10.

Vial stoppers do not contain natural rubber latex.

REFERENCES

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2.National Committee for Clinical Laboratory Standards. Performance Standards for Antimicrobial Disk Susceptibility
Tests - Fifth Edition. Approved Standard NCCLS Document
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 National Committee for Clinical Laboratory Standards.
 Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria - Third Edition, Approved Standard NCCLS Document M11-A3, Vol. 13, No. 26, NCCLS, Villanova, PA. December 1993

[‡]Clinitest[®] is a registered trademark of Ames Division, Miles Laboratories, Inc.

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Manufactured for Teligent Pharma, Inc., Buena NJ 08310



Teligent Pharma, Inc., Ruena, New Jersey, 08310

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