## Cleocin HCI®

clindamycin hydrochloride capsules, USP

PHARMACIA

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





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## Cleocin HCI

brand of clindamycin hydrochloride capsules, USP

### WARNING

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

Because clindamycin therapy has been associated with severe colitis which may end fatally, it should be reserved for serious infections where less toxic antimicrobial agents are inappropriate, as described in the INDICATIONS AND USAGE section. It should not be used in patients with nonbacterial infections

TIONS AND USAGE section. It should not be used in patients with nonbacterial infections such as most upper respiratory tract infections such as most upper respiratory tract infections such as most upper respiratory tract infections. Treatment with antibacterial agents alters the normal flora of the colon and may permit over-rowth of clostridia. Studies indicate that a toxin produced by Clostridium difficile is one primary cause of "antibiotic-associated collists." After the diagnosis of pseudomembranous collits has been established, therapeutic measures should be initiated. Mild cases of pseudomembranous collits usually respond to drug discontinuation alone. In moderate to severe cases, consideration should be given to man-

ascontinuation 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.

Diarrhea, colitis, and pseudomembranous colitis have been observed to begin up to several weeks following cessation of therapy with clindamycin.

DESCRIPTION
Clindamycin hydrochloride is the hydrated hydrochloride salt of clindamycin. Clindamycin is a semisynthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent compound lincomycin. CLEOCIN HOI Copsules contain clindamycin hydrochloride equivalent to 75 mg, 150 mg or 300 mg of clindamycin.

damycin.
Inactive ingredients: **75 mg**—corn starch, FD&C blue
no. 1, FD&C yellow no. 5, gelatin, lactose, magnesium
stearate and talc; **150 mg**—corn starch, FD&C blue no.
1, FD&C yellow no. 5, gelatin, lactose, magnesium
stearate, talc and titanium dioxide; **300 mg**—corn
starch, FD&C blue no. 1, gelatin, lactose, magnesium
stearate, talc and titanium dioxide.
The structural formula is represented below:

The chemical name for clindamycin hydrochloride is fethyl 7-chloro-6,7,8-trideoxy-6-(1-methyl-*trans*-4-ropyl-L-2-pyrolidinecarboxamido)-1-thio-*t-threo*-α-D-alacto-octopyranoside monohydrochloride.

### CLINICAL PHARMACOLOGY

CLINICAL PHARMACOLOGY

Human Pharmacology: Serum level studies with a 150 mg oral dose of clindamycin hydrochloride in 24 normal adult volunteers showed that clindamycin was rapidly absorbed after oral administration. An average peak serum level of 2.50 mcg/mL was reached in 45 minutes; serum levels averaged 1.51 mcg/mL at 3 hours and 0.70 mcg/mL at 6 hours. Absorption of an oral dose is virtually complete (90%), and the concomitant administration of food does not appreciably modify the serum concentrations; serum levels have been uniform and predictable from person to person and dose to dose Serum level studies following multiple doses of CLEOCIN HCl for up to 14 days show no evidence of accumulation or altered metabolism of drug. Serum half-life of clindamycin is increased slightly in patients with markedly reduced renal function.

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Hemodialysis and peritoneal dialysis are not effective in removing clindamycin from the serum.

Concentrations of clindamycin in the serum increased linearly with increased dose. Serum levels exceed the Concentrations of clindamycin in the serum increaseu linearly with increased dose. Serum levels exceed the MIC (minimum inhibitory concentration) for most indicated organisms for at least six hours following administration of the usually recommended doses. Clindamycin is widely distributed in body fluids and tissues (including bones). The average biological hall-life is 2.4 hours. Approximately 10% of the bioactivity is excreted in the urine and 3.6% in the feces; the remainder is excreted as bioinactive metabolities.

Doses of up to 2 grams of clindamycin per day for 14 days have been well tolerated by healthy volunteers, except that the incidence of gastrointestinal side effects is greater with the higher doses.

except that the includence of gastromestinal side effects is greater with the higher doses.

No significant levels of clindamycin are attained in the cerebrospinal fluid, even in the presence of inflamed

No significant levels of clindamycin are attained in the cerebrospinal fluid, even in the presence of inflamed meninges. Pharmacokinetic studies in elderly volunteers (61-79 years) and younger adults (18-39 years) indicate that age alone does not alter clindamycin pharmacokinetics (clearance, elimination half-life, volume of distribution, and area under the serum concentration-time curve) after IV administration of clindamycin phosphate. After oral administration of clindamycin phorochloride, elimination half-life is increased to approximately 4.0 hours (range 3.4-5.1 h) in the elderly compared to 3.2 hours (range 2.1-4.2 h) in younger adults. The extent of absorption, however, is not different between age groups and no dosage alteration is necessary for the elderly with normal hepatic function and normal (ageadusted) renal function.

Microbiology: Clindamycin inhibits bacterial protein synthesis by binding to the 50S subunit of the ribosome. It has activity against Gram-positive aerobes and anaerobes as well as the Gram-negative anaerobes. Clindamycin and lincomornia is complete. Antagonism with has been demonstrated between clindamycin and erythomycin.

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

Gram-positive aerobes
Staphylococcus aureus (methicillin-susceptible

strains)
Streptococcus pneumoniae (penicillin-susceptible

# strains) Streptococcus pyogenes

Prevotella melaninogenica Fusobacterium necrophorum Fusobacterium nucleatum

Peptostreptococcus anaerobius Clostridium perfringens

Clostridium pertringens
The following in vitro data are available, but their clinical significance is unknown. At least 90% of the following microorganisms exhibit an in vitro minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for clindamycin. However, the safety and effectiveness of clindamycin in treating clinical infections due to these microorganisms have not been established in adequate and well-controlled clinical trials.

Gram-positive aerobes
Staphylococcus epidermidis (methicillin-susceptible strains)
Streotococcus agalactiae

Streptococcus agalactiae

Streptococcus anginosus Streptococcus oralis

Streptococcus orials
Streptococcus mitis
Anaerobes
Prevotella intermedia
Prevotella bivia
Propionibacterium acnes
Micromonas ("Peptostreptococcus") micros
Finegoldia ("Peptostreptococcus") magna
Actinomyces israelii
Clostridium colstridioforme

Clostridium clostridioforme Eubacterium lentum

SUSCEPTIBILITY TESTING METHODS:
NOTE: Susceptibility testing by dilution methods
requires the use of clindamyric susceptibility powder.
When available, the results of *in vitro* susceptibility
tests should be provided to the physician as periodic
reports that describe the susceptibility profile of noscocmial and community-acquired pathogens. These reports
should aid the physician in selecting the most effective
antimicrobial.

shound an ine-prosection antimicrobial milimicrobial.

\*\*Dillution Techniques: Quantitative methods are used to determine antimicrobial minimum 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 and agar)<sup>1,2,3</sup> or equivalent with stan-

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dardized inoculum concentrations and standardized concentrations of clindamycin powder. The MIC values should be interpreted according to the criteria provided in Table 1.

Diffusion Techniques: Quantitative methods that require the measurement of zone diameters also provide reproducible estimates of the susceptibility of bacvice reproducince estimates of the susceptibility of bacteria to antimicrobial compounds. One such standardized procedure<sup>2,3</sup> requires the use of standardized inoculum concentrations. This procedure uses paper disks impregnated with 2 mog of clindamycin to test the susceptibility of microorganisms to clindamycin. The disk diffusion interpretive criteria are provided in Table 1.

Table 1. Susceptibility Interpretive Criteria for Clindamycin

	Susceptibility Interpretive Criteria						
Pathogen	Con	Minima nhibitor centrat in mcg	y ions	Disk Diffusion (Zone Diameters in mm)			
Staphylococcus spp.	<b>S</b> ≤0.5	I 1-2	<b>R</b> ≥4	<b>S</b> ≥21	1 15-20	<b>R</b> ≤14	
Streptococcus pneumoniae and other Streptococcus spp.	≤0.25ª	0.5	≥1	≥19 <sup>b</sup>	16-18	≤15	
Anaerobic Bacteriac	≤2	4	≥8	NA	NA	NA	

These interpretive standards for *S. pneumoniae* and other *Streptococcus* spp. are applicable only to tests performed by broth microdilution using cation-adjusted Mueller-Hinton broth with 2 to 5% lysed horse blood incculated with a direct colony suspension and incubated in ambient air at 35°C for 20 to 24 hours. These zone diameter interpretive standards are applicable only to tests performed using Mueller-Hinton agar supplemented with 5% sheep blood incculated with a direct colony suspension and incubated in 5% CO<sub>2</sub> at 35°C for 20 to 24 hours. These interpretive criteria are for all anaerobic bacterial pathogens; no organism specific interpretive criteria are available. Na-not applicable

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. A report 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 that 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 selected.

selected. Quality Control
Standardized susceptibility test procedures require the use of quality control microorganisms to control the technical aspects of the test procedures. Standard clindamycin powder should provide the following range of values noted in Table 2. NOTE: Quality control microorganisms are specific strains of organisms with intrinsic biological properties relating to resistance mechanisms and their genetic expression within bacteria; the specific strains used for microbiological quality control are not clinically significant.

Table 2. Acceptable Quality Control Ranges for Clindamycin to be Used in Validation of

	Acceptable Quality Control Ranges			
QC Strain	Minimum Inhibitory Concentration (MIC in mcg/mL)	Disk Diffusion (Zone Diameters in mm)		
When Testing Aerobic Pathogens				
Staphylococcus aureus ATCC 29213	0.06-0.25	NA		
Staphylococcus aureus ATCC 25923	NA	24-30		
Streptococcus pneumoniae ATCC 49619 <sup>d</sup>	0.03-0.12°	19-25 <sup>f</sup>		



Composition Unit 2566



COMPOSITION ORDER # 22685	CL	EOCIN HCL				10 570 928
0225-01		NDC # 0009-0225-01	692851		Insert	
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ADDITIONAL INFORMATION Spine 4" from bott	om		·	12/09/0	)3	TYPESET BY KL/DHUFF

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Table 2. (continued)

	Acceptable Quality Control Ranges				
QC Strain	Minimum Inhibitory Concentration (MIC in mcg/mL)	Disk Diffusion (Zone Diameters in mm)			
When Testing Strict Anaerobes					
Bacteroides fragilis ATCC 25285	0.5-2	NA			
Bacteroides thetaiotaomicron ATCC 29741	2-8	NA			
Eubacterium lentum ATCC 43055	0.06-0.25	NA			

- Na—Not applicable

  d This organism may be used for validation of susceptibility test
  results when testing *Streptococcus* spp. other than *S. pneumoniae*.

  This quality control range for *S. pneumoniae* is applicable only to
  tests performed by broth microdilution using station-adjusted
  Mueller-Hinton broth with 2 to 5% lysed horse blood incoulated
  with a direct colony suspension and incubated in ambient air at
  it of the station of the st

### INDICATIONS AND USAGE

INDICATIONS AND USAGE
Clindamycin is indicated in the treatment of serious infections caused by susceptible anaerobic bacteria.
Clindamycin is also indicated in the treatment of serious infections due to susceptible strains of streptococci, and staphylococci. Its use should be reserved for penicillin-allergic patients or other patients for whom, in the judgment of the physician, a penicillin is inappropriate. Because of the risk of colitis, as described in the WARNING box, before selecting clindamycin the physician should consider the nature of the infection and the suitability of less toxic alternatives (eg. evythormycin). erythromycin)

erythromycin).

Anaerobes: Serious respiratory tract infections such as empyema, anaerobic pneumonilis and lung abscess; serious skin and soft tissue infections; septicemia; intra-abdominal infections such as peritonitis and intra-abdominal abscess (typically resulting from anaerobic organisms resident in the normal gastrointestinal tract); infections of the female pelvis and genital tract such as endometritis, nongonococcal tubovarian abscess, pelvic cellulitis and postsurgical vaginal cuff infection.

Streptococci: Serious respiratory tract infections; serious skin and soft tissue infections.

Staphylococci: Serious respiratory tract infections; serious skin and soft tissue infections.

Pneumococci: Serious respiratory tract infections.

Bacteriologic studies should be performed to determine the causative organisms and their susceptibility to

mine the causative organisms and their susceptioning to clindamycin.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of CLEOCIN HCI and other antibacterial drugs, CLEOCIN HCI 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 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.

CONTRAINDICATIONS
CLECCIN HCl is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin.

WARNINGS
See WARNING box.
Pseudomembranous colitis has been reported
with nearly all antibacterial agents, including clindamycin, and may range in severity from mild to lifethreatening. Therefore, it is important to consider
this diagnosis in patients who present with diarrhea
subsequent to the administration of antibacterial

agents.

Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by Clostridium difficiale 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

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severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against *C. difficial* coilitis.

A careful inquiry should be made concerning previous sensitivities to drugs and other allergens. *Usage in Meningitis*—Since clindamycin does not diffuse adequately into the cerebrospinal fluid, the drug should not be used in the treatment of meningitis.

## PRECAUTIONS General

General
Review of experience to date suggests that a sub-group of older patients with associated severe illness may tolerate diarrhea less well. When clindamycin is indicated in these patients, they should be carefully monitored for change in bowel frequency. CLEOCIN HCI should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly collits. CLEOCIN HCI should be prescribed with caution in atonic individuals.

CLEOCIN HCI should be prescribed with caution in atopic individuals.
Indicated surgical procedures should be performed in conjunction with antibiotic therapy.
The use of CLEOCIN HCI occasionally results in overgrowth of nonsusceptible organisms—particularly yeasts. Should superinfections occur, appropriate measures should be taken as indicated by the clinical situation.

situation.

Clindamycin dosage modification may not be necessary in patients with renal disease. In patients with moderate to severe liver disease, prolongation of clindamycin half-life has been found. However, it was erate to severe liver disease, prolongation of clin-damycin half-life has been found. However, it was postulated from studies that when given every eight hours, accumulation should rarely occur. Therefore, dosage modification in patients with liver disease may not be necessary. However, periodic liver enzyme determinations should be made when treating patients with severel liver disease.

The 75 mg and 150 mg capsules contain FD&C yellow no. 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible individuals. Although the overall incidence of FD&C yellow no. 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity. He has the control of the properties of the provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

### Information for Patients

Information for Patients
Patients should be counseled that antibacterial drugs including CLEOCIN HCI should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When CLEOCIN HCI 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 CLEOCIN HCI or other antibacterial drugs in the future.

Laboratory Tests

Laboratory Tests
During prolonged therapy, periodic liver and kidney function tests and blood counts should be performed.

function tests and blood counts should be performed.

Drug Interactions
Clindamycin has been shown to have neuromuscular blocking properties that may enhance the action of other neuromuscular blocking agents. Therefore, it should be used with caution in patients receiving such agents.
Antagonism has been demonstrated between clindamycin and erythromycin in vitro. Because of possible clinical significance, these two drugs should not be administered concurrently.

Carcinogenesis, Mutagenesis, Impairment of Fertility

term studies in animals have not been percomp term studies in animals have not been per-formed with clindamycin to evaluate carcinogenic poten-tial. Genotoxicity tests performed included a rat micronucleus test and an Ames Salmonella reversion

micronucieus test and an Ames saimoneila reversion test. Both fests were negative. Fertillity studies in rats treated orally with up to 300 mg/kg/day (approximately 1.6 times the highest recommended adult human dose based on mg/m²) revealed no effects on fertillity or mating ability.

revealed no effects on fertility or mating ability. Pregnancy: Teratogenic effects Pregnancy category B Reproduction studies performed in rats and mice using oral doses of clindamycin up to 600 mg/kg/day (3, 2, and 1, 6 times the highest recommended adult human dose based on mg/m², respectively) or subcuta-neous doses of clindamycin up to 250 mg/kg/day (1, 3, and 0,7 times the highest recommended adult human dose based on mg/m², respectively) revealed no evi-dence of teratogenicity.

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There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of the human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers
Clindamycin has been reported to appear in breast milk in the range of 0.7 to 3.8 mcg/mL. Pediatric Use

Pediatric Use
When CLEOCIN HCl is administered to the pediatric
population (birth to 16 years), appropriate monitoring of
organ system functions is desirable.

organ system functions is desirable.

Geriatric Use

Clinical studies of clindamycin did not include sufficient numbers of patients age 65 and over to determine whether they respond differently from younger patients. However, other reported clinical experience indicates that antibiotic-associated colitis and diarrhea (due to Clostridium difficiels) seen in association with most antibiotics occur more frequently in the elderly (>60 years) and may be more severe. These patients should be carefully monitored for the development of diarrhea. Pharmacokinetic studies with clindamycin have shown ocilinically important differences between young and elderly subjects with normal hepatic function and normal (age-adjusted) renal function after oral or intravenous administration.

administration.

ADVERSE REACTIONS
The following reactions have been reported with the use of clindamycin.

Gastronitestinal: Abdominal pain, pseudomembranous collists sophagilis, nausea, vomiting and diarrhea (see collist), sophagilis, nausea, vomiting and diarrhea (see collist), sophagilis, nausea, vomiting and diarrhea (see collists), sophagilis, nausea, vomiting or after antibacterial treatment (see WARNINGS).

Hypersensitivity Reactions: Generalized mild to moderate morbilliform-like (maculopapular) skin rashes are the most frequently reported adverse reactions. Vesiculobullous rashes, as well as urticaria, have been observed during drug therapy. Rare instances of erythema multiforme, some resembling Stevens-Johnson syndrome, and a few cases of anaphylactoid reactions have also been reported.

Skin and Mucous Membranes: Pruritus, vaginitis, and

arru a rew cases or anapnylactoid reactions have also been reported. Skin and Mucous Membranes: Pruritus, vaginitis, and rare instances of exfoliative dermatitis have been reported. (See Hypersensitivity Reactions.)
Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy. Renal: Although no direct relationship of clindamycin to renal damage has been established, renal dysfunction as evidenced by azotemia, oligivaria, and/or proteinuria has been observed in rare instances. Hematopoiettic: Transient neutropenia (leukopenia) and eosinophilia have been reported. Reports of agranulocytosis and thrombocytopenia have been med navious direct etiologic relationship to concurrent clindamycin therapy could be made in any of the foregoing.
Musculoskeletai: Rare instances of polyarthritis have been reported.

OVERDOSAGE
Significant mortality was observed in mice at an intravenous dose of 855 mg/kg and in rats at an oral or subcutaneous dose of approximately 2618 mg/kg. In the mice, convulsions and depression were observed. Hemodialysis and peritoneal dialysis are not effective in removing clindamycin from the serum.

### DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION

If significant diarrhea occurs during therapy, this antibiotic should be discontinued (see WARNING box).

Adults: Serious infections—150 to 300 mg every 6 hours. More severe infections—30 to 450 mg every 6 hours. Pediatric Patients: Serious infections—8 to 16 mg/kg/day (4 to 8 mg/b/day) divided into three or four equal doses. More severe infections—16 to 20 mg/kg/day (8 to 10 mg/b/day) divided into three or four equal doses.

To avoid the possibility of esophageal irritation, CLEOCIN HCI Capsules should be taken with a full

glass of water. Serious infections due to anaerobic bacteria are usually treated with CLEOCIN PHOSPHATE® Sterile Solution. However, in clinically appropriate circumstances, the physician may elect to initiate treatment or continue treatment with CLEOCIN HCI Capsules. In cases of β-hemolytic streptococcal infections, treatment should continue for at least 10 days.

HOW SUPPLIED

CLEOCIN HCI Capsules are available in the following strengths, colors and sizes:

75 mg Green Bottles of 100

150 mg Light Blue and Green Bottles of 16 Bottles of 100 Unit dose package of 100

NDC 0009-0225-02 NDC 0009-0225-03

## Cleocin HCI

brand of clindamycin hydrochloride capsules, USP

300 mg Light Blue Bottles of 16 Bottles of 100 Unit dose package of 100 NDC 0009-0395-13 NDC 0009-0395-14 NDC 0009-0395-02

Store at controlled room temperature 20° to 25° C (68° to 77° F) [see USP].

(68° to 77° F) [see USP].

ANIMAL TOXICOLOGY

One year oral toxicity studies in Spartan SpragueDawley rats and beagle dogs at dose levels up to 300 
mg/kg/day (approximately 1.6 and 5.4 times the highest recommended adult human dose based on mg/m², respectively) have shown clindamycin to be well tolerated. No appreciable difference in pathological findings has been observed between groups of animals treated with clindamycin and comparable control groups. Rats receiving clindamycin hydrochloride at 600 mg/kg/day (approximately 3.2 times the highest recommended adult human dose based on mg/m²) for 6 months toler-ated the drug well; however, dogs dosed at this level (approximately 10.8 times the highest recommended adult human dose based on mg/m²) for secommended adult human dose based on mg/m²) for secommended adult human dose based on mg/m² younited, would not eat, and lost weight. eat, and lost weight.

### $\mathbf{R}$ only

- Ty. only

  REFFRENCES

  1. NCCLS. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically: Approved Standard-5th ed. NCCLS document M7-A5, 2000. NCCLS, 940 West Valley Road, Suite 1400, Wayne, PA 19087-1898.

  2. NCCLS. Performance Standards for Antimicrobial Susceptibility Testing: 13th Informational Supplement. NCCLS document M100-S13 (M2 & M7), 2003. NCCLS, 940 West Valley Road, Suite 1400, Wayne, PA 19087-1898.

- NCCLS. Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria 5th ed. Approved Standard. NCCLS document M11-A5, 2001. NCCLS, 940 West Valley Road, Suite 1400, Wayne, PA
- 19087-1898. NCCLS. Performance Standards for Antimicrobial Disk Susceptibility Tests; Approved Standard-8th ed. NCCLS document M2-A8 (ISBN 1-56238-393-0), 2003. NCCLS, 940 West Valley Road, Suite 1400, Wayne, PA 19087-1898.

Wayne, PA 19097-1898. Made in Canada for Pharmacia & Upjohn Company A subsidiary of Pharmacia Corporation Kalamazoo, MI 49001, USA By Patheon YM, Inc., Toronto, Ontario M3B 1Y5 Canada

Revised November 2003







COMPOSITION ORDER #	PRODU	EOCIN HCL				O 570 928
0225-01		NDC # 0009-0225-01	692851		Insert	
BOTTLE #		10 x 10"	FOLDED SIZE 2.5 x 1"		PD2364	1
spine 4" from bottom				12/09/0	3	TYPESET BY KL/DHUFF

### Cleocin Phosphate®

clindamycin injection, USP and clindamycin injection in 5% dextrose

■ PHARMACIA

To reduce the development of drug-resistant bacteria and main-tain the effectiveness of CLEOCIN PHOSPHATE and other antibac-retial drugs, CLEOCIN PHOSPHATE should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

Sterile Solution is for Intramuscular and Intravenous Use CLEOCIN PHOSPHATE in the ADD-Vantage  $^{\mbox{\scriptsize TM}}$ 

Vial is For Intravenous Use Only

Pseudomenbranau collitis hab been reported with naffy all antibocturial collitis hab been reported with naffy all antibocturial collitis hab been reported may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of the collitis which may end fatally, it should be reserved for serious infections where less toois antimicrobial agents are inappropriate, as described in the INDICATIONS AND bacterial infections such as most upon the properties of the collitis which may end fatally, it should be reserved for inappropriate, as described in the INDICATIONS AND bacterial infections such as most upon the collitis and the color and may permit overgrowth of coloridia. It is not primary cause of antibiotic-associated collisis."

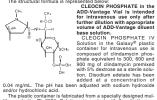
After the diagnosis of pseudomembranous collitis has been established, therapseutic measures should be initiated. Mild discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an incontinuation of the collisis, and pseudomembranous collitis have been observed to begin up to several weeks following cessation of therapy with clindamycin.

DESCRIPTION
CLECOIN PHOSPHATE Sterile Solution in vials contains clin-damycin phosphate, a water soluble ester of clindamycin and phosphoric acid. Each mit contains the equivalent of 150 mg clindamycin, 0.5 mg disodium deltate and 9.45 mg benzyl alcohol advancin, 0.5 mg disodium deltate and 9.45 mg benzyl alcohol antibiotic produced by a 7(5)-chloro-substitution of the 7(R)-hydroxyl group of the parent compound lincomycin.

The chemical name of clindamycin phosphate is L-threo-α-D-galacto-Cotopyranoside, methyl 7-chloro-6.74-trideoxy-6-f([1]) methyl-4-propyl-2-pyrrolidinyl carbonyl aminol-1-thic. 2-(dihydrogen phosphate), (25-trans).

The molecular rounts is Sr<sub>18</sub>H<sub>3</sub>C(IN<sub>2</sub>0<sub>8</sub>PS and the molecular rounts in Sr<sub>18</sub>H<sub>3</sub>C(IN<sub>2</sub>0<sub>8</sub>PS and the molecular rounts are supplied to the property of the property o

eight is 504.96.
The structural formula is represented below:
CLEOCIN PHOSPHATE in the



Low inginit. He pr has been adjused with solution syluctive. The plastic container is fibricated from a specially designed multilayer plastic, PL 2501. Solutions in contact with the plastic container can leach out certain of its chemical components in very small amounts within the expiration period. The suitability of the plastic has been confirmed in tests in animals according to the USP biological tests for plastic containers, as well as by tissue culture toxicily studies.

Biologically inducive university in the property of a cative clindamycia. By the end of short-term intravenous infusion, peak serum levels of active clindamycin are reached. Biologically inactive clindamycin phosphate disappears rapidly from the serum; the average elimination half-life is 6 minutes, however, the serum elimination half-life is 6 minutes, however, the serum elimination half-life is 6 minutes, however, the serum elimination half-life is 0 minutes, however, and 0 minutes 0 minut

of active clindamycin is about 3 hours in adults and  $2^{1}/_{2}$  hours in pediatric patients. After intramuscular injection of clindamycin phosphate, peak levels of active clindamycin are reached within 3 hours in adults and 1 hour in pediatric patients. Serum level curves may be constructed from 10 peak serum levels a given in Table 1 by application of elimination half-lives listed above. Serum level of clindamycin can be a given in Table 1 by application of clindamycin phosphate every 8 to 12 hours in adults and every 6 to 8 hours in pediatric patients, or by continuous intravenous infusion. An equilibrium state is reached by the third dose.

The elimination half-life of indiamytic is increased slightly in patients with markedly reduced renal or hepatic function. Hemodalysis and pertional dialysis are not effective in removing clindamytic from the serum. Dosage schedules need not be mod-dialysis and the service of the model of the service of the con-traction of the service of the se

### Cleocin Phosphate

brand of clindamycin injection, USP and clindamycin injection in 5% dextrose

ume of distribution, and area under the serum concentration-time curve) after IV administration of clindamycin phosphate. After oral administration of clindamycin hydrochloride, elimination half-life is increased to approximately 4.0 horus (range 3.4–5.1 h) in the elderly compared to 3.2 horus (range 2.1–4.2 h) in younger adults. The extent of absorption, however, is not different between age to the compared to 3.2 horus (range 2.1–4.2 h) in younger adults. The extent of absorption however, is not different between age of the compared to the compared t

Table 1. Average Peak and Trough Serum Concent of Active Clindamycin After Dosing with Clindamycin Phosphate

Dosage Regimen	Peak mcg/mL	Trough mcg/mL
Healthy Adult Males (Post equilibrium)		
600 mg IV in 30 min g6h	10.9	2.0
600 mg IV in 30 min g8h	10.8	1.1
900 mg IV in 30 min g8h	14.1	1.7
600 mg IM q12h*	9	
Pediatric Patients (first dose)*		
5-7 mg/kg IV in 1 hour	10	
5-7 mg/kg IM	8	
3-5 mg/kg IM	4	

\*Data in this group from patients being treated for infection.

\*Data in this group from patients being treated for infection.

Microbiology: Clindamycin inhibits bacterial protein synthesis by binding to the 50S subunit of the ribosome. It has activity against Group for the control of the cont

Streptococcus mits
Ansarobes
Ansarob

## SCEPTIBILITY TESTING METHODS:

Eubacterium lentum

SUSCE PTIBLITY TESTING METHODS:
NOTE: Susceptibility testing by dilution methods requires the use of control of the contr

sums to cumpamyon. I he disk diffusion interpretive criteria are provided in Table 2 persible i inicitate that the pathogen is likely to A report of 'Succeptible' inicitates that the pathogen is likely to A report of 'Succeptible' inicitates that the pathogen is not undersome of the pathogen in the blood naches the concentrations usually achievable. A report of 'Intermediate' indicates that the result should be considered equivocal, and, if the microcorganism 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 physicable clinical specification in the pathogen is not flexible to be indicated from causing major discretization in the pathogen is not filely to be inhibited if the antimicrobial comments of the pathogen is not filely to be inhibited if the antimicrobial comber therapy should be selected.

the pathogen is not likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable; other therapy should be selected.

Standardized susceptibility test procedures require the use of quality control microorganisms to control the technical aspects of the test procedures. Standard diridantying powder should provide the test procedures. Standard diridantying powder should provide control microorganisms are specific strains of organisms with intrinsic biological properties relating to resistance mechanisms and their genetic expression within bacteria; the specific strains used for microblogical quality control are not difficulty significant.

### Cleocin Phosphate

brand of clindamycin injection, USP and clindamycin injection in 5% dextrose

Table 2. Susceptibility Interpretive Criteria for Clindamycin

Susceptibility Interpretive Criteria					
Minimal Inhibitory Concentrations (MIC in mcg/mL)			Disk Diffusion (Zone Diameters in mm)		
S	ı	R	S	- 1	R
≤0.5	1-2	≥4	≥21	15-20	≤14
≤0.25ª	0.5	≥1	≥19 <sup>b</sup>	16-18	≤15
≤2	4	≥8	NA	NA	NA
	Minin Con (MIC S ≤0.5	Minimal Inhit Concentrati (MIC in mcg. S I ≤0.5 1-2 ≤0.25a 0.5	Minimal Inhibitory   Concentrations   (MIC in mcg/mL)   S	Minimal Inhibitory   Concentration   Concent	Minimal Inhibitory   Disk Diffur (Zone Diffur (Zone)   Minimal (MIC in meg/ml.)   S

- These interpretive standards for *S. pneumoniae* and other *Streptococcus* spp. are applicable only to tests performed by broth microdilution using cation-adjusted Mueller-Hinton broth with 2 to 5% lysed horse blood inoculated with a firer colory suspension and incubated in ambient air at 35°C for 20 to 24
- suspension and incubated in ambient air at 35°C for 20 to 24 hours.

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Table 3. Acceptable Quality Control Ranges for Clindamycin to be Used in Validation of Susceptibility

rest nesuits					
	Acceptable Quality Control Ranges				
QC Strain	Minimum Inhibitory Concentration (MIC in mcg/mL)	Disk Diffusion (Zone Diameters in mm)			
When Testing Aerobic Pathogens					
Staphylococcus aureus ATCC 29213	0.06-0.25	NA			
Staphylococcus aureus ATCC 25923	NA	24-30			
Streptococcus pneumoniae ATCC 49619 <sup>d</sup>	0.03-0.120	19-25			
When Testing Strict Anaerobes					
Bacteroides fragilis ATCC 25285	0.5-2	NA			
Bacteroides thetaiotaomicron ATCC 29741	2-8	NA			
Eubacterium Ientum ATCC 43055	0.06-0.25	NA			
NA=Not applicable					

Collection

MIDICATIONS AND USAGE

CLEOCIN PHOSPHATE products are indicated in the treatment of serious infections caused by susceptible anaerobic bacteria.

CLEOCIN PHOSPHATE products are also indicated in the treatment of serious infections due to susceptible arians of streptonent of serious infections due to susceptible arians of streptonent of serious infections due to susceptible arians of streptone productions and the subject of the risk of antibiotic-associated pseudomembranous collist, as plugiament of the physician, a potential in singappropriate. Because of the risk of antibiotic-associated pseudomembranous collist, as physician should consider the nature of the infection and the suitability of less toxic alternatives (e.g., e-sythromycin).

Bacteriologic studies should be performed to determine the control of the production of the suitability of less toxic alternatives (e.g., e-sythromycin).

Bacteriologic studies should be performed to determine the control of the suitability of the strength of the suitability of the suitability of less toxic alternatives (e.g., e-sythromycin).

CLEOCIN PHOSPHATE indicated in the treatment of serious with antibiotic history of the suitability of

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tain the effectiveness of CLECGIN PHOSPHATE and other antibac-terial drugs, CLECGIN PHOSPHATE should be used only to treat or prevent infections that are proven or strongly asspected to be the province of the province of the province of the province of the 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.

CONTRAINDICATIONS

This drug is contraindicated in individuals with a history of hyper sensitivity to preparations containing clindamycin or lincomycin. WARNINGS
See WARNING box.
Pseudomembranous colitis has been reported with nearly all

Pseudomembranous cours nas peen reporteu with nearly an antibacterial agents, including clindamycin, and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diar-rhea subsequent to the administration of antibacterial agents.

to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibiacterial agents. Treatment with antibacterial agents alters the normal fitns of the a toxin produced by Clearidanu difficile is one primary cause of antibiotic-associated colitis."

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated. Miti cases of administration of the control of the cont





COMPOSITION ORDER # 23229	CLI	EOCIN PHOSPHATE				0 020 241B
0775-26		0009-0775-26	692843		Insert	
BOTTLE #		SIZE	FOLDED SIZE		DRAWING #	- 00
X		12 x 12"	3 x 2"		PD2355	
ADDITIONAL INFORMATION				DATE		TYPESET BY
Spine 4" from top				1-8-04		l KL

## Cleocin Phosphate

brand of clindamycin injection, USP and clindamycin injection in 5% dextrose

leel 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 receive the state of the state of the state teacher and (2) increase the likelihood that bacteria will be state of the state o

ability. Pregnancy: Teratogenic effects
Pregnancy: Teratogenic effects
Pregnancy: attegory B

The production between the partorned in rats and mice using oral
Reproduction study to 600 m/gl/dgly (2.1 and 1.1 times the
highest recommended adult human dose based on mg/m², respectively) or subuctaneous doses of clindamyrich up 125 m/gl/dgly (0.9 and 0.5 times the highest recommended adult human dose
genicity revealed no environment of the production of teratogenicity.

genicity.

There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of the human response, this drug should be used during pregnancy only if clearly needed.

used during pregnancy only if clearly needed. Nursing Mothers Clindamycin has been reported to appear in breast milk in the range of 0.7 to 3.8 mcg/mt. at dosages of 150 mg orally to 600 mg intravenously. Because of the potential for adverse reactions due to clindamycin in neonates (see Pediatric Use), the decision to dis-continue the drug should be made, taking into account the impor-tance of the drug to the mother.

tance of the drug to the mother.

Pediatric Use

When CLEOCIN PHOSPHATE Sterile Solution is administered to
the pediatric operation (birth to 16 years) appropriate monitoring of
organ system functions is destrable.

Usage in Newborns and Infrastr
Usage in Newborns and triffast, and so a preservative. Benzyl
alcohol has been associated with a fatal "Gasping Syndrome" in
premature infant may leach from the single dose premixed IV preparation in plastic has not been evaluated.

The potential for the toxic effect in the pediatric population from
chemicals that may leach from the single dose premixed IV preparation in plastic has not been evaluated.

The potential to the toute energy and to go permixed IV prepa-chemicals that may leach from the single dose premixed IV prepa-chemicals that may leach from the single dose premixed IV prepa-chemical studies of clindamyrich utili not include sufficient numbers of patients age 65 and over to determine whether they respond dif-ferently from younger patients. However, other reported clinical freently from younger patients. However, other reported clinical (due to Clostridium difficial) seen in association with most antibi-ciac occur more frequently in the elderly (=60 years) and may be more severe. These patients should be carefully monitored for the development of diarnea. With inclindamyin have shown no clini-cally important differences between young and elderly subjects with normal hepatic function and normal (age-adjusted) renal function after oral or intravenous administration.

ADVERSE REACTIONS

The following reactions have been reported with the use of clin-

damycin. 
Gastrointestinal: Antibiotic-associated collitis (see WARNINGS), pseudomembranous collitis, abdominal pain, nausea, and vomiting. The onset of pseudomembranous collitis symptoms may occur during or after antibacterial treatment (see WARNINGS). An unpleas-ant or metallic latest occasionally has been reported after intra-venous administration of the higher doses of clindamycin-phosphate.

venous administration of the nigner doses or clinically care in hypersonsitivity Reactions Maculopapular rash and urticatia have been observed during drug therapy. Generalized mild to moderate morbiliform-like skin rashes are the most frequently reported of all adverse reactions. Rare instances of erythema multiorne, some seembling Steven-Johnson syndrome, have been discorted to the standard of the standard standa

instances of exfoliative dermatitis have been reporteu (see Hypersensitivity Reactions). Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy. Renal: Although no direct relationship clindamycin to renal acotemia, oliguria, and/or proteinuria has been observed in rare instances. Hermatoprojetic: Transient neutropenia (leukopenia) and eosino-philia have been reported. Reports of agranulocytosis and throm-bocytopenia have been made. No direct etiologic relationship to concurrent clindamycin therapy could be made in any of the fore-going.

concurrent clindamycin therapy could be made in any of the fore-going.

Local Reactions: Pain, induration and sterile abscess have been reported after intramuscular injection and thrombophiebitis after intravenous infusion. Reactions can be minimized or avoided by giving deep intramuscular injections and avoiding prolonged use of indwelling intravenous catheters.

Musculoskeistal: Rare instances of polyarthritis have been reported.

Pain instances of cardiopulmonary arrest and hypotensism baye been reported following no rapid intravenous.

hypotension have been reported following too rapid intravenous administration. (See DOSAGE AND ADMINISTRATION section.)

OVERDOSAGE
Significant mortality was observed in mice at an intravenous dose of 855 mg/kg and in rats at an oral or subcutaneous dose of approximately 2618 mg/kg. In the mice, convulsions and depression were observed.

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Hemodialysis and peritoneal dialysis are not effective in remov-ng clindamycin from the serum.

DOSAGE AND ADMINISTRATION
If diarrhea occurs during therapy, this antibiotic should be discontinued (see WARNING box).

Adults: Parenteral (IM or IV Administration)
Serious infections: 600-1200 mg/day in 2, 3 or 4 equal doses.
More severe infections: 1200-2700 mg/day in 2, 3 or 4 equal

ooses. In life-threatening situations due to either aerobes or anaerobes these doses may be increased. Doses of as much as Dilution and Infusion Rates section below.

Single intramuscular injections of greater than 600 mg are not recommended.

Alternatively, drug may be administered in the form of a single apid infusion of the first dose followed by continuous IV infusion as

To maintain serum clindamycin levels	Rapid infusion rate	Maintenance infusion rate
Above 4 mcg/mL	10 mg/min for 30 min	0.75 mg/min
Above 5 mcg/mL	15 mg/min for 30 min	1.00 mg/min
Above 6 mcg/mL	20 mg/min for 30 min	1.25 mg/min

Neonates (less than 1 month):

10 20 mg/kg/day in 3 to 4 equal doses. The lower dosage may be adequate for small prematures.

11 years: Parenteral (IM or IV) advances to the state of the

tions.

Parenteral therapy may be changed to oral CLEOCIN PEDI-ATRIO® Flavored Granules (clindamycin palmitate hydrochloride) or CLEOCIN HCI® Capsules (clindamycin hydrochloride) when the condition warrants and at the discretion of the physician. In cases of β-hemolytic streptococcal infections, treatment should be continued for at least 10 days.

be continued for at least 10 days. Dilution and Infusion Rates: Clindamycin phosphate must be diluted prior to IV administration. The concentration of clin-damycin in dilutent for infusion should not exceed 18 mg per mL. Infusion rates should not exceed 30 mg per minute. The usual infusion dilutions and rates are as follows:

Dose	Diluent	Time
300 mg	50 mL	10 min
600 mg	50 mL	20 min
900 mg	50-100 mL	30 min
1200 mg	100 mL	40 min

Administration of more than 1200 mg in a single 1-hour influsion is not recommended. Parenteral drug products should be inspected visually for particulated and products and solitors containing visualine is complex in concentrations usually used clinically. No incompatibility with the unconcentrations usually used clinically. No incompatibility has been demonstrated with penaltic products and products and

benicillin.

The following drugs are physically incompatible with clindamycin phosphate: ampicillin sodium, phenytoin sodium, barbiturates, aminophyline, calcium glucorate, and magnesium suitate. The compatibility and duration of stability of drug admires will information regarding compatibilities of clindamycin phosphate under specific conditions, please contact the Medical and Drug Information Unit, Pharmacia & Upinh Company.

Physico-Chemical Stability of diluted solutions of CLEOCIN PROSPHATE.

Physico-Chemical Stability of diluted solutions of CLECON PHOSPHATE
Room temperature: 6, 9 and 12 mg/mL (equivalent to clindamycin base) in destrose injection 59, sodium chloride injection 6.9%, or strated physical and chemical stability for at least 16 days at 25°C. Also, 18 mg/mL (equivalent to dindamycin base) in destrose injection 5%, so minibags, demonstrated physical and chemical stability for a least 16 days at 25°C. Also, 18 mg/mL, (equivalent to clindamycin base) in dextrose injection 63%, sodium chloride injection 0.9%, or Lactated Ringers injection in glass bottles or minibags, demonstrated physical and chemical stability for at least 32 days at 4°C. IMPORTANT: This chemical stability information in no way indicated the preparation time. Good professional practice suggests that compounded admittures should be administered a soon after preparation as is feasible.

Mextrose injection of S<sub>1</sub>, sodium chloride injection 0.9%, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for at least 32°C days at 4°C. IMPORTANT: The chemical stability for at 100%, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for a least 30°C, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for at least eight weeks at 10°C.

Frozen solutions should be hawed at room temperature and not referee.

DIRECTIONS FOR DISPENSING
Pharmacy Bulk Package — Not for Direct Infusion
The Pharmacy Bulk Package is for use in a Pharmacy Admixture
Service only under a laminar flow hood. Entry into the vial should
diameter sterile dispensing device, and contents dispensed in
aliquote using aseptic technique. Multiple entries with a needle and
syringe are not recommended. AFTER ENTRY USE ENTIRE CONTENTS OF VIAL PROMPTLY. ANY UNUSED PORTION MUST BE
DISCARDED WITHIN 12 4 HOURS AFTER INTIAL ENTRY.

## DIRECTIONS FOR USE CLEOCIN PHOSPHATE IV Solution in Galaxy Plastic

CLEOUN FINDSHIPS.

Container
Premixed CLEOCIN PHOSPHATE IV Solution is for intravenous
administration using sterile equipment. Check for minute leaks
prior to use by squeezing bag firmly. If leaks are found, discard
solution as sterilly may be impaired. Do not add supplementary
medication. Parenteral drug products should be inspected visually

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for particulate matter and discoloration prior to administration whenever solution and container permit. Do not use unless solution a Caution: Do not use plastic containers in enferse connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid Preparation for Administration:

Preparation for Administration:

2. Remove protector from outlet port at bottom of container. Description of the fluid protection of the support.

panying set.

Preparation of CLEOCIN PHOSPHATE in ADD-Vantage
System—For IV Use Only. CLEOCIN PHOSPHATE 600 mg and
900 mg may be reconstituted in 50 mL or 100 mL, respectively, of
Dextrose Injection 5% or Sodium Chloride Injection 0.9% in the
ADD-diluent container. Refer to separate instructions for ADD-

CLECCIN PHOSPHATE is supplied in ADD-Vantage vials as follows

Total

NDC Vial Size Clindamycin of Phosphate/vial Dilluent

NDC Vial Size Clinicarycin Clin

Pharmacia & Upjohn Company A subsidiary of Pharmacia Corporation Kalamazoo, MI 49001, USA Revised October 2003

## REFERENCES 1. NCCLS. Met

EFERENCES

NCCLS. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically. Approved Standard-Sth ed. NCCLS document M7-A5, 2000. NCCLS, 940 West Valley Boad, Sule 1400, Wapen, PA 19087-1898.

NCCLS. Performance Standards for Antimicrobial Susceptibility NCCLS. Performance Standards for Antimicrobial Susceptibility September 10, 100 NCCLS, 940 NW St. 100 NCCLS, 940 NW St. 100 NCCLS AUGUST 10, 100 NCCLS AUGUST 10,

rioad, Suite 1400, Wayne, PA 19987-1898.

\*ADD-Vantage is a registered trademark of Abbott Laboratories.
CLEOCIN PHOSPHATE IV Solution in the Galaxy plastic containers is manufactured for Pharmaticia. 8 Jujelon Company by Baxter Healthcare Corporation, Deerfield, IL 60018.

Galaxy is a trademark of Baxter International, Inc. and is registered in the US Patent Office.





Composition Unit 2566

AND INTRAVENOUS CORTICOSTEROIDS SHOULD ALSO BE ADMINISTERED AS INDICATED.

patients with associated severe illness may tolerate diarrhea less well. When clindamycin is indicated in these patients, they should be carefully monitored for change in bowel frequency. CLEOCIN PHOSPHATE products should be prescribed with cau-tion in individuals with a history of gastrointestinal disease, parties

ularly colitis.

CLEOCIN PHOSPHATE should be prescribed with caution in

atopic individuals.

Certain infections may require incision and drainage or other indi-cated surgical procedures in addition to antibiotic therapy.

The use of CLEOCIN PHOSPHATE may result in overgrowth of nonsusceptible organisms—particularly yeasts. Should superin-fections occur, appropriate measures should be taken as indicated rections occur, appropriate measures should be taken as indicated by the clinical situation. CLEOCIN PHOSPHATE should not be injected intravenously undiluted as a bolus, but should be infused over at least 10-60 min utes as directed in the DOSAGE AND ADMINISTRATION section

uses as directed in the DOSAGE AND ADMINISTRATION section. Clindamycin dosage modification may not be necessary in patients with renal disease. In patients with moderate to severe liver disease, protologistion of idindemycin half-life has been found; provided to the protocologist of clindamycin half-life has been found; eight hours, accumulation should rarely occur. Therefore, dosage modification in patients with liver disease may not be necessary. However, periodic liver enzyme determinations should be made Prescribing CLECOIN PHOSPHATE 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 unlikely to provide benefit to the patient and increases the risk of the patient and increases the risk of the patients and the patient and increases the risk of the patients and the consense that antibacterial drugs including CLECOIN PHOSPHATE should only be used to treat bacterial CLECOIN PHOSPHATE should only be used to treat bacterial cold. When CLECOIN PHOSPHATE is provided by the patients should be counseled with antibacterial condition, and the patients and the patients and the patients and the consense that antibacterial countries of the patients and the consense that antibacterial countries of the patients and the provided patients and the patients and the patients and the patients and the provided patients and the pat

PRECAUTIONS General Review of expe



### Cleocin Phosphate®

clindamycin injection, USP and clindamycin injection in 5% dextrose

■ PHARMACIA

To reduce the development of drug-resistant bacteria and main-tain the effectiveness of CLEOCIN PHOSPHATE and other antibac-retial drugs, CLEOCIN PHOSPHATE should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

Sterile Solution is for Intramuscular and Intravenous Use CLEOCIN PHOSPHATE in the ADD-Vantage  $^{\mbox{\scriptsize TM}}$ 

Vial is For Intravenous Use Only

Pseudomenbranau collitis hab been reported with naffy all antibocturial collitis hab been reported with naffy all antibocturial collitis hab been reported may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of the collitis which may end fatally, it should be reserved for serious infections where less toois antimicrobial agents are inappropriate, as described in the INDICATIONS AND bacterial infections such as most upon the properties of the collitis which may end fatally, it should be reserved for inappropriate, as described in the INDICATIONS AND bacterial infections such as most upon the collitis and the color and may permit overgrowth of coloridia. It is not primary cause of antibiotic-associated collisis."

After the diagnosis of pseudomembranous collitis has been established, therapseutic measures should be initiated. Mild discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an incontinuation of the collisis, and pseudomembranous collitis have been observed to begin up to several weeks following cessation of therapy with clindamycin.

DESCRIPTION
CLECOIN PHOSPHATE Sterile Solution in vials contains clin-damycin phosphate, a water soluble ester of clindamycin and phosphoric acid. Each mit contains the equivalent of 150 mg clindamycin, 0.5 mg disodium deltate and 9.45 mg benzyl alcohol advancin, 0.5 mg disodium deltate and 9.45 mg benzyl alcohol antibiotic produced by a 7(5)-chloro-substitution of the 7(R)-hydroxyl group of the parent compound lincomycin.

The chemical name of clindamycin phosphate is L-threo-α-D-galacto-Cotopyranoside, methyl 7-chloro-6.74-trideoxy-6-f([1]) methyl-4-propyl-2-pyrrolidinyl carbonyl aminol-1-thic. 2-(dihydrogen phosphate), (25-trans).

The molecular rounts is Sr<sub>18</sub>H<sub>3</sub>C(IN<sub>2</sub>0<sub>8</sub>PS and the molecular rounts in Sr<sub>18</sub>H<sub>3</sub>C(IN<sub>2</sub>0<sub>8</sub>PS and the molecular rounts are supplied to the property of the property o

eight is 504.96.
The structural formula is represented below:
CLEOCIN PHOSPHATE in the



Low inginit. He pr has been adjused with solution syluctive. The plastic container is fibricated from a specially designed multilayer plastic, PL 2501. Solutions in contact with the plastic container can leach out certain of its chemical components in very small amounts within the expiration period. The suitability of the plastic has been confirmed in tests in animals according to the USP biological tests for plastic containers, as well as by tissue culture toxicily studies.

Biologically inducive university in the property of a cative clindamycia. By the end of short-term intravenous infusion, peak serum levels of active clindamycin are reached. Biologically inactive clindamycin phosphate disappears rapidly from the serum; the average elimination half-life is 6 minutes, however, the serum elimination half-life is 6 minutes, however, the serum elimination half-life is 6 minutes, however, the serum elimination half-life is 0 minutes, however, and 0 minutes 0 minut

of active clindamycin is about 3 hours in adults and  $2^{1}/_{2}$  hours in pediatric patients. After intramuscular injection of clindamycin phosphate, peak levels of active clindamycin are reached within 3 hours in adults and 1 hour in pediatric patients. Serum level curves may be constructed from 10 peak serum levels a given in Table 1 by application of elimination half-lives listed above. Serum level of clindamycin can be a given in Table 1 by application of clindamycin phosphate every 8 to 12 hours in adults and every 6 to 8 hours in pediatric patients, or by continuous intravenous infusion. An equilibrium state is reached by the third dose.

The elimination half-life of indiamytic is increased slightly in patients with markedly reduced renal or hepatic function. Hemodalysis and pertional dialysis are not effective in removing clindamytic from the serum. Dosage schedules need not be mod-dialysis and the service of the model of the service of the con-traction of the service of the se

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900 mg IV in 30 min g8h	14.1	1.7
600 mg IM q12h*	9	
Pediatric Patients (first dose)*		
5-7 mg/kg IV in 1 hour	10	
5-7 mg/kg IM	8	
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\*Data in this group from patients being treated for infection.

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Microbiology: Clindamycin inhibits bacterial protein synthesis by binding to the 50S subunit of the ribosome. It has activity against Group for the control of the cont

Streptococcus mits
Ansarobes
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## SCEPTIBILITY TESTING METHODS:

Eubacterium lentum

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S	ı	R	S	- 1	R
≤0.5	1-2	≥4	≥21	15-20	≤14
≤0.25ª	0.5	≥1	≥19Þ	16-18	≤15
≤2	4	≥8	NA	NA	NA
	Minin Con (MIC S ≤0.5	Minimal Inhit   Concentrati   (MIC in mcg   S   I     ≤0.5   1-2   ≤0.25a   0.5	Minimal Inhibitory   Concentrations   (MIC in meg/mL)   S	Minimal Inhibitory   Concentrations   CZor (kMC in megint)	Minimal Inhibitory   Disk Diffur (Zone Diffur (Zone)   Minimal (MIC in meg/ml.)   S

- These interpretive standards for *S. pneumoniae* and other *Streptococcus* spp. are applicable only to tests performed by broth microdilution using cation-adjusted Mueller-Hinton broth with 2 to 5% lysed horse blood inoculated with a firer colory suspension and incubated in ambient air at 35°C for 20 to 24
- suspension and incubated in ambient air at 35°C for 20 to 24 hours.

  These zone diameter interpretive standards are applicable only to tests performed using Mueller-Inition agait supplemented with to tests performed using Mueller-Inition agait supplemented with incubated in 5% CO<sub>2</sub> at 35°C for 20 to 24 hours personal and incubated in 5% CO<sub>2</sub> at 35°C for 20 to 24 hours personal and the supplementation and the supplementation and the supplementation of the supplementation and the s

Table 3. Acceptable Quality Control Ranges for Clindamycin to be Used in Validation of Susceptibility

rest nesuits				
	Acceptable Quality Control Ranges			
QC Strain	Minimum Inhibitory Concentration (MIC in mcg/mL)	Disk Diffusion (Zone Diameters in mm)		
When Testing Aerobic Pathogens				
Staphylococcus aureus ATCC 29213	0.06-0.25	NA		
Staphylococcus aureus ATCC 25923	NA	24-30		
Streptococcus pneumoniae ATCC 49619 <sup>d</sup>	0.03-0.120	19-25		
When Testing Strict Anaerobes				
Bacteroides fragilis ATCC 25285	0.5-2	NA		
Bacteroides thetaiotaomicron ATCC 29741	2-8	NA		
Eubacterium Ientum ATCC 43055	0.06-0.25	NA		
NA=Not applicable				

Collection

MIDICATIONS AND USAGE

CLEOCIN PHOSPHATE products are indicated in the treatment of serious infections caused by susceptible anaerobic bacteria.

CLEOCIN PHOSPHATE products are also indicated in the treatment of serious infections due to susceptible arians of streptonent of serious infections due to susceptible arians of streptonent of serious infections due to susceptible arians of streptone productions and the subject of the risk of antibiotic-associated pseudomembranous collist, as plugiament of the physician, a potential in singappropriate. Because of the risk of antibiotic-associated pseudomembranous collist, as physician should consider the nature of the infection and the suitability of less toxic alternatives (e.g., e-sythromycin).

Bacteriologic studies should be performed to determine the control of the production of the suitability of less toxic alternatives (e.g., e-sythromycin).

Bacteriologic studies should be performed to determine the control of the suitability of the strength of the suitability of the suitability of less toxic alternatives (e.g., e-sythromycin).

CLEOCIN PHOSPHATE indicated in the treatment of serious with antibiotic history of the suitability of

1. 7. 7. 0. 7. 0. 1. 9. 0

tain the effectiveness of CLECGIN PHOSPHATE and other antibac-terial drugs, CLECGIN PHOSPHATE should be used only to treat or prevent infections that are proven or strongly asspected to be the province of the province of the province of the province of the 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.

CONTRAINDICATIONS

This drug is contraindicated in individuals with a history of hyper sensitivity to preparations containing clindamycin or lincomycin. WARNINGS
See WARNING box.
Pseudomembranous colitis has been reported with nearly all

Pseudomembranous cours nas peen reporteu with nearly an antibacterial agents, including clindamycin, and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diar-rhea subsequent to the administration of antibacterial agents.

to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibiacterial agents. Treatment with antibacterial agents alters the normal fitns of the a toxin produced by Clearidanu difficile is one primary cause of antibiotic-associated colitis."

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated. Miti cases of administration of the control of the cont





COMPOSITION ORDER # 23229	CLI	EOCIN PHOSPHATE				0 020 241B
0775-26		0009-0775-26	692843		Insert	
BOTTLE #		SIZE	FOLDED SIZE		DRAWING #	- 00
X		12 x 12"	3 x 2"		PD2355	
ADDITIONAL INFORMATION				DATE		TYPESET BY
Spine 4" from top				1-8-04		l KL

## Cleocin Phosphate

brand of clindamycin injection, USP and clindamycin injection in 5% dextrose

leel 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 receive the state of the state of the state teacher and (2) increase the likelihood that bacteria will be state of the state o

ability. Pregnancy: Teratogenic effects
Pregnancy: Teratogenic effects
Pregnancy: attegory B

The production between the partorned in rats and mice using oral
Reproduction study to 600 m/gl/dgly (2.1 and 1.1 times the
highest recommended adult human dose based on mg/m², respectively) or subuctaneous doses of clindamyrich up 125 m/gl/dgly (0.9 and 0.5 times the highest recommended adult human dose
genicity revealed no environment of the recommended adult human dose
genicity.

genicity.

There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of the human response, this drug should be used during pregnancy only if clearly needed.

used during pregnancy only if clearly needed. Nursing Mothers Clindamycin has been reported to appear in breast milk in the range of 0.7 to 3.8 mcg/mt. at dosages of 150 mg orally to 600 mg intravenously. Because of the potential for adverse reactions due to clindamycin in neonates (see Pediatric Use), the decision to dis-continue the drug should be made, taking into account the impor-tance of the drug to the mother.

tance of the drug to the mother.

Pediatric Use

When CLEOCIN PHOSPHATE Sterile Solution is administered to
the pediatric operation (birth to 16 years) appropriate monitoring of
organ system functions is destrable.

Usage in Newborns and Infrastr
Usage in Newborns and triffast, and so a preservative. Benzyl
alcohol has been associated with a fatal "Gasping Syndrome" in
premature infant may leach from the single dose premixed IV preparation in plastic has not been evaluated.

The potential for the toxic effect in the pediatric population from
chemicals that may leach from the single dose premixed IV preparation in plastic has not been evaluated.

The potential to the toute energy and to go permixed IV prepa-chemicals that may leach from the single dose premixed IV prepa-chemicals that may leach from the single dose premixed IV prepa-chemical studies of clindamyrich utili not include sufficient numbers of patients age 65 and over to determine whether they respond dif-ferently from younger patients. However, other reported clinical freently from younger patients. However, other reported clinical (due to Clostridium difficial) seen in association with most antibi-ciac occur more frequently in the elderly (=60 years) and may be more severe. These patients should be carefully monitored for the development of diarnea. With inclindamyin have shown no clini-cally important differences between young and elderly subjects with normal hepatic function and normal (age-adjusted) renal function after oral or intravenous administration.

ADVERSE REACTIONS

The following reactions have been reported with the use of clin-

damycin. 
Gastrointestinal: Antibiotic-associated collitis (see WARNINGS), pseudomembranous collitis, abdominal pain, nausea, and vomiting. The onset of pseudomembranous collitis symptoms may occur during or after antibacterial treatment (see WARNINGS). An unpleas-ant or metallic latest occasionally has been reported after intra-venous administration of the higher doses of clindamycin-phosphate.

venous administration of the nigner doses or clinically care in hypersonsitivity Reactions Maculopapular rash and urticatia have been observed during drug therapy. Generalized mild to moderate morbiliform-like skin rashes are the most frequently reported of all adverse reactions. Rare instances of erythema multiorne, some seembling Steven-Johnson syndrome, have been discorted to the standard of the standard standa

instances of exfoliative dermatitis have been reporteu (see Hypersensitivity Reactions). Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy. Renal: Although no direct relationship clindamycin to renal acotemia, oliguria, and/or proteinuria has been observed in rare instances. Hermatoprojetic: Transient neutropenia (leukopenia) and eosino-philia have been reported. Reports of agranulocytosis and throm-bocytopenia have been made. No direct etiologic relationship to concurrent clindamycin therapy could be made in any of the fore-going.

concurrent clindamycin therapy could be made in any of the fore-going.

Local Reactions: Pain, induration and sterile abscess have been reported after intramuscular injection and thrombophiebitis after intravenous infusion. Reactions can be minimized or avoided by giving deep intramuscular injections and avoiding prolonged use of indwelling intravenous catheters.

Musculoskeistal: Rare instances of polyarthritis have been reported.

Pain instances of cardiopulmonary arrest and hypotensism baye been reported following no rapid intravenous.

hypotension have been reported following too rapid intravenous administration. (See DOSAGE AND ADMINISTRATION section.)

OVERDOSAGE
Significant mortality was observed in mice at an intravenous dose of 855 mg/kg and in rats at an oral or subcutaneous dose of approximately 2618 mg/kg. In the mice, convulsions and depression were observed.

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Hemodialysis and peritoneal dialysis are not effective in remov-ng clindamycin from the serum.

DOSAGE AND ADMINISTRATION
If diarrhea occurs during therapy, this antibiotic should be discontinued (see WARNING box).

Adults: Parenteral (IM or IV Administration)
Serious infections: 600-1200 mg/day in 2, 3 or 4 equal doses.
More severe infections: 1200-2700 mg/day in 2, 3 or 4 equal

ooses. In life-threatening situations due to either aerobes or anaerobes these doses may be increased. Doses of as much as Dilution and Infusion Rates section below.

Single intramuscular injections of greater than 600 mg are not recommended.

Alternatively, drug may be administered in the form of a single apid infusion of the first dose followed by continuous IV infusion as

To maintain serum clindamycin levels	Rapid infusion rate	Maintenance infusion rate
Above 4 mcg/mL	10 mg/min for 30 min	0.75 mg/min
Above 5 mcg/mL	15 mg/min for 30 min	1.00 mg/min
Above 6 mcg/mL	20 mg/min for 30 min	1.25 mg/min

Neonates (less than 1 month):

10 20 mg/kg/day in 3 to 4 equal doses. The lower dosage may be adequate for small prematures.

11 years: Parenteral (IM or IV) advances to the state of the

tions.

Parenteral therapy may be changed to oral CLEOCIN PEDI-ATRIO® Flavored Granules (clindamycin palmitate hydrochloride) or CLEOCIN HCI® Capsules (clindamycin hydrochloride) when the condition warrants and at the discretion of the physician. In cases of β-hemolytic streptococcal infections, treatment should be continued for at least 10 days.

be continued for at least 10 days. Dilution and Infusion Rates: Clindamycin phosphate must be diluted prior to IV administration. The concentration of clin-damycin in dilutent for infusion should not exceed 18 mg per mL. Infusion rates should not exceed 30 mg per minute. The usual infusion dilutions and rates are as follows:

Dose	Diluent	Time
300 mg	50 mL	10 min
600 mg	50 mL	20 min
900 mg	50-100 mL	30 min
1200 mg	100 mL	40 min

Administration of more than 1200 mg in a single 1-hour influsion is not recommended. Parenteral drug products should be inspected visually for particulated and products and solitors containing visualine is complex in concentrations usually used clinically. No incompatibility with the unconcentrations usually used clinically. No incompatibility has been demonstrated with penaltic products and products and

benicillin.

The following drugs are physically incompatible with clindamycin phosphate: ampicillin sodium, phenytoin sodium, barbiturates, aminophyline, calcium glucorate, and magnesium suitate. The compatibility and duration of stability of drug admires will information regarding compatibilities of clindamycin phosphate under specific conditions, please contact the Medical and Drug Information Unit, Pharmacia & Upinh Company.

Physico-Chemical Stability of diluted solutions of CLEOCIN PROSPHATE.

Physico-Chemical Stability of diluted solutions of CLECON PHOSPHATE
Room temperature: 6, 9 and 12 mg/mL (equivalent to clindamycin base) in destrose injection 59, sodium chloride injection 6.9%, or strated physical and chemical stability for at least 16 days at 25°C. Also, 18 mg/mL (equivalent to dindamycin base) in destrose injection 5%, so minibags, demonstrated physical and chemical stability for a least 16 days at 25°C. Also, 18 mg/mL, (equivalent to clindamycin base) in dextrose injection 63%, sodium chloride injection 0.9%, or Lactated Ringers injection in glass bottles or minibags, demonstrated physical and chemical stability for at least 32 days at 4°C. IMPORTANT: This chemical stability information in no way indicated the preparation time. Good professional practice suggests that compounded admittures should be administered a soon after preparation as is feasible.

Mextrose injection of S<sub>1</sub>, sodium chloride injection 0.9%, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for at least 32°C days at 4°C. IMPORTANT: The chemical stability for at 100%, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for a least 30°C, or Lactader Ringers Injection in minibags demonstrated physical and chemical stability for at least eight weeks at 10°C.

Frozen solutions should be hawed at room temperature and not referee.

DIRECTIONS FOR DISPENSING
Pharmacy Bulk Package — Not for Direct Infusion
The Pharmacy Bulk Package is for use in a Pharmacy Admixture
Service only under a laminar flow hood. Entry into the vial should
diameter sterile dispensing device, and contents dispensed in
aliquote using aseptic technique. Multiple entries with a needle and
syringe are not recommended. AFTER ENTRY USE ENTIRE CONTENTS OF VIAL PROMPTLY. ANY UNUSED PORTION MUST BE
DISCARDED WITHIN 12 4 HOURS AFTER INTIAL ENTRY.

## DIRECTIONS FOR USE CLEOCIN PHOSPHATE IV Solution in Galaxy Plastic

CLEOUN FINDSHIPS.

Container
Premixed CLEOCIN PHOSPHATE IV Solution is for intravenous
administration using sterile equipment. Check for minute leaks
prior to use by squeezing bag firmly. If leaks are found, discard
solution as sterilly may be impaired. Do not add supplementary
medication. Parenteral drug products should be inspected visually

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for particulate matter and discoloration prior to administration whenever solution and container permit. Do not use unless solution a Caution: Do not use plastic containers in enferse connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid Preparation for Administration:

Preparation for Administration:

2. Remove protector from outlet port at bottom of container. Description of the fluid protection of the support.

panying set.

Preparation of CLEOCIN PHOSPHATE in ADD-Vantage
System—For IV Use Only. CLEOCIN PHOSPHATE 600 mg and
900 mg may be reconstituted in 50 mL or 100 mL, respectively, of
Dextrose Injection 5% or Sodium Chloride Injection 0.9% in the
ADD-diluent container. Refer to separate instructions for ADD-

CLECCIN PHOSPHATE is supplied in ADD-Vantage vials as follows

Total

NDC Vial Size Clindamycin of Phosphate/vial Dilluent

NDC Vial Size Clinicarycin Clin

Pharmacia & Upjohn Company A subsidiary of Pharmacia Corporation Kalamazoo, MI 49001, USA Revised October 2003

## REFERENCES 1. NCCLS. Met

EFERENCES

NCCLS. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically. Approved Standard-Sth ed. NCCLS document M7-A5, 2000. NCCLS, 940 West Valley Boad, Sule 1400, Wapen, PA 19087-1898.

NCCLS. Performance Standards for Antimicrobial Susceptibility NCCLS. Performance Standards for Antimicrobial Susceptibility September 10, 100 NCCLS, 940 NW St. 100 NCCLS, 940 NW St. 100 NCCLS AUGUST 10, 100 NCCLS AUGUST 10,

rioad, Suite 1400, Wayne, PA 19987-1898.

\*ADD-Vantage is a registered trademark of Abbott Laboratories.
CLEOCIN PHOSPHATE IV Solution in the Galaxy plastic containers is manufactured for Pharmaticia. 8 Jujelon Company by Baxter Healthcare Corporation, Deerfield, IL 60018.

Galaxy is a trademark of Baxter International, Inc. and is registered in the US Patent Office.





Composition Unit 2566

AND INTRAVENOUS CORTICOSTEROIDS SHOULD ALSO BE ADMINISTERED AS INDICATED.

patients with associated severe illness may tolerate diarrhea less well. When clindamycin is indicated in these patients, they should be carefully monitored for change in bowel frequency. CLEOCIN PHOSPHATE products should be prescribed with cau-tion in individuals with a history of gastrointestinal disease, parties

ularly colitis.

CLEOCIN PHOSPHATE should be prescribed with caution in

atopic individuals.

Certain infections may require incision and drainage or other indi-cated surgical procedures in addition to antibiotic therapy.

The use of CLEOCIN PHOSPHATE may result in overgrowth of nonsusceptible organisms—particularly yeasts. Should superin-fections occur, appropriate measures should be taken as indicated rections occur, appropriate measures should be taken as indicated by the clinical situation. CLEOCIN PHOSPHATE should not be injected intravenously undiluted as a bolus, but should be infused over at least 10-60 min utes as directed in the DOSAGE AND ADMINISTRATION section

uses as directed in the DOSAGE AND ADMINISTRATION section. Clindamycin dosage modification may not be necessary in patients with renal disease. In patients with moderate to severe liver disease, protologistion of idindemycin half-life has been found; provided to the protocologist of clindamycin half-life has been found; eight hours, accumulation should rarely occur. Therefore, dosage modification in patients with liver disease may not be necessary. However, periodic liver enzyme determinations should be made Prescribing CLECOIN PHOSPHATE 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 unlikely to provide benefit to the patient and increases the risk of the patient and increases the risk of the patients and the patient and increases the risk of the patients and the consense that antibacterial drugs including CLECOIN PHOSPHATE should only be used to treat bacterial CLECOIN PHOSPHATE should only be used to treat bacterial cold. When CLECOIN PHOSPHATE is provided by the patients should be counseled with antibacterial condition, and the patients and the patients and the patients and the consense that antibacterial countries of the patients and the consense that antibacterial countries of the patients and the provided patients and the patients and the patients and the patients and the provided patients and the pat

PRECAUTIONS General Review of expe

