CLINDAMYCIN PHOSPHATE- clindamycin phosphate injection, solution
Baxter Healthcare Corporation

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CLINDAMYCIN IN 5% DEXTROSE INJECTION

To reduce the development of drug-resistant bacteria and maintain the effectiveness of CLINDAMYCIN IN 5% DEXTROSE INJECTION and other antibacterial drugs, CLINDAMYCIN IN 5% DEXTROSE INJECTION should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

**Sterile Solution is for Intravenous Use**

CLINDAMYCIN IN 5% DEXTROSE INJECTION in the GALAXY bag is For Intravenous Use Only

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**WARNING**

*Clostridium difficile*-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Clindamycin in 5% Dextrose Injection 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*.

Because Clindamycin in 5% Dextrose 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 such as most upper respiratory tract infections. *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 patients 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 agents.

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.

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**DESCRIPTION**

Clindamycin in 5% Dextrose Injection in the GALAXY plastic container for intravenous use is composed of clindamycin phosphate equivalent to 300, 600 and 900 mg of clindamycin premixed with 5% dextrose as a sterile solution. Disodium edetate has been added at a concentration of 0.04 mg/mL. The pH has been adjusted with sodium hydroxide and/or hydrochloric acid. Clindamycin is a semisynthetic antibiotic produced by a 7(S)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-Octopyranoside, methyl-7-chloro-6,7,8-trideoxy-6-[[1-methyl-4-propyl-2-pyrrolidinyl]carbonyl]amino]1-thio-2-(dihydrogen phosphate), (2S-trans). The molecular name is C₁₈H₃₄ClN₂O₈PS and the molecular weight is 504.96.

The structural formula is represented below:
Clindamycin in 5% Dextrose Injection in the GALAXY plastic containers is for Intravenous Use. The plastic container is fabricated 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 toxicity studies.

**CLINICAL PHARMACOLOGY**

**Distribution**

Biologically inactive clindamycin phosphate is converted to active clindamycin. By the end of short-term intravenous infusion, peak serum concentrations of active clindamycin are reached.

After intramuscular injection of clindamycin phosphate, peak concentrations of active clindamycin are reached within 3 hours in adults and 1 hour in pediatric patients. Serum concentration-time curves may be constructed from IV peak serum concentrations as given in Table 1 by application of elimination half-lives (see **Excretion**).

Serum concentrations of clindamycin can be maintained above the *in vitro* minimum inhibitory concentrations for most indicated organisms by administration 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.

No significant concentrations of clindamycin are attained in the cerebrospinal fluid even in the presence of inflamed meninges.

**Metabolism**

*In vitro* studies in human liver and intestinal microsomes indicated that clindamycin is predominantly metabolized by Cytochrome P450 3A4 (CYP3A4), with minor contribution from CYP3A5, to form clindamycin sulfoxide and a minor metabolite, N-desmethylclindamycin.

**Excretion**

Biologically inactive clindamycin phosphate disappears from the serum with 6 minutes of the average elimination half-life; however, the average serum elimination half-life of active clindamycin is about 3 hours in adults and 2½ hours in pediatric patients.

**Specific Populations**

*Patients with Renal/Hepatic Impairment*
The elimination half-life of clindamycin is increased slightly in patients with markedly reduced renal or hepatic function. Hemodialysis and peritoneal dialysis are not effective in removing clindamycin from the serum. Dosage schedules need not be modified in the presence of mild or moderate renal or hepatic disease.

**Elderly Patients**

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 hydrochloride, the average 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 (age-adjusted) renal function.

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

<table>
<thead>
<tr>
<th>Dosage Regimen</th>
<th>Peak mcg/mL</th>
<th>Trough mcg/mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy Adult Males</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Post equilibrium)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 mg IV in 30 min q6h</td>
<td>10.9</td>
<td>2.0</td>
</tr>
<tr>
<td>600 mg IV in 30 min q8h</td>
<td>10.8</td>
<td>1.1</td>
</tr>
<tr>
<td>900 mg IV in 30 min q8h</td>
<td>14.1</td>
<td>1.7</td>
</tr>
<tr>
<td>Pediatric Patients (first dose)*</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>5–7 mg/kg IV in 1 hour</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Microbiology**

**Mechanism of Action**

Clindamycin inhibits bacterial protein synthesis by binding to the 23S RNA of the 50S subunit of the ribosome. Clindamycin is bacteriostatic.

**Resistance**

Resistance to clindamycin is most often caused by modification of specific bases of the 23S ribosomal RNA. Cross-resistance between clindamycin and lincomycin is complete. Because the binding sites for these antibacterial drugs overlap, cross-resistance is sometimes observed among lincosamides, macrolides and streptogramin B. Macrolide-inducible resistance to clindamycin occurs in some isolates of macrolide-resistant bacteria. Macrolide-resistant isolates of staphylococci and beta-hemolytic streptococci should be screened for induction of clindamycin resistance using the D-zone test.

**Antimicrobial Activity**

Clindamycin has been shown to be active against most of the isolates of the following microorganisms,
Clindamycin has been shown to be active against most of the isolates of the following microorganisms, both in vitro and in clinical infections [see INDICATIONS AND USAGE (1)]

**Gram-positive Bacteria**

Staphylococcus aureus (methicillin-susceptible strains)
Streptococcus pneumoniae (penicillin-susceptible strains)

Streptococcus pyogenes

**Anaerobic Bacteria**

Clostridium perfringens
Fusobacterium necrophorum
Fusobacterium nucleatum
Peptostreptococcus anaerobius
Prevotella melaninogenica

The following in vitro data are available, but their clinical significance is unknown. At least 90 percent of the following bacteria exhibit an in vitro minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for clindamycin against isolates of a similar genus or organism group. However, the efficacy of clindamycin in treating clinical infections due to these bacteria has not been established in adequate and well-controlled clinical trials.

**Gram-positive Bacteria**

Staphylococcus epidermidis (methicillin-susceptible strains)
Streptococcus agalactiae
Streptococcus anginosus
Streptococcus mitis
Streptococcus oralis

**Anaerobic Bacteria**

Actinomyces israelii
Clostridium clostridioforme
Eggerthella lenta
Finegoldia (Peptostreptococcus) magna
Micromonas (Peptostreptococcus) micros
Prevotella bivia
Prevotella intermedia
Propionibacterium acnes

**Susceptibility Testing**

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

**INDICATIONS AND USAGE**

Clindamycin in 5% Dextrose Injection products are indicated in the treatment of serious infections caused by susceptible anaerobic bacteria.

Clindamycin in 5% Dextrose Injection products are also indicated in the treatment of serious infections due to susceptible strains of streptococci, pneumococci, 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 antibiotic-associated pseudomembranous colitis, as described in the **BOXED WARNING**, before selecting clindamycin the physician should consider the nature of the infection and the suitability of less toxic alternatives (e.g., erythromycin).

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

Indicated surgical procedures should be performed in conjunction with antibiotic therapy.

Clindamycin in 5% Dextrose Injection is indicated in the treatment of serious infections caused by susceptible strains of the designated organisms in the conditions listed below:

Lower respiratory tract infections including pneumonia, empyema, and lung abscess caused by anaerobes, *Streptococcus pneumoniae*, other streptococci (except *E. faecalis*), and *Staphylococcus aureus*.

Skin and skin structure infections caused by *Streptococcus pyogenes*, *Staphylococcus aureus*, and anaerobes.

Gynecological infections including endometritis, nongonococcal tubo-ovarian abscess, pelvic cellulitis, and postsurgical vaginal cuff infection caused by susceptible anaerobes.

Intra-abdominal infections including peritonitis and intra-abdominal abscess caused by susceptible anaerobic organisms.

Septicemia caused by *Staphylococcus aureus*, streptococci (except *Enterococcus faecalis*), and susceptible anaerobes.

Bone and joint infections including acute hematogenous osteomyelitis caused by *Staphylococcus aureus* and as adjunctive therapy in the surgical treatment of chronic bone and joint infections due to susceptible organisms.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Clindamycin in 5% Dextrose Injection and other antibacterial drugs, Clindamycin in 5% Dextrose Injection should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

**CONTRAINDICATIONS**

This drug is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin.

**WARNINGS**

See **BOXED WARNING**.

**Clostridium difficile Associated Diarrhea**

*Clostridium difficile* associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including Clindamycin in 5% Dextrose Injection, 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 patients 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 agents.
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.

**Anaphylactic and Severe Hypersensitivity Reactions**

Anaphylactic shock and anaphylactic reactions have been reported (see ADVERSE REACTIONS). Severe hypersensitivity reactions, including severe skin reactions such as toxic epidermal necrolysis (TEN), drug reaction with eosinophilia and systemic symptoms (DRESS), and Stevens-Johnson syndrome (SJS), some with fatal outcome, have been reported (see ADVERSE REACTIONS).

In case of such an anaphylactic or severe hypersensitivity reaction, discontinue treatment permanently and institute appropriate therapy.

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**

Review of experience to date suggests that a subgroup 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.

Clindamycin in 5% Dextrose Injection products should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

Clindamycin in 5% Dextrose Injection should be prescribed with caution in atopic individuals.

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

The use of Clindamycin in 5% Dextrose Injection may result in overgrowth of nonsusceptible organisms—particularly yeasts. Should superinfections occur, appropriate measures should be taken as indicated by the clinical situation.

Clindamycin should not be injected intravenously undiluted as a bolus, but should be infused over at least 10-60 minutes 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, prolongation of clindamycin 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 severe liver disease.

Prescribing Clindamycin in 5% Dextrose Injection in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

**Information for Patients**

Patients should be counseled that antibacterial drugs including Clindamycin in 5% Dextrose Injection should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Clindamycin in 5% Dextrose Injection 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 Clindamycin in 5% Dextrose Injection or other antibacterial drugs in the future.

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.

**Laboratory Tests**

During prolonged therapy, periodic liver and kidney 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.

Clindamycin is metabolized predominantly by CYP3A4, and to a lesser extent by CYP3A5, to the major metabolite clindamycin sulfoxide and minor metabolite N-desmethylclindamycin. Therefore, inhibitors of CYP3A4 and CYP3A5 may increase plasma concentrations of clindamycin and inducers of these isoenzymes may reduce plasma concentrations of clindamycin. In the presence of strong CYP3A4 inhibitors, monitor for adverse reactions. In the presence of strong CYP3A4 inducers such as rifampicin, monitor for loss of effectiveness.

*In vitro* studies indicate that clindamycin does not inhibit CYP1A2, CYP2C9, CYP2C19, CYP2E1 or CYP2D6 and only moderately inhibits CYP3A4.

**Carcinogenesis, Mutagenesis, Impairment of Fertility**

Long term studies in animals have not been performed with clindamycin to evaluate carcinogenic potential. Genotoxicity tests performed included a rat micronucleus test and an Ames Salmonella reversion test. Both tests were negative.

Fertility studies in rats treated orally with up to 300 mg/kg/day (approximately 1.1 times the highest recommended adult human dose based on mg/m²) revealed no effects on fertility or mating ability.

**Pregnancy**

**Teratogenic Effects**

In clinical trials with pregnant women, the systemic administration of clindamycin during the second and third trimesters, has not been associated with an increased frequency of congenital abnormalities.

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

Reproduction studies performed in rats and mice using oral doses of clindamycin up to 600 mg/kg/day (2.1 and 1.1 times the highest recommended adult human dose based on mg/m², respectively) or subcutaneous doses of clindamycin up to 250 mg/kg/day (0.9 and 0.5 times the highest recommended adult human dose based on mg/m², respectively) revealed no evidence of teratogenicity.

**Nursing Mothers**

Limited published data based on breast milk sampling reports that clindamycin appears in human breast
milk in the range of less than 0.5 to 3.8 mcg/mL at dosages of 150 mg orally to 600 mg intravenously. Clindamycin has the potential to cause adverse effects on the breast-fed infant's gastrointestinal flora. If oral or intravenous clindamycin is required by a nursing mother, it is not a reason to discontinue breastfeeding, but an alternate drug may be preferred. Monitor the breast-fed infant for possible adverse effects on the gastrointestinal flora, such as diarrhea, candidiasis (thrush, diaper rash) or rarely, blood in the stool indicating possible antibiotic-associated colitis.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for clindamycin and any potential adverse effects on the breast-fed child from clindamycin or from the underlying maternal condition.

**Pediatric Use**

When Clindamycin in 5% Dextrose Injection is administered to the pediatric population (birth to 16 years) appropriate monitoring of organ system functions is desirable.

**Usage in Newborns and Infants**

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. See **WARNINGS**.

**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 difficile*) 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 no clinically 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 clindamycin.

**Infections and Infestations:** *Clostridium difficile* colitis

**Gastrointestinal:** Antibiotic-associated colitis (see **WARNINGS**), pseudomembranous colitis, abdominal pain, nausea, and vomiting. The onset of pseudomembranous colitis symptoms may occur during or after antibacterial treatment (see **WARNINGS**). An unpleasant or metallic taste has been reported after intravenous administration of the higher doses of clindamycin phosphate.

**Hypersensitivity Reactions:** Maculopapular rash and urticaria have been observed during drug therapy. Generalized mild to moderate morbilliform-like skin rashes are the most frequently reported of all adverse reactions.

Severe skin reactions such as Toxic Epidermal Necrolysis, some with fatal outcome, have been reported (see **WARNINGS**). Cases of Acute Generalized Exanthematous Pustulosis (AGEP), erythema multiforme, some resembling Stevens-Johnson syndrome, have been associated with clindamycin. Anaphylactic shock, anaphylactic reaction and hypersensitivity have also been reported (see **WARNINGS**).

**Skin and Mucous Membranes:** Pruritus, vaginitis, angioedema 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, oliguria, and/or proteinuria has been observed.

**Hematopoietic:** Transient neutropenia (leukopenia) and eosinophilia have been reported. Reports of agranulocytosis and thrombocytopenia have been made. No direct etiologic relationship to concurrent clindamycin therapy could be made in any of the foregoing.

**Immune System:** Drug reaction with eosinophilia and systemic symptoms (DRESS) cases have been reported.

**Local Reactions:** Thrombophlebitis has been reported after intravenous infusion. Reactions can be minimized by avoiding prolonged use of indwelling intravenous catheters.

**Musculoskeletal:** Polyarthritis cases have been reported.

**Cardiovascular:** Cardiopulmonary arrest and hypotension have been reported following too rapid intravenous administration (see **DOSAGE AND ADMINISTRATION**).

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

**Adults**

Parenteral (IV Administration)

Serious infections due to aerobic gram-positive cocci and the more susceptible anaerobes (NOT generally including *Bacteroides fragilis*, *Peptococcus* species and *Clostridium* species other than *Clostridium perfringens*):

600-1200 mg/day in 2, 3 or 4 equal doses.

More severe infections, particularly those due to proven or suspected *Bacteroides fragilis*, *Peptococcus* species, or *Clostridium* species other than *Clostridium perfringens*:

1200-2700 mg/day in 2, 3 or 4 equal doses.

For more serious infections, these doses may have to be increased. In life-threatening situations due to either aerobes or anaerobes these doses may be increased. Doses of as much as 4800 mg daily have been given intravenously to adults. See **Dilution for IV use and IV Infusion Rates** section below.

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

<table>
<thead>
<tr>
<th>To maintain serum clindamycin levels</th>
<th>Rapid infusion rate</th>
<th>Maintenance infusion rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 4 mcg/mL</td>
<td>10 mg/min for 30 min</td>
<td>0.75 mg/min</td>
</tr>
<tr>
<td>Above 5 mcg/mL</td>
<td>15 mg/min for 30 min</td>
<td>1.00 mg/min</td>
</tr>
<tr>
<td>Above 6 mcg/mL</td>
<td>20 mg/min for 30 min</td>
<td>1.25 mg/min</td>
</tr>
</tbody>
</table>

**Neonates (less than 1 month)**
15 to 20 mg/kg/day in 3 to 4 equal doses. The lower dosage may be adequate for small prematures.
Pediatric patients 1 month of age to 16 years

Parenteral (IV) Administration

20 to 40 mg/kg/day in 3 or 4 equal doses. The higher doses would be used for more severe infections. As an alternative to dosing on a body weight basis, pediatric patients may be dosed on the basis of square meters body surface: 350 mg/m²/day for serious infections and 450 mg/m²/day for more severe infections.

Parenteral therapy may be changed to oral clindamycin palmitate hydrochloride powder for oral solution or clindamycin hydrochloride capsules 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.

Dilution for IV use and IV Infusion Rates

The concentration of clindamycin in diluent 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:

<table>
<thead>
<tr>
<th>Dose</th>
<th>Diluent</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mg</td>
<td>50 mL</td>
<td>10 min</td>
</tr>
<tr>
<td>600 mg</td>
<td>50 mL</td>
<td>20 min</td>
</tr>
<tr>
<td>900 mg</td>
<td>50–100 mL</td>
<td>30 min</td>
</tr>
<tr>
<td>1200 mg</td>
<td>100 mL</td>
<td>40 min</td>
</tr>
</tbody>
</table>

Administration of more than 1200 mg in a single 1-hour infusion is not recommended.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

DIRECTIONS FOR USE

Clindamycin in 5% Dextrose Injection in GALAXY Plastic Container

Premixed Clindamycin in 5% Dextrose Injection 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 sterility may be impaired. Do not add supplementary medication. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. Do not use unless solution is clear and seal is intact.

Caution: Do not use plastic containers in series connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid from the secondary container is complete.

Preparation for Administration:

1. Suspend container from eyelet support.
2. Remove protector from outlet port at bottom of container.
3. Attach administration set. Refer to complete directions accompanying set.

HOW SUPPLIED

Each 50 mL of Clindamycin in 5% Dextrose Injection contains Clindamycin phosphate, USP equivalent to 300 mg, 600 mg, or 900 mg clindamycin; 2.5 g dextrose hydrous, USP; 2 mg edetate disodium dihydrate, USP; and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid. The single dose GALAXY containers are available as follows:
<table>
<thead>
<tr>
<th>Code</th>
<th>Product Description</th>
<th>Container NDC Number</th>
<th>Carton NDC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2G3452</td>
<td>Supplied as 24 bags per case</td>
<td>300 mg per 50 mL</td>
<td>NDC 0338-3410-50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NDC 0338-3410-24</td>
<td></td>
</tr>
<tr>
<td>2G3453</td>
<td>Supplied as 24 bags per case</td>
<td>600 mg per 50 mL</td>
<td>NDC 0338-3612-50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NDC 0338-3612-24</td>
<td></td>
</tr>
<tr>
<td>2G3454</td>
<td>Supplied as 24 bags per case</td>
<td>900 mg per 50 mL</td>
<td>NDC 0338-3814-50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NDC 0338-3814-24</td>
<td></td>
</tr>
</tbody>
</table>

Exposure of pharmaceutical products to heat should be minimized. It is recommended that GALAXY plastic containers be stored at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

REFERENCES


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**Baxter Healthcare Corporation**  
Deerfield, IL 60015 USA

Made in USA.  
07-19-01-753  
Rev. January 2020

**PACKAGE/LABEL PRINCIPAL DISPLAY PANEL**
Clindamycin in 5% Dextrose Injection

300 mg per 50 mL
(6 mg / mL)

GALAXY  Code 2G3452

50 mL Single Dose Container  Sterile Nonpyrogenic
Discard unused portion  For Intravenous Use.

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.
Store at 20°C to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

PL 2501 Plastic

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Made in USA

07-34-75-036
For Intravenous Use.  
Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Carton Label

GALAXY Container  
PL 2501 Plastic  

Baxter Logo  

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Baxter Healthcare Corporation, Deerfield, IL 60015  
Made in USA  
07-04-75-039  

Clindamycin in 5% Dextrose Injection  
300 mg per 50 mL (6 mg / mL)  
Contains 12 - 50 mL Single Dose Containers  
Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only  

NDC 0338-3410-24  
Code 2G3452  

*FOR BAR CODE POSITION ONLY  

(01) 20303383410249  

For Intravenous Use.  
Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 300 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.
Clindamycin in 5% Dextrose Injection
300 mg/50 mL
CODE 2G3452
NDC 0338-3410-24
Store at 20° to 25°C (68° to 77°F)
[see USP Controlled Room Temperature].
Avoid temperatures above 30°C.
Rx Only
Baxter Logo
Baxter Healthcare Corporation
LOT PP123456A
EXP JUN 14
SN 000000000005
Bar Code
(01) 50303383410240 (21) 000000000005 (17) 040104 (10) PP123456A
Clindamycin in 5% Dextrose Injection
300 mg/50 mL
CODE 2G3452
NDC 0338-3410-24
Store at 20° to 25°C (68° to 77°F)
[see USP Controlled Room Temperature].
Avoid temperatures above 30°C.
Rx Only
Baxter Logo
Baxter Healthcare Corporation
Clindamycin in 5% Dextrose Injection

600 mg per 50 mL
(12 mg / mL)

GALAXY

Code 2G3453

50 mL Single Dose Container
Discard unused portion
Sterile Nonpyrogenic
For Intravenous Use.

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Rx only

Store at 20°C to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

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Baxter Healthcare Corporation, Deerfield, IL 60015 USA
Made in USA

NDC 0338-3612-50
Clindamycin in 5% Dextrose Injection
600 mg per 50 mL
(12 mg / mL)

GALAXY

Code 2G3453

50 mL Single Dose Container
Discard unused portion
For Intravenous Use.
Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

PL 2501 Plastic

Baxter Logo

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Baxter Healthcare Corporation, Deerfield, IL 60015 USA

Made in USA

07-34-75-037

GALAXY Container

PL 2501 Plastic

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Baxter Healthcare Corporation, Deerfield, IL 60015 USA

Made in USA

07-04-75-040

GALAXY Container

PL 2501 Plastic

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Baxter Healthcare Corporation, Deerfield, IL 60015 USA

Made in USA

07-04-75-040
Clindamycin in 5% Dextrose Injection

600 mg per 50 mL (12 mg / mL)
Contains 12 - 50 mL Single Dose Containers
Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only
NDC 0388-3612-24
Code 2G3453

For Intravenous Use.
Not for rapid injection or Intravenous push.
Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.
Dosage: See prescribing information.
Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

GALAXY Container
PL 2501 Plastic

Baxter Logo
Baxter and Galaxy are registered trademarks of Baxter International Inc.
Baxter Healthcare Corporation, Deerfield, IL 60015
Made in USA
07-04-75-040

Clindamycin in 5% Dextrose Injection
600 mg per 50 mL (12 mg / mL)
Contains 12 - 50 mL Single Dose Containers
Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only

NDC 0338-3612-24
Code 2G3453

*FOR BAR CODE POSITION ONLY

(01) 20303383612247

For Intravenous Use.
Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 600 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Sterile Nonpyrogenic
Avoid temperatures above 30°C.

Rx Only

Baxter Healthcare Corporation
Deerfield, IL 60015 USA

LOT NC105606
EXP 29 May 18
SN 000000001564

Bar Code
(01) 50303383612248 (21) 000000001564 (17) 180529 (10) NC105606

NDC 0338-3814-50
Clindamycin in 5% Dextrose Injection
900 mg per 50 mL
(18 mg / mL)

GALAXY Code 2G3454
50 mL Single Dose Container
Discard unused portion
For Intravenous Use.
Not for rapid injection or Intravenous push.
Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrate, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Rx only
Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Baxter Healthcare Corporation, Deerfield, IL 60015 USA
Made in USA

PL 2501 Plastic Container Label

NDC 0338-3814-50
Clindamycin in 5% Dextrose Injection
900 mg per 50 mL
(18 mg / mL)
GALAXY

Code 2G3454

50 mL Single Dose Container
Discard unused portion
For Intravenous Use.

Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Rx only

Store at 20°C to 25°C (68° to 77°F)[see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

PL 2501 Plastic

Baxter Logo

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Baxter Healthcare Corporation, Deerfield, IL 60015 USA
Made in USA
07-34-75-038
For Intravenous Use. Sterile Nonpyrogenic

Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrate, USP; 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.

Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Galaxy Container
PL 2501 Plastic

Baxter Logo

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Baxter Healthcare Corporation, Deerfield, IL 60015

Made in USA

07-04-75-041

Clindamycin in 5% Dextrose Injection
900 mg per 50 mL (18 mg / mL)
Contains 12 - 50 mL Single Dose Containers

Stox at 20° to 25°C (68° to 77°F) (see USP Controlled Room Temperature). Avoid temperatures above 30°C.
Clindamycin in 5% Dextrose Injection
900 mg/50 mL

Code 2G3454  NDC 0338-3814-24

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Avoid temperatures above 30°C.

Rx only
NDC 0338-3814-24
Code 2G3454

*FOR BAR CODE POSITION ONLY

(01) 2030383814245

For Intravenous Use.
Not for rapid injection or Intravenous push.

Each 50 mL contains: Clindamycin phosphate, USP equivalent to 900 mg clindamycin, 2.5 g dextrose hydrous, USP, 2 mg edetate disodium dihydrate, USP, and Water for Injection, USP. pH may have been adjusted with sodium hydroxide and/or hydrochloric acid.

Dosage: See prescribing information.
Cautions: Do not add supplementary medication. Must not be used in series connections. Check for minute leaks and solution clarity.

Sterile Nonpyrogenic
CLINDAMYCIN PHOSPHATE
clindamycin phosphate injection, solution

<table>
<thead>
<tr>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Type</strong></td>
</tr>
<tr>
<td><strong>Route of Administration</strong></td>
</tr>
<tr>
<td><strong>Item Code (Source)</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Ingredient/Active Moiety</th>
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</thead>
<tbody>
<tr>
<td><strong>Ingredient Name</strong></td>
</tr>
<tr>
<td>CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN - UNII:3U02EL437C)</td>
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<table>
<thead>
<tr>
<th>Inactive Ingredients</th>
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<tbody>
<tr>
<td><strong>Ingredient Name</strong></td>
</tr>
<tr>
<td>EDETATE DISODIUM (UNII: 7FLD91C86K)</td>
</tr>
<tr>
<td>DEXTROSE MONOHYDRATE (UNII: LX22YL083G)</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
</tr>
<tr>
<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
</tr>
<tr>
<td>WATER (UNII: 059QF0KO0R)</td>
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<table>
<thead>
<tr>
<th>Packaging</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Marketing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Category</strong></td>
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## CLINDAMYCIN PHOSPHATE
clindamycin phosphate injection, solution

### Product Information

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<tr>
<th>Product Type</th>
<th>HUMAN PRESCRIPTION DRUG</th>
<th>Item Code (Source)</th>
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<tr>
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<td>INTRAVENOUS</td>
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### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
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</thead>
<tbody>
<tr>
<td>CLINDAMYCIN PHOSPHATE (UNII: EH6D711318) (CLINDAMYCIN - UNII:3U02EL437C)</td>
<td>CLINDAMYCIN PHOSPHATE</td>
<td>600 mg in 50 mL</td>
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### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDETATE DISODIUM (UNII: 7FLD91C86K)</td>
<td>2 mg in 50 mL</td>
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<tr>
<td>DEXTROSE MONOHYDRATE (UNII: LX22YL083G)</td>
<td>2.50 g in 50 mL</td>
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<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
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<tr>
<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
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<td>WATER (UNII: 059QF0KO0R)</td>
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### Packaging

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<th>Package Description</th>
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<th>Marketing End Date</th>
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<td>24 in 1 CARTON</td>
<td>06/28/2017</td>
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### Marketing Information

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<th>Application Number or Monograph Citation</th>
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## CLINDAMYCIN PHOSPHATE
clindamycin phosphate injection, solution

### Product Information

<table>
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<tr>
<th>Product Type</th>
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<th>Item Code (Source)</th>
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<tr>
<td>CLINDAMYCIN PHOSPHATE (UNII: EH6D7113B) (CLINDAMYCIN - UNII:3U02EL437C)</td>
<td>CLINDAMYCIN PHOSPHATE</td>
<td>900 mg in 50 mL</td>
</tr>
</tbody>
</table>

### Inactive Ingredients

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<tr>
<td>EDETATE DISODIUM (UNII: 7FLD91C86K)</td>
<td>2 mg in 50 mL</td>
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<tr>
<td>DEXTROSE MONOHYDRATE (UNII: LX22YL083G)</td>
<td>2.5 g in 50 mL</td>
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<tr>
<td>SODIUM HYDROXIDE (UNII: 55X04QC32I)</td>
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<td>HYDROCHLORIC ACID (UNII: QTT17582CB)</td>
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<td>24 in 1 CARTON</td>
<td>06/28/2017</td>
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<td>1</td>
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<td>50 mL in 1 BAG; Type 0: Not a Combination Product</td>
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<td>ANDA</td>
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### Labeler

- Baxter Healthcare Corporation (005083209)

### Establishment

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
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Revised: 4/2020