

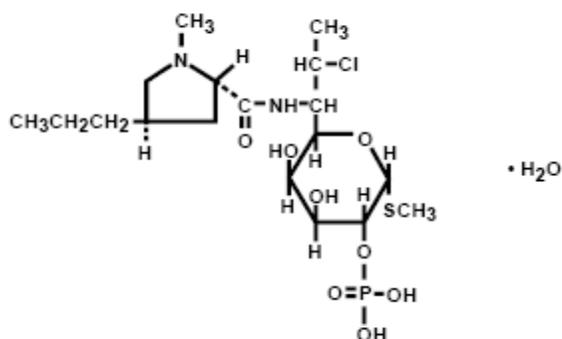
Cleocin® Vaginal Ovules

(clindamycin phosphate vaginal suppositories)

FOR INTRAVAGINAL USE ONLY

DESCRIPTION

Clindamycin phosphate is a water-soluble ester of the semisynthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent antibiotic lincomycin. The chemical name for clindamycin phosphate is methyl 7-chloro-6,7,8-trideoxy-6-(1-methyl-*trans*-4-propyl-L-2-pyrrolidinecarboxamido)-1-thio-L-*threo*- α -D-galacto-octopyranoside 2-(dihydrogen phosphate). The monohydrate form has a molecular weight of 522.98, and the molecular formula is $C_{18}H_{34}ClN_2O_8PS \cdot H_2O$. The structural formula is represented below:



CLEOCIN Vaginal Ovules are semisolid, white to off-white suppositories for intravaginal administration. Each 2.5 g suppository contains clindamycin phosphate equivalent to 100 mg clindamycin in a base consisting of a mixture of glycerides of saturated fatty acids.

CLINICAL PHARMACOLOGY

Mechanism of Action

Clindamycin is an antibacterial drug (See MICROBIOLOGY).

Pharmacokinetics

Systemic absorption of clindamycin was estimated following a once-a-day intravaginal dose of one clindamycin phosphate vaginal suppository (equivalent to 100 mg clindamycin) administered to 11 healthy female volunteers for 3 days. Approximately 30% (range 6% to 70%) of the administered dose was absorbed systemically on day 3 of dosing based on area under the concentration-time curve (AUC). Systemic absorption was estimated using a subtherapeutic 100 mg intravenous dose of clindamycin phosphate as a comparator in the same volunteers. The mean AUC following day 3 of dosing with the suppository was 3.2 $\mu\text{g hr/mL}$ (range 0.42 to 11 $\mu\text{g hr/mL}$). The C_{max} observed on day 3 of dosing with the suppository averaged 0.27 $\mu\text{g/mL}$ (range 0.03 to 0.67 $\mu\text{g/mL}$) and was observed about 5 hours after dosing (range 1 to 10 hours). In contrast, the AUC and C_{max} after the single intravenous dose averaged 11 $\mu\text{g hr/mL}$ (range 5.1 to 26 $\mu\text{g hr/mL}$) and 3.7 $\mu\text{g/mL}$ (range 2.4 to 5.0 $\mu\text{g/mL}$), respectively. The mean apparent

elimination half-life after dosing with the suppository was 11 hours (range 4 to 35 hours) and is considered to be limited by the absorption rate.

The results from this study showed that systemic exposure to clindamycin (based on AUC) from the suppository was, on average, three-fold lower than that from a single subtherapeutic 100 mg intravenous dose of clindamycin. In addition, the recommended daily and total doses of intravaginal clindamycin suppository are far lower than those typically administered in oral or parenteral clindamycin therapy (100 mg of clindamycin per day for 3 days equivalent to about 30 mg absorbed per day from the ovule relative to 600 to 2700 mg/day for up to 10 days or more, orally or parenterally). The overall systemic exposure to clindamycin from Cleocin Vaginal Ovules is substantially lower than the systemic exposure from therapeutic doses of oral clindamycin hydrochloride (two-fold to 20-fold lower) or parenteral clindamycin phosphate (40-fold to 50-fold lower).

MICROBIOLOGY

Mechanism of Action

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

Although clindamycin phosphate is inactive *in vitro*, rapid *in vivo* hydrolysis converts it to active clindamycin.

Resistance

Resistance to clindamycin is most often caused by modification of the target site on the ribosome, usually by chemical modification of RNA bases or by point mutations in RNA or occasionally in proteins. Cross resistance has been demonstrated between lincosamides, macrolides and streptogramins B in some organisms. Cross resistance has been demonstrated between clindamycin and lincomycin.

Antibacterial Activity

Culture and sensitivity testing of bacteria are not routinely performed to establish the diagnosis of bacterial vaginosis (see INDICATIONS AND USAGE); standard methodology for the susceptibility testing of the potential bacterial pathogens, *Gardnerella vaginalis*, *Mobiluncus* spp., or *Mycoplasma hominis*, has not been defined.

The following *in vitro* data are available but their clinical significance is unknown. Clindamycin is active *in vitro* against most isolates of the following organisms reported to be associated with bacterial vaginosis:

- *Bacteroides* spp.
- *Gardnerella vaginalis*
- *Mobiluncus* spp.
- *Mycoplasma hominis*
- *Peptostreptococcus* spp.

INDICATIONS AND USAGE

CLEOCIN Vaginal Ovules are indicated for 3-day treatment of bacterial vaginosis in non-pregnant women. There are no adequate and well-controlled studies of CLEOCIN Vaginal Ovules in pregnant women.

NOTE: For purposes of this indication, a clinical diagnosis of bacterial vaginosis is usually defined by the presence of a homogeneous vaginal discharge that (a) has a pH of greater than 4.5, (b) emits a “fishy” amine odor when mixed with a 10% KOH solution, and (c) contains clue cells on microscopic examination. Gram’s stain results consistent with a diagnosis of bacterial vaginosis include (a) markedly reduced or absent *Lactobacillus* morphology, (b) predominance of *Gardnerella* morphotype, and (c) absent or few white blood cells.

Other pathogens commonly associated with vulvovaginitis, e.g., *Trichomonas vaginalis*, *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *Candida albicans*, and herpes simplex virus, should be ruled out.

CONTRAINDICATIONS

CLEOCIN Vaginal Ovules are contraindicated in individuals with a history of hypersensitivity to clindamycin, lincomycin, or any of the components of this vaginal suppository. CLEOCIN Vaginal Ovules are also contraindicated in individuals with a history of regional enteritis, ulcerative colitis, or a history of “antibiotic-associated” colitis.

WARNINGS

Pseudomembranous colitis has been reported with nearly all antibacterial agents, including clindamycin, and may range in severity from mild to life-threatening. Orally and parenterally administered clindamycin has been associated with severe colitis, which may end fatally. Diarrhea, bloody diarrhea, and colitis (including pseudomembranous colitis) have been reported with the use of orally and parenterally administered clindamycin, as well as with topical (dermal and vaginal) formulations of clindamycin. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of CLEOCIN Vaginal Ovules, because approximately 30% of the clindamycin dose is systemically absorbed from the vagina.

Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by *Clostridioides difficile* is a 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 discontinuation of the drug 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 *Clostridioides difficile* colitis.

Onset of pseudomembranous colitis symptoms may occur during or after antimicrobial treatment.

PRECAUTIONS

General

The use of CLEOCIN Vaginal Ovules may result in the overgrowth of nonsusceptible organisms in the vagina. In clinical studies using CLEOCIN Vaginal Ovules, treatment-related moniliasis was reported in 2.7% and vaginitis in 3.6% of 589 nonpregnant women. Moniliasis, as reported here, includes the terms: vaginal or nonvaginal moniliasis and fungal infection. Vaginitis includes the terms: vulvovaginal disorder, vaginal discharge, and vaginitis/vaginal infection.

Information for the Patient

The patient should be instructed not to engage in vaginal intercourse or use other vaginal products (such as tampons or douches) during treatment with this product.

The patient should also be advised that these suppositories use an oleaginous base that may weaken latex or rubber products such as condoms or vaginal contraceptive diaphragms. Therefore, the use of such products within 72 hours following treatment with CLEOCIN Vaginal Ovules is not recommended.

Drug Interactions

Systemic 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.

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 test. Both tests were negative. Fertility studies in rats treated orally with up to 300 mg/kg/day (31 times the human exposure 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 vaginal ovules should be used during the first trimester of pregnancy only if clearly needed and the benefits outweigh the risks. There are no adequate and well-controlled studies of CLEOCIN Vaginal Ovules in pregnant women during the first trimester of pregnancy.

CLEOCIN Vaginal Cream, 2%, has been studied in pregnant women during the second trimester. In women treated for 7 days, abnormal labor was reported more frequently in patients who received CLEOCIN Vaginal Cream compared to those receiving placebo (1.1% vs. 0.5% of patients, respectively).

Reproduction studies have been performed in rats and mice using oral and parenteral doses of clindamycin up to 600 mg/kg/day (62 and 25 times, respectively, the maximum human dose based on body surface area) and have revealed no evidence of harm to the fetus due to

clindamycin. Cleft palates were observed in fetuses from one mouse strain treated intraperitoneally with clindamycin at 200 mg/kg/day (about 10 times the recommended dose based on body surface area conversions). Since this effect was not observed in other mouse strains or in other species, the effect may be strain specific.

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. It is not known if clindamycin is excreted in human breast milk following the use of vaginally administered clindamycin phosphate.

Clindamycin has the potential to cause adverse effects on the breast-fed infant's gastrointestinal flora. If 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

The safety and efficacy of CLEOCIN Vaginal Ovules in the treatment of bacterial vaginosis in post-menarchal females have been established on the extrapolation of clinical trial data from adult women. When a post-menarchal adolescent presents to a health professional with bacterial vaginosis symptoms, a careful evaluation for sexually transmitted diseases and other risk factors for bacterial vaginosis should be considered. The safety and efficacy of CLEOCIN Vaginal Ovules in pre-menarchal females have not been established.

Geriatric Use

Clinical studies of CLEOCIN Vaginal Ovules did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

ADVERSE REACTIONS

Clinical Trials

In clinical trials, 3 (0.5%) of 589 nonpregnant women who received treatment with CLEOCIN Vaginal Ovules discontinued therapy due to drug-related adverse events. Adverse events judged to have a reasonable possibility of having been caused by clindamycin phosphate vaginal suppositories were reported for 10.5% of patients. Events reported by 1% or more of patients receiving CLEOCIN Vaginal Ovules were as follows:

Urogenital system: Vulvovaginal disorder (3.4%), vaginal pain (1.9%), and vaginal moniliasis (1.5%).

Body as a whole: Fungal infection (1.0%).

Other events reported by <1% of patients included:

Urogenital system: Menstrual disorder, dysuria, pyelonephritis, vaginal discharge, and vaginitis/vaginal infection.

Body as a whole: Abdominal cramps, localized abdominal pain, fever, flank pain, generalized pain, headache, localized edema, and moniliasis.

Digestive system: Diarrhea, nausea, and vomiting.

Skin: Nonapplication-site pruritis, rash, application-site pain, and application-site pruritis.

Other clindamycin formulations:

The overall systemic exposure to clindamycin from CLEOCIN Vaginal Ovules is substantially lower than the systemic exposure from therapeutic doses of oral clindamycin hydrochloride (two-fold to 20-fold lower) or parenteral clindamycin phosphate (40-fold to 50-fold lower). (See CLINICAL PHARMACOLOGY.) Although these lower levels of exposure are less likely to produce the common reactions seen with oral or parenteral clindamycin, the possibility of these and other reactions cannot be excluded.

The following adverse reactions and altered laboratory tests have been reported with the **oral or parenteral** use of clindamycin and may also occur following administration of CLEOCIN Vaginal Ovules:

Infections and Infestations: *Clostridioides difficile* colitis

Gastrointestinal: Abdominal pain, esophagitis, nausea, vomiting, diarrhea, and pseudomembranous colitis. (See WARNINGS.)

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

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. Cases of Acute Generalized Exanthematous Pustulosis (AGEP), erythema multiforme, some resembling Stevens-Johnson syndrome, have been associated with clindamycin. A few cases of anaphylactoid reactions have been reported. If a hypersensitivity reaction occurs, the drug should be discontinued.

Liver: Jaundice and abnormalities in liver function tests have been observed during clindamycin therapy.

Musculoskeletal: Cases of polyarthritis have been reported.

Renal: Acute kidney injury

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

There have been reports of pseudomembranous colitis following the administration of clindamycin vaginal cream.

OVERDOSAGE

Vaginally applied clindamycin phosphate contained in CLEOCIN Vaginal Ovules could be absorbed in sufficient amounts to produce systemic effects. (See WARNINGS and ADVERSE REACTIONS.)

DOSAGE AND ADMINISTRATION

The recommended dose is one CLEOCIN Vaginal Ovule (containing clindamycin phosphate equivalent to 100 mg clindamycin per 2.5 g suppository) intravaginally per day, preferably at bedtime, for 3 consecutive days.

HOW SUPPLIED

CLEOCIN Vaginal Ovule is supplied as follows:

Carton of three suppositories without the applicator

NDC 0009-7667-05

Important Information: Store at 25°C (77°F); excursions permitted to 15 – 30°C (59 – 86°F) [see USP Controlled Room Temperature].

Caution: Avoid heat over 30°C (86°F). Avoid high humidity. See end of carton for the lot number and expiration date.

Rx only

This product's labeling may have been updated. For the most recent prescribing information, please visit www.pfizer.com.



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Cleocin® Vaginal Ovules

(clindamycin phosphate vaginal suppositories)

DIRECTIONS FOR USE

How do I use CLEOCIN Vaginal Ovules?

For vaginal use only. Do not take by mouth.

Use one CLEOCIN Vaginal Ovule daily, preferably at bedtime, for 3 days in a row.

Do not use this product if the foiled pouches containing vaginal ovules are torn, opened, or incompletely sealed.

Read the full directions below before using.

Insertion without the applicator:

1. Remove the vaginal ovule from its packaging (See Figure 1).

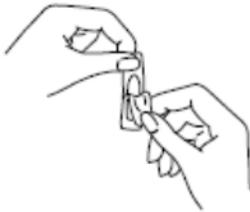


Figure 1

2. Holding the ovule with your thumb and a finger, insert it into the vagina (See Figure 2).

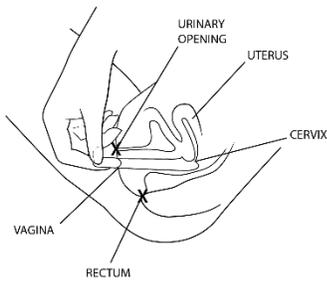


Figure 2

3. Using your finger, gently push the ovule into the vagina as far as it will comfortably go (See Figure 3).

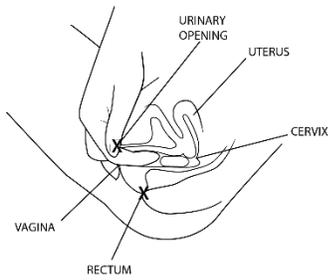


Figure 3

4. Once inside the vagina, the ovule melts. Lie down as soon as possible. This will keep leakage to a minimum.
5. Repeat steps 1 through 4, before bedtime, for the next 2 days.

STORAGE CONDITIONS:

Store at 25°C (77°F); excursions permitted to 15 – 30°C (59 – 86°F) [see USP Controlled Room Temperature].

Caution: Avoid heat over 30°C (86°F). Avoid high humidity. See end of carton for the lot number and expiration date.



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