

# Clindamycin

## Antibiotic Class:

Lincosamide

## Antimicrobial Spectrum:

*Streptococcus spp.*, *Staphylococcus spp.*, *H. influenzae*, *M. catarrhalis*, *Bacteroides spp.*,  
(*Clostridia spp.* of variable susceptibility) *Prevotella spp.*, *Fusobacterium spp.*, *Veillonella spp.*,  
*Chlamydia trachomatis*

## Mechanism of Action:

Binds to the 50S ribosomal subunit of rRNA and inhibits the initiation of peptide chain synthesis

## Pharmacodynamics:

Time > MIC

## Pharmacokinetics:

C<sub>max</sub> (900mg IV): 15.1mcg/ml

Half-life: Approximately 3 hours

See [Figure 2, 3](#) (hyperlink)

## Adverse Reactions:

GI: diarrhea, *C. difficile* associated diarrhea

Skin: rash, anaphylaxis, Stevens-Johnson syndrome

Cardiovascular: hypotension

GU: cervicitis, vaginitis

## Dosage:

Capsule: 150 mg, 300 mg

Cream, vaginal, as phosphate: 2% (40 g)

Foam, topical, as phosphate 1%: (50 g, 100 g)

Gel, topical 1%: (30 g, 60 g, or 40ml, 75ml)

Granules for oral solution: 75 mg/5 mL (100 mL)

IV: 300 mg (50 mL), 600 mg (50 mL), 900 mg (50 mL)

Lotion 1%: 60 mL

Pledgets, topical 1%: #60

Solution, topical 1%: (30 mL, 60 mL)

Vaginal Suppository: 100 mg #3

Adults: 300mg PO q 6 hours; IV: 600mg to 1200mg/day divided q 12 – 6 hours (1200 to 2700mg/day divided for serious infections); topical: apply to affected area q 12 hours; Intra-vaginal cream: One applicatorful hs for 3 or 7 days (vaginal suppository for 3 days).

Children > 10kg: 8-25mg/kg/day PO divided q 8 – 6 hours (palmitate salt suspension)

Children < 10kg: 37.5mg PO q 8 hours

Children > 1 month: 20 – 40mg/kg/day IV divided q 8 – 6 hours

Children > 12 years old (topical foam): apply once daily to affected areas

Neonates < 1 month: 15 – 20mg/kg/day IV divided q 8 – 6 hours

**Disease state based dosing:**

Renal failure: Dosing adjustments not necessary (see Monitoring parameters)

Hepatic failure: Dosing adjustments not necessary (see Monitoring parameters)

**Dosing during Continuous Renal Replacement Therapy**

CVVH (Continuous venovenous hemofiltration): 600-900mg q8h

CVVHD (Continuous venovenous hemodialysis): 600-900mg q8h

CVVHDF (Continuous venovenous hemodiafiltration) 600-900mg q8h

Note: CVVH is mainly for fluid removal alone. Many institutions will employ more CVVHD or CVVHDF which combine dialysis with fluid removal.

**Contraindications/Warnings/Precautions:**

Precautions:

- Patients receiving clindamycin and develop loose stools/diarrhea should have stool culture sent for *C. difficile* toxin test.
- Close monitoring in patients concomitantly receiving neuromuscular blocking agents. A reduction in the dose of these agents may be necessary.

**Drug Interactions:**

Erythromycin (macrolides): In-vitro antagonism – clinical significance unknown

Skeletal muscle relaxants (atracurium, vecuronium, pancuronium, cyclobenzaprime, and others): enhanced neuromuscular blockade.

**Pregnancy Risk Factor:**

C

**Monitoring parameters:**

Therapeutic: Culture and sensitivities, signs and symptoms of infection

Toxic: In severe renal or hepatic failure, serum concentration monitoring is recommended.

**Brand names/Manufacturer:** Various manufacturers ([click here](#))

- ACLINDA (Azupharma - GERMANY)
- APO-CLINDAMYCIN (Apotex CANADA)

- ARFAREL (Pharmanik - GREECE)
  - BASOCIN (Galderma - GERMANY)
  - BENZACLIN (Dermik - USA)
  - BOTAMYCIN-N (Zekides - GREECE)
  - CHINACIN-T (Chinta - THAILAND)
  - CLARIBEL (Loyal Advance - HONG KONG)
  - CLEOCIN (Pharmacia & Upjohn – USA, ITALY, AUSTRIA, AUSTRALIA)
  - CLEOCIN PEDIATRIC (Pharmacia & Upjohn - USA)
  - CLEOCIN PHOSPHATE (Pharmacia & Upjohn - USA)
  - CLEOCIN T (Pharmacia, USA)
  - CLIDACIN (Vianex - GREECE)
  - CLIDAM (Biochemie - AUSTRIA)
  - CLIDETS (Stiefel - CHILE)
  - CLIMADAN (Dankos - SINGAPORE)
  - CLINAC (Pacific - HONG KONG, NEW ZEALAND)
  - CLINAGEL (Stiefel - BRAZIL)
  - CLINDA (1A - GERMANY)
  - CLINDABETA (Betapharm - GERMANY)
  - CLINDAC (Hexal – AUSTRIA, ISRAEL)
  - CLINDAC (Intramed - SOUTH AFRICA)
  - CLINDACNE (Igefarma – BRAZIL)
  - CLINDA-DERM (Paddock - USA)
  - CLINDAGEL (Galderma - USA)
  - CLINDAHEXAL (Hexal – GERMANY, SOUTH AFRICA)
  - CLINDAL (Hexal - AUSTRIA)
  - CLINDAMAX (PharmaDerm - USA)
  - CLINDAMIN C (Teuto - BRAZIL)
  - CLINDAMYCIN (Sabex - CANADA)
  - CLINDAMYCIN HYDROCHLORIDE (Teva, Sandoz - USA)
  - CLINDAMYCIN PHOSPATE (Abbott, Quad, Lederle, Greenstone, Fougera - USA, Stiefel – CANADA)
- 
- CLINDARIX (Ariston - BRAZIL)
  - CLINDA-SAAR (MIP - GERMANY)
  - CLINDASOL (Stiefel - CANADA)
  - CLINDASTAD (Stada - GERMANY)
  - CLINDATECH (Dermatech – AUSTRALIA, HONG KONG, SINGAPORE)
  - CLINDAZYN (Lemery - MEXICO)
  - CLINDETS (Stiefel – USA, CANADA)
  - CLINDOXYL (Stiefel - CANADA)
  - CLINOTT (Macrophar - THAILAND)
  - CLIN-SANORANIA (Lichtenstein - GERMANY)
  - CLINWAS (Chiesi - SPAIN)
  - C-MYCIN (Hoe - MALAYSIA)
  - COPAL (Biomet Merck - GERMANY)
  - C/T/S (Hoechst Marion Roussel - USA)
  - CUTACLIN (ICN - MEXICO)
  - DACIN-F (Farmaline - THAILAND)
  - DAACLIN (Laboratorios Chile - CHILE)
  - DALACIN (Pharmacia – SPAIN, SWEDEN, UK, NORWAY, AUSTRIA, IRELAND, DENMARK, FINLAND, NEW ZEALAND, CHILE, HUNGARY, CZECH REPUBLIC, CANADA)
  - DALACIN C (Pharmacia & Upjohn (AUSTRALIA, CANADA, UK, IRELAND, NETHERLANDS, SOUTH AFRICA, SWITZERLAND, BELGIUM, PORTUGAL, BRAZIL, HONG KONG, MEXICO,

ISRAEL, THAILAND, SINGAPORE, AUSTRALIA, MALAYSIA, GREECE, CHILE, HUNGARY, CZECH REPUBLIC, ITALY)

- DALACINE (Pharmacia - FRANCE)
- DALACINE T (Pharmacia - FRANCE)
- DALACIN T (Pharmacia – IRELAND, NETHERLANDS, SOUTH AFRICA, SWITZERLAND, UNITED KINGDOM, CANADA, PORTUGAL, BRAZIL, HONG KONG, MEXICO, AUSTRALIA, NEW ZEALAND, THAILAND, SINGAPORE, MALAYSIA, CHILE, HUNGARY, CZECH REPUBLIC, ITALY, CANADA)
- DALACIN TOPICAL (Pharmacia - BELGIUM)
- DALACIN V (Pharmacia – AUSTRALIA, SWITZERLAND, PORTUGAL, MEXICO, BRAZIL, CHILE)
- DALACIN VAGINAL (Pharmacia – BELGIUM, CANADA, ISRAEL)
- DALACIN VC (Pharmacia - SOUTH AFRICA)
- DALACIN V (Pharmacia & Upjohn - HONG KONG, NEW ZEALAND, NETHERLANDS)
- DALAGIS T (Agis - ISRAEL)
- DAMICLIN (Fustery - MEXICO)
- DELTA T (Merck - HONG KONG)
- DENTOMYCIN (Kreussler - GERMANY)
- DERMABEL (Laboratorios Chile - CHILE)
- DIVANON (Tecnofarma - CHILE)
- DUAC (Stiefel - USA)
- DUAC ONCE DAILY (Stiefel - UNITED KINGDOM)
- EDASON (Medicus - GREECE)
- FEMISAN (Grossman - MEXICO)
- FLEMINOSAN (Pharmathen – HONG KONG)
- FOUCH (Rafarm - GREECE)
- GALECIN (Galen - MEXICO)
- JUTACLIN (Juta - GERMANY)
- KLIMICIN (Lek – THAILAND, SLOVENIA, CZECH REPUBLIC)
- KLINDAN (Idol - THAILAND)
- KLINNA (Greater Pharma - THAILAND)
- KLYNDAKEN (Kendrick - MEXICO)
- LACIN (Atlantic - THAILAND)
- LANACINE (Lannacher - AUSTRIA)
- LEXIS (Mintlab - CHILE)
- LINDASOL(Kleva - GREECE)
- LISIKEN (Kendrick - MEXICO)
- NOVO-CLINDAMYCIN (Novopharm Canada)
- PARADIS (Biomedica-Chemica - GREECE)
- RATIO-CLINDAMYCIN (Ratiopharm - CANADA)
- RIVA-CLINDAMYCIN (Laboratoire Riva CANADA)
- ROSIL (Siam Bheasach - THAILAND)
- SOBELIN (Pharmacia - GERMANY)
- SOTOMYCIN (Bros - GREECE)
- TIDACT (Yung Shin – SINGAPORE, MALAYSIA)
- TOLIKEN (Norma Norma), Gr. - GREECE)
- TOPICIL (Douglas - NEW ZEALAND, MALAYSIA)
  
- TOPICIL (Douglas – HONG KONG)
- TREXEN (Asofarma - MEXICO)
- TURIMYCIN (Jenapharm - GERMANY)
- UPDERM (Genepharm - GREECE)

- ZINDACLIN (Strakan - UNITED KINGDOM, ISRAEL, BELGIUM, GERMANY)
- ZINDACLIN (Fujisawa - FRANCE)