

For adults and children the usual dose is 50 mg/kg daily in divided doses every 6 hours; up to 100 mg/kg daily may be given in meningitis or severe infections due to moderately resistant organisms, although these higher doses should be reduced as soon as possible. It has been recommended that treatment should be continued after the patient's temperature has returned to normal for a further 4 days in rickettsial diseases, and for 8 to 10 days in typhoid fever, to minimise the risk of relapse.

Where there is no alternative to the use of chloramphenicol, premature and full-term neonates may be given daily doses of 25 mg/kg, in 4 divided doses, and full-term infants over the age of 2 weeks may be given up to 50 mg/kg daily, in 4 divided doses. Monitoring of plasma concentrations is essential to avoid toxicity.

In patients with hepatic impairment or severe renal impairment, the dose of chloramphenicol may need to be reduced because of decreased metabolism or excretion.

In the treatment of eye infections, chloramphenicol is usually applied as a 0.5% solution or as a 1% ointment.

For bacterial infections in otitis externa, chloramphenicol has been given as ear drops in a strength of 5 or 10%.

Chloramphenicol has also been used in the form of other derivatives including the arginine succinate, the cinnamate, the glycinate, the glycinate sulfate, the palmitoylglycolate, the pantothenate, the steaglate, the stearate, and the hydrogen succinate.

Administration. When parenteral use of chloramphenicol is necessary the intravenous route is generally preferred, although the intramuscular route has been advocated. Adequate serum concentrations after intramuscular injection have been reported,^{1,2} although this is contrary to the widely held belief that chloramphenicol sodium succinate is poorly absorbed by this route. Pain on injection was also claimed to be minimal.¹ After a study in children with bacterial meningitis,³ treatment with intramuscular chloramphenicol for 2 or 3 days followed by oral therapy has been suggested, although a later study² found that the intramuscular route produced therapeutic concentrations when the oral route did not. However, it has been said⁴ that children describe intramuscular chloramphenicol as amongst the worst treatments they ever receive, and certainly much worse than the insertion of intravenous cannulae.

- Shann F, et al. Absorption of chloramphenicol sodium succinate after intramuscular administration in children. *N Engl J Med* 1985; **313**: 410-14.
- Weber MW, et al. Chloramphenicol pharmacokinetics in infants less than three months of age in the Philippines and The Gambia. *Pediatr Infect Dis J* 1999; **18**: 896-901.
- Shann F, et al. Chloramphenicol alone versus chloramphenicol plus penicillin for bacterial meningitis in children. *Lancet* 1985; **ii** 681-3.
- Coulthard MG, Lamb WH. Antibiotics: intramuscular or intravenous? *Lancet* 1985; **ii**: 1015.

Enterococcal infections. Chloramphenicol has been reported to be effective against vancomycin-resistant *Enterococcus faecium*.¹⁻³ Although no significant effect of chloramphenicol on mortality was found in one small study,⁴ a retrospective analysis⁵ of the outcomes of 6 patients with bacteraemia due to vancomycin-resistant *Enterococcus faecium* concluded that chloramphenicol was effective and should be considered as a treatment option.

- Norris AH, et al. Chloramphenicol for the treatment of vancomycin-resistant enterococcal infections. *Clin Infect Dis* 1995; **20**: 1137-44.
- Papanicolaou GA, et al. Nosocomial infections with vancomycin-resistant *Enterococcus faecium* in liver transplant recipients: risk factors for acquisition and mortality. *Clin Infect Dis* 1996; **23**: 760-6.
- Mato SP, et al. Vancomycin-resistant *Enterococcus faecium* meningitis successfully treated with chloramphenicol. *Pediatr Infect Dis J* 1999; **18**: 483-4.
- Lautenbach E, et al. The role of chloramphenicol in the treatment of bloodstream infection due to vancomycin-resistant *Enterococcus*. *Clin Infect Dis* 1998; **27**: 1259-65.
- Ricaurte JC, et al. Chloramphenicol treatment for vancomycin-resistant *Enterococcus faecium* bacteraemia. *Clin Microbiol Infect* 2001; **7**: 17-21.

Preparations

BP 2008: Chloramphenicol Capsules; Chloramphenicol Ear Drops; Chloramphenicol Eye Drops; Chloramphenicol Eye Ointment; Chloramphenicol Sodium Succinate Injection;

USP 31: Chloramphenicol and Hydrocortisone Acetate for Ophthalmic Suspension; Chloramphenicol and Polymyxin B Sulfate Ophthalmic Ointment; Chloramphenicol and Prednisolone Ophthalmic Ointment; Chloramphenicol Capsules; Chloramphenicol Cream; Chloramphenicol for Ophthalmic Solution; Chloramphenicol Ophthalmic Ointment; Chloramphenicol Ophthalmic Solution; Chloramphenicol Otic Solution; Chloramphenicol Palmitate Oral Suspension; Chloramphenicol Sodium Succinate

for Injection; Chloramphenicol, Polymyxin B Sulfate, and Hydrocortisone Acetate Ophthalmic Ointment.

Proprietary Preparations (details are given in Part 3)

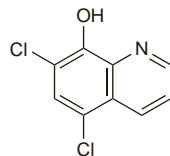
Arg.: A-Solmicina-C; Anuar; Bio-Gelin; Bioticas; Chloromycetin; Famicetina; Isopto Fenicol; Klonalfenicol; Plusdoran; Pfenfenicol; Quemicetin; Quotal NF; **Austral.:** Chloromycetin; Chlorsig; **Austria:** Halomycetin; Kemeticin; Oleomycetin; **Belg.:** Isopto Fenicol; Kemeticina; **Braz.:** Amblobiot; Arifenicol; Auridonaf; Clorafeni; Cloranfenil; Farmicetina; Fenidor; Fenidoraf; Neo Fenicol; Profenicol; Quemicetin; Sintomycetina; Uni Fenicol; Visalim; Vixmicina; **Canada:** Chloromycetin; Diochloram; Pentamycetin; **Chile:** Chloromycetin; Cloramap; Gemitin; Quemicetina; **Fin.:** Chloromycetin; Oftan Akvakol; Oftan Chlora; **Fr.:** Cebebicin; **Ger.:** Aquamycetin-N; Chloramsaar N; Oleomycetin; Paraxin; Posifenicol G; Thilocanfol G; **G.:** Chloranic; Ursa-Fenol; **Hong Kong:** Aristophen; Chlo-ment; Chloroph; Chlorsig; Europhenicol; Kemeticin; Spersanicol; Vista-Phenicol; Xepanicol; **Hung.:** Chlorocid; **India:** Biophenicol; Chlorax; Chloromycetin; Kemeticine Otologica; Kemeticine; Paraxin; Reclor; Van-ymycetin; Vitamycin; **Indon.:** Chloramex; Chlorbiotic; Cloramidina; Colain; Colme; Combicet; Empeacet; Enkacety; Fenicol; Ikamicetin; Isotic Salmicol; Kalmicetine; Kemeticin; Lanacetin; Licoklor; Microtina; Neophenicol; Palmicol; RECO; Ribocine; Spersanicol; Suprachlor; Xepanicol; **IL:** Chloromycetin; **Israel:** Chloroptic; Chlorphenicol; Phenicol; Synthomycin; **Ital.:** Chemeticina; Cloramfen; Mycetin; Sificetina; Vitamfenicol; **Malaysia:** Beaphenicol; Nicol; Spersanicol; Xepanicol; **Mex.:** Abefen; Alcan; Bandlor; Brocl; Chloromycetin; Cloracin; Clorafeni; Cloramex; Cloramfeni; Cloramplen; Cloran; Clorammicron; Clorazin; Clordil; Clorfenil; Clorofunon; Clorotan; Diarmen; Dildor; Estreptopal; Exacol; Fenicol; Fenisil; Fenizzard; Lebrosctin; Lector A; Naxo; Oftadil; Omycet; Palcol; Palmiclor; Palmifer; Palmisil; Proclon; Pronicol; Quemicetina; Uniclor; Vixint; **Neth.:** Globenicol; **NZ:** Chloromycetin; Chlorsig; Isopto Fenicol; **Philipp.:** Amphchlor; Aphrenil; Biomyccetin; Chloro-S; Chloromycetin; Chlorsig; Clovicol; Esnicol; Fen-Alcon; Forastrol; Genphenil; Gerafen; Kemeticine; Klorfen; Medimycetin; Metrophenicol; Oliphenicol; Optomycin; Padiachlor; Penachlor; **Pol.:** Dtreomycyna; **Port.:** Clorocil; Dermimade Cloranfenicol; Fenoptict; Mlicetinoftalmica; **Rus.:** Synthomycin (Синтомицин); **S.Afr.:** Chloramex; Chlorcol; Chloromycetin; Chloroptict; Chlorphen; Lennacol; Spersanicol; **Singapore:** Beaphenicol; Isopto Fenicol; Kemeticine; Spersanicol; Vanafen-S; **Spain:** Chemeticina; Chloromycetin; Cloranfenil; Normofenicol; **Swed.:** Chloromycetin; **Switz.:** Septicol; Spersanicol; **Thai.:** Antibi-Otic; Archifen; Chloracil; Chloramno; Chloroph; Chlorosin; Cogenate; Cogetine; Fenicol; Genercin; Kemeticine; Korol; Levomycetin; Mycochlorin; Nicolomycetin; Opsaram; Pharmacetin; Silmyccetin; Synchloim; Unison Ointment; Vanafen; **Turk.:** Armisetin; Kemeticine; Klorasuksinat; **UK:** Brochlor; Chloromycetin; Golden Eye; Kemeticine; Optrex Infected Eyes; **USA:** Ak-Chlor; Chloromycetin; Chloroptict; **Venez.:** Chloromycetin; Clolftal; Cloramfesa; Quemicetina.

Multi-ingredient Arg.: Acnoxin; Antiflogol; Bioftal; Clorifbrase; Colirio Antibiotico CNH; Esodar; Eubetal Biotict; Fluoropon; Iruox; Klonovan; Neocortizol; Oftal; Oftalmoflogol; Poenbiotact; Quemicetina con Hydrocortisone; Quemicetina Nasal Compuesta; Vistadloran; **Austria:** Cortison Kemeticin; Dexamefenicol-Prednisol; **Belg.:** De Icol; **Braz.:** Dermofibrin C; Dexadlor; Olexaneticol; Epitezian; Fenidex; Fibrase; Fibrase d/Cloranfenicol; Gino-Fibrase; Gyno Iruox; Iruoxol; Kollagenase con cloranfenicol; Naxogin Compositum; Oto-Biotict; Otofencol-D; Otomicina; Otopen; Ovi-donal; Procutan; Regencol; Regenon; Sulim; **Canada:** Pentamycetin-HC; **Chile:** Cortifenol H; Gemitin con Prednisolona; Naxogin Compositum; Otandrol; Sinfotona; Spersadex Comp; **Cz.:** Betabiopact; Spersadex Compositum; **Denm.:** Spersadex Comp; **Fin.:** Iruox; Oftan C-C; Oftan Dexa-Chlora; **Fr.:** Cebedexacol; **Ger.:** Aquapred; Berlicetin; Ichthosseptal Oleomycetin-Prednisol; Spersadex Comp; Spersadexolint; **G.:** Chlorapred; Cortiphenol H; Dexadlor; Dispersadron-C; Geyppina; Nezebil; Spersadexoline; Sulfachloramphenicol; Sulfanicol; **Hong Kong:** Chlomy-P; Chloram-D; Cortiphenol H; Eurodron; Ginetis; Neo-Dex (Improved); Senexa-C; Spersadex Comp; Spersadexoline; **Hung.:** Chlorocid-H; Spersadex Comp; **India:** Belmyccetin-C; Candibiotic; Chlormixin; Chloromycetin Ear Drops; Cortison Kemeticin; Dexosyn-C; Kemeticine Antiozema; Kemeticine Otologica; Ocuopol; Ocuopol-D; Otek-AC; Otek-AC; Paraxin Ear; Perfocyn; Pyrimon; **Indon.:** Chloramphecor; Chloramphecort-H; Colansactin; Gynoxa; Indoson; Kemiderm; Kloramixin; Kloramixin D; Klorfeson; Naxogin Complex; Otolin; Particol; Ramicort; Spersadex Comp; **Israel:** Phenimixin; Tarocidin; Tarocidin D; Threolone; **Ital.:** Antibiotact; Betabiopact; Cloradex; Colbiocin; Cortison Chemeticina; Cosmiclina; Dextoline; Eubetal Antibiotico; Idracemi; Iruoxol; Vasofen; Vitacaf; Xantervit Antibiotico; **Malaysia:** De Icol; Spersadex Comp; Spersadexoline; **Mex.:** Cloran Otic; Clroxona-O; Fibrase; Levodexan; Levofenil; Nispil; Ofodex; Otalgan; Otifar; Otolonel; Poral; Pre Clor; Soldrin; Solfranicol; Sulfal; Cloran; Trecloran; Ulcoderma; **Norw.:** Spersadex med kloramfenikol; **Philipp.:** Dexanicol; Spersadex Compound; **Port.:** Cloranpectina; Clor-cortict; Medrivax Antibiotico; Prednifaltalmica; **Rus.:** Candibiotic (Кандибийотик); Colbiocin (Колбиоцин); Cortomycetin (Кортимицетин); Iruox (Ируксол); Levomecol (Левомеколь); Levosin (Левосин); **S.Afr.:** Covomycin; Covomycin-D; Covotor; Spersacet C; Spersadex Comp; Spersadexoline; **Singapore:** Spersadex Comp; Spersadexoline; **Spain:** Blefarida; Cloram Zinc; Cloran Hemidex; Cortison Chemetic Topica; Dermisone Epitelizante; Dexam Contrace; Fluo Fenic; Icol; Medrivax Antib; Otosedol Biotico; Predni Azuleno; **Switz.:** Spersacet C; Spersadex Comp; Spersadexoline; **Thai.:** Archifen; Chlorotracin; Dermasol; Levoptin; Spersadexoline; Vagicin; **UK:** Actina; **Venez.:** Clorasona; Deicol; Otandrol.

Chloroxine (USAN)

Cloroxinum; 5,7-Dichlorochinolín-8-ol; 5,7-Dichloroquinolin-8-ol; Kloroxin.

Хлороксин
C₉H₅Cl₂NO = 214.0.
CAS — 773-76-2.



Profile

Chloroxine is a halogenated hydroxyquinoline with antibacterial

and antifungal properties similar to those of cloiquinol (p.254). It is used typically in the treatment of dandruff and seborrhoeic dermatitis of the scalp. It has also been given orally in preparations for gastrointestinal disorders.

Choroxine is a component of halquinal (p.286).

Preparations

Proprietary Preparations (details are given in Part 3)

Cz.: Endiaron; **USA:** Capitol.

Multi-ingredient Cz.: Endiform; Triaderm; Triamcinolon Compositum; Triamcinolon E; Triamcinolon-Galenat; **Ital.:** Beben Clorossina.

Chlorquinaldol (BAN, rINN)

Chlorochinaldol; Chlorquinaldolum; Clorquinaldol; Kloorikinaldoli; Klorikinaldol. 5,7-Dichloro-2-methylquinolin-8-ol.

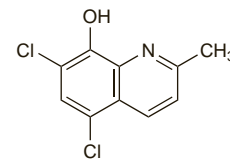
Хлорхинальдол

C₁₀H₇Cl₂NO = 228.1.

CAS — 72-80-0.

ATC — D08AH02; G01AC03; P01AA04; R02AA11.

ATC Vet — QD08AH02; QG01AC03; QR02AA11.



Pharmacopoeias. In Pol.

Profile

Chlorquinaldol is a halogenated hydroxyquinoline with properties similar to those of cloiquinol (p.254). It is mainly applied topically in infected skin conditions and in vaginal infections.

Preparations

Proprietary Preparations (details are given in Part 3)

Hung.: Chlorosan; **Venez.:** Ageth.

Multi-ingredient Arg.: Nerisona C; **Braz.:** Bi-Nerisona; **Chile:** Bi-Nerisona; **Cz.:** Colposeptine; Proctospref; **Denm.:** Locoicid; **Fin.:** Locoicid; **Fr.:** Nerisona C; **Ger.:** Nerisona C; Proctospref; **Hong Kong:** Colposeptine; Nerisona C; **Indon.:** Nerisona Combi; **Irl.:** Locoicid C; **Israel:** Multiderm; **Ital.:** Impetex; Nerisona C; **Mex.:** Bi-Nerisona; **Norw.:** Locoicid; **NZ:** Locoicid C; Nerisona C; **Philipp.:** Nerisona Combi; **Pol.:** Chlorchlorichin; **Rus.:** Gynalgin (Гиналгин); **Singapore:** Nerisona C; **Spain:** Ampidermex; Cloral Plus; Quinortact; **Switz.:** Anginazol; **Turk.:** Colposeptine; Impetex; Nerisona C; **UK:** Locoicid C; **Venez.:** Binerisona.

Chlortetracycline (BAN, rINN)

Chlortétracycline; Chlortetracyclinum; Clortetraciclina; Klooritetrasykliini; Klortetracyclin. (4S,4aS,5aS,6S,12aS)-7-Chloro-4-dimethylamino-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxonaphthacene-2-carboxamide; 7-Chlorotetracycline.

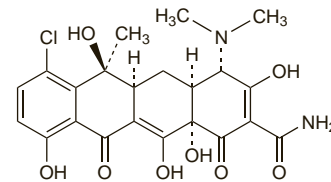
Хлортетрациклин

C₂₂H₂₃ClN₂O₈ = 478.9.

CAS — 57-62-5.

ATC — A01AB21; D06AA02; J01AA03; S01AA02.

ATC Vet — QA01AB21; QD06AA02; QJ01AA03; QJ51AA03; QS01AA02.



Chlortetracycline Bisulfate (rINN)

Bisulfato de clortetraciclina; Chlortétracycline, Bisulfate de; Chlortetracycline Bisulphate (BANM); Chlortetracyclini Bisulfas.

Хлортетрациклина Бисульфат

Pharmacopoeias. In US for veterinary use only.

USP 31 (Chlortetracycline Bisulfate). Store in airtight containers. Protect from light.