

STRONGYLOIDIASIS (*Strongyloides stercoralis*)

Drug	Adult dosage	Pediatric dosage
Drug of choice: ¹ Alternative:	Ivermectin ² Albendazole ^{3,4}	200 mcg/kg/d PO x 2d 400 mg PO bid x 7d
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- In immunocompromised patients or disseminated disease, it may be necessary to prolong or repeat therapy, or to use other agents. Veterinary parenteral and enema formulations of ivermectin have been used in severely ill patients with hyperinfection who were unable to take or reliably absorb oral medications (J Orem et al, Clin Infect Dis 2003; 37:152; PE Tarr Am J Trop Med Hyg 2003; 68:453; FM Marty et al, Clin Infect Dis 2005; 41:e5). In disseminated strongyloidiasis, combination therapy with albendazole and ivermectin has been suggested (S Lim et al, CMAJ 2004; 171:479).
- Safety of ivermectin in young children (<15 kg) and pregnant women remains to be established. Ivermectin should be taken on an empty stomach with water.
- Not FDA-approved for this indication.
- Albendazole must be taken with food; a fatty meal increases oral bioavailability.

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MANUFACTURERS OF DRUGS USED TO TREAT PARASITIC INFECTIONS

albendazole – <i>Albenza</i> (GlaxoSmithKline)	levamisole – <i>Ergamisol</i> (Janssen)
<i>Albenza</i> (GlaxoSmithKline) – albendazole	lumefantrine/artemether – <i>Coartem, Riamet</i> (Novartis)
<i>Alinia</i> (Romark) – nitazoxanide	<i>Malarone</i> (GlaxoSmithKline) – atovaquone/proguanil
<i>AmBisome</i> (Gilead) – amphotericin B, liposomal	malathion – <i>Ovide</i> (Medicis)
amphotericin B – <i>Fungizone</i> (Apothecon), others	mebendazole – <i>Vermox</i> (McNeil), others
amphotericin B, liposomal – <i>AmBisome</i> (Gilead)	mefloquine – <i>Lariam</i> (Roche)
<i>Ancobon</i> (Valeant) – flucytosine	meglumine antimonate – <i>Glucantime</i> (Aventis, France)
§ <i>Antiminth</i> (Pfizer) – pyrantel pamoate	† melarsoprol – <i>Mel-B</i>
• <i>Aralen</i> (Sanofi) – chloroquine HCl and chloroquine phosphate	† <i>Mel-B</i> – melarsoprol
§ artemether – <i>Artenam</i> (Arenco, Belgium)	<i>Mepron</i> (GlaxoSmithKline) – atovaquone
§ artemether/lumefantrine – <i>Coartem, Riamet</i> (Novartis)	metronidazole – <i>Flagyl</i> (Pfizer), others
§ <i>Artenam</i> (Arenco, Belgium) – artemether	§ miconazole – <i>Monistat i.v.</i>
§ artesunate – (Guilin No. 1 Factory, People's Republic of China)	§ miltefosine – <i>Impavido</i> (Zentaris, Germany)
atovaquone – <i>Mepron</i> (GlaxoSmithKline)	§ <i>Monistat i.v.</i> – miconazole
atovaquone/proguanil – <i>Malarone</i> (GlaxoSmithKline)	§ <i>NebuPent</i> (Fujisawa) – pentamidine isethionate
azithromycin – <i>Zithromax</i> (Pfizer), others	§ niclosamide – <i>Yomesan</i> (Bayer, Germany)
• <i>Bactrim</i> (Roche) – TMP/Sulfa	† nifurtimox – <i>Lampit</i> (Bayer, Germany)
§ benznidazole – <i>Rochagan</i> (Brazil)	nitazoxanide – <i>Alinia</i> (Romark)
• <i>Biaxin</i> (Abbott) – clarithromycin	<i>Nix</i> (GlaxoSmithKline) – permethrin
§ <i>Biltricide</i> (Bayer) – praziquantel	• <i>Nizoral</i> (Janssen) – ketoconazole
† bithionol – <i>Bitin</i> (Tanabe, Japan)	§ ornidazole – <i>Tiberal</i> (Roche, France)
† <i>Bitin</i> (Tanabe, Japan) – bithionol	<i>Ornidyl</i> (Aventis) – eflornithine (Difluoromethylornithine, DFMO)
§ <i>Brolene</i> (Aventis, Canada) – propamidine isethionate	<i>Ovide</i> (Medicis) – malathion
chloroquine HCl and chloroquine phosphate – <i>Aralen</i> (Sanofi), others	§ oxamniquine – <i>Vansil</i> (Pfizer)
clarithromycin – <i>Biaxin</i> (Abbott), others	§ <i>Paludrine</i> (AstraZeneca, United Kingdom) – proguanil
• <i>Cleocin</i> (Pfizer) – clindamycin	paromomycin – <i>Humatin</i> (Monarch); <i>Leshcutan</i> (Teva, Israel; topical formulation not available in US)
clindamycin – <i>Cleocin</i> (Pfizer), others	<i>Pentam 300</i> (Fujisawa) – pentamidine isethionate
<i>Coartem</i> (Novartis) – artemether/lumefantrine	pentamidine isethionate – <i>Pentam 300</i> (Fujisawa), <i>NebuPent</i> (Fujisawa)
crotamiton – <i>Eurax</i> (Westwood-Squibb)	† <i>Pentostam</i> (GlaxoSmithKline, United Kingdom) – sodium stibogluconate
dapsone – (Jacobus)	permethrin –] <i>Nix</i> (GlaxoSmithKline), <i>Elimite</i> (Allergan)
§ <i>Daraprim</i> (GlaxoSmithKline) – pyrimethamine USP	§ praziquantel – <i>Biltricide</i> (Bayer)
† diethylcarbamazine citrate (DEC) – <i>Hetrazan</i>	primaquine phosphate USP
• <i>Diflucan</i> (Pfizer) – fluconazole	§ proguanil – <i>Paludrine</i> (AstraZeneca, United Kingdom)
§ diloxanide furoate – <i>Furamide</i> (Boots, United Kingdom)	proguanil/atovaquone – <i>Malarone</i> (GlaxoSmithKline)
doxycycline – <i>Vibramycin</i> (Pfizer), others	§ propamidine isethionate – <i>Brolene</i> (Aventis, Canada)
eflornithine (Difluoromethylornithine, DFMO) – <i>Ornidyl</i> (Aventis)	§ pyrantel pamoate – <i>Antiminth</i> (Pfizer)
§ <i>Egaten</i> (Novartis) – triclabendazole	pyrethrins and piperonyl butoxide – <i>RID</i> (Pfizer), others
<i>Elimite</i> (Allergan) – permethrin	§ pyrimethamine USP – <i>Daraprim</i> (GlaxoSmithKline)
<i>Ergamisol</i> (Janssen) – levamisole	<i>Qualaquin</i> – quinine sulfate (Mutual Pharmaceutical Co/AR Scientific)
<i>Eurax</i> (Westwood-Squibb) – crotamiton	quinacrine
• <i>Flagyl</i> (Pfizer) – metronidazole	* quinidine gluconate (Eli Lilly)
§ <i>Flisint</i> (Sanofi-Aventis, France) – fumagillin	§ quinine dihydrochloride
fluconazole – <i>Diflucan</i> (Pfizer), others	quinine sulfate – <i>Qualaquin</i> (Mutual Pharmaceutical Co/AR Scientific)
flucytosine – <i>Ancobon</i> (Valeant)	<i>Riamet</i> (Novartis) – artemether/lumefantrine
§ fumagillin – <i>Flisint</i> (Sanofi-Aventis, France)	• <i>RID</i> (Pfizer) – pyrethrins and piperonyl butoxide
• <i>Fungizone</i> (Apothecon) – amphotericin	• <i>Rifadin</i> (Aventis) – rifampin
§ <i>Furamide</i> (Boots, United Kingdom) – diloxanide furoate	rifampin – <i>Rifadin</i> (Aventis), others
§ furazolidone – <i>Furozone</i> (Roberts)	§ <i>Rochagan</i> (Brazil) – benznidazole
§ <i>Furozone</i> (Roberts) – furazolidone	* <i>Rovamycine</i> (Aventis) – spiramycin
† <i>Germanin</i> (Bayer, Germany) – suramin sodium	† sodium stibogluconate – <i>Pentostam</i> (GlaxoSmithKline, United Kingdom)
§ <i>Glucantime</i> (Aventis, France) – meglumine antimonate	* spiramycin – <i>Rovamycine</i> (Aventis)
† <i>Hetrazan</i> – diethylcarbamazine citrate (DEC)	• <i>Sporanox</i> (Janssen-Ortho) – itraconazole
<i>Humatin</i> (Monarch) – paromomycin	<i>Stromectol</i> (Merck) – ivermectin
§ <i>Impavido</i> (Zentaris, Germany) – miltefosine	sulfadiazine – (Eon)
iodoquinol – <i>Yodoxin</i> (Glenwood), others	† suramin sodium – <i>Germanin</i> (Bayer, Germany)
itraconazole – <i>Sporanox</i> (Janssen-Ortho), others	§ <i>Tiberal</i> (Roche, France) – ornidazole
ivermectin – <i>Stromectol</i> (Merck)	
ketoconazole – <i>Nizoral</i> (Janssen), others	
† <i>Lampit</i> (Bayer, Germany) – nifurtimox	
<i>Lariam</i> (Roche) – mefloquine	
§ <i>Leshcutan</i> (Teva, Israel) – topical paromomycin	

(continued)

<i>Tindamax</i> (Mission) – tinidazole	• <i>Vermox</i> (McNeil) – mebendazole
tinidazole – <i>Tindamax</i> (Mission)	• <i>Vibramycin</i> (Pfizer) – doxycycline
TMP/Sulfa – <i>Bactrim</i> (Roche), others	• <i>Yodoxin</i> (Glenwood) – iodoquinol
§ triclabendazole – <i>Egaten</i> (Novartis)	§ <i>Yomesan</i> (Bayer, Germany) – niclosamide
§ <i>Vansil</i> (Pfizer) – oxamniquine	• <i>Zithromax</i> (Pfizer) – azithromycin

* Available in the US only from the manufacturer.

§ Not available commercially. It may be obtained through compounding pharmacies such as Panorama Compounding Pharmacy, 6744 Balboa Blvd, Van Nuys, CA 91406 (800-247-9767) or Medical Center Pharmacy, New Haven, CT (203-688-6816). Other compounding pharmacies may be found through the National Association of Compounding Pharmacies (800-687-7850) or the Professional Compounding Centers of America (800-331-2498, www.pccarx.com).

† Available from the CDC Drug Service, Centers for Disease Control and Prevention, Atlanta, Georgia 30333; 404-639-3670 (evenings, weekends, or holidays: 770-488-7100).

• Also available generically.

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