

**ASCARIASIS (*Ascaris lumbricoides*, roundworm)**

	Drug	Adult dosage	Pediatric dosage
Drug of choice: <sup>1</sup>	Albendazole <sup>2,3</sup>	400 mg PO once	400 mg PO once
	OR Mebendazole	100 mg bid PO x 3d or 500 mg once	100 mg PO bid x 3d or 500 mg once
	OR Ivermectin <sup>2,4</sup>	150-200 mcg/kg PO once	150-200 mcg/kg PO once

1. Nitazoxanide may be effective against a variety of protozoan and helminth infections (DA Bobak, Curr Infect Dis Rep 2006; 8:91; E Diaz et al, Am J Trop Med Hyg 2003; 68:384). It was effective against mild to moderate amebiasis, 500 mg bid x 3d, in a recent study (JF Rossignol et al, Trans R Soc Trop Med Hyg 2007 Oct; 101:1025 E pub 2007 July 20). It is FDA-approved only for treatment of diarrhea caused by *Giardia* or *Cryptosporidium* (Med Lett Drugs Ther 2003; 45:29). Nitazoxanide is available in 500-mg tablets and an oral suspension; it should be taken with food.
2. Not FDA-approved for this indication.
3. Albendazole must be taken with food; a fatty meal increases oral bioavailability.
4. 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.

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**MANUFACTURERS OF DRUGS USED TO TREAT PARASITIC INFECTIONS**

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

(continued)

<i>Stromectol</i> (Merck) – ivermectin	§ triclabendazole – <i>Egaten</i> (Novartis)
sulfadiazine – (Eon)	§ <i>Vansil</i> (Pfizer) – oxamniquine
† suramin sodium – <i>Germanin</i> (Bayer, Germany)	• <i>Vermox</i> (McNeil) – mebendazole
§ <i>Tiberal</i> (Roche, France) – ornidazole	• <i>Vibramycin</i> (Pfizer) – doxycycline
<i>Tindamax</i> (Mission) – tinidazole	• <i>Yodoxin</i> (Glenwood) – iodoquinol
tinidazole – <i>Tindamax</i> (Mission)	§ <i>Yomesan</i> (Bayer, Germany) – niclosamide
TMP/Sulfa – <i>Bactrim</i> (Roche), others	• <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](http://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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