

SCHISTOSOMIASIS (Bilharziasis)

| | Drug | Adult dosage | Pediatric dosage |
|------------------------------|---------------------------|-------------------------------|--|
| <i>S. haematobium</i> | | | |
| Drug of choice: | Praziquantel ¹ | 40 mg/kg/d PO in 2 doses x 1d | 40 mg/kg/d PO in 2 doses x 1d |
| <i>S. japonicum</i> | | | |
| Drug of choice: | Praziquantel ¹ | 60 mg/kg/d PO in 3 doses x 1d | 60 mg/kg/d PO in 3 doses x 1d |
| <i>S. mansoni</i> | | | |
| Drug of choice: | Praziquantel ¹ | 40 mg/kg/d PO in 2 doses x 1d | 40 mg/kg/d PO in 2 doses x 1d |
| Alternative: | Oxamniquine ^{2*} | 15 mg/kg PO once ³ | 20 mg/kg/d PO in 2 doses x 1d ³ |
| <i>S. mekongi</i> | | | |
| Drug of choice: | Praziquantel ¹ | 60 mg/kg/d PO in 3 doses x 1d | 60 mg/kg/d PO in 3 doses x 1d |

* Availability problems. See table below.

1. Praziquantel should be taken with liquids during a meal.
2. Oxamniquine, which is not available in the US, is generally not as effective as praziquantel. It has been useful, however, in some areas in which praziquantel is less effective (ML Ferrari et al, Bull World Health Organ 2003; 81:190; A Harder, Parasitol Res 2002; 88:395). Oxamniquine is contraindicated in pregnancy. It should be taken after food.
3. In East Africa, the dose should be increased to 30 mg/kg, and in Egypt and South Africa to 30 mg/kg/d x 2d. Some experts recommend 40-60 mg/kg over 2-3d in all of Africa (KC Shekhar, Drugs 1991; 42:379).

Information provided by The Medical Letter. For a copy of the entire *Drugs for Parasitic Infections* article, go to: www.medicalletter.org/parasitic_cdc

MANUFACTURERS OF DRUGS USED TO TREAT PARASITIC INFECTIONS

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

(continued)

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