

LIVESAY EXPEDITIONS & ADVENTURES

Malaria Risk Information and Prophylaxis, by Country

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Table 2-24. Malaria risk information and prophylaxis, by country¹

Display only: AfghanistanAlbaniaAlgeriaAndorraAngolaAnguilla (U.K.)AntarcticaAntigua and BarbudaArgentinaArmeniaArubaAustraliaAustriaAzerbaijanAzores (Portugal)The BahamasBahrainBangladeshBarbadosBelarusBelgiumBelizeBeninBermuda (U.K.)BhutanBoliviaBosnia and HerzegovinaBotswanaBrazilBritish Indian Ocean Territory (U.K.)BruneiBulgariaBurkina FasoBurma (Myanmar)BurundiCambodiaCameroonCanadaCanary Islands (Spain)Cape VerdeCayman Islands (U.K.)Central African RepublicChadChileChinaChristmas Island (Australia)Cocos (Keeling) Islands (Australia)ColombiaComorosRepublic of the Congo Cook Islands (New Zealand)Costa RicaCôte d'Ivoire (Ivory Coast)CroatiaCubaCyprusCzech RepublicDemocratic Republic of the CongoDenmarkDjiboutiDominicaDominican RepublicEaster Island (Chile)Ecuador, including the Galápagos IslandsEgyptEl SalvadorEquatorial GuineaEritreaEstoniaEthiopiaFalkland Islands (U.K.)Faroe Islands (Denmark)FijiFinlandFranceFrench Guiana (France)French Polynesia, including the island groups of Society Islands (Tahiti, Moorea, and Bora-Bora), Marquesas Islands (Hiva Oa and Ua Huka), and Austral Islands (Tubuai and Rurutu)GabonThe GambiaGeorgiaGermanyGhanaGibraltar (U.K.)GreeceGreenland (Denmark)GrenadaGuadeloupe, including St. Barthelemy and Saint Martin (France)Guam (U.S.)GuatemalaGuineaGuinea-BissauGuyanaHaitiHondurasHong Kong SAR (China)HungaryIcelandIndiaIndonesiaIranIraqIrelandIsraelItaly, including Holy See and Vatican CityJamaicaJapanJordanKazakhstanKenyaKiribati (formerly Gilbert Islands), includes Tarawa, Tabuaeran (Fanning Island), and Banaba (Ocean Island)North KoreaSouth KoreaKosovoKuwaitKyrgyzstanLaosLatviaLebanonLesothoLiberiaLibyaLiechtensteinLithuaniaLuxembourgMacau SAR (China)MacedoniaMadagascarMadeira Islands (Portugal)MalawiMalaysiaMaldivesMaliMaltaMarshall IslandsMartinique (France)MauritaniaMauritiusMayotte (France)MexicoThe Federated States of Micronesia (Including Yap Islands, Pohnpei, Chuuk, and Kosrae)MoldovaMonacoMongoliaMontenegroMontserrat (U.K.)MoroccoMozambiqueNamibiaNauruNepalThe NetherlandsNetherlands Antilles, including Bonaire, Curaçao, Saba, St. Eustasius, and St. MaartenNew Caledonia (France)New ZealandNicaraguaNigerNigeriaNiue (New Zealand)Norfolk Island (Australia)Northern Mariana Islands (U.S.), including Saipan, Tinian, and Rota IslandNorwayOmanPakistanPalauPanamaPapua New GuineaParaguayPeruPhilippinesPitcairn Islands (U.K.)PolandPortugalPuerto Rico (U.S.)QatarRéunion (France)RomaniaRussiaRwandaSaint Helena (U.K.)Saint Kitts and NevisSaint LuciaSaint Pierre and Miquelon (France)Saint Vincent and the GrenadinesSamoaAmerican SamoaSan MarinoSão Tomé and PríncipeSaudi ArabiaSenegalSerbiaSeychellesSierra LeoneSingaporeSlovakiaSloveniaSolomon IslandsSomaliaSouth AfricaSouth Georgia and the South Sandwich Islands (U.K.)SpainSri LankaSudanSurinameSwazilandSwedenSwitzerlandSyriaTaiwanTajikistanTanzania, including ZanzibarThailandTimor-Leste (East Timor)TogoTokelau (New Zealand)TongaTrinidad and TobagoTunisiaTurkeyTurkmenistanTurks and Caicos Islands (U.K.)TuvaluUgandaUkraineUnited Arab EmiratesUnited Kingdom, including England, Scotland, Wales, and Northern IrelandUnited StatesUruguayUzbekistanVanuatuVenezuelaVietnamBritish Virgin IslandsU.S. Virgin IslandsWestern

Sahara Yemen Zambia Zimbabwe

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Afghanistan	April–December in all areas at altitudes <2,000m (<6,561ft)	Chloroquine	<i>P. vivax</i> 80%-90% <i>P. falciparum</i> 10%-20%	Atovaquone/proguanil, doxycycline, or mefloquine
Albania	None	Not applicable	Not applicable	Not applicable
Algeria	None	Not applicable	Not applicable	Not applicable
Andorra	None	Not applicable	Not applicable	Not applicable
Angola	All	Chloroquine	<i>P. falciparum</i> 90% <i>P. ovale</i> 5% <i>P. vivax</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Anguilla (U.K.)	None	Not applicable	Not applicable	Not applicable
Antarctica	None	Not applicable	Not applicable	Not applicable
Antigua and Barbuda	None	Not applicable	Not applicable	Not applicable
Argentina	Rural areas of Salta and Jujuy province (along Bolivian border) and Misiones and Corrientes province (along border of Paraguay). Malaria present in Iguassu Falls Previously limited to the Ararat Valley in the Ararat and Artashat regions and Masis district. No cases reported since 2006	None	<i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Armenia		None	Historically <i>P. vivax</i> 100%	Mosquito avoidance only
Aruba	None	Not applicable	Not applicable	Not applicable
Australia	None	Not applicable	Not applicable	Not applicable
Austria	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
Azerbaijan	Rural areas <1,500 m (4,921 ft). None in Baku	None	<i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Azores (Portugal)	None	Not applicable	Not applicable	Not applicable
Bahamas, The	Present only in Great Exuma Island	None	<i>P. falciparum</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, or mefloquine
Bahrain	None	Not applicable	Not applicable	Not applicable
Bangladesh	All areas, except in city of Dhaka	Chloroquine	<i>P. falciparum</i> 77% <i>P. vivax</i> 23%	Atovaquone/proguanil, doxycycline, or mefloquine
Barbados	None	Not applicable	Not applicable	Not applicable
Belarus	None	Not applicable	Not applicable	Not applicable
Belgium	None	Not applicable	Not applicable	Not applicable
Belize	All areas, except in Belize City	None	<i>P. vivax</i> 95% <i>P. falciparum</i> 5%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Benin	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Bermuda (U.K.)	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Bhutan	Rural areas <1,700 m (<5,577 ft) of the southern belt districts along the border with India: Chirang, Geylegphug, Samchi, Samdrup Jongkhar, Sarpang, and Shemgang	Chloroquine	<i>P. falciparum</i> 50% <i>P. vivax</i> 50%	Atovaquone/proguanil, doxycycline, or mefloquine
Bolivia	All areas <2,500 m (<8,202 ft) in the following departments: Beni, Chuquisaca, Cochabamba, La Paz, Pando, Santa Cruz, and Tarija. None in city of La Paz	Chloroquine	<i>P. vivax</i> 70%–95% <i>P. falciparum</i> 5%–30%	Atovaquone/proguanil, doxycycline, or mefloquine
Bosnia and Herzegovina	None	Not applicable	Not applicable	Not applicable
Botswana	North of 22°S in the northern provinces of Central, Chobe, Ghanzi, and Ngamiland, including safaris to the Okavango Delta area. None in the city of Gaborone	Chloroquine	<i>P. falciparum</i> 90% <i>P. vivax</i> 5% <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Brazil	States of Acre, Rondônia, Amapá, Amazonas, Roraima, and Tocantins. Parts of states of Maranhão (western part), Mato Grosso (northern part), and Pará (except Belem	Chloroquine	<i>P. vivax</i> 75% <i>P. falciparum</i> 25%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
	Malaria in Iguassu Falls			
British Indian Ocean Territory; includes Diego Garcia (U.K.)	None	Not applicable	Not applicable	Not applicable
Brunei	None	Not applicable	Not applicable	Not applicable
Bulgaria	None	Not applicable	Not applicable	Not applicable
Burkina Faso	All	Chloroquine	<i>P. falciparum</i> 80% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Burma (Myanmar)	Rural areas throughout the country at altitudes <1000 m (<3,281 ft). None in cities of Rangoon (Yangon) and Mandalay	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> 80% <i>P. vivax</i> 20%	In the provinces of Bago, Klayah, Kachin, Kayin, Shan, and Tanintharyi: Atovaquone/proguanil or doxycycline All other areas: Atovaquone/ proguanil, doxycycline, or mefloquine
Burundi	All	Chloroquine	<i>P. falciparum</i> >85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> <15%	Atovaquone/proguanil, doxycycline, or mefloquine
Cambodia	Present throughout the country, including the temple complex at Angkor Wat, except none in Phnom Penh and around Lake Tonle Sap	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> 86% <i>P. vivax</i> 12% <i>P. malariae</i> 2%	In the provinces of Preah Vihear, Siemreap, Oddar Meanchey, Banteay Meanchey, Battambang, Pailin, Kampot, Koh Kong, and Pursat bordering Thailand: Atovaquone/proguanil or doxycycline All other areas: Atovaquone/proguanil, doxycycline, or mefloquine.

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Cameroon	All	Chloroquine	<i>P. falciparum</i> 80% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Canada	None	Not applicable	Not applicable	Not applicable
Canary Islands (Spain)	None	Not applicable	Not applicable	Not applicable
Cape Verde	Limited to Saõ Tiago Island.	Chloroquine	<i>P. falciparum</i> primarily	Atovaquone/proguanil, doxycycline, or mefloquine
Cayman Islands (U.K.)	None	Not applicable	Not applicable	Not applicable
Central African Republic	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 15%	Atovaquone/proguanil, doxycycline, or mefloquine
Chad	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 15%	Atovaquone/proguanil, doxycycline, or mefloquine
Chile	None	Not applicable	Not applicable	Not applicable
China	Rural parts of Anhui, Yunnan, Hainan provinces. Rare cases occur in other rural parts of the country <1,500 m (<4,921 ft) during May–December. None in major river cruises and urban areas	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> primarily in Hainan and Yunnan. <i>P. vivax</i> primarily elsewhere	Along China-Burma border in the western part of Yunnan province: Atovaquone/proguanil or doxycycline Hainan and the other parts of Yunnan province: Atovaquone/ proguanil, doxycycline or mefloquine Anhui province:

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
				Atovaquone/proguanil, chloroquine, doxycycline or mefloquine
				All areas with malaria transmission: Mosquito avoidance
Christmas Island (Australia)	None	Not applicable	Not applicable	Not applicable
Cocos (Keeling) Islands	None	Not applicable	Not applicable	Not applicable
Colombia	All rural areas at altitudes <1,800 m (<5,906 ft). None in Bogotá and Cartagena	Chloroquine	<i>P. falciparum</i> 50% <i>P. vivax</i> 50%	Atovaquone/proguanil, doxycycline, or mefloquine
Comoros	All	Chloroquine	<i>P. falciparum</i> primarily	Atovaquone/proguanil, doxycycline, or mefloquine
Congo, Republic of the (Congo-Brazzaville)	All	Chloroquine	<i>P. falciparum</i> primarily	Atovaquone/proguanil, doxycycline, or mefloquine
Cook Islands (New Zealand)	None	Not applicable	Not applicable	Not applicable
Costa Rica	Limon province, but not in Limon city (Puerto Limon). Rare cases in Puntarenas, Alajuela, Guanacaste, and Heredia provinces	None	<i>P. vivax</i> 90% <i>P. falciparum</i> 10%	Limon province: Atovaquone/ proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵ All other areas with malaria transmission: Mosquito avoidance
Côte d'Ivoire (Ivory Coast)	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Croatia	None	Not applicable	Not applicable	Not applicable
Cuba	None	Not applicable	Not applicable	Not applicable
Cyprus	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Czech Republic	None	Not applicable	Not applicable	Not applicable
Democratic Republic of the Congo (Congo-Kinshasa)	All	Chloroquine	<i>P. falciparum</i> 90% <i>P. ovale</i> 5% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Denmark	None	Not applicable	Not applicable	Not applicable
Djibouti	All	Chloroquine	<i>P. falciparum</i> 90% <i>P. vivax</i> 5%–10%	Atovaquone/ proguanil, doxycycline, or mefloquine
Dominica	None	Not applicable	Not applicable	Not applicable
Dominican Republic	All areas (including resort areas), except not present in the cities of Santo Domingo and Santiago	None	<i>P. falciparum</i> 100%	Atovaquone/ proguanil, chloroquine, doxycycline, or mefloquine
Easter Island (Chile)	None	Not applicable	Not applicable	Not applicable
Ecuador, including the Galápagos Islands	All areas at altitudes <1,500 m (<4,921 ft). Not present in the cities of Guayaquil, Quito, and the Galápagos Islands	Chloroquine	<i>P. vivax</i> 75% <i>P. falciparum</i> 25%	Atovaquone/proguanil, doxycycline, or mefloquine
Egypt	None	Not applicable	Not applicable	Not applicable
El Salvador	Rural areas of Santa Ana, Ahuachapán, and La Paz, and La Unión departments	None	<i>P. vivax</i> 99% <i>P. falciparum</i> <1%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Equatorial Guinea	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 15%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
Eritrea	All areas at altitudes <2,200 m (<7,218 ft). None in Asmara	Chloroquine	<i>P. falciparum</i> 85% <i>P. vivax</i> 10%–15% <i>P. ovale</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Estonia	None	Not applicable	Not applicable	Not applicable
Ethiopia	All areas at altitudes <2,500 m (<8,202 ft), except none in Addis Ababa	Chloroquine	<i>P. falciparum</i> 85% <i>P. vivax</i> 10%–15% <i>P. malariae</i> and <i>P. ovale</i> <5%	Atovaquone/proguanil, doxycycline, or mefloquine
Falkland Islands (U.K.)	None	Not applicable	Not applicable	Not applicable
Faroe Islands (Denmark)	None	Not applicable	Not applicable	Not applicable
Fiji	None	Not applicable	Not applicable	Not applicable
Finland	None	Not applicable	Not applicable	Not applicable
France	None	Not applicable	Not applicable	Not applicable
French Guiana	All areas, except none in city of Cayenne or Devil's Island (Ile du Diable)	Chloroquine	<i>P. falciparum</i> >50% <i>P. vivax</i> <50%	Atovaquone/proguanil, doxycycline, or mefloquine
French Polynesia, includes the island groups of Society Islands (Tahiti, Moorea, and Bora-Bora); Marquesas Islands (Hiva Oa and Ua Huka); and Austral Islands (Tubuai and Rurutu)	None	Not applicable	Not applicable	Not applicable
Gabon	All	Chloroquine	<i>P. falciparum</i> 95% <i>P. malariae</i> , <i>P. ovale</i> , <i>P. vivax</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Gambia, The	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> , <i>P. vivax</i> 15%	Atovaquone/proguanil, doxycycline, or mefloquine
Georgia	Present in the southeastern part of the country near the Azerbaijan border, mainly in the Kakheti and Kvemo Kartli regions. None in Tblisi	None	<i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Germany	None	Not applicable	Not applicable	Not applicable
Ghana	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Gibraltar (U.K.)	None	Not applicable	Not applicable	Not applicable
Greece	None	Not applicable	Not applicable	Not applicable
Greenland (Denmark)	None	Not applicable	Not applicable	Not applicable
Grenada	None	Not applicable	Not applicable	Not applicable
Guadeloupe, including St. Barthelemy and Saint Martin (France)	None	Not applicable	Not applicable	Not applicable
Guam (U.S.)	None	Not applicable	Not applicable	Not applicable
Guatemala	Rural areas only at altitudes <1,500 m (<4,921 ft). None in Guatemala City, Antigua or Lake Atitlán.	None	<i>P. vivax</i> 97% <i>P. falciparum</i> 3%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Guinea	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Guinea-Bissau	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Guyana	All rural areas <900 m (<2,953 ft)	Chloroquine	<i>P. falciparum</i> 60% <i>P. vivax</i> 40% <i>P. malariae</i> <1%	Atovaquone/proguanil, doxycycline, or mefloquine
Haiti	All (including Port Labadee)	None	<i>P. falciparum</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, or mefloquine
Honduras	Present throughout the country at altitudes <1000 m (<3,281 ft) and in Roatán and other Bay Islands. None in Tegucigalpa and San Pedro Sula	None	<i>P. vivax</i> 50%–95% <i>P. falciparum</i> 5%–50%	Atovaquone/proguanil, chloroquine, doxycycline, or mefloquine
Hong Kong SAR (China)	None	Not applicable	Not applicable	Not applicable
Hungary	None	Not applicable	Not applicable	Not applicable
Iceland	None	Not applicable	Not applicable	Not applicable
India	All areas throughout country except no malaria in areas >2,000 m (>6,561 ft) in Himachal Pradesh, Jammu, Kashmir, and Sikkim. Present in cities of Delhi and Bombay (Mumbai)	Chloroquine	<i>P. vivax</i> 40% <i>P. falciparum</i> 20%–40% <i>P. malariae</i> and <i>P. ovale</i> 20%–40%	Atovaquone/proguanil, doxycycline, or mefloquine
Indonesia	Present in rural Sumatra, Sulawesi, Kalimantan (Borneo) and Nusa Tenggara Barat (includes island of Lombok)	Chloroquine	<i>P. falciparum</i> 66% <i>P. vivax</i> 34%	Atovaquone/proguanil, doxycycline, or mefloquine
	All areas of eastern Indonesia (provinces of Papua Indonesia, Irian			

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
	Jaya Barat, Nusa Tenggara Timur, Maluku, and Maluku Utara).			
	None in Jakarta, resort areas of Bali and the island of Java, except for the Menoreh Hills in central Java. None in urban areas in Sumatra, Kalimantan, Nusa Tenggara Barat and Sulawesi			
Iran	Rural areas of Sistan-Baluchestan, the southern tropical part of Kerman, and Hormozgan province	Chloroquine	<i>P. falciparum</i> 88% <i>P. vivax</i> 11%	Atovaquone/proguanil, doxycycline, or mefloquine
Iraq	Ardebil and East Azerbaijan provinces north of the Zagros mountains during March through November Present in areas at altitudes <1,500 m (<4,921 ft) in provinces of Dahuk, Erbil, Ninawa, Sulaymaniyah, and Ta'mim. None in Baghdad, Tikrit, and Ramadi	None	<i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Ireland	None	Not applicable	Not applicable	Not applicable
Israel	None	Not applicable	Not applicable	Not applicable
Italy (includes Holy See)	None	Not applicable	Not applicable	Not applicable
Jamaica	Rare local cases in Kingston	None	<i>P. falciparum</i> 100%	Mosquito avoidance only
Japan	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
Jordan	None	Not applicable	Not applicable	Not applicable
Kazakhstan	None	Not applicable	Not applicable	Not applicable
Kenya	Present in all areas (including game parks) at altitudes <2,500 m (<8,202 ft). None in Nairobi	Chloroquine	<i>P. falciparum</i> 85% <i>P. vivax</i> 5%–10% <i>P. ovale</i> up to 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Kiribati (formerly Gilbert Islands), includes Tarawa, Tabuaeran (Fanning Island), and Banaba (Ocean Island)	None	Not applicable	Not applicable	Not applicable
Korea, North	Present in southern provinces	None	Presumed to be <i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Korea, South	Limited to rural areas in the northern parts of Kyonggi and Kangwon provinces including the demilitarized zone (DMZ)	None	<i>P. vivax</i> 100%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Kosovo	None	Not applicable	Not applicable	Not applicable
Kuwait	None	Not applicable	Not applicable	Not applicable
Kyrgyzstan	Frequent border crossings between neighboring countries with malaria poses a small risk of malaria transmission in the southern and western parts of the country along the borders of Tajikistan and Uzbekistan. No malaria transmission reported in Bishkek	None	<i>P. vivax</i> 99% <i>P. falciparum</i> rare imported cases	Mosquito avoidance only

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Laos	All, except none in the city of Vientiane	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> 95% <i>P. vivax</i> 4% <i>P. malariae</i> and <i>P. ovale</i> 1%	Along the Laos-Burma border in the provinces of Bokèo and Louang Namtha and along the Laos-Thailand border in the province of Saravane and Champassack: Atovaquone/ proguanil or doxycycline All other areas: Atovaquone/ proguanil, doxycycline, or mefloquine
Latvia	None	Not applicable	Not applicable	Not applicable
Lebanon	None	Not applicable	Not applicable	Not applicable
Lesotho	None	Not applicable	Not applicable	Not applicable
Liberia	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%-10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Libya	None	Not applicable	Not applicable	Not applicable
Liechtenstein	None	Not applicable	Not applicable	Not applicable
Lithuania	None	Not applicable	Not applicable	Not applicable
Luxembourg	None	Not applicable	Not applicable	Not applicable
Macau SAR (China)	None	Not applicable	Not applicable	Not applicable
Macedonia	None	Not applicable	Not applicable	Not applicable
Madagascar	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. vivax</i> 5%-10% <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Madeira Islands (Portugal)	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
Malawi	All	Chloroquine	<i>P. falciparum</i> 90% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 10%	Atovaquone/proguanil, doxycycline, or mefloquine
Malaysia	Present in rural areas of Malaysian Borneo, and to a lesser extent in rural areas of peninsular Malaysia	Chloroquine	<i>P. falciparum</i> 40% <i>P. vivax</i> 50% <i>P. ovale</i> <1% <i>P. knowlesi</i> reported to cause some human infections here	Atovaquone/proguanil, doxycycline, or mefloquine
Maldives	None	Not applicable	Not applicable	Not applicable
Mali	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Malta	None	Not applicable	Not applicable	Not applicable
Marshall Islands	None	Not applicable	Not applicable	Not applicable
Martinique (France)	None	Not applicable	Not applicable	Not applicable
Mauritania	Present in southern provinces. None in Dakhlet-Nouadhibou, Inchiri, Adrar and Tiris-Zemmour regions	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Mauritius	None	Not applicable	Not applicable	Not applicable
Mayotte (French territorial collectivity)	All	Chloroquine	<i>P. falciparum</i> 40%–50% <i>P. vivax</i> 35%–40% <i>P. ovale</i> <1%	Atovaquone/proguanil, doxycycline, or mefloquine
Mexico	Limited to areas infrequently visited by travelers, including small foci along the Guatemala and Belize	None	<i>P. vivax</i> 99% <i>P. falciparum</i> 1%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
	borders in the state of Quintana Roo and small foci along the Guatemala border in the states of Chiapas and Tabasco; rural areas in the states of Nayarit, Oaxaca, and Sinaloa; and in an area between 24°N and 28°N latitude, and 106°W and 110°W longitude, which lies in parts of Sonora, Chihuahua, and Durango. No malaria along the United States-Mexico border and in the major resorts along the Pacific and Gulf coasts			
Micronesia, Federated States of; includes Yap Islands, Pohnpei, Chuuk, and Kosrae	None	Not applicable	Not applicable	Not applicable
Moldova	None	Not applicable	Not applicable	Not applicable
Monaco	None	Not applicable	Not applicable	Not applicable
Mongolia	None	Not applicable	Not applicable	Not applicable
Montenegro	None	Not applicable	Not applicable	Not applicable
Montserrat (U.K.)	None	Not applicable	Not applicable	Not applicable
Morocco	None	Not applicable	Not applicable	Not applicable
Mozambique	All	Chloroquine	<i>P. falciparum</i> 95% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 10%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Namibia	Present in the provinces of Kunene, Ohangwena, Okavango, Omaheke, Omusati, Oshana, Oshikoto, Otjozondjupa, and the Caprivi Strip	Chloroquine	<i>P. falciparum</i> 90% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 10%	Atovaquone/proguanil, doxycycline, or mefloquine
Nauru	None	Not applicable	Not applicable	Not applicable
Nepal	Present throughout country at altitudes <1,200 m (<3,937 ft). None in Kathmandu or on typical Himalayan treks	Chloroquine	<i>P. vivax</i> 88% <i>P. falciparum</i> 12%	Atovaquone/proguanil, doxycycline, or mefloquine
Netherlands	None	Not applicable	Not applicable	Not applicable
Netherlands Antilles (Bonaire, Curaçao, Saba, St. Eustasius, and St. Maarten)	None	Not applicable	Not applicable	Not applicable
New Caledonia (France)	None	Not applicable	Not applicable	Not applicable
New Zealand	None	Not applicable	Not applicable	Not applicable
Nicaragua	Present in rural areas. None in Managua	None	<i>P. vivax</i> 95% <i>P. falciparum</i> 5%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Niger	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Nigeria	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%–10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Niue (New Zealand)	None	Not applicable	Not applicable	Not applicable
Norfolk Island (Australia)	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Northern Mariana Islands (U.S.), includes Saipan, Tinian, and Rota Island	None	Not applicable	Not applicable	Not applicable
Norway	None	Not applicable	Not applicable	Not applicable
Oman	None	Not applicable	Not applicable	Not applicable
Pakistan	All areas (including all cities) at altitudes <2,500 m (<8,202 ft)	Chloroquine	<i>P. falciparum</i> 70% <i>P. vivax</i> 30%	Atovaquone/proguanil, doxycycline, or mefloquine
Palau	None	Not applicable	Not applicable	Not applicable
Panama	Present in rural areas of the provinces of Bocas Del Toro, Darién, Veraguas, San Blas and San Blas Islands. None in Panama City or in the former Canal Zone	Chloroquine	<i>P. vivax</i> 90%-95% <i>P. falciparum</i> 5%-10%	Bocas Del Toro: Atovaquone/ proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵ Darién, San Blas, and Veraguas provinces: Atovaquone/ proguanil, doxycycline, mefloquine, or primaquine ⁵
Papua New Guinea	Present throughout at altitudes <1,800 m (<5,906 ft)	Chloroquine (both <i>P. falciparum</i> and <i>P. vivax</i>)	<i>P. falciparum</i> 65%-80% <i>P. vivax</i> 10%-30% <i>P. malariae</i> and <i>P. ovale</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Paraguay	Present in the departments of Alto Paraná, Caaguazú, and Canendiyú	None	<i>P. vivax</i> 95% <i>P. falciparum</i> 5%	Atovaquone/proguanil, chloroquine, doxycycline, mefloquine, or primaquine ⁵
Peru	All departments <2000 m (6,561 ft) except none in Arequipa, Moquegua, Puno, and Tacna. Present in Puerto Maldonado. No malaria in highland tourist areas (Cuzco, Machu Picchu, and Lake Titicaca).	Chloroquine	<i>P. vivax</i> 70% <i>P. falciparum</i> 30% <i>P. malariae</i> <1%	Lima, coastal areas south of Lima, or the highland tourist areas (Cuzco, Machu Picchu, and Lake Titicaca): Mosquito avoidance only Other areas: Atovaquone/ proguanil, doxycycline, or

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Philippines	Present in rural areas <600 m (<1,969 ft) on islands of Luzon, Palawan, and Mindanao. None in urban areas	Chloroquine	<i>P. falciparum</i> 70%-80% <i>P. vivax</i> 20%-30%	mefloquine Atovaquone/proguanil, doxycycline, or mefloquine
Pitcairn Islands (U.K.)	None	Not applicable	Not applicable	Not applicable
Poland	None	Not applicable	Not applicable	Not applicable
Portugal	None	Not applicable	Not applicable	Not applicable
Puerto Rico (U.S.)	None	Not applicable	Not applicable	Not applicable
Qatar	None	Not applicable	Not applicable	Not applicable
Réunion (France)	None	Not applicable	Not applicable	Not applicable
Romania	None	Not applicable	Not applicable	Not applicable
Russia	Rare local cases by border with Azerbaijan	None	<i>P. vivax</i> 100%	By border with Azerbaijan: Mosquito avoidance only
Rwanda	All	Chloroquine	<i>P. falciparum</i> >85% <i>P. vivax</i> 5% <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Saint Helena (U.K.)	None	Not applicable	Not applicable	Not applicable
Saint Kitts (Saint Christopher) and Nevis (U.K.)	None	Not applicable	Not applicable	Not applicable
Saint Lucia	None	Not applicable	Not applicable	Not applicable
Saint Pierre and Miquelon (France)	None	Not applicable	Not applicable	Not applicable
Saint Vincent and the Grenadines	None	Not applicable	Not applicable	Not applicable
Samoa (formerly Western Somoa)	None	Not applicable	Not applicable	Not applicable
Samoa, American (U.S.)	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
San Marino	None	Not applicable	Not applicable	Not applicable
São Tomé and Príncipe	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> 15% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Saudi Arabia	Provinces of Al Madinah, Asir (excluding the high-altitude areas >2,000 m), Jazan, and Mecca. None in cities of Jeddah, Mecca, Medina, Riyadh, and Ta'if	Chloroquine	<i>P. falciparum</i> predominantly <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Senegal	All	Chloroquine	<i>P. falciparum</i> >85% <i>P. ovale</i> 5%-10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Serbia	None	Not applicable	Not applicable	Not applicable
Seychelles	None	Not applicable	Not applicable	Not applicable
Sierra Leone	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 15%	Atovaquone/proguanil, doxycycline, or mefloquine
Singapore	None	Not applicable	Not applicable	Not applicable
Slovakia	None	Not applicable	Not applicable	Not applicable
Slovenia	None	Not applicable	Not applicable	Not applicable
Solomon Islands	All	Chloroquine	<i>P. falciparum</i> 60% <i>P. vivax</i> 35%-40% <i>P. ovale</i> <1%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance²	Malaria Species³	Recommended Chemoprophylaxis⁴
Somalia	All	Chloroquine	<i>P. falciparum</i> 95% <i>P. vivax</i> , <i>P. malariae</i> , and <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
South Africa	Present in the Mpumalanga Province, Limpopo (Northern) Province, and northeastern KwaZulu-Natal as far south as the Tugela River. Present in Kruger National Park	Chloroquine	<i>P. falciparum</i> 90% <i>P. vivax</i> 5% <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
South Georgia and the South Sandwich Islands	None	Not applicable	Not applicable	Not applicable
Spain	None	Not applicable	Not applicable	Not applicable
Sri Lanka	All areas, except none in the districts of Colombo, Galle, Gampaha, Kalutara, Matara, and Nuwara Eliya.	Chloroquine	<i>P. vivax</i> 88% <i>P. falciparum</i> 12%	Atovaquone/proguanil, doxycycline, or mefloquine
Sudan	All	Chloroquine	<i>P. falciparum</i> 90% <i>P. malariae</i> , <i>P. vivax</i> and <i>P. ovale</i> 10%	Atovaquone/proguanil, doxycycline, or mefloquine
Suriname	All areas, except none in Paramaribo	Chloroquine	<i>P. falciparum</i> 70% <i>P. vivax</i> 15%–20%	Atovaquone/proguanil, doxycycline, or mefloquine
Swaziland	Present in the northern and eastern areas bordering Mozambique and Zimbabwe, including all of Lubombo district	Chloroquine	<i>P. falciparum</i> 90% <i>P. vivax</i> 5% <i>P. ovale</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Sweden	None	Not applicable	Not applicable	Not applicable
Switzerland	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Syria	Rare cases in the northern border in El Hassaka province	None	<i>P. vivax</i> predominantly	Mosquito avoidance only
Taiwan	None	Not applicable	Not applicable	Not applicable
Tajikistan	All areas <2,000 m (<6,562 ft)	Chloroquine	<i>P. vivax</i> 90% <i>P. falciparum</i> 10%	Atovaquone/proguanil, doxycycline, mefloquine, or primaquine ⁵
Tanzania	All areas at altitudes <1,800 m (<5,906 ft)	Chloroquine	<i>P. falciparum</i> >85% <i>P. malariae</i> and <i>P. ovale</i> >10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Thailand	Rural, forested areas that border Cambodia, Laos, and Myanmar (Burma). Rare local cases in Phang Nga and Phuket. None in cities and in major tourist resorts. None in cities of Bangkok, Chiang Mai, Chiang Rai, Pattaya, Koh Samui, and Koh Phangan	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> 50% (up to 75% some areas) <i>P. vivax</i> 50% (up to 60% some areas) <i>P. ovale</i> , rare	Phang Nga and Phuket: Mosquito avoidance only All other areas: Atovaquone/ proguanil or doxycycline.
Timor-Leste (East Timor)	All	Chloroquine	<i>P. falciparum</i> 50% <i>P. vivax</i> 50% <i>P. ovale</i> <1% <i>P. malariae</i> <1%	Atovaquone/proguanil, doxycycline, or mefloquine
Togo	All	Chloroquine	<i>P. falciparum</i> 85% <i>P. ovale</i> 5%-10% <i>P. vivax</i> rare	Atovaquone/proguanil, doxycycline, or mefloquine
Tokelau (New Zealand)	None	Not applicable	Not applicable	Not applicable
Tonga	None	Not applicable	Not applicable	Not applicable
Trinidad and Tobago	None	Not applicable	Not applicable	Not applicable
Tunisia	None	Not applicable	Not applicable	Not applicable

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Turkey	Present by border with Syria. None on the Incerlik U.S. Air Force base and on typical cruise itineraries	None	<i>P. vivax</i> and <i>P. falciparum</i> present	Atovaquone/proguanil, chloroquine, doxycycline, or mefloquine
Turkmenistan	Rare local cases by Afghanistan border	None	<i>P. vivax</i> 100%	Mosquito avoidance only
Turks and Caicos Islands (U.K.)	None	Not applicable	Not applicable	Not applicable
Tuvalu	None	Not applicable	Not applicable	Not applicable
Uganda	All	Chloroquine	<i>P. falciparum</i> >85% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> <15%	Atovaquone/proguanil, doxycycline, or mefloquine
Ukraine	None	Not applicable	Not applicable	Not applicable
United Arab Emirates	None	Not applicable	Not applicable	Not applicable
United Kingdom (with Channel Islands and Isle of Man)	None	Not applicable	Not applicable	Not applicable
United States	None	Not applicable	Not applicable	Not applicable
Uruguay	None	Not applicable	Not applicable	Not applicable
Uzbekistan	Rare cases along the Afghanistan and Tajikistan border	None	<i>P. vivax</i> 100%	Mosquito avoidance only
Vanuatu	All	Chloroquine	<i>P. falciparum</i> 60% <i>P. vivax</i> 35%–40% <i>P. ovale</i> <1%	Atovaquone/proguanil, doxycycline, or mefloquine
Venezuela	Rural areas of the following states: Apure, Amazonas, Barinas, Bolivar, Sucre, Tachira, and Delta Amacuro. Present in Angel Falls. None in Margarita Island	Chloroquine	<i>P. vivax</i> 80%–90% <i>P. falciparum</i> 10%–20%	Atovaquone/proguanil, doxycycline, or mefloquine

Country	Areas with Malaria	Drug resistance ²	Malaria Species ³	Recommended Chemoprophylaxis ⁴
Vietnam	Rural, forested areas, except none in the Red River delta and the coast north of Nha Trang. None in Can Tho, Da Nang, Haiphong, Hanoi, Ho Chi Minh City (Saigon), Hue, Nha Trang, and Qui Nhon	Chloroquine Mefloquine (see Map 2-9)	<i>P. falciparum</i> 50%–80% <i>P. vivax</i> 20%–50%	Southern part of the country in the provinces of Dac Lac, Gia Lai, Khanh Hoa, Kon Tum, Lam Dong, Ninh Thuan, Song Be, Tay Ninh: Atovaquone/ proguanil or doxycycline All other areas: Atovaquone/ proguanil, doxycycline, or mefloquine
Virgin Islands, British	None	Not applicable	Not applicable	Not applicable
Virgin Islands, U.S.	None	Not applicable	Not applicable	Not applicable
Western Sahara	Rare cases	None	Unknown	Mosquito avoidance only
Yemen	All areas at altitudes <2,000 m (<6,561 ft). None in Sana'a	Chloroquine	<i>P. falciparum</i> 95% <i>P. malariae</i> , <i>P. ovale</i> and <i>P. vivax</i> 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Zambia	All	Chloroquine	<i>P. falciparum</i> >90% <i>P. vivax</i> up to 5% <i>P. ovale</i> up to 5%	Atovaquone/proguanil, doxycycline, or mefloquine
Zimbabwe	All	Chloroquine	<i>P. falciparum</i> >90% <i>P. vivax</i> up to 5% <i>P. ovale</i> up to 5%	Atovaquone/proguanil, doxycycline, or mefloquine

¹ The information presented herein was accurate at the time of publication; however, factors that can change rapidly and from year to year, such as local weather conditions, mosquito vector density, and prevalence of infection, can markedly affect local malaria transmission patterns. Updated information may be found on the CDC Travelers' Health website at www.cdc.gov/travel.

² Refers to *P. falciparum* malaria.

³ Estimates of malaria species are based on best available data from multiple sources.

⁴ Several medications are available for chemoprophylaxis. When deciding which drug to use, consider specific itinerary, length of trip, cost of drug, previous adverse reactions to antimalarials, drug allergies,

and current medical history. All travelers should seek medical attention in the event of fever during or after return from travel to areas with malaria.

⁵ Primaquine can cause hemolytic anemia in persons with G6PD deficiency. Patients must be tested and documented to have a normal level of G6PD activity prior to starting primaquine.