



## SUGGESTED VACCINATIONS FOR FOREIGN TRAVEL, PART II

No. 23b, 2005

	Grp 1	Grp 2	Grp 3	Grp 4
Cap Verde Rep.		ADV <sup>9</sup> <sub>11</sub>	ADTBV <sup>9</sup> <sub>11</sub>	ADTBsv <sup>9</sup> <sub>11</sub>
Central African Rep.	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Chad	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Chagos Is. (UK)		AD	ADTB	ADTBrs
Comoro Is.	AX	ADX	ADTBX	ADTBrsX
Congo	GX	AGDX	AGDMTBX	AGDMTBrsX
Dem. Rep. Congo (Zaire)	AGX	AGDX	AGDMTBX	AGDMTBrsX
Djibouti	AX	ADX	ADMtBX	ADMtBrsX
Egypt		AD	ADTB	ADTBrs
Equatorial Guinea	AGX	AGDX	AGDMTBX	AGDMTBrsX
Eritrea	AX	ADX	ADMtBX	ADMtBrsX
Ethiopia	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Adis Ababa	AG	AGDM	AGDMTB	AGDMTBrs
Gabon	GX	AGDX	AGDMTBX	AGDMTBrsX
Gambia	AGX	AGDX	AGDMTBX	AGDMTBrsX
Ghana	GX	AGDM*X	AGDM*TBX	AGDM*TBrsX
Guinea	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Guinea-Bissau	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Ivory Coast	GX	AGDMX	AGDMTBX	AGDMTBrsX
Kenya	GX	AGDX	AGDMTBX	AGDMTBrsX
Nairobi	G	AGD	AGDTB	AGDTBrs
Lesotho	A	AD	ADTB	ADTBrs
Liberia	AGX	AGDX	AGDMTBX	AGDMTBrsX
Libya		AD	ADTB	ADTBrs
Madagascar	AX	ADX	ADTBX	ADTBrsX
Malawi	AX	ADX	ADTBX	ADTBrsX
Mali	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Mauretania	Au	AGDu	AGDMTBu	AGDMTBrsu
Mauritius		AD	ADTB	ADTBrs
Mayotte Is. (FR)	X	ADX	ADTBX	ADTBrsX
Morocco		ADV <sup>5</sup> <sub>9</sub>	ADTBv <sup>5</sup> <sub>9</sub>	ADTBrsv <sup>5</sup> <sub>9</sub>
Mozambique	AX	ADMX	ADMtBX	ADMtBrsX
Namibia		ADx	ADTBx	ADTBrsx
Niger	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Nigeria	GX	AGDM*X	AGDM*TBX	AGDM*TBrsX
Réunion (FR)		AD	ADTB	ADTBrs
Rwanda	AGX	AGDMTX	AGDMTBX	AGDMTBrsX
Sao Tomé/Príncipe	AGX	AGDX	AGDTBX	AGDTBrsX
Senegal	GX	AGDMX	AGDMTBX	AGDMTBrsX
Seychelles		AD	ADTB	ADTBrs
Sierra Leone	AGX	AGDX	AGDMTBX	AGDMTBrsX
Somalia	AGX	AGDX	AGDMTBX	AGDMTBrsX
Sudan	AGX	AGDMX	AGDMTBX	AGDMTBrsX
Swaziland	x	ADx	ADTBx	ADTBrsx
South African Rep.		ADx	ADTBx	ADTBrsx
Tanzania	AGX	AGDX	AGDMTBX	AGDMTBrsX
Togo	AGX	AGDM*X	AGDM*TBX	AGDM*TBrsX
Tunesia		AD	ADTB	ADTBrs
Uganda	AGX	AGDX	AGDMTBX	AGDMTBrsX
Zambia	AX	ADMX	ADMtBX	ADMtBrsX
Zimbabwe	X	ADX	ADTBX	ADTBrsX
Harare, Bulawayo		AD	ADTB	ADTBrs

### Cholera vaccination

Cholera vaccination may be considered to protect short-time travellers against traveller's diarrhoea caused by enterotoxin producing *E. coli* (ETEC), EPI-NEWS 44/98.

### Special authority requirements

Residence/transit in countries where yellow fever can occur may require vaccination at a later stage of the journey (yellow fever map, EPI-NEWS 24/04). Meningococcus vaccination against group A+C+W135+Y is required on pilgrimage to Saudi Arabia, for children from three months of age, EPI-NEWS 50/04.

### Malaria prophylaxis

The most important precaution consists of primary prevention of mosquito bites with repellent/net/spray. Five different pharmacological prophylaxis regimes are discussed below:

**Chloroquine:** In the event of low risk of falciparum malaria or high sensitivity to chloroquine.

Can be used in children and pregnant women.

**Chloroquine+proguanil:** In the event of high risk of falciparum malaria with reduced sensitivity to chloroquine. Can be used in children and pregnant women.

**Mefloquine:** Effective against *P. falciparum* strains resistant to other malaria remedies.

Contraindicated in pregnant women, and pregnancy should be avoided in the first three months after taking mefloquine.

Mefloquine should not be used prophylactically in children under 3 months of age and infants weighing less than 5 kg, or in people with epilepsy or previous neuropsychiatric illness. If mefloquine cannot be used due to the limitations mentioned above, doxycycline or Malarone will be the alternatives.

**Doxycycline** is efficacious against *P. falciparum* strains resistant to other antimalarial agents.

A Hepatitis A  
B: Hepatitis B  
D Diphtheria  
f: SSME/TBE

G: Yellow fever  
J: Japanese encephalitis  
M: Meningococcus A+C  
M\* Meningococcus A+C+W135+Y

r: Rabies  
s: Tuberculosis  
T: Typhoid fever  
V Mosquito bite prophylaxis

Q Chloroquine  
U: Chloroquine + proguanil  
X: Mefloquine/Malarone/doxycycline  
Z: Doxycycline/Malarone

ASIA:	Grp 1	Grp 2	Grp 3	Grp 4
Afghanistan	AD	ADX <sup>5</sup> <sub>11</sub>	ADTBX <sup>5</sup> <sub>11</sub>	ADTBrsX <sup>5</sup> <sub>11</sub>
Armenia	D	ADV <sup>6</sup> <sub>10</sub>	ADTBv <sup>6</sup> <sub>10</sub>	ADTBrsv <sup>6</sup> <sub>10</sub>
Azerbaijan	D	ADV <sup>6</sup> <sub>10</sub>	ADTBv <sup>6</sup> <sub>10</sub>	ADTBrsv <sup>6</sup> <sub>10</sub>
Bahrain		A	ADTB	ADTBs
Bangladesh	A	AX	ADJ <sup>7</sup> <sub>12</sub> MTBrX	ADJ <sup>7</sup> <sub>12</sub> MTBrsX
Bhutan	A	Ax	ADJ <sup>6</sup> <sub>1</sub> MTBrx	ADJ <sup>6</sup> <sub>1</sub> MTBrsx
Brunei		A	ADJTB	ADJTBs
Cambodia	A	AZ	ADJ <sup>5</sup> <sub>10</sub> TBrZ	ADJ <sup>5</sup> <sub>10</sub> TBrsZ
China, north of latitude 25°		Aq <sup>5</sup> <sub>12</sub>	ADJ <sup>5</sup> <sub>9</sub> TBq <sup>5</sup> <sub>12</sub>	ADJ <sup>5</sup> <sub>9</sub> TBrsq <sup>5</sup> <sub>12</sub>
China, south of latitude 25°		Aq	ADJ <sup>4</sup> <sub>10</sub> TBq	ADJ <sup>4</sup> <sub>10</sub> TBrsq
Hainan, Yunnan	X	AX	ADJ <sup>4</sup> <sub>10</sub> TBX	ADJ <sup>4</sup> <sub>10</sub> TBrsX
Hong Kong		A	ADTB	ADTBs
Cyprus		A	ADT	ADTB
East Timor	X	AX	ADJTBX	ADJTBrsX
Georgia	D	ADV <sup>7</sup> <sub>10</sub>	ADTBv <sup>7</sup> <sub>10</sub>	ADTBrsv <sup>7</sup> <sub>10</sub>
India, north	v	Au	ADJ <sup>7</sup> <sub>12</sub> TBru	ADJ <sup>7</sup> <sub>12</sub> MTBrsu
Assam	v	AX	ADJ <sup>7</sup> <sub>12</sub> TBrX	ADJ <sup>7</sup> <sub>12</sub> MTBrsX
India, south	v	Au	ADJTBru	ADJTBrsu
Indonesia		AX	ADJTBX	ADJTBrsX
Bali, Java (tourist areas)		A	ADJTB	ADJTBs
Irian Jaya	X	AX	ADJTBX	ADJTBrsX
Iran		Ax <sup>3</sup> <sub>11</sub>	ADTBx <sup>3</sup> <sub>11</sub>	ADTBrsx <sup>3</sup> <sub>11</sub>
Iraq		Aq <sup>5</sup> <sub>11</sub>	ADTBq <sup>5</sup> <sub>11</sub>	ADTBrsq <sup>5</sup> <sub>11</sub>
Israel		A	ADTB	ADTB
Japan			ADJ <sup>4</sup> <sub>10</sub> T	ADJ <sup>4</sup> <sub>10</sub> TB
Jordan		A	ADTB	ADTBr
Kazakstan	D	AD	ADTB	ADTBrs
Kirgizia	D	ADV <sup>6</sup> <sub>10</sub>	ADTBv <sup>6</sup> <sub>10</sub>	ADTBrsv <sup>6</sup> <sub>10</sub>
Kuwait		A	ADTB	ADTBrs
Laos	A	AX	ADJ <sup>5</sup> <sub>10</sub> TBX	ADJ <sup>5</sup> <sub>10</sub> TBrsX
Lebanon		A	ADTB	ADTBr
Macau, Port of		A	ADTB	ADTB
Malaysia, including				
Sabah & Sarawak		Ax	ADJTBx	ADJTBrsx
Maldives		A	ADTB	ADTBs
Mongolian Rep.		A	ADTB	ADMTBrs
Myanmar (Burma)	A	AZ	ADJ <sup>5</sup> <sub>10</sub> MTBrZ	ADJ <sup>5</sup> <sub>10</sub> MTBrsZ
Nepal	A	Au	ADJ <sup>7</sup> <sub>12</sub> TBru	ADJ <sup>7</sup> <sub>12</sub> MTBrsu
North Korea	A	Av	ADJ <sup>5</sup> <sub>10</sub> TBv	ADJ <sup>5</sup> <sub>10</sub> TBrsv
Oman		A	ADTB	ADTBr
Pakistan	X	AX	ADJ <sup>6</sup> <sub>1</sub> TBrX	ADJ <sup>6</sup> <sub>1</sub> TBrsX
Philippines		Ax	ADJTBx	ADJTBrsx
Qatar		A	ADTB	ADTB
Saudi Arabia		Ax	ADTBx	ADTBrsx
Mecca (Hajj)	M*	AM*	ADM*TB	ADM*TBs
Singapore		A	ADTB	ADTBs
Sri Lanka		Au	ADJTBru	ADJTBrsu
South Korea		Av	ADJ <sup>7</sup> <sub>10</sub> TBv	ADJ <sup>7</sup> <sub>10</sub> TBrsv
Syria		Av <sup>5</sup> <sub>10</sub>	ADTBv <sup>5</sup> <sub>10</sub>	ADTBrsv <sup>5</sup> <sub>10</sub>
Taiwan		A	ADJ <sup>4</sup> <sub>10</sub> TB	ADJ <sup>4</sup> <sub>10</sub> TBrs
Tajikistan	D	ADU <sup>6</sup> <sub>10</sub>	ADTBu <sup>6</sup> <sub>10</sub>	ADTBrsu <sup>6</sup> <sub>10</sub>
Thailand		Az	ADJ <sup>5</sup> <sub>10</sub> TBrz	ADJ <sup>5</sup> <sub>10</sub> TBrsz
standard tourist areas		Av	ADJ <sup>5</sup> <sub>10</sub> TBv	ADJ <sup>5</sup> <sub>10</sub> TBrsv
Turkey		Aq <sup>5</sup> <sub>9</sub>	ADTq <sup>5</sup> <sub>9</sub>	ADTBrsq <sup>5</sup> <sub>9</sub>
standard tourist areas		A	ADT	ADTBs
Turkmenistan	D	ADV <sup>6</sup> <sub>9</sub>	ADTBv <sup>6</sup> <sub>9</sub>	ADTBrsv <sup>6</sup> <sub>9</sub>
United Arab Emirates		AD	ADTB	ADTBr
Uzbekistan	D	ADV	ADMTBv	ADMTBrsv
Vietnam		Az	ADJ <sup>5</sup> <sub>10</sub> TBz	ADJ <sup>5</sup> <sub>10</sub> TBrsz
Yemen	A	AX	ADTBX	ADTBrsX

A: Hepatitis A  
B: Hepatitis B  
D: Diphtheria  
f: SSME/TBE  
G: Yellow fever  
J: Japanese encephalitis  
M: Meningococcus A+C  
M\*: Meningococcus A+C+W135+Y

r: Rabies  
s: Tuberculosis  
T: Typhoid fever  
V: Mosquito bite protection

Q: Chloroquine  
U: Chloroquine + proguanil  
X: Mefloquine/Malarone/doxycycline  
Z: Doxycycline/Malarone

Doxycycline is contraindicated in pregnant women and children under the age of twelve, EPI-NEWS 19/05.

Malarone is efficacious against strains of *P. falciparum* resistant to other antimalarial agents. As far as possible, Malarone is not to be used during pregnancy and it cannot be recommended for breast-feeding women, EPI-NEWS 51/98 and 19-20/02. Treatment of children: EPI-NEWS 19-20/99 and 19/05.

#### Malaria self-treatment

When residing for a longer period in risk areas, where medical treatment or drugs cannot be expected to be accessible, drugs may be dispensed for self-treatment. An agent not included in the prophylaxis should be chosen: If chloroquine has been used, possibly in combination with proguanil, mefloquine or Malarone is recommended.

Quinine should only be used for self-treatment in exceptional cases, EPI-NEWS 19/03, if mefloquine has been used for primary prophylaxis. In that case, Malarone can be used.

Another alternative is the drug artemisinin, which is used for treatment in parts of Africa and Asia. The agent has not been registered in Denmark.

Halofantrine is available in many countries, but should not be used, EPI-NEWS 25/95.

#### Travel medicine on the net

Current information about outbreaks and more detailed information about the individual countries and diseases can be found on:

[www.who.int/csr/don/en](http://www.who.int/csr/don/en)

[www.who.int/ith](http://www.who.int/ith)

[www.cdc.gov/travel](http://www.cdc.gov/travel)

[www.promedmail.org/pls/askus/f?p=2400:1000](http://www.promedmail.org/pls/askus/f?p=2400:1000)

(P.H. Andersen, C. Kjelsø, Department of Epidemiology)

8 June 2005