
ANNEXES

- Annex 1.** Methods for preparing the country profiles
- Annex 2.** Reported malaria cases and deaths, 2008
- Annex 3.** A – Reported malaria cases, 1990–2008
B – Reported malaria deaths, 1990–2008
- Annex 4.** A – Recommended policies and strategies for malaria control, 2009
B – Antimalarial drug policy, 2009
- Annex 5.** Operational coverage of ITNs, IRS and antimalarial treatment, 2007–2008
- Annex 6.** A – Household surveys of mosquito nets ownership and usage, 2006–2008
B – Household surveys of antimalarial treatment, 2006–2008
- Annex 7.** Funding for malaria control, 2008

Annex 1. Methods for preparing the country profiles

This annex describes the methods used for preparing country profiles but which also apply to other sections.

A.1 Epidemiological profile

Population

The total population of each country is taken from the World population prospects, 2008 revision (1). The population of children < 5 years of age is also given, as this age group is particularly susceptible to malaria infection and disease.

Population by malaria endemicity

The country population is subdivided into three levels of malaria endemicity, as reported by the national malaria control programme:

1. Areas of high transmission, where the reported incidence of malaria due to all species was 1 or more per 1000 population per year in 2008
2. Areas of low transmission, where the reported malaria case incidence from all species was < 1 per 1000 population per year in 2008 but greater than 0. Transmission in these areas is generally highly seasonal, with or without epidemic peaks.
3. Malaria-free areas, where there is no continuing, local, mosquito-borne malaria transmission, and all reported malaria cases are imported (2). An area is designated malaria-free when no cases have occurred for several years. Areas may be malaria-free due to environmental factors or as a result of effective control efforts. In practice, malaria-free areas can be accurately designated by national programmes only after taking into account the local epidemiological situation and the results of entomological and biomarker investigations. If a national malaria control programme did not provide the number of people living in high- and low-risk areas, the numbers were inferred from subnational case incidence data provided by the programme.

Population at risk

The total population living in areas where malaria is endemic (low and high transmission), excluding the population living in malaria-free areas. The population at risk is often used as the denominator in calculating operational coverage of malaria interventions, and hence in assessing current and future needs, taking into account the population already covered.

Maps of malaria, country profiles

Epidemiological maps for each country are based on the malaria cases reported in 2008 at the first or lower administrative levels.

Four levels of endemicity are depicted:

- ≥ 100 cases per 1000 population per year;
- ≥ 1 cases per 1000 population per year and < 100 cases;

- < 1 case per 1000 population per year but > zero; and
- 0 recorded cases.

The first two categories correspond to the high-transmission category described above. It should be noted that case incidence rates for 2008 do not necessarily reflect the endemicity of areas in previous years. If subnational data on population or malaria cases were lacking, an administrative unit was labelled "no data" on the map. In some cases, the subnational data provided by a malaria control programme did not correspond to a mapping area known to WHO. This may be the result of modifications to administrative boundaries or the use of names not verifiable by WHO.

Vector and parasite profile

The species of mosquito responsible for malaria transmission in a county and the species of *Plasmodium* involved are listed according to information provided by WHO regional offices.

Reported malaria cases

Reported malaria cases = probable + confirmed.

Probable malaria cases = suspected cases not tested, but reported as malaria

In high transmission countries of the WHO African Region, where there is no adequate parasitological testing, probable cases are usually equal to suspected malaria cases.

Slide examination, case confirmation, *Plasmodium spp.*

A table in the epidemiological profile gives the reported number of slides examined, the number positive and the number with a *P. falciparum* infection (including mixed *P. falciparum* and *P. vivax*). The graph shows four indicators:

- **percentage of cases examined microscopically:** number of cases examined under a microscope or with a RDT in every 100 suspected malaria cases. It indicates the extent to which a programme can provide diagnostic services to patients attending health facilities.
- **percentage of cases confirmed:** number of confirmed malaria cases per 100 reported (probable and confirmed) malaria cases. This indicates the extent to which a country programme depends on confirmation of malaria cases for diagnosis, treatment and epidemiological assessment.
- **malaria test positivity rate:** number of parasitologically positive cases per 100 cases examined (by RDT or microscopically). This measures the prevalence of malaria parasites among people who seek care and are examined in health facilities.
- **percentage of cases with *P. falciparum* infection:** number of *P. falciparum* cases per 100 microscopically confirmed malaria cases.

A.2 Intervention policies and targets

This section of the profile shows the policies and strategies adopted by each country for malaria prevention, diagnosis and treatment. Policies may vary according to the epidemiological setting, socio-economic factors and the capacity of the national malaria programme or country health system. Adoption of policies does not necessarily imply immediate implementation, nor does it indicate full, continuous implementation nationwide. Policies and strategies are divided into those recommended by WHO and those that are optional. WHO-recommended policies and strategies include (see also Chapter 2):

- provision of free or highly-subsidized long-lasting insecticide-impregnated nets to persons in all age groups at risk for malaria (3);
- use of IRS, including with DDT (4);
- use of intermittent preventive treatment in highly endemic countries with comparatively low levels of resistance to sulfadoxine-pyrimethamine (5);
- parasitological confirmation for persons in all age groups;
- banning of oral artemisinin monotherapies; and
- provision of ACT, free or highly subsidized in the public sector, for malaria cases infected with *P. falciparum* (6).

Optional policies or strategies are those adopted by countries after taking local epidemiological and other circumstances into account. "Yes" implies that the policy or strategy is adopted regardless of the scale of implementation; "No" implies that the policy is not adopted; and "Not applicable" implies that the policy is irrelevant to the country situation. The year of adoption of a policy is that in which it was approved by a national malaria control programme. It does not take into account any change that may have occurred after the reports were received.

A.3 Implementing malaria control

Coverage with ITNs, from survey data

The percentage of households that own at least one mosquito net and the percentage of children under 5 years who slept under a net are taken from nationally representative household surveys, such as multiple indicator cluster surveys, demographic health surveys and malaria indicator surveys. Other available national surveys were also included. The results of subnational surveys undertaken to support local project implementation are difficult to interpret nationwide and hence are not presented in the profiles, although they can be useful for assessing progress locally. It should be noted that most multiple indicator cluster and demographic health surveys are conducted during the dry season, for logistical reasons, and the estimates may not reflect use during peak malaria transmission (when ITN use may be higher).

Coverage with IRS and ITNs from programme data

Because many countries do not have recent national survey data, the numbers of mosquito nets distributed and houses sprayed were derived from the national malaria control programme and used to estimate operational coverage with ITNs and IRS. "Administrative" or operational coverage with ITN was calculated as the number of ITNs

distributed, divided by the population at risk (sum of populations living in low- and high-transmission areas) divided by 2 (a ratio of one ITN for every two persons, following WHO recommendations) and multiplied by 100 (2). As, on average, long-lasting insecticidal nets are considered to have a useful lifespan of 3 years, the cumulative total of mosquito nets distributed over the past 3 years is taken as the numerator for any particular year. Other ITNs are considered to have an average lifespan of 1 year; some nets will be effective for longer if re-treated with insecticide. Therefore, the numerator for long-lasting insecticidal nets and ITNs is the sum of the cumulative long-lasting insecticidal nets of the latest 3 years and the number of ITNs during the latest year. Re-treatment is not taken into account in this report and is in any case becoming less frequent with the advent of the long-lasting insecticidal nets. Such operational estimates contain no information about the geographical distribution of ITNs or their distribution within households. ITNs may be clustered in certain subpopulations, thus depriving others at risk, and the number of ITNs delivered to a household may exceed or fall short of the recommended ratio of one net per two people.

Operational coverage with IRS is calculated as the number of people living in a household where IRS has been conducted during the preceding 12 months, divided by the population at risk (the sum of populations living in low- and high-transmission areas) multiplied by 100. Respondents were asked to convert, where necessary, records of the number of built structures sprayed to number of households, where the average household consists of more than one structure. The number of people protected by IRS, provided by national malaria control programmes, was taken as the numerator. Programme data are the most important source of information for estimating coverage, as household surveys do not generally include questions on IRS. In addition, IRS is often focalized, carried out on a limited geographical scale, for which nationally representative household surveys may not provide an adequate sample size for coverage to be measured accurately. The percentage of people protected by IRS is a measure of the extent to which IRS is implemented or the extent to which the population at risk benefits from IRS nationwide. The data show neither the quality of spraying nor the geographical distribution of IRS coverage in a country, which is typically focal.

Access by febrile children to effective treatment, from survey data

Estimates of the percentage of children under 5 years of age with fever who were treated with antimalarial medicines, together with the type of antimalarial medicine, were obtained from nationally representative household surveys such as multiple indicator cluster, demographic health and malaria indicator surveys. These estimates should be interpreted with the following provisos:

- Not all cases of fever are malaria, particularly in low-transmission areas, so 100% of febrile children cannot be expected to receive an antimalarial agent, particularly if they seek formal health care and laboratory diagnosis excludes malaria.
- Most multiple indicator cluster and demographic health surveys are conducted during the dry season, and the data may not reflect the year-round incidence of malarial disease or the provision of antimalarial treatment during the period of peak incidence.
- As it may be difficult to exclude some non-malarious areas from the analysis, the rates of antimalarial treatment relative to the estimated need may appear unduly low.

- Respondents to household surveys may not recall accurately the type of medicine given to children. The graph in the profile shows the use of any antimalarial agent and use of ACT. Access to ACT may also appear unduly low in countries where chloroquine is used to treat *P. vivax*, especially where *P. vivax* causes a high proportion of malaria cases. As ACT was introduced comparatively recently, surveys commonly report only on the use of any antimalarial agent.
- In the absence of diagnosis, care-givers and patients may consider other diseases as the cause of the fever and hence provide other medicines, such as paracetamol or antibiotics.

Access to effective treatment, from programme data

Access to effective treatment is estimated as the number of ACT treatment courses delivered by a national malaria control programme per 100 cases requiring treatment in a year. The number requiring treatment in a year depends not only on the incidence of malaria but also on the rate of case confirmation. In countries in which all cases are confirmed, the number requiring treatment will be the number of confirmed cases. In countries where cases are not confirmed, it will be the number of reported malaria cases.

A.4 Financing malaria control

Government and external financing

National malaria control programme budgets and expenditures may be used to assess the extent to which the programmes can maintain or scale up access to malaria prevention, diagnosis and treatment. The data shown are those reported by the programme. The first graph shows financial contributions by source or name of agency by year. The government contribution is usually the declared government expenditure for the year. When government expenditure was not reported by the programme, the government budget was used. External contributions are contributions allocated to the programme by external agencies, which may or may not be disbursed. Additional information about contributions from specific donors, as reported by the donors themselves, is given in Annex 5.

Breakdown of expenditure by intervention

The pie chart shows the proportion of all malaria funding, spent on different activities: ITNs, IRS, diagnosis, treatment and other programme-related expenses. All countries were requested to convert their local currencies into 2008 US\$. The quantities have not been adjusted for purchasing power parity. When annual plans are completed as anticipated, the amounts shown should be about the same as the total amount received by the programme. Some divergence may occur, however, due to unexpectedly slow or fast disbursement of donor contributions or implementation or to changes in plans, prices and other factors. There may also be differences in the completeness of data, and the expenditures on activities listed may not include all items of expenditure. Despite the various uncertainties associated with these data, the graphs highlight major changes in programme funding and expenditure.

A.5 Sources of information

The sources of data are shown at the end of each profile. The WHO Global Malaria Programme has created a database containing the information used in compiling this Report. The data, together with profiles for all 109 malaria endemic countries, are available from www.who.int/topics/malaria/en/.

References

1. *World population prospects*. New York, United Nations, United Nations Population Division, 2008.
2. *Malaria elimination: a field manual for low and moderate endemic countries*. Geneva, World Health Organization, 2007.
3. *WHO position statement on ITNs*. Geneva, World Health Organization, Global Malaria Programme, Global Malaria Programme, 2007.
4. *Use of indoor residual spraying for scaling up global malaria control and elimination*. Geneva, World Health Organization, 2006 (WHO/HTM/MAL/2006.1112).
5. *A strategic framework for malaria prevention and control during pregnancy in the African Region*. Brazzaville WHO Regional Office for Africa, 2004 (AFRO/MAL/04/01).
6. *Guidelines for the treatment of malaria*. Geneva, World Health Organization, Global Malaria Programme, 2006 (WHO/HTM/MAL/2006.1108).

Annex 2 – Reported malaria cases and deaths, 2008

WHO region	Country/area	Population	Inpatient malaria cases	Malaria attributed deaths	Outpatient malaria cases	Malaria case definition	Mic. slides/ RDTs taken	Mic. slides/ RDTs positive	<i>P. falciparum</i>	<i>P. vivax</i>	Cases at community level
Africa	Algeria	34,373,429	-	-	196	Probable and confirmed	11,964	196	185	10	-
	Angola	18,020,665	106,345	9,465	2,151,072	Probable and confirmed	2,659,344	1,377,992	-	-	-
	Benin	8,662,088	-	-	-	Suspected	-	-	-	-	-
	Botswana	1,921,123	-	12	1,201	Probable and confirmed	-	1,201	-	-	-
	Burkina Faso	15,233,882	356,989	7,834	3,688,338	Suspected	138,414	36,514	-	-	-
	Burundi	8,074,253	16,788	226	876,741	Suspected	1,492,068	876,741	-	-	-
	Cameroon	19,088,388	270,038	7,673	-	Suspected	-	-	-	-	142,121
	Cape Verde	498,672	-	2	35	Probable and confirmed	6,033	35	35	0	-
	Central African Republic	4,339,261	13,116	456	-	Suspected	-	-	-	-	-
	Chad	10,913,667	3,757	1,018	472,460	Suspected	64,171	57,644	24,015	23,742	-
	Comoros	660,723	-	47	-	Suspected	-	-	-	-	-
	Congo	3,615,152	-	-	-	Suspected	-	-	-	-	-
	Côte d'Ivoire	20,591,300	41,189	1,249	-	Suspected	-	-	-	-	-
	Democratic Republic of the Congo	64,703,615	299,158	18,928	4,518,616	Suspected	2,314,880	1,462,300	1,196	27	4,710
	Equatorial Guinea	659,200	7,571	-	77,456	Suspected	59,759	50,758	-	-	-
	Eritrea	4,926,873	3,494	19	4,702	Probable and confirmed	42,482	4,702	1,269	2,028	55,619
	Ethiopia	80,713,435	25,739	1,169	2,532,645	Probable and confirmed	986,323	458,561	274,657	173,300	-
	Gabon	1,448,156	15,459	156	187,714	Suspected	151,137	40,701	40,701	-	-
	Gambia	1,660,200	17,575	403	10,910	Suspected	-	10,910	-	-	-
	Ghana	23,350,928	272,802	3,889	3,200,149	Suspected	827,436	827,438	-	-	-
	Guinea	9,833,056	47,474	441	33,405	Suspected	-	33,405	33,405	-	-
	Guinea-Bissau	1,575,447	-	487	128,758	Suspected	31,083	11,299	-	-	-
	Kenya	38,765,310	-	-	6,078,783	Suspected	-	839,904	839,904	-	-
	Liberia	3,793,394	46,887	345	606,952	Suspected	874,866	606,952	-	-	-
	Madagascar	19,110,939	5,367	276	142,658	Suspected	299,000	89,138	-	-	-
	Malawi	14,846,184	181,248	7,748	-	Suspected	-	-	-	-	-
	Mali	12,705,737	151,910	1,227	-	Suspected	-	-	-	-	-
	Mauritania	3,215,039	10,263	-	302	Suspected	1,555	302	-	-	-
	Mauritius	1,279,800	-	-	-	-	-	-	-	-	-
	Mozambique	22,382,535	120,259	4,424	-	Suspected	-	-	-	-	-
	Namibia	2,129,855	4,907	171	4,907	Probable and confirmed	-	4,907	-	-	-
	Niger	14,704,319	-	2,691	413,252	Suspected	1,466,095	413,252	-	-	185,827
	Nigeria	151,212,257	538,487	8,677	143,079	Suspected	-	143,079	-	-	20,156
	Rwanda	9,720,691	20,018	563	228,015	Probable and confirmed	1,640,106	228,015	-	-	-
	Sao Tome and Principe	160,176	1,049	16	1,647	Probable and confirmed	38,583	1,572	-	-	-
	Senegal	12,211,179	23,719	722	398,881	Suspected	505,045	202,466	33,062	-	73,340
	Sierra Leone	5,559,892	3,554	871	154,459	Suspected	235,600	154,459	-	-	21,907
	South Africa	49,667,629	-	43	-	Probable and confirmed	-	-	-	-	-
	Swaziland	1,167,836	178	5	58	Probable and confirmed	0	58	58	0	-
	Togo	6,458,607	20,014	2,663	898,112	Suspected	273,471	273,471	151,960	-	119,557
	Uganda	31,656,865	154,423	2,372	9,751,004	Suspected	2,173,072	894,505	876,615	-	125,670
	United Republic of Tanzania	42,483,926	1,878	29	67	Suspected	13,183	67	67	-	-
	Zambia	12,620,220	149,964	3,781	-	Suspected	-	-	-	-	-
	Zimbabwe	12,462,881	-	-	493,805	Probable and confirmed	602,941	92,900	-	-	-

WHO region	Inpatient malaria cases and deaths				Reported malaria cases						
	Population	Inpatient malaria cases	Malaria attributed deaths	Outpatient malaria cases	Malaria case definition	Mic. slides/ RDTs taken	Mic. slides/ RDTs positive	<i>P. falciparum</i>	<i>P. vivax</i>	Cases at community level	
Americas											
Argentina	39,882,981	-	-	130	Probable and confirmed	1,104	130	0	130	-	
Bahamas	337,688	-	-	12	Probable and confirmed	35	12	-	-	-	
Belize	300,644	-	-	-	Probable and confirmed	-	-	-	-	-	
Bolivia (Plurinational State of)	9,694,113	-	-	9,894	Probable and confirmed	159,826	9,748	782	8,912	-	
Brazil	191,971,509	4,039	51	315,642	Probable and confirmed	2,721,017	315,642	46,289	286,299	-	
Colombia	45,012,093	223	22	80,559	Probable and confirmed	465,381	80,559	21,475	56,838	-	
Costa Rica	4,519,126	-	-	966	Probable and confirmed	17,304	966	0	966	-	
Dominican Republic	9,952,711	-	9	1,262	Probable and confirmed	153,093	1,262	1,839	1	-	
Ecuador	13,481,427	-	-	-	Probable and confirmed	-	-	-	-	-	
El Salvador	6,133,911	-	-	33	Probable and confirmed	97,872	33	0	32	-	
French Guiana	-	-	-	3,264	Probable and confirmed	11,994	3,264	1,077	920	-	
Guatemala	13,686,129	-	-	514	Probable and confirmed	120,464	514	40	7,148	-	
Guyana	763,437	289	1	11,815	Probable and confirmed	137,247	11,815	5,252	5,920	-	
Haiti	9,876,401	-	-	36,774	Probable and confirmed	168,950	36,774	36,768	6	-	
Honduras	7,318,788	-	-	8,225	Probable and confirmed	119,378	8,225	570	7,615	-	
Jamaica	2,707,664	-	-	86	Probable and confirmed	30,796	86	-	-	-	
Mexico	108,555,486	-	-	2,357	Probable and confirmed	1,246,780	2,357	0	2,357	-	
Nicaragua	5,667,325	-	-	764	Probable and confirmed	533,173	764	61	703	-	
Panama	3,398,820	22	-	744	Probable and confirmed	200,574	744	4	740	-	
Paraguay	6,237,857	-	-	1,341	Probable and confirmed	92,339	1,341	-	-	-	
Peru	28,836,700	-	-	-	Probable and confirmed	-	-	-	-	-	
Suriname	515,123	50	-	2,086	Probable and confirmed	28,137	2,086	802	639	-	
Venezuela (Bolivarian Republic of)	28,120,630	-	-	32,037	Probable and confirmed	414,137	32,037	5,021	26,437	-	
Eastern Mediterranean											
Afghanistan	27,208,326	4,434	46	467,123	Probable and confirmed	549,494	82,564	4,360	78,204	159,509	
Djibouti	849,251	41	-	3,569	Probable and confirmed	2,896	119	119	-	-	
Egypt	81,527,170	-	2	76	Probable and confirmed	-	76	76	-	-	
Iran (Islamic Republic of)	73,311,800	89	3	5,955	Probable and confirmed	218,273	5,955	938	10,337	-	
Iraq	30,096,252	1	0	6	Probable and confirmed	1,105,054	6	2	4	-	
Morocco	31,605,616	-	1	118	Probable and confirmed	-	118	118	-	-	
Oman	2,785,359	-	2	94	Probable and confirmed	-	94	94	-	-	
Pakistan	176,952,123	-	-	2,558,998	Probable and confirmed	2,054,533	59,284	24,550	79,868	-	
Saudi Arabia	25,200,516	-	1	1,491	Probable and confirmed	1,114,841	1,491	833	658	-	
Somalia	8,926,327	-	21	24,136	Probable and confirmed	73,985	23,905	23,427	-	-	
Sudan*	41,347,723	111,934	1,125	3,073,996	Probable and confirmed	127,512	457,362	-	-	-	
Syrian Arab Republic	21,226,921	-	1	46	Probable and confirmed	-	46	46	-	-	
Yemen	-	-	-	-	Probable and confirmed	-	-	-	-	-	

Annex 2 – Reported malaria cases and deaths, 2008 (continued)

WHO region	Country/area	Population	Inpatient malaria cases and deaths			Reported malaria cases					Cases at community level
			Inpatient malaria cases	Malaria attributed deaths	Outpatient malaria cases	Malaria case definition	Mic. slides/ RDTs taken	Mic. slides/ RDTs positive	<i>P. falciparum</i>	<i>P. vivax</i>	
Europe	Armenia	3,077,084	0	-	1	Probable and confirmed	471	1	1	0	
	Azerbaijan	8,730,533	0	0	73	Probable and confirmed	183,949	73	1	72	
	Georgia	4,307,011	0	-	6	Probable and confirmed	6	6	1	7	
	Kyrgyzstan	5,413,644	18	0	18	Probable and confirmed	40,833	18	0	18	
	Russian Federation	141,394,300	-	-	-	Probable and confirmed	-	-	-	-	
	Tajikistan	6,836,084	-	-	318	Probable and confirmed	158,068	318	2	316	
	Turkey	73,914,259	23	3	136	Probable and confirmed	55,856	136	23	191	
	Turkmenistan	5,043,615	1	0	1	Probable and confirmed	75,524	1	-	1	
	Uzbekistan	27,191,284	27	0	27	Probable and confirmed	883,807	27	-	27	
	South-East Asia										
	Bangladesh	160,000,129	3,042	154	168,862	Probable and confirmed	442,506	84,690	70,331	14,409	
	Bhutan	686,787	240	4	329	Probable and confirmed	47,268	329	136	148	
Democratic People's Republic of Korea	23,818,755	-	-	-	Probable and confirmed	-	-	-	-		
Democratic Republic of Timor-Leste	1,098,385	-	31	143,594	Probable and confirmed	92,870	45,973	45,973	11,295		
India	1,181,411,912	-	1,061	1,532,467	Probable and confirmed	95,388,303	1,532,467	771,670	747,971		
Indonesia	227,345,081	-	669	1,206,261	Probable and confirmed	1,243,744	343,048	163,222	175,237		
Myanmar	49,563,015	47,553	1,088	566,204	Probable and confirmed	948,937	411,494	447,993	-		
Nepal	28,809,526	79	-	106,100	Probable and confirmed	153,331	3,888	629	3,096		
Sri Lanka	20,060,639	-	0	670	Probable and confirmed	1,047,104	670	46	623		
Thailand	67,386,383	2,689	101	26,150	Probable and confirmed	1,910,982	26,150	12,108	13,886		
Western Pacific											
Cambodia	14,562,007	4,513	209	42,124	Probable and confirmed	130,995	42,124	15,095	4,625		
China	1,344,919,642	-	23	16,650	Probable and confirmed	4,316,976	16,650	1,222	15,323		
Lao People's Democratic Republic	6,205,337	1,110	13	18,566	Probable and confirmed	262,973	17,648	4,697	247		
Malaysia	27,014,343	3,617	29	5,598	Probable and confirmed	588,489	5,598	2,268	3,820		
Papua New Guinea	6,576,821	23,508	628	1,450,609	Probable and confirmed	246,641	84,452	60,000	16,806		
Philippines	90,348,440	343	-	23,655	Probable and confirmed	287,189	23,655	11,807	4,806		
Republic of Korea	48,152,296	482	0	1,052	Probable and confirmed	1,052	1,052	-	-		
Solomon Islands	510,671	731	21	102,140	Probable and confirmed	279,972	40,535	29,492	11,173		
Vanuatu	233,866	257	1	3,477	Probable and confirmed	30,267	3,477	1,579	1,850		
Viet Nam	87,095,913	8,758	25	11,355	Probable and confirmed	1,369,452	11,355	8,901	2,348		

Notes:

Mayotte is one of the 108 countries/areas with malarious areas but is not included in the annexes.
Mauritius is one of the countries listed but it has had no ongoing local transmission for over a decade.
*Data for Sudan only represents 15 northern states.

Annex 3.A – Reported malaria cases, 1990–2008 (continued)

WHO region	Country/Area	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
Africa	Algeria	152	229	106	84	206	107	221	197	197	701	541	435	307	427	163	299	117	288	196	
	Angola	243,673	1,143,701	782,988	722,981	667,376	156,603	-	893,232	1,169,028	1,471,993	2,080,348	1,249,767	1,662,662	3,246,258	2,489,170	889,572	1,029,198	1,295,535	1,377,992	
	Benin	92,870	118,796	290,868	403,327	546,827	578,300	623,396	670,857	650,025	709,348	-	717,290	782,818	819,256	853,034	803,462	861,847	-	-	
	Botswana	10,750	14,364	4,985	55,331	29,591	17,599	80,004	101,887	59,686	72,640	8,056	4,716	1,588	1,830	3,453	530	2,548	464	1,201	
	Burkina Faso	496,513	448,917	420,186	502,275	472,355	501,020	562,658	672,782	721,480	867,866	-	-	0	0	18,296	21,335	44,265	44,246	36,514	
	Burundi	92,870	568,938	828,429	831,481	932,794	974,226	974,226	670,857	687,301	1,936,584	308,095	312,015	327,138	353,459	363,395	327,464	649,756	860,606	876,741	
	Cameroun	869,048	787,796	664,413	478,693	189,066	784,321	931,311	787,796	664,413	-	-	-	-	-	-	277,413	634,507	313,083	1,650,749	
	Cape Verde	69	80	38	44	21	127	77	77	41	29	144	107	18	68	45	68	80	18	35	
	Central African Republic	174,436	125,038	89,930	82,072	82,057	100,962	95,259	98,718	105,664	127,964	89,614	140,742	-	78,094	129,367	131,856	114,403	119,477	152,260	
	Chad	212,554	246,410	229,444	234,869	278,225	293,564	276,048	343,186	395,205	392,815	40,078	38,287	43,933	45,195	1,360	31,668	45,155	58,288	57,644	
	Comoros	-	-	12,012	13,860	15,707	15,509	-	3,844	9,793	-	-	-	-	-	12,874	6,086	20,559	-	-	
	Congo	32,428	32,391	21,121	15,504	35,957	28,008	14,000	9,491	17,122	-	-	-	-	-	-	-	157,757	-	-	
	Côte d'Ivoire	511,916	466,895	553,875	421,043	-	756,812	1,109,011	983,089	-	-	-	-	1,193,288	1,109,751	1,136,810	1,275,138	1,280,914	1,253,408	1,277,670	
	Democratic Republic of the Congo	-	-	-	-	-	-	198,064	-	-	141,353	1,508,042	897	1,531	1,735	2,438	2,684	2,971	2,050	759,059	
	Equatorial Guinea	25,552	22,598	25,100	17,867	14,827	12,530	-	-	-	-	-	-	-	-	-	-	-	-	50,768	
	Eritrea	-	-	-	-	-	81,183	129,908	-	-	255,150	147,062	-	9,716	6,078	10,346	4,119	9,073	6,541	9,195	
	Ethiopia	-	-	206,262	305,616	358,469	412,609	478,411	509,804	604,960	647,919	-	392,377	427,795	463,797	578,904	538,942	447,780	451,816	458,561	
	Gabon	57,450	80,247	100,629	70,928	82,245	54,849	74,310	57,450	80,247	-	50,810	53,167	62,976	58,212	70,075	70,644	33,458	45,186	40,701	
	Gambia	222,538	215,414	188,035	-	299,824	135,909	266,189	325,555	-	127,899	-	481,590	620,767	540,165	395,043	329,426	427,598	439,798	10,910	
	Ghana	1,438,713	1,372,771	1,446,947	1,697,109	1,672,709	1,928,316	2,189,860	2,227,762	1,745,214	2,895,079	3,349,528	3,044,844	3,140,883	3,552,896	475,441	695,093	472,255	476,484	827,438	
	Guinea	21,762	17,718	56,073	158,748	607,560	600,317	772,731	802,210	817,949	807,895	4,800	6,238	16,561	107,925	103,069	50,452	41,228	28,646	33,405	
	Guinea-Bissau	81,835	64,123	56,073	158,748	607,560	600,317	772,731	802,210	817,949	807,895	4,800	6,238	16,561	107,925	103,069	50,452	41,228	28,646	33,405	
	Kenya	-	-	-	-	6,103,447	4,343,190	3,777,022	-	80,718	122,792	42,616	4,263,531	3,262,931	20,049	39,383	28,328	9,181,224	8,926,058	9,610,691	839,904
	Liberia	-	-	-	-	-	-	239,998	826,151	-	777,754	-	-	-	-	-	44,875	761,415	492,272	606,952	
	Madagascar	-	-	-	-	-	196,358	-	-	-	1,141,474	6,946	8,538	5,272	6,909	7,638	6,753	5,689	43,674	89,138	
	Malawi	3,870,904	-	-	4,686,201	4,796,974	-	6,183,290	2,761,269	2,985,659	4,193,145	3,646,212	3,823,796	2,784,001	3,359,960	2,871,098	3,688,389	4,204,468	4,442,197	4,966,779	
	Malawi	248,904	282,256	280,562	295,737	263,100	95,357	29,818	384,907	12,234	530,197	546,634	612,896	723,077	809,428	1,989,214	962,706	1,022,592	1,291,853	-	
	Mali	26,903	42,112	45,687	43,892	156,080	214,478	181,204	189,571	168,131	253,513	-	243,942	224,614	318,120	224,840	223,472	1,061	-	302	
	Mauritania	54	48	66	54	65	46	82	65	52	73	-	-	-	-	-	-	-	-	-	
	Mozambique	-	-	-	-	-	12,794	-	12,794	-	194,024	2,336,640	-	-	-	-	-	-	6,155,082	4,831,491	
	Namibia	-	-	-	380,530	401,519	275,442	345,177	390,601	353,110	429,571	-	41,636	23,984	20,295	20,295	36,043	23,339	27,690	4,242	4,907
	Niger	1,162,824	808,968	865,976	726,666	806,204	778,175	1,162,824	978,855	872,925	815,895	-	1,340,142	888,345	56,460	76,030	56,043	3,956	138,902	413,252	
	Nigeria	1,116,992	909,656	1,219,348	981,943	1,175,004	1,133,926	1,149,435	1,148,542	2,122,663	1,965,486	2,476,608	150	380	2,608,479	3,310,229	3,532,108	3,982,372	2,969,950	143,079	
	Rwanda	1,282,012	1,331,494	1,373,247	733,203	371,550	1,391,931	1,145,759	1,331,494	1,279,581	906,552	-	423,493	506,028	553,150	589,315	683,769	573,866	382,698	228,015	
	Sao Tome and Principe	-	-	-	-	450,071	628,773	-	51,938	47,074	46,026	37,026	31,975	42,068	50,586	46,486	18,139	51,446	2,080	2,080	1,572
	Senegal	-	-	-	-	-	-	-	861,276	948,823	1,145,112	44,959	14,261	15,261	28,272	23,171	38,746	49,366	95,169	202,466	
	Sierra Leone	-	-	-	-	-	7,192	209,312	249,744	409,670	460,881	2,206	3,945	2,206	3,945	2,206	3,945	2,206	3,945	2,206	
	South Africa	6,822	4,693	2,872	13,285	10,289	8,750	27,035	23,121	26,445	51,444	64,624	26,506	15,649	13,459	13,399	7,755	12,098	6,327	7,796	
	Swaziland	-	-	-	-	-	-	36,875	23,754	4,410	30,420	0	1,395	670	342	574	279	155	84	58	
	Togo	810,509	780,825	634,166	561,328	328,488	-	352,334	366,672	368,472	412,619	-	498,826	583,872	490,256	516,942	437,662	566,450	221,110	273,471	
	Uganda	-	-	2,448,659	1,470,662	2,191,277	1,431,068	-	2,317,840	2,845,811	3,070,800	3,552,859	5,624,032	5,624,032	557,159	801,784	879,032	1,104,310	867,398	1,050,240	
	United Republic of Tanzania	10,715,736	8,715,736	7,681,524	8,777,340	7,976,590	2,438,040	4,969,273	1,311,655	30,504,654	423,967	17,734	18,385	16,983	15,751	11,981	7,677	1,633	293	67	
	Zambia	1,933,696	2,340,994	2,953,692	3,514,000	3,514,000	2,742,118	3,215,886	-	3,399,630	3,395,616	3,337,796	3,638,402	3,760,335	4,346,172	4,078,234	4,121,556	4,731,338	4,248,295	3,080,301	
	Zimbabwe	662,613	581,168	420,137	877,734	324,188	761,791	1,696,192	1,849,383	1,719,960	1,804,479	-	-	-	-	16,990	18,954	19,702	30,521	92,900	
	Americas	Argentina	1,680	803	643	758	948	1,065	2,048	592	339	222	458	219	97	138	123	248	188	387	130
		Bahamas	-	-	-	-	-	-	-	-	-	-	-	2	4	1	3	2	1	49	6
		Belize	3,033	3,317	5,341	8,586	9,957	9,413	6,605	4,014	2,614	1,850	-	-	-	-	-	-	-	-	-
Bolivia (Plurinational State of)		19,680	19,031	24,486	27,475	34,749	46,911	64,012	51,478	73,913	50,037	31,468	15,765	14,276	20,343	14,910	20,142	18,995	14,610	9,748	
Brazil		560,396	614,431	609,860	466,190	564,406	565,727	455,194	392,976	471,892	609,594	613,241	388,303	348,259	408,765	484,901	606,067	549,469	458,041	315,642	
Colombia		99,489	184,156	184,023	129,377	127,218	187,082	135,923	180,888	185,455	66,845	144,432	231,233	204,916	180,956	142,241	121,629	120,096	128,462	80,559	
Costa Rica		1,151	3,273	6,951	5,033	4,445	4,515	5,480	4,712	5,148	3,998	1,879	1,363	1,021	718	1,289	3,541	2,903	1,223	966	
Dominican Republic		356	377	698	987	1,670	1,808	1,414	2,006	3,589	461	431	455	743	1,321	1,990	1,789	1,620	1,262	-	
Ecuador		71,670	59,400	41,089	46,859	30,006	18,128	11,862	16,365	43,696	87,620	-	-	-	-	-	-	-	-	-	
El Salvador		9,269	5,933	4,																	

Annex 3.A – Reported malaria cases, 1990–2008 (continued)

WHO region	Country/area	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008		
Americas	Honduras	53,095	73,352	70,838	44,513	52,110	59,446	74,487	65,863	42,979	46,740	35,125	24,149	24,149	17,223	14,123	17,293	16,007	11,361	10,270	8,225	
	Jamaica	-	-	-	-	-	-	-	-	-	-	-	97	65	53	113	652	379	382	199	86	
	Mexico	44,513	26,565	16,170	15,793	12,864	7,329	6,293	4,805	25,023	13,450	7,390	7,390	4,966	4,624	3,819	3,406	2,967	2,514	2,361	2,357	
	Nicaragua	35,785	27,653	26,866	44,037	41,490	69,444	75,606	42,819	33,903	38,676	23,878	10,482	10,482	7,693	6,717	6,897	6,642	3,114	1,356	764	
	Panama	381	1,115	727	481	684	730	476	505	1,039	936	1,038	928	928	2,444	4,500	5,095	3,667	1,663	1,281	744	
	Paraguay	2,912	2,963	1,289	436	583	898	637	567	2,091	9,947	6,853	2,710	2,710	2,778	1,382	694	376	823	1,341	1,341	
	Peru	28,882	33,705	54,922	95,222	122,039	192,629	208,132	183,740	247,004	166,579	68,321	79,473	85,742	85,742	93,581	86,272	64,871	56,538	-	-	
	Suriname	1,608	1,490	-	-	4,704	6,606	16,649	11,323	12,412	13,939	11,361	16,003	16,003	12,837	10,982	8,378	9,131	3,289	1,104	2,086	
	Venezuela (Bolivarian Republic of)	46,910	43,454	21,416	12,539	13,727	16,371	18,858	22,400	21,862	19,086	29,736	20,066	29,491	31,179	46,655	45,049	37,082	41,749	32,037	-	
	Eastern Mediterranean		317,479	297,605	-	-	88,302	-	303,955	202,767	288,070	-	-	-	-	414,631	360,940	242,022	116,444	86,129	92,202	82,564
		Djibouti	3,237	7,338	7,468	4,166	6,140	5,982	6,105	4,314	5,920	6,140	4,667	4,312	5,021	5,036	122	413	1,796	210	119	-
		Egypt	150	48	32	34	1,054	644	50	22	26	122	17	11	10	45	43	23	29	30	80	-
		Iran (Islamic Republic of)	77,470	96,340	76,971	64,591	51,089	67,532	56,362	38,684	32,951	23,110	19,716	19,303	15,588	23,562	13,821	18,966	15,909	6,947	5,955	-
		Iraq	3,924	1,764	5,752	49,863	98,243	98,705	49,840	13,959	9,684	4,143	1,860	1,265	1,265	962	347	155	47	24	3	6
	Morocco	1,674	988	810	396	412	394	204	250	242	120	59	59	59	107	73	56	100	83	75	142	
	Oman	65,440	38,548	29,654	33,746	14,430	3,602	2,530	2,052	2,186	1,802	694	635	590	740	615	544	443	705	965	-	
	Pakistan	79,689	66,586	99,015	92,634	108,586	111,836	98,035	77,480	73,516	91,774	82,526	125,292	107,666	125,152	101,640	97,049	100,966	92,971	59,284	-	
	Saudi Arabia	15,666	9,962	19,623	18,380	10,032	18,751	21,007	20,631	40,796	13,166	-	3,074	2,612	1,724	1,232	1,059	1,278	2,864	1,491	-	
	Somalia	-	-	-	3,049	-	-	-	-	-	9,055	-	10,364	15,732	7,571	11,436	12,516	16,430	16,430	16,058	23,905	
	Sudan*	7,508,704	6,947,787	9,326,944	9,867,778	8,562,205	6,347,143	4,595,092	4,065,460	5,062,000	4,215,308	368,557	203,491	280,550	933,267	537,899	628,417	595,683	960,428	457,362	-	
	Syrian Arab Republic	214	108	912	1,932	1,166	1,252	690	260	120	86	42	79	27	24	13	28	34	34	37	51	
	Yemen	0	0	0	0	196	502	347	841	1,156	616	141	79	52	29	45	7	0	0	1	-	
Europe	Azerbaijan	24	113	27	23	667	2,840	13,135	9,911	5,175	2,315	1,526	1,058	1,058	506	482	386	242	143	110	73	
	Georgia	1	2	1	0	1	7	1	1	16	51	173	439	472	315	256	155	155	60	23	6	
	Kyrgyzstan	1	1	2	0	6	3	26	13	11	5	12	28	2,744	468	93	226	320	226	96	18	
	Russian Federation	216	169	160	209	335	425	611	831	1,081	792	-	-	-	-	-	-	-	-	-	-	
	Tajikistan	175	294	404	619	2,411	6,103	16,561	29,794	19,351	13,493	19,064	11,387	6,180	5,428	3,588	2,309	1,344	635	318	-	
	Turkey	8,680	12,218	18,676	47,210	84,345	82,096	60,884	35,466	36,842	20,963	9,465	7,710	7,814	8,025	4,278	1,627	605	250	136	-	
	Turkmenistan	1	17	11	3	9	10	14	14	137	49	24	8	18	18	51	4	1	1	0	-	
	Uzbekistan	28	12	25	36	21	27	51	52	74	85	126	77	74	74	66	102	76	89	27	-	
	South-East Asia	Bangladesh	53,875	63,578	115,660	125,402	166,564	152,729	100,864	68,594	60,023	63,723	54,223	54,216	62,269	54,654	58,894	48,121	32,857	59,857	84,690	-
		Bhutan	9,497	22,126	28,900	28,116	39,852	23,188	15,696	9,029	7,693	12,237	5,935	5,982	5,982	6,511	3,806	2,670	1,825	1,868	793	329
		Democratic People's Republic of Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Democratic Republic of Timor-Leste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		India	2,018,783	2,117,460	2,125,826	2,207,431	2,511,453	2,885,231	3,035,588	2,660,057	2,222,748	2,284,713	2,031,790	2,085,484	1,841,227	1,869,403	1,915,363	1,816,569	1,785,109	1,508,927	1,532,467	-
		Indonesia	171,908	132,412	103,277	136,367	145,920	123,226	179,878	161,265	160,282	-	-	-	267,592	273,793	223,074	268,852	437,323	347,597	-	343,048
Myanmar		989,042	939,257	789,672	702,239	701,043	656,547	664,507	588,262	548,066	548,066	121,031	120,029	170,502	173,098	177,530	152,070	165,737	216,470	332,056	411,494	
Nepal		22,856	29,135	23,234	16,380	9,718	6,628	9,718	8,957	8,498	9,689	7,981	6,396	6,396	12,750	9,506	4,895	5,050	4,969	4,220	3,888	
Sri Lanka		287,384	400,263	399,349	327,020	273,434	142,294	184,319	218,550	211,691	211,691	210,039	66,522	41,411	10,510	3,720	1,640	591	198	670	-	
Thailand		273,890	198,363	168,370	115,220	102,119	82,743	87,622	97,540	131,055	125,379	-	-	63,528	44,555	26,690	29,782	30,294	33,178	26,150	-	
Cambodia		123,796	102,930	91,000	99,200	85,012	76,923	74,893	88,029	58,874	64,679	62,442	53,601	46,902	71,265	59,745	49,436	49,436	78,696	42,518	-	
China		117,359	101,600	74,000	59,000	62,000	47,118	33,382	26,800	27,090	26,797	-	21,237	25,520	28,491	27,197	21,936	35,383	29,304	16,650	-	
Lao People's Democratic Republic		22,044	41,048	38,500	41,787	52,601	52,021	77,894	72,190	39,031	28,050	40,106	27,076	21,420	18,894	16,183	13,615	18,382	19,037	17,648	-	
Malaysia		50,500	39,189	36,853	39,890	59,958	59,208	51,921	26,649	13,491	11,106	8,257	8,384	6,792	4,271	4,217	4,250	4,094	4,064	5,598	-	
Papua New Guinea	104,900	86,500	86,500	66,797	65,000	71,013	38,105	20,900	18,564	79,639	94,484	75,748	72,620	91,055	92,957	93,938	86,912	84,452	84,452	-		
Philippines	86,200	86,400	95,778	64,944	61,959	56,852	40,545	42,005	50,709	37,061	36,596	34,787	37,005	48,441	50,650	46,342	35,405	36,235	23,655	-		
Republic of Korea	0	0	0	1	20	107	396	1,724	3,992	3,621	4,183	2,556	1,799	1,171	864	1,369	2,051	2,227	1,052	-		
Solomon Islands	116,500	141,400	153,359	126,123	131,687	118,521	84,795	68,125	72,808	63,169	68,107	76,493	74,936	92,227	90,297	76,390	75,337	65,404	40,535	-		
Vanuatu	28,805	19,466	13,330	10,469	3,771	8,318	5,654	6,099	6,181	5,152	6,220	7,656	14,342	15,245	13,579	8,339	8,055	5,471	3,477	-		
Viet Nam	123,796	187,994	225,928	156,069	140,120	100,116	84,625	65,859	72,091	75,102	74,316	68,699	47,807	38,790	24,909	19,496	22,637	11,389	11,385	-		

Notes:
Cases reported before 2000 can be probable and confirmed or only confirmed cases depending on the country.
Cases reported can be autochthonous malaria cases only or may include imported cases.
Mauritius is one of the countries listed but it has had no ongoing local transmission for over a decade.
*Data for Sudan, after 1999, only represents 15 northern states.

Annex 3.B – Reported malaria deaths, 1990–2008

WHO region	Country/area	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008		
Africa	Algeria	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-		
	Angola	-	-	-	-	-	-	-	-	-	2	25,572	9,510	9,473	14,434	38,598	12,459	13,768	10,220	9,812	9,465	
	Benin	-	-	-	-	-	-	-	-	-	682	544	-	468	707	560	944	322	1,226	1,195	-	
	Botswana	-	-	-	-	-	-	-	141	23	49	-	29	23	18	19	11	40	6	6	12	
	Burkina Faso	-	-	-	-	-	-	-	2,624	2,808	-	691	4,233	4,032	4,860	4,205	5,224	8,083	6,472	7,834	7,834	
	Burundi	-	-	-	-	-	-	-	-	-	-	-	-	417	483	425	689	776	434	167	226	
	Cameroon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	836	930	1,811	7,673	
	Cape Verde	-	-	-	-	-	-	-	-	-	-	-	-	0	2	4	4	2	7	2	2	
	Central African Republic	-	-	-	-	-	-	-	374	484	439	712	957	98	98	1,021	13	558	837	617	1,018	
	Chad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Comoros	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-	28	92	56	-	47	
	Côte d'Ivoire	-	-	-	-	-	-	-	1,337	974	-	-	-	-	-	-	-	-	-	797	1,249	
	Democratic Republic of the Congo	-	-	-	-	-	-	-	-	-	-	-	3,856	416	2,152	989	13,613	15,322	8,295	14,637	18,928	
	Eritrea	-	-	-	-	-	-	-	404	169	-	-	133	86	79	24	49	47	47	42	19	
	Ethiopia	-	-	-	-	-	-	-	-	-	-	-	-	1,681	1,607	2,138	3,327	1,086	1,357	991	1,169	
	Gabon	-	-	-	-	-	-	-	-	-	-	2,016	1,693	1,141	692	466	353	238	216	156	156	
	Gambia	-	-	-	-	-	-	-	-	-	-	-	275	259	192	153	426	150	424	403	403	
	Ghana	-	-	-	-	-	-	-	2,798	2,826	6,108	1,717	2,376	2,103	1,575	2,037	3,125	2,037	3,125	4,622	3,889	
	Guinea	-	-	-	-	-	-	-	13	13	626	517	440	586	528	490	-	-	-	-	441	
	Guinea-Bissau	-	-	-	-	-	-	-	665	1,545	48,767	48,286	47,697	51,842	44,328	40,079	-	-	507	370	487	
	Kenya	-	-	-	-	-	-	-	-	-	-	-	635	780	1,137	565	565	565	507	370	487	
	Liberia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	877	310	345	
	Madagascar	-	-	-	-	-	-	-	-	-	640	591	742	575	817	715	699	441	428	428	276	
	Malawi	57,649	-	-	-	-	-	-	35,982	-	4,747	-	3,355	5,775	4,767	3,457	5,070	7,132	8,541	7,748	7,748	
	Mali	-	-	-	-	-	-	-	-	-	583	748	562	826	1,309	1,012	1,285	1,914	1,782	1,782	1,227	
	Mauritania	-	-	-	-	-	-	-	-	279	525	-	-	-	-	-	-	-	67	-	-	
	Mozambique	-	-	-	-	-	-	-	-	896	1,189	-	-	-	-	-	-	-	-	5,816	4,424	
	Namibia	-	-	-	-	-	-	250	469	547	404	531	-	1,728	1,504	1,106	1,185	1,325	571	181	171	
	Niger	-	-	-	-	-	-	-	1,018	1,823	2,165	1,244	2,366	2,769	2,248	1,333	2,060	1,150	1,420	2,691	2,691	
	Nigeria	2,284	1,947	1,068	710	1,686	3,268	4,773	4,603	6,197	4,123	-	4,317	4,092	5,343	6,032	6,494	6,586	10,289	8,677	8,677	
	Rwanda	-	-	-	-	-	-	-	2,736	1,881	-	-	254	248	321	193	169	85	26	3	16	
	Sao Tome and Principe	-	-	-	-	-	-	-	154	-	-	-	1,275	1,515	1,226	1,602	1,524	1,587	1,678	1,935	722	
	Senegal	-	-	-	-	-	-	-	1,205	1,029	1,235	-	-	328	461	157	126	50	90	324	871	
	Sierra Leone	-	-	-	-	-	-	-	198	104	406	424	81	96	142	88	63	63	87	37	43	
	South Africa	-	-	-	-	-	-	-	109	149	-	-	62	46	30	28	17	27	27	14	5	
	Swaziland	-	-	-	-	-	-	-	475	766	-	-	1,394	1,661	1,130	1,183	1,024	819	1,236	2,663	2,663	
	Togo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Uganda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Republic of Tanzania	-	-	-	-	-	-	-	-	-	-	379	1,228	815	15,251	19,859	18,322	20,962	12,593	29	29	
	Zambia	4,863	4,988	3,315	4,689	5,775	-	-	8,580	-	9,369	9,021	9,178	8,289	7,737	6,484	6,183	6,484	6,183	3,781	3,781	
	Zimbabwe	-	-	-	-	-	-	-	1,192	1,248	1,139	-	-	0	0	0	0	1,844	1,809	1,916	802	285
	Americas	Argentina	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-
		Bolivia (Plurinational State of)	-	-	-	-	-	-	-	23	-	-	-	-	8	4	0	0	0	0	-	-
		Brazil	-	-	-	-	-	-	-	-	-	-	-	142	93	103	100	122	105	105	94	51
		Colombia	-	-	-	-	-	-	-	-	-	-	-	58	40	24	25	28	28	53	-	22
		Dominican Republic	-	-	-	-	-	-	-	14	17	11	12	16	16	16	16	16	16	10	14	9
		Ecuador	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-
El Salvador		-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	
Guatemala		-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	
Guyana		-	-	-	-	-	-	-	34	-	-	-	-	-	-	16	44	40	40	-	1	
Haiti		-	-	-	-	-	-	-	25	-	-	-	-	32	-	-	-	58	64	-	-	
Honduras		-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	2	0	2	0	
Mexico		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	

Annex 3.B – Reported malaria deaths, 1990–2008 (continued)

WHO region	Country/area	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
Americas	Nicaragua	-	-	-	-	-	-	-	-	-	-	-	2	8	7	1	6	1	-	-	
	Panama	-	-	-	-	-	-	-	-	-	-	-	-	4	6	6	-	-	-	-	
	Suriname	-	-	-	-	-	-	-	-	-	-	24	23	16	18	7	2	-	1	-	
	Venezuela (Bolivarian Republic of)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eastern Mediterranean	Afghanistan	-	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	25	46	
	Djibouti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	1	-	
	Egypt	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Iran (Islamic Republic of)	-	-	-	0	-	-	-	22	-	3	-	2	2	5	1	1	1	0	3	
	Iraq	-	-	-	0	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	
	Morocco	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	
	Saudi Arabia	-	-	-	-	-	-	-	6	28	-	-	0	0	0	0	0	0	2	1	
	Somalia	-	-	-	-	-	-	-	-	-	-	-	-	8	54	79	15	58	33	21	
	Sudan*	-	-	-	932	-	1,944	1,825	1,958	2,622	2,162	2,252	2,125	2,479	1,814	1,703	1,686	1,254	1,125	-	
	Yemen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-	-	
	Europe	Armenia	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-
Azerbaijan		-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	
Georgia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kyrgyzstan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Russian Federation		1	1	1	3	2	3	4	3	3	3	3	3	3	3	3	3	3	3	3	
Tajikistan		-	-	-	-	-	-	-	7	0	-	-	-	-	-	-	-	-	-	-	
Turkey		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Turkmenistan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Uzbekistan		0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
South-East Asia		Bangladesh	-	-	-	-	-	1,393	794	469	528	552	478	490	588	577	535	501	307	228	154
		Bhutan	-	-	-	-	-	-	25	14	17	-	-	-	-	14	7	5	7	2	4
		Democratic Republic of Timor-Leste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	88	58	60	31
		India	-	-	-	-	-	-	2,803	879	666	-	892	1,015	973	1,006	949	963	1,708	1,311	1,061
		Indonesia	-	-	-	-	-	-	148	199	45	-	-	-	-	-	-	-	494	-	669
		Myanmar	-	-	-	-	-	-	3,424	2,943	3,182	3,648	2,756	2,814	2,634	2,476	1,982	1,707	1,647	1,265	1,088
	Nepal	-	-	-	-	0	0	15	2	7	-	-	1	3	5	7	10	42	3	-	
	Sri Lanka	-	-	-	-	-	-	26	61	115	7	77	52	30	4	1	0	1	1	0	
	Thailand	1,287	-	-	-	-	-	826	764	688	740	-	848	722	650	460	142	226	97	101	
	Western Pacific	Cambodia	1,020	1,163	1,408	1,100	1,009	614	745	811	621	891	608	476	457	492	382	296	396	241	209
		China	35	-	52	19	43	34	30	46	24	67	-	28	42	52	31	48	38	18	23
		Lao People's Democratic Republic	372	457	438	418	609	620	608	606	427	338	350	244	195	187	105	77	21	14	13
		Malaysia	43	-	25	23	28	35	40	25	27	21	35	46	39	21	35	33	21	18	29
		Papua New Guinea	457	-	500	448	281	415	514	390	651	567	699	619	678	559	644	731	668	559	628
Philippines		913	924	864	811	784	643	536	514	561	755	-	-	-	-	-	-	-	-	-	
Republic of Korea		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Solomon Islands		33	46	33	40	49	51	30	27	33	23	-	55	59	71	34	38	12	15	21	
Vanuatu		32	32	26	13	8	4	0	0	0	0	2	4	12	14	3	2	1	2	1	
Viet Nam		3,340	4,646	2,632	1,026	604	348	203	152	183	190	142	78	44	50	24	18	38	20	25	

Notes:

Deaths reported before 2000 can be probable and confirmed or only confirmed deaths depending on the country.

*Data for Sudan, after 1999, only represents 15 northern states.

Annex 4.A – Recommended policies and strategies for malaria control, 2009

WHO region/subregion	Country/area	Insecticide-treated nets			Indoor residual spraying			Treatment					Malaria in pregnancy	
		Distribution - Free	Targeting - All age groups	IRS is the primary vector control intervention	DDT is used for IRS (public health only)	ACT policy adopted	Oral artemisinin monotherapies banned	Parasitological confirmation for all age groups	ACT is free of charge for 5 years old in the public sector	Diagnosis of malaria inpatients is based on laboratory testing	Pre-referral treatment with quinine or artesunate	Oversight of regulation of case management in the private sectors		RDTs used at community level
Africa	Algeria	N	N	Y	N	NA	N	Y	Y	Y	N	N	N	N
	Angola	Y	N	Y	N	Y	N	Y	Y	Y	N	N	N	Y
	Benin	Y	N	Y	N	Y	N	Y	Y	Y	Y	N	N	Y
	Botswana	N	Y	Y	N	Y	N	Y	Y	Y	Y	Y	N	N
	Burkina Faso	Y	Y	N	N	Y	N	Y	Y	Y	N	N	N	Y
	Burundi	Y	N	N	N	Y	N	Y	Y	Y	N	N	N	N
	Cameroon	Y	N	N	N	Y	N	Y	Y	Y	N	N	N	Y
	Cape Verde	Y	Y	N	N	Y	N	Y	Y	Y	Y	N	N	N
	Central African Republic	Y	N	N	N	Y	N	Y	Y	Y	N	Y	Y	Y
	Chad	Y	N	N	N	Y	N	Y	Y	Y	N	Y	Y	Y
	Comoros	Y	N	N	N	Y	N	Y	Y	Y	N	Y	Y	Y
	Congo	Y	N	N	N	Y	N	Y	Y	Y	N	N	N	Y
	Côte d'Ivoire	Y	N	N	N	Y	N	Y	Y	Y	N	N	N	Y
	Democratic Republic of the Congo	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Equatorial Guinea	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Eritrea	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
	Ethiopia	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Gabon	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Gambia	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Ghana	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Guinea	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Guinea-Bissau	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Kenya	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Liberia	Y	Y	-	-	Y	Y	Y	Y	Y	-	-	-	Y
	Madagascar	Y	Y	Y	N	Y	Y	Y	Y	Y	N	N	N	Y
	Malawi	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Mali	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Mauritania	Y	Y	N	N	Y	Y	Y	Y	Y	N	N	Y	Y
	Mauritius	-	-	-	-	NA	-	-	-	-	-	-	-	-
	Mozambique	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Namibia	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Niger	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Nigeria	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Rwanda	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Sao Tome and Principe	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Senegal	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Sierra Leone	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	South Africa	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
	Swaziland	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
	Togo	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Uganda	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	United Republic of Tanzania	-	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Zambia	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Zimbabwe	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Americas	Argentina	-	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Belize	-	-	Y	N	NA	-	-	-	-	-	-	-	-
	Bolivia (Plurinational State of)	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Brazil	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Colombia	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Costa Rica	N	N	N	N	NA	-	-	-	-	-	-	-	N
	Dominican Republic	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Ecuador	-	Y	-	N	Y	Y	Y	Y	Y	Y	Y	Y	-
	El Salvador	Y	Y	Y	N	NA	Y	Y	Y	Y	Y	Y	Y	-
	French Guiana	-	-	-	N	NA	-	-	-	-	-	-	-	-
	Guatemala	Y	Y	N	N	NA	Y	Y	Y	Y	Y	Y	Y	N
	Guyana	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Haiti	N	Y	Y	N	NA	Y	Y	Y	Y	Y	Y	Y	Y
	Honduras	-	-	Y	N	NA	-	-	-	-	-	-	-	-

Annex 4.A – Recommended policies and strategies for malaria control, 2009 (continued)

WHO region/subregion	Country/area	Insecticide-treated nets			Indoor residual spraying			Treatment				Malaria in pregnancy		
		Distribution - Free	Targeting - All age groups	IRS is the primary vector control intervention	DDT is used for IRS (public health only)	ACT policy adopted	Oral artemisinin monotherapies banned	Parasitological confirmation for all age groups	ACT is free of charge for under 5 years old in the public sector	Diagnosis of malaria inpatients is based on laboratory testing	Pre-referral treatment with artemether IM or artesunate suppositories		Oversight regulation of the private sectors	RDTs used at community level
Americas	Jamaica	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mexico	-	-	Y	N	NA	-	Y	-	-	-	-	-	-
	Nicaragua	Y	Y	N	N	NA	Y	Y	N	-	-	-	-	-
	Panama	N	N	Y	N	NA	-	Y	-	-	-	-	-	-
	Paraguay	N	N	Y	N	NA	-	Y	-	-	-	-	-	-
	Peru	-	-	Y	N	Y	-	Y	-	-	-	-	-	-
	Suriname	Y	Y	N	N	Y	Y	Y	N	Y	Y	N	Y	N
	Venezuela (Bolivarian Republic of)	-	-	Y	N	Y	-	Y	-	-	-	-	-	-
	Afghanistan	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	N	N
	Djibouti	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	-	Y
Eastern Mediterranean	Egypt	-	-	Y	N	Y	-	Y	-	-	-	-	-	-
	Iran (Islamic Republic of)	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Iraq	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Morocco	-	-	-	-	Y	-	-	-	-	-	-	-	-
	Oman	-	-	-	-	NA	-	-	-	-	-	-	-	-
	Pakistan	Y	N	Y	N	Y	Y	N	Y	Y	N	N	Y	N
	Saudi Arabia	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Somalia	Y	Y	N	N	NA	Y	N	Y	Y	N	N	Y	Y
	Sudan	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Syrian Arab Republic	-	-	-	-	NA	-	-	-	-	-	-	-	-
Europe	Yemen	Y	N	Y	N	Y	Y	Y	Y	Y	Y	N	N	N
	Armenia	Y	N	Y	N	NA	Y	Y	Y	Y	Y	Y	Y	N
	Azerbaijan	N	N	Y	N	NA	N	Y	Y	Y	Y	Y	Y	N
	Georgia	N	N	Y	N	NA	N	Y	Y	Y	Y	Y	Y	N
	Kyrgyzstan	Y	Y	Y	N	-	N	Y	Y	Y	Y	Y	Y	N
	Russian Federation	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tajikistan	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Turkey	N	N	Y	N	NA	N	Y	Y	Y	Y	Y	Y	N
	Turkmenistan	N	Y	Y	N	NA	N	Y	Y	Y	Y	Y	Y	N
	Uzbekistan	Y	Y	Y	N	-	N	Y	Y	Y	Y	Y	Y	N
South-East Asia	Bhutan	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Bangladesh	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Democratic People's Republic of Korea	N	Y	Y	Y	NA	N	Y	Y	Y	Y	Y	Y	N
	Democratic Republic of Timor-Leste	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	India	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Indonesia	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Myanmar	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Nepal	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	Y	N
	Sri Lanka	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Thailand	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
Western Pacific	Cambodia	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	China	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Laos	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	People's Democratic Republic of Laos	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Malaysia	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Papua New Guinea	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
	Philippines	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Republic of Korea	N	N	N	N	NA	N	Y	Y	Y	Y	Y	Y	N
	Solomon Islands	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
	Vanuatu	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N
Viet Nam	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N	

(Y) = Actually implemented.

(N) = Not implemented.

(-) = Question not answered or not applicable.

*The policies for Sudan only represents the northern states.

WHO region	Country/area	<i>P. falciparum</i>			Severe	Prevention during pregnancy	Treatment
		Uncomplicated unconfirmed	Uncomplicated confirmed	<i>P. vivax</i>			
Africa	Algeria	-	-	-	-	CQ	
	Angola	AL	AL	QN(7d)	SP(IPT)	-	
	Benin	AL	AL	QN(7d)	SP(IPT)	-	
	Botswana	AL	AL	QN(7d)	CQ+PG	-	
	Burkina Faso	AS+AQ;AL	AS+AQ;AL	QN(7d)	SP(IPT)	-	
	Burundi	AS+AQ	AS+AQ	QN(7d)	-	-	
	Cameroon	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Cape Verde	AL	AL	QN(7d)	CQ	-	
	Central African Republic	AL	AL	QN(7d)	SP(IPT)	-	
	Chad	AS+AQ;AL	AS+AQ;AL	QN(7d)	SP(IPT)	-	
	Comoros	AL	AL	QN(7d)	SP(IPT)	-	
	Congo	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Côte d'Ivoire	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Democratic Republic of the Congo	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Equatorial Guinea	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Eritrea	CQ+SP	AS+AQ	QN(7d)	-	-	
	Ethiopia	AL	AL	QN(7d)	-	CQ+PQ	
	Gabon	AS+AQ	AS+AQ	QN(7d)	-	CQ	
	Gambia	AL	AL	QN(7d)	SP(IPT)	-	
	Ghana	AS+AQ;AL	AS+AQ;AL	QN(7d)	SP(IPT)	-	
	Guinea	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Guinea-Bissau	AL	AL	QN(7d)	SP(IPT)	-	
	Kenya	AL	AL	QN(7d)	SP(IPT)	-	
	Liberia	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Madagascar	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-	
	Malawi	AL	AL	QN(7d)	SP(IPT)	-	
	Mali	AL	AL	QN(7d)	SP(IPT)	-	
	Mauritania	AS+AQ	AS+AQ	QN(7d)	-	-	
	Mauritius	-	-	-	-	CQ	
	Mozambique	AL	AL	QN(7d)	SP(IPT)	-	
	Namibia	AL	AL	QN(7d)	SP(IPT)	-	
	Niger	AL	AL	QN(7d)	SP(IPT)	-	
Nigeria	AL;AS+AQ	AL;AS+AQ	QN(7d)	SP(IPT)	-		
Rwanda	AL	AL	QN(7d)	SP(IPT)	-		
Sao Tome and Principe	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-		
Senegal	AS+AQ	AS+AQ;AL	QN(7d)	SP(IPT)	-		
Sierra Leone	AS+AQ	AS+AQ	QN(7d)	SP(IPT)	-		
South Africa	AL	AL	QN(7d)	CQ+PG	-		
Swaziland	-	AL	QN(7d)	CQ+PG	-		
Togo	AL;AS+AQ	AL;AS+AQ	QN(7d)	SP(IPT)	-		
Uganda	AL	AL	QN(7d)	SP(IPT)	-		
United Republic of Tanzania	AL;AS+AQ	AL;AS+AQ	QN(7d)	SP(IPT)	-		
Zambia	AL	AL	QN(7d)	SP(IPT)	-		
Zimbabwe	AL	AL	QN(7d)	SP(IPT)	-		

Annex 4.B – Antimalarial drug policy, 2009 (continued)

WHO region	<i>P. falciparum</i>				Treatment	
	Uncomplicated unconfirmed	Uncomplicated confirmed	Severe	Prevention during pregnancy		
Americas	Argentina	-	-	-	CQ+PQ	
	Belize	-	-	-	CQ+PQ	
	Bolivia	-	AS+MQ	-	CQ+PQ	
	Brazil	-	AL	AS; AM; QN	CQ+PQ(7d)	
	Colombia	-	AL;AS+MQ	QN(7d)	CQ+PQ	
	Costa Rica	-	-	-	CQ+PQ	
	Dominican Republic	-	CQ+PQ(3d)	-	-	
	Ecuador	-	AS+SP;AL	-	CQ+PQ	
	El Salvador	-	-	-	CQ+PQ	
	French Guiana	-	QN+T	-	CQ+PQ	
	Guatemala	-	-	-	CQ+PQ	
	Guyana	-	AL	-	CQ+PQ	
	Haiti	-	CQ+PQ	-	-	
	Honduras	-	-	-	CQ+PQ	
	Mexico	-	-	-	CQ+PQ	
	Nicaragua	-	-	-	CQ+PQ(7d)	
	Panama	-	CQ+PQ(7d)	QN+CL	CQ+PQ	
	Paraguay	-	CQ+PQ	-	CQ+PQ	
	Peru	-	AS+MQ;AS+SP	-	CQ+PQ	
	Suriname	-	AL	-	CQ+PQ	
	Venezuela (Bolivarian Republic of)	-	AS+MQ	-	CQ+PQ	
	Eastern Mediterranean	Afghanistan	CQ+SP	AS+SP	QN(7d); AS+SP	CQ
		Djibouti	AS+SP	AS+SP	QN	CQ+PQ(14d)
Egypt		-	AL	QN(7d)	CQ+PQ(14d)	
Iran (Islamic Republic of)		-	AS+SP	QN; AS	CQ+PQ(14d)	
Iraq		-	AL	QN(7d)	CQ+PQ(14d)	
Morocco		-	AL	QN(7d)	CQ+PQ(14d)	
Oman		-	AL+PQ	QN(7d); AS	CQ+PQ(14d)	
Pakistan		AS+SP	AS+SP	QN; AM	CQ+PQ(14d)	
Saudi Arabia		-	AS+SP	QN(7d)	CQ+PQ(5d)	
Somalia		AS+SP	AS+SP	QN	CQ+PQ(14d)	
Sudan*		AS+SP;AS+AQ	AS+SP;AS+AQ	QN; AM; AS+SP	-	
Syrian Arab Republic		-	SP	QN(7d)	CQ+PQ(14d)	
Yemen		AS+SP	AS+SP	QN(7d)	CQ+PQ(14d)	

Annex 5 – Operational coverage of insecticide-treated nets, indoor residual spraying and antimalarial treatment, 2007–2008

WHO region	Country/area	Year	No. of ITN + LLIN sold or delivered	No. of LLIN sold or delivered	No. of ITN sold or delivered	% ITN coverage	No. of houses sprayed	No. of people protected by IRS	% IRS coverage (including ACT)	Any 1st-line treatment courses delivered	ACT treatment courses delivered	% Any antimalarial coverage total	% ACT coverage public	% Any antimalarial coverage public	
Africa	Algeria	2007	-	-	-	-	-	-	-	297	-	-	-	-	
		2008	-	-	-	-	-	-	-	152	-	-	-	-	
	Angola	2007	1,495,165	1,495,165	-	26.5	110,826	612,776	3.5	2,031,760	2,031,760	20.2	20.2	33.2	
		2008	1,471,200	1,471,200	-	42.1	133,687	736,231	4.1	2,363,970	2,363,970	23.1	23.1	38	
	Benin	2007	2,000,000	2,000,000	-	48.8	-	-	-	-	-	-	-	-	-
		2008	20,000	20,000	-	47.8	-	-	-	-	-	-	-	-	-
	Botswana	2007	-	-	-	0.3	-	342,536	37.9	16,983	16,983	56.7	56.7	588.3	
		2008	-	-	-	0.3	-	344,989	37.6	17,886	17,886	59	59	612.3	
	Burkina Faso	2007	24,000	13,000	11,000	2.0	-	-	-	-	4,981,270	811,807	21.8	3.5	67.7
		2008	724,548	724,547	1	11.3	-	-	-	-	2,408,905	2,408,905	10.3	10.3	32.1
	Burundi	2007	1,203,763	1,203,763	-	58.6	-	-	-	-	2,263,515	2,263,515	31.9	31.9	68.1
		2008	895,355	895,355	-	88.3	24,007	-	-	-	2,006,361	2,006,361	28	28	59.6
	Cameroon	2007	244,425	-	244,425	2.8	-	-	-	-	2,566,785	2,566,785	17.5	17.5	49.6
		2008	802,105	802,105	-	8.6	-	-	-	-	1,814,725	1,814,725	12.1	12.1	34.3
	Cape Verde	2007	-	-	-	-	200	1,000	0.8	-	-	-	-	-	-
		2008	-	-	-	-	500	2,500	1.9	-	-	-	-	-	-
	Central African Republic	2007	498,050	498,050	0	29.1	-	-	-	-	1,192,266	1,192,266	22	22	58.9
		2008	846,966	846,966	0	67.6	-	-	-	-	1,242,306	1,242,306	22.4	22.4	60.1
	Chad	2007	83,000	-	-	1.6	-	-	-	-	-	-	-	-	-
		2008	126,000	-	-	2.3	-	-	-	-	-	-	-	-	-
	Comoros	2007	95,000	-	95,000	29.4	-	-	-	-	104,640	83,020	17.3	-	44.3
		2008	20,000	-	-	6.1	-	-	-	-	295,690	295,690	47.9	-	122.5
	Congo	2007	-	-	-	-	-	-	-	-	-	-	-	-	-
		2008	-	-	-	-	-	-	-	-	-	-	-	-	-
	Côte d'Ivoire	2007	169,832	-	169,832	5.0	-	-	-	-	721,314	476,203	3.3	2.2	12.6
		2008	1,034,486	-	1,034,486	13.3	-	-	-	-	-	-	-	-	-
	Democratic Republic of the Congo	2007	2,385,684	2,385,684	-	17.1	-	-	-	-	1,348,304	1,348,304	1.8	2,169.5	5.6
		2008	5,788,513	5,788,513	-	34.5	22,000	82,975	0.1	1,723,655	1,723,655	2.3	2,769.8	7.1	
Equatorial Guinea	2007	152,992	152,992	-	47.6	-	216,200	33.7	-	58,241	47,833	10.1	8.3	21.7	
	2008	65,913	65,913	-	66.4	-	371,136	56.3	-	-	-	-	-	-	
Eritrea	2007	159,360	159,360	-	10.0	86,153	305,978	6.4	-	37,429	-	161.9	-	1183.5	
	2008	134,399	134,399	-	15.2	75,019	251,641	5.1	-	22,662	-	99.2	-	725.3	
Ethiopia	2007	7,178,443	7,178,443	-	60.8	2,523,902	5,303,213	9.9	5,450,400	4,032,640	12.5	18.9	94.2	143	
	2008	3,316,696	3,316,696	-	71.3	5,641,275	28,206,375	51.4	-	8,000,000	-	37	-	280.3	
Gabon	2007	352,994	2,874	350,120	50.1	-	-	-	-	1,200,759	952,000	110.6	101.9	261.5	
	2008	10,640	1,640	9,000	2.3	-	-	-	-	190,259	-	16.8	-	39.6	
Gambia	2007	224,979	77,163	147,816	31.9	-	-	-	-	1,188,325	1,188,325	98.2	98.2	146.6	
	2008	428,083	290,393	137,690	64.8	-	-	-	-	2,018,967	1,852,967	9.9	9.1	24.1	
Ghana	2007	4,281,480	1,934,480	2,347,000	57.3	154,000	240,000	1.0	601,973	9,161,195	9,783,983	46.7	47.5	115.2	
	2008	2,357,717	257,717	2,100,000	58.2	68,252	601,973	2.6	-	29,347	-	0.4	-	1.3	
Guinea	2007	312,500	246,000	246,000	13.8	-	-	-	-	-	-	-	-	-	
	2008	91,700	91,700	-	35.6	-	-	-	-	-	-	-	-	-	
Guinea-Bissau	2007	1,596,875	1,591,492	405,383	58.5	390,058	3,459,207	12.1	-	110,627	110,627	5.8	5.8	9.9	
	2008	2,786,742	2,437,621	349,121	73.2	307,207	3,061,966	10.4	-	0	-	-	-	-	
Kenya	2007	342,639	342,639	-	43.5	-	-	-	-	675,225	-	27.9	-	71.3	
	2008	714,500	714,500	-	61.2	21,904	160,000	4.2	-	595,000	-	24.1	-	61.7	
Madagascar	2007	3,359,244	-	-	36.1	248,269	1,241,344	6.7	-	568,000	-	12.8	-	47.7	
	2008	907,739	-	-	9.5	1,312,811	6,564,056	34.3	-	1,167,480	-	26.6	-	99.4	
Malawi	2007	675,238	255,266	417,972	11.0	-	-	-	-	-	-	-	-	-	
	2008	2,354,094	859,026	1,496,068	36.8	-	-	-	-	-	-	-	-	-	
Mali	2007	2,982,346	-	-	49.5	87,198	405,936	3.3	-	1,162,048	-	-	-	-	
	2008	682,461	-	-	12.2	-	-	-	-	2,842,500	-	-	-	-	
Mauritania	2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	20,850	-	20,850	6.3	-	-	-	-	-	-	-	-	-	

Annex 5 – Operational coverage of insecticide-treated nets, indoor residual spraying and antimalarial treatment, 2007–2008 (continued)

WHO region	Country/area	Year	No. of ITN + LLIN		No. of ITN sold or delivered	% ITN coverage	No. of houses sprayed	No. of people protected by IRS	% IRS coverage	Any 1st-line treatment courses		% Any antimalarial coverage total	% Any antimalarial coverage public	
			sold or delivered	No. of LLIN sold or delivered						delivered (including ACT)	delivered			
Africa	Mauritius	2007	-	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	-	
	Mozambique	2007	1,586,534	1,586,534	-	17.4	1,682,369	6,485,517	29.6	6,155,082	27.2	27.2	49.2	
		2008	2,086,367	2,086,367	-	35.6	1,945,389	6,545,395	29.2	4,831,491	20.9	20.9	37.9	
	Namibia	2007	58,500	30,000	28,500	27.4	658,635	487,372	34.8	4,433	4.4	3.5	6.5	
		2008	397,282	312,382	84,900	78.5	205,748	233,440	16.4	5,193	5.1	4.1	7.6	
	Niger	2007	710,000	-	-	47.7	-	-	-	1,162,636	14.31,358	11.3	14	39.6
		2008	700,000	-	-	45.8	-	-	-	2,033,971	1,593,782	19.7	15.4	68.8
	Nigeria	2007	3,225,594	1,003,573	2,222,021	9.5	600	3,000	0.0	13,019,950	13,000,000	8.2	8.2	33.3
		2008	6,700,000	6,700,000	-	15.2	-	-	-	12,000,000	12,000,000	7.5	7.5	30.2
	Rwanda	2007	1,162,275	1,162,275	-	66.0	152,072	705,035	7.5	-	-	-	-	-
		2008	1,792,6	64.6	-	64.6	189,756	885,957	9.1	-	-	-	-	-
	Sao Tome and Principe	2007	573,799	573,799	-	726.0	22,857	117,428	74.5	5,451	5,451	14.9	14.9	47.7
		2008	787,385	787,385	-	1096.6	-	-	-	3,679	3,679	9.9	9.9	31.6
	Senegal	2007	-	-	-	6.7	-	678,971	5.7	990,141	990,141	162.3	162.3	51.8
		2008	1,572,261	1,572,261	-	32.3	-	635,666	5.2	320,335	320,335	6.9	6.9	16.5
	Sierra Leone	2007	319,199	319,199	-	59.8	-	-	-	240,404	-	2.7	2.7	6.4
		2008	541,265	541,265	-	77.8	-	-	-	828,857	-	9.1	9.1	21.4
	South Africa	2007	-	-	-	-	-	4	0.0	-	-	-	-	-
		2008	-	-	-	-	-	4	0.0	-	-	-	-	-
	Swaziland	2007	29,236	29,236	-	21.6	102,541	93	0.0	0	0	-	-	-
		2008	20,000	20,000	-	30.7	94,766	94	0.0	-	-	-	-	-
	Togo	2007	43,946	43,946	0	3.5	-	-	-	555,204	555,204	7.9	17.7	26.9
		2008	1,261,706	1,261,706	0	42.5	-	-	-	800,000	800,000	11.1	24.9	37.9
	Uganda	2007	1,622,001	1,622,001	-	23.6	486,477	1,963,945	6.4	16,919,100	-	87.8	-	308.4
		2008	2,273,413	2,273,413	-	37.2	499,998	1,888,149	5.9	6,389,600	-	32.3	-	113.6
	United Republic of Tanzania	2007	2,990,688	322,516	2,668,162	17.2	405,878	1,071,194	2.6	23,455,260	23,455,260	102.5	150	194.2
	2008	2,783,740	927,461	1,856,279	17.2	295,385	1,308,194	3.1	-	-	-	-	-	
Zambia	2007	2,458,183	2,458,183	-	56.8	-	3,288,175	26.7	3,036,982	3,036,982	-	-	-	
	2008	1,188,443	1,188,443	-	76.2	-	5,747,995	45.5	3,142,405	3,142,405	-	-	-	
Zimbabwe	2007	517,835	517,835	-	8.3	303,143	1,659,393	13.3	-	-	-	-	-	
	2008	-	-	-	8.3	156,658	929,660	7.5	-	-	-	-	-	
Argentina	2007	-	-	-	-	6,580	26,320	1.1	355	-	91.7	-	142.9	
	2008	-	-	-	-	5,628	22,512	0.9	106	-	81.5	-	127	
Bahamas	2007	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	
Belize	2007	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	
Bolivia (Plurinational State of)	2007	14,000	14,000	-	1.7	-	50,000	0.8	14,610	1,622	100	-	287	
	2008	5,000	5,000	-	1.9	-	125,000	2.0	9,894	782	100	-	287	
Brazil	2007	10,000	10,000	0	0.1	-	-	-	459,513	45,917	100.3	77	917.3	
	2008	-	-	-	-	-	-	-	347,086	45,717	110	111.2	1005.4	
Colombia	2007	87,394	87,394	-	1.3	28,728	143,940	1.0	155,132	33,240	120.8	105.6	672.3	
	2008	194,363	105,759	88,604	3.8	68,759	211,294	1.4	792,230	46,350	98.4	234.7	547.5	
Costa Rica	2007	-	-	-	-	0	-	-	12,230	12,230	1000	-	10328.3	
	2008	-	-	-	-	627	-	-	9,660	9,660	1000	-	10328.3	
Dominican Republic	2007	-	0	0	-	-	11,008	0.2	2,711	0	167.3	-	9552.7	
	2008	6,000	6,000	0	0.2	-	17,092	0.2	1,840	2	145.8	0.1	8322.9	
Ecuador	2007	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	
El Salvador	2007	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	
French Guiana	2007	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	
Guatemala	2007	427,277	427,277	-	21.3	-	-	-	-	-	-	-	-	
	2008	427,277	427,277	-	31.1	-	-	-	-	1,817,097	-	-	90854.85	
													102193472.6	

Annex 5 – Operational coverage of insecticide-treated nets, indoor residual spraying and antimalarial treatment, 2007–2008 (continued)

WHO region	Country/area	Year	No. of ITN + LLIN sold or delivered	No. of LLIN sold or delivered	No. of ITN sold or delivered	% ITN coverage	No. of people protected by IRS	% IRS coverage	Any first-line treatment courses		% Any antimalarial coverage total	% Any antimalarial coverage public	
									delivered (including ACT)	delivered			
Americas	Guyana	2007	2,784	2,784	9.1	-	-	-	11,657	4,351	100	763.7	
		2008	4,287	4,287	10.3	-	-	-	11,815	5,252	100	763.7	
	Haiti	2007	89,049	89,049	1.8	-	-	-	-	-	-	-	
		2008	125,713	125,713	4.3	-	-	-	-	-	-	-	
	Honduras	2007	-	-	0.1	-	-	-	-	-	-	-	
		2008	-	-	0.1	-	-	-	-	-	-	-	
	Jamaica	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Mexico	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Nicaragua	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Panama	2007	-	-	-	-	-	-	-	-	-	-	
		2008	6,649	-	6,649	0.4	11,975	0.4	-	-	-	-	
	Paraguay	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Peru	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Suriname	2007	7,742	-	-	28.3	-	-	-	-	-	-	
		2008	14,372	-	-	52.1	-	-	-	-	-	-	
Venezuela (Bolivarian Republic of)	2007	-	-	-	-	-	-	-	-	-	-		
	2008	6,000	-	-	0.2	2,827,542	131.2	1,814,661	7,102	5664.3	85020.6	247.5	
Eastern Mediterranean	Afghanistan	2007	345,245	345,245	2.9	-	-	-	-	-	-	-	
		2008	916,723	916,723	9.6	-	-	-	-	-	-	-	
	Djibouti	2007	-	-	5.3	-	-	-	-	-	-	-	
		2008	45,000	45,000	15.8	-	-	-	-	-	-	-	
	Egypt	2007	-	-	-	-	-	-	-	-	-	-	
		2008	-	-	-	-	-	-	-	-	-	-	
	Iran (Islamic Republic of)	2007	40,000	-	-	0.7	-	-	-	-	-	-	
		2008	50,000	-	-	0.9	-	-	-	-	-	-	
	Iraq	2007	-	-	2.5	-	-	-	-	30	0	1000	3124.8
		2008	240,000	240,000	5.6	-	-	-	-	64	24	1066.7	3749.8
Morocco	2007	-	-	-	-	-	-	-	-	-	-		
	2008	-	-	-	-	-	-	-	-	-	-		
Oman	2007	-	-	-	-	-	-	-	-	-	-		
	2008	-	-	-	-	-	-	-	-	-	-		
Pakistan	2007	90,000	-	-	0.4	-	-	-	4,513,876	178.9	1088.7		
	2008	41,400	41,400	0.3	-	4,938,975	3.0	6,762,058	264.2	264.2	1578.9		
Saudi Arabia	2007	-	0	0	-	-	-	-	2,864	100	301.3		
	2008	250,000	250,000	3.6	-	-	-	-	1,491	100	301.3		
Somalia	2007	455,000	-	-	10.4	720	0.0	-	-	-	-		
	2008	162,187	162,187	3.6	-	1,386	0.0	-	141,379	141,379	595.8		
Sudan*	2007	1,910,000	830,000	13.3	641,123	3,846,738	9.5	3,337,103	2,677,989	109.8	353.6		
	2008	1,805,540	1,755,540	16.5	456,337	2,281,687	5.5	3,073,996	3,073,996	100	322.1		
Syrian Arab Republic	2007	-	-	-	-	-	-	-	-	-	-		
	2008	-	-	-	-	-	-	-	-	-	-		
Yemen	2007	450,000	450,000	5.8	125,849	-	-	34,500	0	51	563.4		
	2008	700,000	700,000	11.8	208,326	-	-	26,163	0	59.4	656		
Europe	Armenia	2007	-	0	-	-	2,608	-	2	0	200	-	
		2008	-	0	-	-	2,120	-	1	0	100	-	
	Azerbaijan	2007	-	0	0	3.8	150,933	3.8	110	0	100	121.1	
		2008	-	0	0	-	127,665	3.2	73	0	100	121.1	
	Georgia	2007	-	-	-	-	4,260	-	25	0	108.7	129.9	
		2008	-	-	-	-	4,260	-	8	0	133.3	159.4	
	Kyrgyzstan	2007	20,000	0	20,000	1.0	123,000	3.0	96	0	100	101.7	
	2008	68,000	0	68,000	3.2	313,003	7.4	18	0	100	101.7		

Annex 5 – Operational coverage of insecticide-treated nets, indoor residual spraying and antimalarial treatment, 2007–2008 (continued)

WHO region	Country/area	Year	No. of ITN + LLIN sold or delivered	No. of LLIN sold or delivered	No. of ITN sold or delivered	% ITN coverage	No. of houses sprayed	No. of people protected by IRS	% IRS coverage	Any 1st-line treatment courses delivered (including ACT)	ACT treatment courses delivered	% Any antimalarial coverage total	% Any antimalarial coverage public	% ACT coverage total	% ACT coverage public
Europe	Russian Federation	2007	-	-	-	-	-	-	-	-	-	-	-	-	-
		2008	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tajikistan	2007	26,438	26,438	26,438	1.6	183,464	552,912	10.8	635	7	100	206.1	115.1	237.2
		2008	19,494	19,494	19,494	2.3	624,000	632,622	12.2	318	2	100	117.6	115.1	135.4
	Turkey	2007	-	-	-	-	21,901	109,595	1.8	2,600	-	1040	-	1386.1	-
		2008	-	-	-	-	65,475	327,375	5.3	980	-	720.6	-	980.4	-
	Turkmenistan	2007	-	0	0	-	-	-	-	-	0	0	-	-	-
		2008	-	0	0	-	-	-	-	-	1	0	-	-	-
South-East Asia	Uzbekistan	2007	3,000	3,000	0	0.3	21,689	130,192	6.6	89	0	100	-	119.5	-
		2008	10,000	10,000	0	1.3	22,396	134,376	6.7	27	0	100	-	119.5	-
	Bangladesh	2007	-	-	-	0.0	-	-	-	241,398	114,980	97.2	64.7	2551.9	1700.5
		2008	1,863,940	1,200,000	663,940	3.2	-	-	-	164,394	110,280	97.5	91.5	2559.8	2402.1
	Bhutan	2007	4,561	4,561	-	40.3	39,763	185,905	37.2	793	379	100	115.6	17657.4	20415
		2008	10,000	10,000	-	43.7	19,914	97,484	19.2	329	181	100	133.1	17657.4	23498.9
	Democratic People's Republic of Korea	2007	-	-	-	0.3	500,000	5,205	0.0	-	-	-	-	-	-
		2008	-	-	-	0.3	-	-	-	-	-	-	-	-	-
	Democratic Republic of Timor-Leste	2007	95,914	95,914	-	22.1	-	-	-	213,402	34,174	99.1	22.2	1370.5	307
		2008	79,226	79,226	-	35.9	-	-	-	143,594	34,406	100	33.5	1383.3	463.6
	India	2007	7,000,000	0	7,000,000	4.8	-	70,853,795	24.3	1,508,927	550,000	100	78.6	4150.3	3283.9
		2008	7,240,000	0	7,240,000	4.9	-	53,773,347	18.2	1,532,497	622,000	100	87.6	4150.4	3634.4
Indonesia	2007	250,000	-	250,000	4.0	40,000	-	-	-	-	-	-	-	-	
	2008	-	-	-	3.5	1,383	-	-	338,629	327,440	28.1	57.1	81.1	164.8	
Myanmar	2007	298,579	127,384	171,195	2.2	3,098	10,479	0.0	-	226,397	-	46.4	-	1168.7	
	2008	693,858	112,865	580,993	5.1	2,902	11,284	0.0	-	187,102	-	42.7	-	1075.4	
Nepal	2007	154,300	154,300	-	2.3	56,263	904,540	3.8	106,100	33,816	100	213.2	427.8	912.2	
	2008	380,899	380,899	-	5.5	-	-	-	106,100	33,816	100	213.2	427.8	912.2	
Sri Lanka	2007	-	0	0	3.1	92,609	358,104	5.6	198	-	100	-	476.3	-	
	2008	253,000	253,000	-	11.0	189,090	727,431	11.3	670	640	100	1422.5	476.3	6774.8	
Thailand	2007	-	-	-	0.0	152,899	493,224	1.2	33,178	33,178	100	226.8	39386.8	89319.6	
	2008	66,212	-	66,212	0.4	201,730	650,742	1.6	26,150	26,150	100	226.8	39386.8	89319.6	
Cambodia	2007	456,581	120,598	335,983	12.0	0	0	0.0	91,839	150,819	216	989.9	1138.1	5215.8	
	2008	742,748	214,973	527,775	22.2	81,493	0	0.0	110,001	81,090	261.1	537.2	1376	2830.6	
China	2007	815,174	168,533	646,641	1.2	389	-	-	321,520	66,952	1097.2	311.3	28399.7	81825.6	
	2008	1,208,127	581,992	627,135	2.0	382	-	-	241,127	12,200	1448.2	988.4	38086.3	26242.1	
Lao People's Democratic Republic	2007	422,900	134,000	288,900	13.9	-	-	-	164,160	164,160	806.1	3697.3	5476.2	25116.8	
	2008	395,275	79,000	322,275	17.1	-	-	-	287,160	287,160	1546.7	7094	10507	48191	
Malaysia	2007	176,462	1,000	175,462	7.5	-	301,733	6.4	5,456	-	134.3	-	24607.8	-	
	2008	204,455	503	203,952	8.5	-	362,460	7.5	7,990	-	132	-	24197.1	-	
Papua New Guinea	2007	53,500	53,500	-	16.0	-	24,699	0.4	-	-	-	-	-	-	
	2008	438,441	438,441	-	29.0	-	-	-	-	110,000	-	10.7	-	27.1	
Philippines	2007	620,010	-	-	2.9	-	853,099	2.0	-	-	-	-	-	-	
	2008	444,390	-	-	2.9	-	15,570,992	35.9	-	-	-	-	-	-	
Republic of Korea	2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2008	-	-	-	-	-	-	-	-	-	-	-	-	-	
Solomon Islands	2007	70,000	70,000	-	49.7	34,875	154,854	31.3	-	-	-	-	-	-	
	2008	61,805	61,805	-	72.8	30,292	143,443	28.2	-	-	-	-	-	-	
Vanuatu	2007	29,154	29,154	0	45.8	-	-	-	230,691	-	-	-	16047.3	-	
	2008	47,241	47,241	0	85.3	-	-	-	208,213	-	-	-	22789.9	-	
Viet Nam	2007	600,000	-	600,000	1.4	-	1,767,840	2.1	1,300,000	112,500	7932.1	928	157429.1	18417.4	
	2008	300,000	-	300,000	0.7	-	1,659,873	1.9	811,000	109,725	7142.2	1306.3	141751.6	25296.7	

Mauritius is one of the countries listed but it has had no ongoing local transmission for over a decade.

*Data for Sudan only represents 15 northern states.

Annex 6.A – Household surveys of mosquito nets ownership and usage, 2006–2008

WHO region/subregion	Country/area	Year	Source	% of HH with ≥ 1 ever treated		% of HH with ≥ 1 ever treated		% of children <5 years who slept under ITN		% of children <5 years who slept under ITN		% of pregnant women who slept under ITN		% of pregnant women who slept under ITN		
				any net	Subgroup	with ≥ 1	ITN	any net	ITN	any net	ITN	any net	ITN	any net	ITN	
Africa	Angola	2006	MIS 2006-07	33	-	28	21	18	-	18	-	22	-	22	-	22
		2006	MIS 2006-07	34	-	29	19	17	-	17	-	15	-	15	-	15
	Benin	2006	MIS 2006-07	31	-	26	22	19	-	19	-	19	-	19	-	19
		2007	MIS 2007	-	-	28	-	17	-	17	-	-	-	-	-	-
	Burkina Faso	2006	MIS 2006	56	-	25	47	20	-	20	-	20	-	20	-	20
		2006	DHS 2006	66	-	29	55	25	-	25	-	25	-	25	-	25
	Cameroon	2006	MIS 2006	52	-	23	18	10	-	10	-	10	-	10	-	10
		2006	MIS 2006	65	-	45	33	24	-	24	-	24	-	24	-	24
	Central African Republic	2006	MIS 2006	47	-	15	14	6	-	6	-	6	-	6	-	6
		2006	MIS 2006	32	-	20	27	13	-	13	-	13	-	13	-	13
	Côte d'Ivoire	2006	MIS 2006	33	-	20	32	14	-	14	-	14	-	14	-	14
		2006	MIS 2006	30	-	20	22	12	-	12	-	12	-	12	-	12
	Democratic Republic of the Congo	2006	MIS 2006	36	-	17	33	15	-	15	-	15	-	15	-	15
		2006	MIS 2006	54	-	27	52	24	-	24	-	24	-	24	-	24
	Equatorial Guinea	2006	MIS 2006	26	-	12	22	10	-	10	-	10	-	10	-	10
		2006	MIS 2006	27	-	6	17	6	-	6	-	6	-	6	-	6
Ethiopia	2006	MIS 2006	22	-	6	16	8	-	8	-	8	-	8	-	8	
	2006	MIS 2006	31	-	6	18	4	-	4	-	4	-	4	-	4	
Gambia	2007	DHS 2007	-	-	9	-	6	-	6	-	-	-	-	-	-	
	2007	DHS 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
Guinea-Bissau	2007	Other Nat.	-	-	26	-	42	-	42	-	-	-	-	-	-	
	2007	Other Nat.	-	-	64	-	-	-	-	-	-	-	-	-	-	
Kenya	2007	MIS 2007	56	54	53	35	33	33	33	37	35	37	35	35	35	
	2007	MIS 2007	69	-	65	-	42	-	42	-	43	-	43	-	43	
Liberia	2007	MIS 2007	41	40	40	41	36	36	36	37	34	37	34	34	34	
	2007	MIS 2007	59	57	56	34	33	33	33	37	36	37	36	36	36	
Madagascar	2006	MIS 2006	59	-	50	63	49	-	49	-	49	-	49	-	49	
	2006	MIS 2006	49	-	13	55	38	-	38	-	38	-	38	-	38	
Malawi	2006	MIS 2006	70	-	38	68	55	-	55	-	55	-	55	-	55	
	2006	MIS 2006	30	-	19	33	22	-	22	-	22	-	22	-	22	
Mali	2006	MIS 2006	21	-	15	22	16	-	16	-	16	-	16	-	16	
	2006	MIS 2006	37	-	22	38	25	-	25	-	25	-	25	-	25	
Mozambique	2008	DHS 2008	-	-	33	-	28	-	28	-	-	-	-	-	-	
	2006	MIS 2006	79	-	44	73	39	-	39	-	39	-	39	-	39	
Niger	2006	MIS 2006	82	-	35	80	42	-	42	-	42	-	42	-	42	
	2006	MIS 2006	78	-	49	71	42	-	42	-	42	-	42	-	42	
Rwanda	2007	MIS 2007	-	-	48	-	39	-	39	-	-	-	-	-	-	
	2007	MIS 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
Senegal	2008	DHS 2008	-	-	48	-	39	-	39	-	-	-	-	-	-	
	2008	DHS 2008	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tanzania	2007	DHS 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2007	DHS 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zambia	2008	Other Nat.	-	-	59	-	60	-	60	-	-	-	-	-	-	
	2006	MIS 2006	50	-	36	29	25	-	25	-	25	-	25	-	25	
Zimbabwe	2006	MIS 2006	72	-	56	52	43	-	43	-	43	-	43	-	43	
	2006	MIS 2006	47	-	34	26	21	-	21	-	21	-	21	-	21	

WHO region/subregion	Country/area	Year	Source	Subgroup	% of HH with ≥ 1 ever treated		% of HH with ≥ 1 any net		% of children <5 years who slept under any net		% of children <5 years who slept under ITN		% of pregnant women who ever treated any net		% of pregnant women who slept under ITN				
					net	any net	any net	ITN	net	ITN	any net	ITN	any net	ITN	any net	ITN			
Africa	Mali	2006	DHS 2006	Total	69	50	41	27	29										
		2006	DHS 2006	Urban	72	54	41	29	22										
		2006	DHS 2006	Rural	68	48	41	26	31										
	Mauritania	2006	MICS 2006	Total	-	3	-	-	-										
		2007	MICS 2007	Total	-	-	-	-	-										
	Mozambique	2007	MIS 2007	Total	-	16	-	-	-										
		2007	MIS 2007	Rural	-	-	-	-	-										
		2008	MICS 2008	Total	-	-	-	-	-										
	Niger	CDC-MMP National Survey	2006	Total	-	65	-	-	56	48									
			2006	DHS 2006	Total	69	43	15	15	13	7								
			2006	DHS 2006	Urban	76	37	32	32	30	15								
			2006	DHS 2006	Rural	68	44	12	12	11	6								
2007			MICS 2007	Total	-	-	-	-	-	-									
2008			DHS 2008	Total	-	8	-	-	6	-									
Rwanda	2007	MIS 2007	Total	-	50	-	-	56	-										
	2008	DHS 2008	Total	-	56	-	-	24	-										
	2008	DHS 2008	Rural	-	-	-	-	-	-										
Sao Tome and Principe	2006	MICS 2006	Total	49	36	53	42	-											
	2006	MICS 2006	Urban	58	44	62	51	-											
	2006	MICS 2006	Rural	37	25	41	29	-											
	2007	MOH 2007	Total	-	78	-	54	-											
	2006	MIS 2006	Total	57	36	28	16	-											
Senegal	2006	MIS 2006	Urban	47	34	23	15	-											
	2006	MIS 2006	Rural	65	38	30	17	-											
	2008	MIS 2008	Total	-	63	-	31	-											
	2007	MIS 2007	Total	-	59	-	56	-											
Togo	2008	DHS 2008	Total	-	37	-	26	-											
	2006	MICS 2006	Total	46	40	41	38	-											
	2006	MICS 2006	Urban	44	37	39	36	-											
Uganda	2006	MICS 2006	Rural	47	42	42	40	-											
	2008	CDC-Moh	Total	-	56	-	35	-											
	2006	DHS 2006	Total	34	21	22	13	9	24	13									
	2006	DHS 2006	Urban	61	36	49	29	21	49	27									
	2006	DHS 2006	Rural	29	19	18	11	8	22	12									
	2008	AIS/MIS 2008	Total	-	72	-	59	-	-	-									
Zambia	2008	AIS/MIS 2008	Rural	-	-	-	-	-	-										
	2006	MIS 2006	Total	50	44	27	23	-	-	24									
	2006	MIS 2006	Urban	51	45	31	26	-	-	18									
Eastern Mediterranean	Afghanistan	2006	MIS 2006	Rural	50	44	24	21	-	-									
		2007	DHS 2007	Total	-	53	-	28	-	-									
		2007	DHS 2007	Rural	-	-	-	-	-	-									
	Djibouti	2008	MIS 2008	Total	-	62	-	41	-	-									
		2008	NMILCP	Rural	42	31	-	6	-	-									
		2006	MICS 2006	Total	26	18	9	1	-	-	10								
Pakistan	2006	MICS 2006	Urban	26	18	9	1	-	-										
	2006	MICS 2006	Rural	22	12	8	1	-	-										
	2007	DHS 2007	Total	6	1	-	0	-	-	2									

Annex 6.A – Household surveys of mosquito nets ownership and usage, 2006–2008 (continued)

WHO region/subregion	Country/area	Year	Source	% of HH with ≥ 1 ever treated		% of HH with ≥ 1 any net		% of children <5 years who slept under any net		% of children <5 years who ever treated		% of children <5 years who slept under an ITN		% of pregnant women who ever treated		% of pregnant women who slept under an ITN	
				Subgroup	ITN	with ≥ 1	any net	slept under any net	ever treated	slept under an ITN	slept under any net	ever treated	slept under an ITN	slept under any net	slept under an ITN		
Eastern Mediterranean	Somalia	2006	MICS 2006	-	12	22	18	-	-	-	-	9	-	-	-	-	
		2006	MICS 2006	-	16	27	25	-	-	-	-	15	-	-	-	-	
		2006	MICS 2006	-	10	20	14	-	-	-	-	6	-	-	-	-	
South-East Asia	Sudan (North)	2006	Sudan Household Health Survey	-	18	37	-	-	-	-	-	28	-	-	-	-	
		2007	DHS 2007	4	3	32	31	4	4	3	23	3	2	2			
		2007	DHS 2003 (National report)	2	1	18	19	2	2	2	11	2	1	1			
		2007	DHS 2007	-	-	-	-	-	-	-	-	-	-	-			
		2007	DHS 2007	5	4	42	40	6	6	5	33	5	4	3			
Western Pacific	Cambodia	2007	CMS 2007	-	36	95	-	-	-	-	-	28	-	-	-	28	
		2008	IndoChina research / CMPE	-	56	97	-	-	-	-	-	43	-	-	50		
		2006	MICS 2006	-	19	97	94	-	-	-	-	5	-	-			
		2006	MICS 2006	-	5	92	88	-	-	-	-	12	-	-			
		2006	MICS 2006	-	23	99	95	-	-	-	-	3	-	-			

*Data updated by DHS since the original publication.

^aPercentages calculated using the population at risk.

AIS = AIDS Indicator Survey.

CDC-MMP = Centers for Disease Control and Prevention - Malaria Measles Partnership.

DHS = Demographic and Health Survey.

MICS = Multiple Indicator Cluster Survey.

MIS = Malaria Indicator Survey.

WHO region	Country/Area	Year	Source	Subgroup	% of children < 5 with fever who took SP/Fansidar same or next day	% of children < 5 with fever who took chloroquine same or next day	% of children < 5 with fever who took ACT same or next day	% of children < 5 years with fever who took SP/Fansidar	% of children < 5 years with fever who took chloroquine	% of children < 5 years with fever who took ACT	% of children < 5 years with fever who took antimalarial drugs	% of pregnant women who took at least 2 doses SP/Fansidar
Africa	Angola	2006	MIS 2006-07	Total	-	-	-	18	14	2	29	3
		2006	MIS 2006-07	Urban	-	-	-	27	-	-	38	4
		2006	MIS 2006-07	Rural	-	-	-	12	-	-	23	1
		2007	MIS 2007	Total	-	-	-	13	14	3	28	3
		2007	MIS 2007	Rural	-	-	-	-	-	-	-	-
		2008	MICS 2008	Total	-	-	-	-	-	-	-	-
	Benin	2006	DHS 2006	Total	-	-	-	42	49	0	54	3
		2006	DHS 2006	Urban	-	-	-	48	-	-	57	3
		2006	DHS 2006	Rural	-	-	-	39	-	-	53	3
	Burkina Faso	2006	MICS 2006	Total	-	-	-	41	46	0	48	1
		2006	MICS 2006	Urban	-	-	-	61	-	-	70	2
		2006	MICS 2006	Rural	-	-	-	36	-	-	42	1
	Cameroon	2006	MICS 2006	Total	-	-	-	38	8	2	58	6
		2006	MICS 2006	Urban	-	-	-	53	-	-	69	8
		2006	MICS 2006	Rural	-	-	-	29	-	-	50	4
	Central African Republic	2006	MICS 2006	Total	-	-	-	42	29	3	57	9
		2006	MICS 2006	Urban	-	-	-	48	-	-	68	15
		2006	MICS 2006	Rural	-	-	-	36	-	-	47	5
	Côte d'Ivoire	2006	MICS 2006	Total	-	-	-	26	31	3	36	8
		2006	MICS 2006	Urban	-	-	-	32	-	-	45	10
		2006	MICS 2006	Rural	-	-	-	23	-	-	32	7
	Democratic Republic of the Congo	2007	DHS 2007	Total	-	-	-	17	6	1	30	5
		2007	DHS 2007	Rural	-	-	-	-	-	-	-	-
Equatorial Guinea	2007	Other Nat.	Total	-	-	-	-	-	-	-	-	
	2008	Other Nat.	Total	-	-	-	-	-	-	3	16	
Ethiopia	2007	MIS 2007	Total	-	-	-	4	-	-	4	10	
	2007	MIS 2007	Urban	-	-	-	4	-	-	13	-	
	2007	MIS 2007	Rural	-	-	-	4	-	-	9	-	
	2007	MIS 2007*	Total	-	-	-	5	-	-	12	-	
Gambia	2006	MICS 2006	Total	-	-	-	52	58	0	63	33	
	2006	MICS 2006	Urban	-	-	-	54	-	-	59	31	
	2006	MICS 2006	Rural	-	-	-	52	-	-	65	34	
Ghana	2006	MICS 2006	Total	-	-	-	48	42	4	61	27	
	2006	MICS 2006	Urban	-	-	-	58	-	-	69	35	
	2006	MICS 2006	Rural	-	-	-	44	-	-	57	24	
	2008	DHS 2008	Total	-	-	-	-	-	12	24	-	
Guinea-Bissau	2006	MICS 2006	Total	-	-	-	27	41	2	46	7	
	2006	MICS 2006	Urban	-	-	-	47	-	-	60	9	
	2006	MICS 2006	Rural	-	-	-	18	-	-	39	7	
Kenya	2007	MIS 2007	Total	-	-	-	15	-	8	24	13	
	2007	MIS 2007	Rural	-	-	-	-	-	-	-	-	
	2008	DHS 2008	Total	-	-	-	-	-	-	24	-	
	2008	DHS 2008	Rural	-	-	-	-	-	-	-	-	
Liberia	2007	DHS 2007	Total	-	-	-	26	43	3	59	12	
Madagascar	2008	Other Nat.	Total	-	-	-	-	-	-	-	-	
Malawi	2006	MICS 2006	Total	-	-	-	20	1	0	24	45	
	2006	MICS 2006	Urban	-	-	-	24	-	-	30	52	
	2006	MICS 2006	Rural	-	-	-	20	-	-	23	44	
Mali	2006	DHS 2006	Total	-	-	-	15	22	2	32	4	
	2006	DHS 2006	Urban	-	-	-	16	-	-	35	10	
	2006	DHS 2006	Rural	-	-	-	14	-	-	31	2	

Annex 6.B – Household surveys of antimalarial treatment, 2006–2008 (continued)

WHO region	Country/area	Year	Source	Subgroup	% of children < 5 with fever who took SP/ Fansidar same or next day	% of children < 5 with fever who took chloroquine same or next day	% of children < 5 with fever who took ACT antimalarial drugs same or next day	% of children < 5 years with fever who took Fansidar	% of children < 5 years with fever who took SP/ chloroquine	% of children < 5 years with fever who took ACT antimalarial drugs	% of children < 5 years with fever who took any antimalarial drugs	% of pregnant women who took at least 2 doses SP/Fansidar	
Africa	Mauritania	2006	MICS 2006	Total	-	-	-	3	6	1	21	-	
		2007	MICS 2007	Total	-	-	-	-	-	-	-	-	-
	Mozambique	2007	MIS 2007	Total	-	-	18	-	-	-	-	23	16
		2007	MIS 2007	Rural	-	-	-	-	-	-	-	-	-
		2008	MICS 2008	Total	-	-	-	-	-	-	-	-	-
	Niger	2006	CDC-MIP National Survey	Total	-	-	-	-	-	-	-	-	-
		2006	DHS 2006	Total	0	22	25	1	29	-	-	33	0
		2006	DHS 2006	Urban	2	29	34	2	38	-	-	45	1
		2006	DHS 2006	Rural	0	20	23	0	27	-	-	31	0
	Nigeria	2007	MICS 2007	Total	-	-	-	-	-	-	-	-	-
2008		DHS 2008	Total	-	-	15	-	-	-	-	33	7	
2008		DHS 2008	Rural	-	-	-	-	-	-	-	-	-	
2008		DHS 2008	Total	-	-	0	-	-	-	-	5	6	
Sao Tome and Principe	2006	MICS 2006	Total	-	-	17	1	2	6	25	-	-	
	2006	MICS 2006	Urban	-	-	17	-	-	-	22	-	-	
	2006	MICS 2006	Rural	-	-	16	-	-	-	28	-	-	
	2007	MOH 2007	Total	-	-	-	-	-	-	-	-	-	
Senegal	2006	MIS 2006	Total	-	-	9	0	7	6	22	49	-	
	2006	MIS 2006	Urban	-	-	12	-	-	-	19	55	-	
	2006	MIS 2006	Rural	-	-	10	-	-	-	24	46	-	
	2008	MIS 2008	Total	-	-	-	-	-	-	-	-	-	
Sierra Leone	2007	MIS 2007	Total	-	-	-	-	-	-	-	-	-	
	2008	DHS 2008	Total	-	-	-	-	-	-	-	30	-	
Togo	2006	MICS 2006	Total	-	-	38	3	32	1	48	18	-	
	2006	MICS 2006	Urban	-	-	49	-	-	-	57	18	-	
	2006	MICS 2006	Rural	-	-	32	-	-	-	43	18	-	
	2008	CDC-MoH	Total	-	-	-	-	-	11	37	-	-	
Uganda	2006	DHS 2006	Total	10	20	29	19	41	3	61	16	-	
	2006	DHS 2006	Urban	2	10	27	6	24	4	58	17	-	
	2006	DHS 2006	Rural	3	13	29	6	28	3	62	16	-	
	2008	AMS/MIS 2008	Total	-	-	37	-	-	10	38	52	-	
Zambia	2006	MIS 2006	Total	-	-	37	33	-	13	58	61	-	
	2006	MIS 2006	Urban	-	-	49	-	-	-	74	71	-	
	2006	MIS 2006	Rural	-	-	35	-	-	-	55	56	-	
	2007	DHS 2007	Total	-	-	21	23	1	11	38	63	-	
United Republic of Tanzania (Zanzibar)	2007	DHS 2007	Total	-	-	29	21	-	-	-	-	-	
	2008	MIS 2008	Total	-	-	29	21	-	13	43	60	-	
	2008	MIS 2008	Rural	-	-	-	-	-	-	-	-	-	
	2008	NMLCP	Total	-	-	3	4	-	-	8	-	-	
Eastern Mediterranean	Djibouti	2006	MICS 2006	Total	-	-	3	-	5	0	10	-	
		2006	MICS 2006	Urban	-	-	3	-	-	-	10	-	
	2006	MICS 2006	Rural	-	-	0	-	-	-	0	-	-	
	2007	DHS 2007	Total	0	3	-	-	-	0	3	0	-	
Somalia	2006	MICS 2006	Total	-	-	3	2	6	1	8	1	-	
	2006	MICS 2006	Urban	-	-	7	-	-	-	14	1	-	
2006	MICS 2006	Rural	-	-	1	-	-	-	6	1	-		
2006	Sudan Household Health Survey	Total	-	-	3	-	-	-	4	54	-		

Annex 6.B – Household surveys of antimalarial treatment, 2006–2008 (continued)

WHO region	Country/area	Year	Source	Subgroup	% of children < 5 years with fever who took SP/ Fansidar same or next day		% of children < 5 years with fever who took ACT antimalarial drugs same or next day		% of children < 5 years with fever who took Fansidar		% of children < 5 years with fever who took chloroquine		% of children < 5 years with fever who took ACT antimalarial drugs		% of children < 5 years with fever who took SP/Fansidar	
					with fever who took SP/ Fansidar same or next day	with fever who took chloroquine same or next day	with fever who took ACT antimalarial drugs same or next day	with fever who took Fansidar	with fever who took chloroquine	with fever who took ACT antimalarial drugs	with fever who took SP/ Fansidar					
South-East Asia	Indonesia	2007	DHS 2003 (National report)	Urban	-	-	-	-	-	-	-	-	-	-	-	-
		2007	DHS 2007	Total	-	-	-	-	-	-	-	-	-	-	-	-
		2007	DHS 2007	Urban	-	-	-	-	-	-	-	-	-	-	-	-
Western Pacific	Cambodia	2007	DHS 2007	Rural	-	-	-	-	-	-	-	-	-	-	-	-
		2007	GMS 2007	Rural	-	-	-	-	-	-	-	-	-	-	-	-
		2007	IndoChina research / CMPE	Rural	-	-	-	-	-	-	-	-	-	-	-	-
Western Pacific	Lao People's Democratic Republic	2008	MICS 2006	Total	-	-	-	-	-	-	-	-	-	-	-	-
		2006	MICS 2006	Urban	-	-	-	-	-	-	-	-	-	-	-	-
		2006	MICS 2006	Rural	-	-	-	-	-	-	-	-	-	-	-	-
Western Pacific	Viet Nam	2006	MICS 2006	Total	-	-	-	-	-	-	-	-	-	-	-	-
		2006	MICS 2006	Urban	-	-	-	-	-	-	-	-	-	-	-	-
		2006	MICS 2006	Rural	-	-	-	-	-	-	-	-	-	-	-	-

*Data updated by DHS since the original publication.
 #Percentages calculated using the population at risk.
 AIS = AIDS Indicator Survey.
 CDC-MMP = Centers for Disease Control and Prevention - Malaria Measles Partnership.
 DHS = Demographic and Health Survey.
 MICS = Multiple Indicator Cluster Survey.
 MIS = Malaria Indicator Survey.
 Other/Nat. = Other national survey

Annex 7 – Funding for malaria control, 2008

WHO Region/ Sub-region	Country	Year	Global Fund ^a	PIU ^b	The World Bank ^c	Government	Global Fund	The World Bank	bilaterals	UN Agencies	European Union	Other	
Africa	Angola	2008	9,872,558	-	-	17,568,587	-	-	-	-	-	-	
	Benin	2008	6,345,919	-	-	-	-	4,606,000	-	-	-	-	
	Botswana	2008	-	-	-	1,000,000	-	-	-	-	-	-	
	Burkina Faso	2008	7,283,872	-	-	58,662	406,699,675	-	-	-	-	-	
	Burundi	2008	9,623,263	-	-	46,000,000	4,683,029	-	-	-	-	-	
	Cameroon	2008	6,046,764	-	-	15,023,247	11,506,022	-	-	-	-	-	
	Central African Republic	2008	2,294,055	-	-	19,000	3,992,312	600,000	-	-	-	-	
	Comoros	2008	264,709	-	-	-	264,708	-	-	-	-	-	
	Congo	2008	-	-	4,500,000	-	-	-	-	-	-	-	-
	Democratic Republic of the Congo	2008	18,188,352	-	-	2,000,000	4,071,981	43,000,000	-	-	-	-	
	Equatorial Guinea	2008	6,305,881	-	-	776,600	8,245,229	-	-	-	-	-	
	Eritrea	2008	4,754,718	-	-	-	4,792,642	300,000	-	-	-	-	
	Ethiopia	2008	3,138,583	-	-	-	-	-	-	-	-	-	
	Gabon	2008	1,338,162	-	-	1,276,856	450,693	-	-	-	-	-	
	Gambia	2008	5,683,473	-	-	-	5,683,474	-	-	-	-	-	
	Ghana	2008	10,544,980	-	-	-	16,206,474	-	-	-	-	-	
	Guinea	2008	1,002,592	-	-	-	17,339,248	1,181,250	-	-	-	-	
	Guinea-Bissau	2008	1,526,060	-	-	-	1,545,699	-	-	-	-	-	
	Kenya	2008	18,964,849	-	-	32,566	37,543,798	-	-	-	-	-	
	Liberia	2008	8,863,680	-	-	60,118	6,347,301	-	-	-	-	-	
	Madagascar	2008	15,103,081	-	-	19,387	5,814,063	-	-	-	-	-	
	Malawi	2008	14,961,664	-	-	24,000,000	-	-	-	-	-	-	
	Mali	2008	4,233,040	-	-	-	6,703,715	1,749,540	-	-	-	-	
	Mauritania	2008	1,342,027	-	-	-	-	-	-	-	-	-	
	Mozambique	2008	11,625,136	-	-	-	-	-	-	-	-	-	
	Namibia	2008	412,016	-	-	1,692,308	-	-	-	-	-	-	
	Niger	2008	12,345,165	-	-	-	-	-	-	-	-	-	
	Nigeria	2008	16,273,780	-	-	14,324,952	15,353,110	52,358,702	-	-	-	-	
	Rwanda	2008	19,260,378	-	-	500,000	12,884,983	3,083,332	-	-	-	-	
	Sao Tome and Principe	2008	2,424,782	-	-	115,990	535,989	40,000	-	-	-	-	
	Senegal	2008	5,839,346	-	-	176,000	-	-	-	-	-	-	
	Sierra Leone	2008	4,840,240	-	-	318,966	-	-	-	-	-	-	
Swaziland	2008	294,218	-	-	65,892	-	-	-	-	-	-		
Togo	2008	5,026,694	-	-	-	2,442,924	-	-	-	-	-		
Uganda	2008	6,335,768	-	-	19,445,544	-	-	-	-	-	-		
United Republic of Tanzania	2008	58,667,840	-	-	-	-	-	-	-	-	-		
Zambia	2008	15,423,129	-	8,000,000	2,000,000	-	-	-	-	-	-		
Zimbabwe	2008	-	-	-	1,675,435	1,100,000	-	-	-	-	-		

Annex 7 – Funding for malaria control, 2008 (continued)

WHO Region/ Sub-region	Country	Year	Global Fund ^a	PMI ^b	The World Bank ^c	Government	Global Fund	The World Bank	bilaterals	UN Agencies	European Union	Other	
Americas	Bolivia (Plurinational State of)	2008	-	-	-	-	-	-	-	-	70,000	-	
	Brazil	2008	-	-	-	106,000,000	-	-	-	-	-	-	
	Costa Rica	2008	-	-	-	6,720,000	-	-	-	-	-	-	
	Guatemala	2008	3,325,400	-	-	-	-	-	-	-	-	-	
	Guyana	2008	141,763	-	-	560,600	337,620	-	-	-	14,000	-	
	Haiti	2008	3,322,684	-	-	-	2,085,000	-	-	-	-	-	
	Honduras	2008	968,258	-	-	-	-	-	-	-	-	-	
	Nicaragua	2008	793,799	-	-	-	-	-	-	-	-	-	
	Suriname	2008	875,248	-	-	-	-	-	-	-	-	-	
	Eastern Mediterranean	Afghanistan	2008	8,141,152	-	-	332,259	7,785,080	-	-	-	-	-
Djibouti		2008	1,244,752	-	-	-	-	-	-	-	-	-	
Iran (Islamic Republic of)		2008	2,797,683	-	-	7,500,000	664,575	-	-	-	-	-	
Pakistan		2008	1,642,417	-	-	-	2,500,000	-	-	-	-	-	
Saudi Arabia		2008	-	-	-	27,345,844	-	-	-	-	-	-	
Somalia		2008	3,784,480	-	-	-	-	-	-	-	-	-	
Sudan*		2008	34,517,515	-	-	13,325,129	3,700,680	-	-	-	-	-	
Yemen		2008	5,044,737	-	-	2,465,870	4,185,533	41,360	-	-	-	-	
Europe		Azerbaijan	2008	1,295,872	-	-	-	-	-	-	-	-	-
		Georgia	2008	705,430	-	-	47,904	603,680	-	-	-	-	-
	Kyrgyzstan	2008	-	-	-	68,500	647,245	-	-	-	-	-	
	Tajikistan	2008	1,822,811	-	-	-	1,464,503	-	-	-	-	-	
	Turkey	2008	-	-	-	40,850,967	-	-	-	-	-	-	
	Uzbekistan	2008	508,704	-	-	120,813	320,146	-	-	-	-	-	
	South-East Asia	Bangladesh	2008	8,370,698	-	-	528,209	9,580,687	700,000	-	-	-	-
		Bhutan	2008	1,059,849	-	-	0	1	-	-	-	-	-
		Democratic Republic of Timor-Leste	2008	-	-	-	719,632	-	-	-	-	-	-
		India	2008	34,286,405	-	-	73,943,830	13,863,557	28,619,974	-	-	-	-
Indonesia		2008	20,841,603	-	-	1,664,912	13,199,217	-	-	-	-	-	
Nepal		2008	4,480,142	-	-	961,457	924,791	-	-	-	-	-	
Sri Lanka		2008	3,929,226	-	-	4,144,123	157,300	-	-	-	-	-	
Thailand		2008	5,977,700	-	-	2,827,000	3,513,961	-	-	-	-	-	
Western Pacific		Cambodia	2008	10,598,785	-	-	1,508,803	4,827,529	-	-	-	-	-
		China	2008	5,473,763	-	-	-	9,133,011	-	-	-	-	-
	Laos People's Democratic Republic	2008	7,840,252	-	-	594,912	7,242,608	-	-	-	-	-	
	Papua New Guinea	2008	6,385,835	-	-	-	6,385,835	-	-	-	-	-	
	Philippines	2008	5,310,226	-	-	1,600,000	-	-	-	-	-	-	
	Republic of Korea	2008	-	-	-	792,000	-	-	-	-	-	-	
	Solomon Islands	2008	-	-	-	3,613,227	483,416	-	-	-	-	-	
	Vanuatu	2008	-	-	-	-	264,300	-	-	-	-	-	
	Viet Nam	2008	8,395,846	-	-	4,599,534	3,178,551	-	-	-	-	-	

^aSource: The Global Fund web site (Malaria specific grants, Integrated and Health Systems Strengthening grants are not included)

^bSource: PMI web site

^cSource: The World Bank web site, funds for 3 years

* Data reported by Sudan represents only the northern states.