

Democratic Republic of Timor-Leste

I. EPIDEMIOLOGICAL PROFILE

Population, endemicity and malaria burden

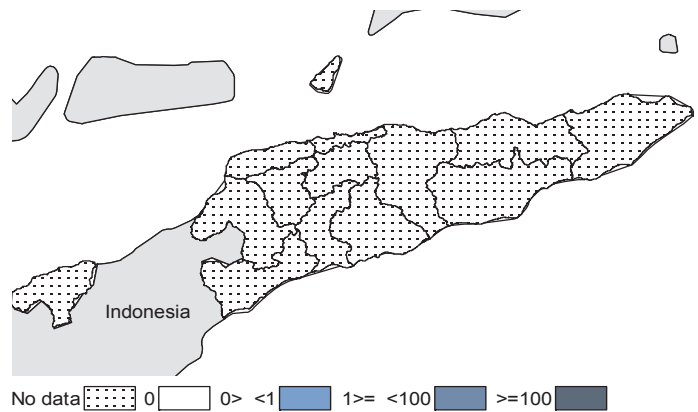
Population (000)	2006	%
All age groups	1 114	
< 5 years	190	17
≥ 5 years	924	83

Population by malaria endemicity (000)	2006	%
High transmission ≥ 1/1000	1 114	100
Low transmission (0-1/1000)	0	0
Malaria-free (0 cases)	0	0
Rural population	814	73

Vector and parasite profile

Major Anopheles species	<i>acoitus</i> , <i>annularis</i> , <i>barbistris</i> , <i>maculatus</i> , <i>minimus</i> , <i>subpictus</i> , <i>sundaicus</i>
Plasmodium species	<i>falciparum</i> , <i>vivax</i>

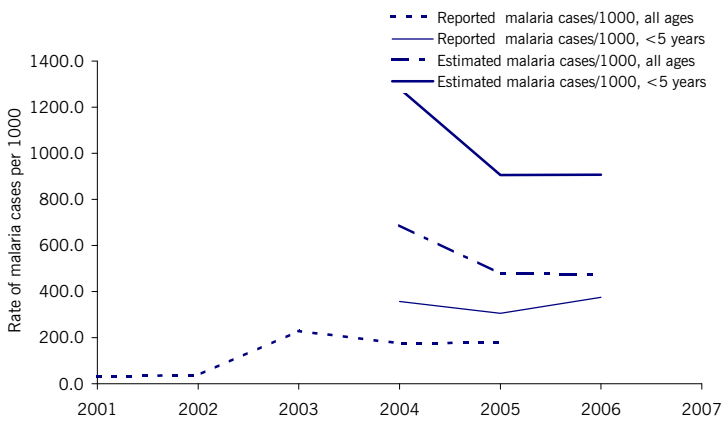
Stratification by burden (reported cases/1000)



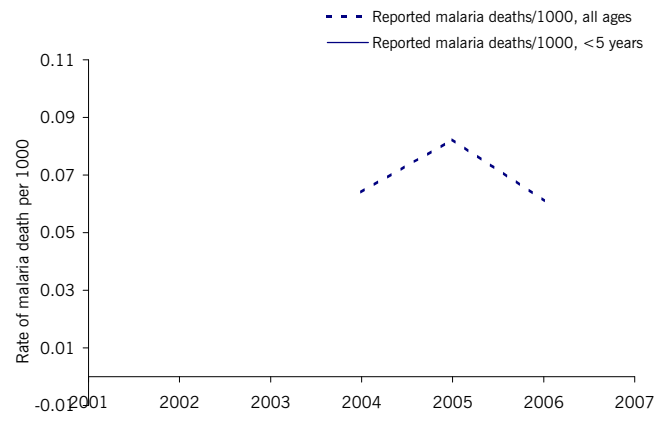
Estimated burden of malaria	Age group	Estimated cases and deaths (2006)			Estimated cases and deaths per 1000 (2006)		
		Numbers	Lower	Upper	Rate per 1000	Lower	Upper
Fever suspected of being malaria	All ages	1 788 000	403 000	5 161 000	1 605	362	4 634
	<5 years	580 000	131 000	1 675 000	3 058	691	8 832
Malaria cases	All ages	529 000	149 000	1 442 000	475	134	1 295
	<5 years	172 000	48 000	468 000	907	253	2 468
Malaria deaths	All ages	1 000	270	2 000	0.898	0.242	1.8
	<5 years	390	100	760	2.1	0.527	4.0
Malaria-case-fatality rate (%)	All ages	0	-	-	-	-	-
	<5 years	0	-	-	-	-	-

Trends in malaria morbidity and mortality

Reported and estimated malaria cases, per 1000



Reported malaria deaths, per 1000



Reported malaria cases, all ages	26 651	33 078	218 270	176 933	191 399	
Reported malaria cases, <5 years				62 875	55 641	71 021

Reported malaria deaths, all ages				65	88	68
Reported malaria deaths, <5 years						

All-cause outpatient consultations, all ages

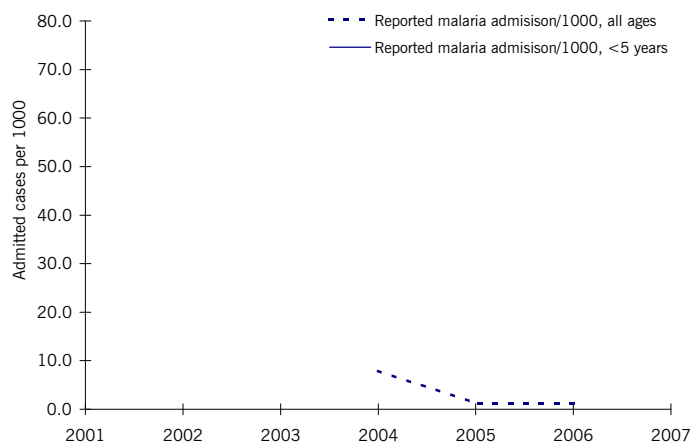
All-cause deaths, all ages

All-cause outpatient consultations, <5 years

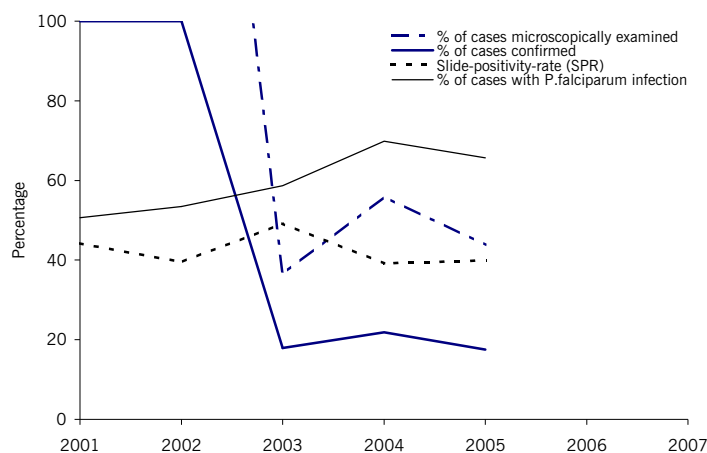
All-cause deaths, <5 years

I. EPIDEMIOLOGICAL PROFILE (continued)

Reported malaria admissions, per 1000



Slide examination, case confirmation, *Plasmodium* spp



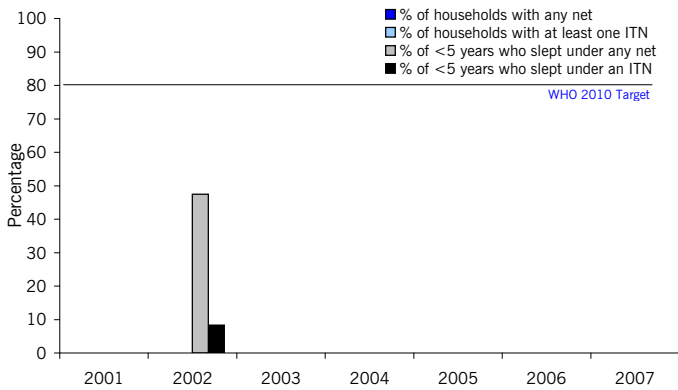
	2001	2002	2003	2004	2005	2006	2007		2001	2002	2003	2004	2005	2006	2007
Reported malaria admissions, all ages				8 013	1 342	1 285		Examined	60 311	83 785	79 459	98 994	83 835		
Reported malaria admissions, <5 years								Positive	26 651	33 078	39 091	38 727	33 524		
All-cause admissions, all ages								P. falciparum	13 488	17 686	22 933	27 052	22 004		
All-cause admissions, <5 years															

II. INTERVENTION POLICIES AND STRATEGIES

Intervention	WHO-recommended policies/strategies			Optional policies/strategies		
	Policy/strategy	Yes/No	Year adopted	Policy/strategy	Yes/No	Year adopted
Insecticide-treated nets (ITN)	Distribution of ITN/LLINs – Free	Yes	-	Distribution – Antenatal care	No	-
	Targeting – All age groups	Yes	-	Distribution – EPI routine and campaign	No	-
	Targeting – Children under 5 years and pregnant women	Yes	-		-	-
Indoor residual spraying (IRS)	DDT is used for IRS (public health) only	No	-	DDT is used alternately with other insecticides in the same area	No	-
	Insecticide-resistance management implemented	No	-	IRS is the primary vector-control intervention	No	-
				IRS is used for prevention and control of epidemics	Yes	-
				Where IRS is conducted, other options are also implemented, e.g. ITN	No	-
Intermittent preventive treatment (IPT)	IPT used to prevent malaria during pregnancy	No	-	IPT implemented countrywide	No	-
	ACT is free or highly subsidized in public sector	Yes	-	Free malaria diagnosis and first-line treatment of malaria	Yes	-
	Oral artemisinin monotherapies banned	Yes	-	Home management of malaria	No	-
	Parasitological confirmation for all age groups	Yes	-	Prereferral treatment at health-facility level with quinine im or artesunate suppositories	Yes	-
				RDTs in areas without microscopy	Yes	-
Case management		Antimalarial policy	Type of medicine	Year Adopted		
	First-line treatment of <i>P.falciparum</i> (unconfirmed)	CQ+PQ	-			
	First-line treatment of <i>P.falciparum</i> (confirmed)	AL	-			
	Treatment failure of <i>P.falciparum</i>	QN(7d)	-			
	Treatment of severe malaria	QN/AM	-			
	Treatment of <i>P.vivax</i>	CQ+PQ(14 d)	-			

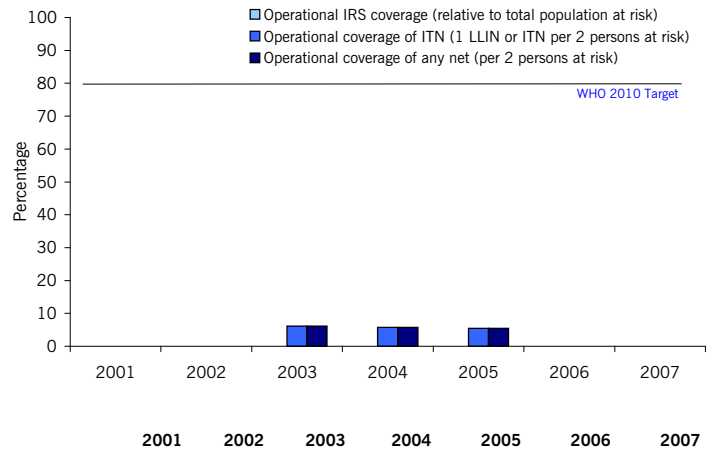
III. IMPLEMENTING MALARIA CONTROL

Coverage of ITN: survey data



Sources: MICS 2002.

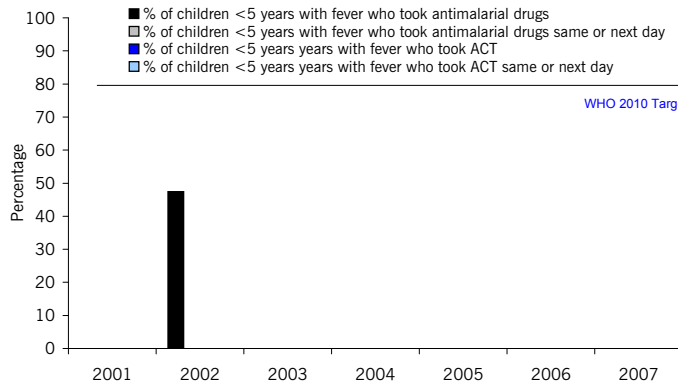
Coverage of IRS and ITN: programme data



% of pregnant women who slept under any net	
% of pregnant women who slept under an ITN	

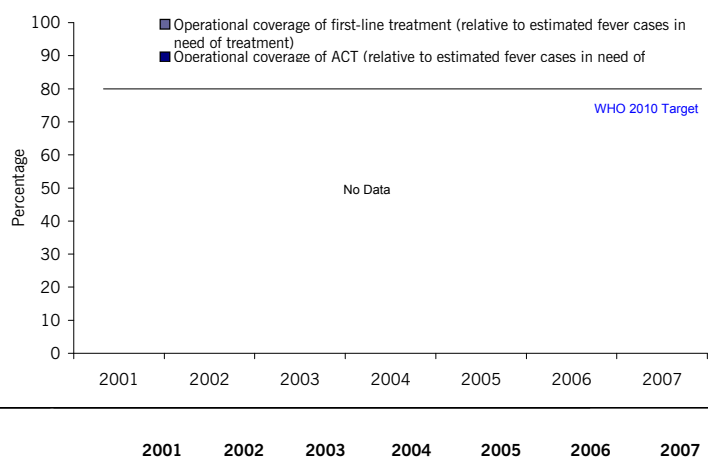
No. of HHs protected by IRS	
No. of ITNs and or LLINs	29 162

Access by febrile children to effective treatment: survey data



Source: MICS 2002.

Access to effective treatment: programme data

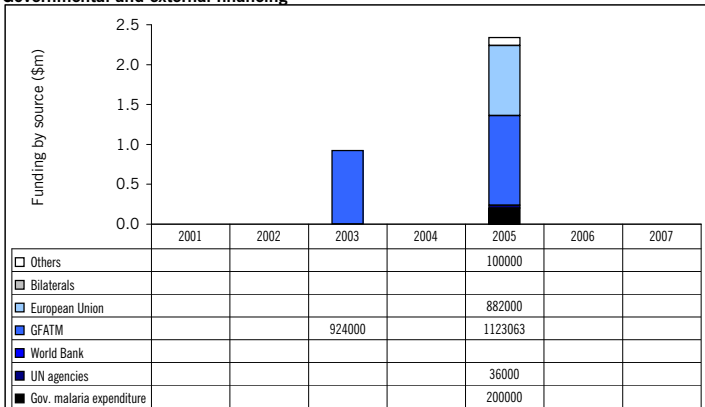


% of children < 5 years with fever	
% of febrile children < 5 years who sought treatment in HF	

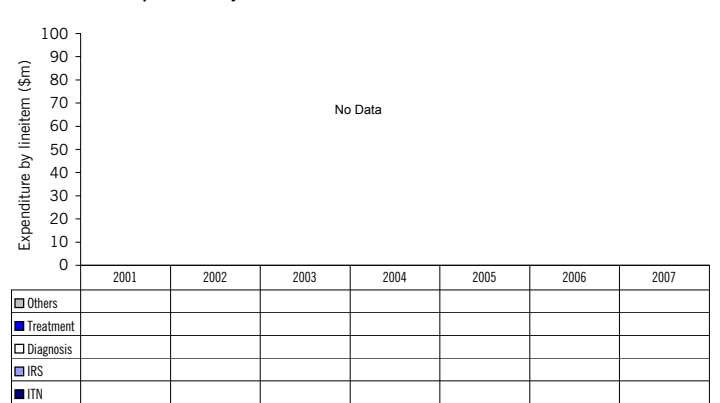
No. of 1st-line treatment courses received	
No. of ACT treatment courses received	

IV. FINANCING MALARIA CONTROL

Governmental and external financing



Breakdown of expenditure by intervention



V. SOURCE OF INFORMATION

Programme data

Reported cases
Operational coverage of ITNs, IRS and access to medicines
Financial data

Surveillance data
Programme report
Programme report

Survey and other data

Insecticide-Treated Nets (ITN)
Treatment
Use of health services

MICS 2002
MICS 2002
Imputed