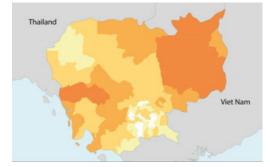


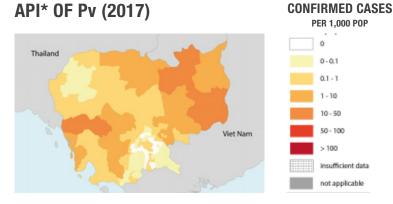


FEVER LANDSCAPE

FOCUS ON MALARIA SITUATION

API* OF Pf (2017)





API: ANNUAL PARASITE INCIDENCE

TEST POSITIVITY IN PUBLIC HOSPITALS

Governmental data	2005	2010	2017
Share of suspected cases tested (RDT or microscopy)	~90%	~95%	~100%
Test positivity (RDT or microscopy)	~40%	~30%	~25%

Cases of malaria appear to be under-reported, with the WHO estimating that there are actually over ~five times more cases and many more deaths than reported each year. **The main reasons are:**

- imperfect access to care in Cambodia
- the informal private sector is not included in reporting

MALARIA EPIDEMIOLOGICAL PROFILE (2016)

Parasite prevalence per 1,000					
Population in area:	Malaria free	Low transmission (0-1 case per 1,000 pop)	High transmission (>1 case per 1,000 pop)		
	4.7M (29%)	3.6M (23%)	7.7M (48%)		
Major <i>plasmodium</i> species	<i>P. falciparum</i> : 58% ; <i>P. vivax</i> : 41%				
Drug-resistant malaria	Yes in some areas				
Estimated tested cases	168K				
Reported confirmed cases	36K (of which 30K from private sector)				
Estimated cases*	208K [186K-236K]				
Reported deaths	1				
Estimated deaths*	345 [27-590]				

71% of the Cambodian population is living in an at-risk transmission zone

The reported share of suspected cases tested was close to 100% in 2017 while the reported positive rate dramatically decreased between 2010-2017

Note: (*) WHO. Sources: WHO, Advention

NATIONAL MALARIA STRATEGY PLAN AND SURVEILLANCE



Sources: Research paper, WHO, NDOH, Advention



ANTIMICROBIAL RESISTANCE (AMR)

"AMR is a significant public concern in Cambodia where antibiotics are often sold over the counter." MALARIA CONSORTIUM, SENIOR TECHNICAL ADVISOR

THE GOVERNMENT HAS TAKEN STEPS TO TACKLE AMR...

2011	First National Workshop for containment of ABR (Antibiotic resistance)
2012	Creation of a national technical working group for combatting AMR
2013	Analysis of the national situation on AMR to identify the burden of AMR
2014	Cambodia is among the few countries having developed a national policy and strategic plan for combatting AMR
2017	Cambodia endorsed its National SOP for national AMR surveillance system
2017	Cambodia is registered within the Global Antimicrobial Resistance Surveillance System (GLASS) developed by the WHO

...BUT THE CAPACITY TO EFFECTIVELY TACKLE AMR IS LOW

The main barriers to combating AMR in Cambodia include:

- · Limited awareness of AMR among most stakeholders
- Limited surveillance data to support evidence-based decisions and local guidelines
- Limited access to microbiological culture and diagnostic test
- Over use of antibiotics in health and animal
- Limited infection prevention and control measures in health facilities
- Limited coordination among different sectors (health, animal, agricultural, environmental)

WHO GLASS Report 2016-2017

"WHO Regional Office for the Western Pacific has been providing support to several countries in the Western Pacific Region such as Cambodia to build capacity and establish surveillance systems for antimicrobial use as well as antimicrobial stewardship programmes".

REGULATION REGARDING ANTIBIOTICS IS BEING PROMOTED BY THE MoH, BUT ADHERENCE IS LIMITED IN THE PRIVATE SECTOR

"Cambodia is very concerned by AMR and antibiotic prescription is closely regulated. While nurses can prescribe 1st line antibiotics, only doctors can prescribe 2nd line antibiotics. Generally, it is recommended to perform a blood count before prescribing antibiotics." CNM, Cambodia, Lab expert 2

"MoH attaches great importance that patients are going to health centers for antibiotics. We tried to introduce iCCM for acute respiratory infection at CHW level and the MoH resisted strongly." Malaria Consortium, Senior technical advisor "Antibiotics should not be sold over the counter, unfortunately it is not enforced. The country was successful in the OTC artesunate ban because they had external funding, but there is no such thing for antibiotics." Malaria Consortium, Cambodia, Country director

AMR is a significant public health concern, but regulation only affects public sector practices due to limited enforcement

Public sector recommendations are to test before prescribing antibiotics

Sources: WHO, ITM, Advention



FIND

Because diagnosis matters

		PRIORITY COUNTRIES*						
		★ VIET NAM	CAMBODIA	S. AFRICA	® INDIA	C PAKISTAN	MYANMAR	THAILAND
	Parasite prevalence per 1,000 population	<1	-	<1	<1	1.7	<1	<1
	Population living in malaria free area	25.1M (26%)	4.7M (29%)	51M (90%)	87.9M (7%)	3.3M (2%)	21.8M (40%)	34M (50%)
MALARIA EPIDEMIOLOGICAL	Population living in low transmission area	63.9M (67%)	3.6M (23%)	3.4M (6%)	1,100M (81%)	136.7M (69%)	23.6M (44%)	28.5M (42%)
PROFILE	Population living in high transmission area	25.1M (7%)	7.7M (48%)	2.3M (4%)	162.5M (12%)	57M (29%)	8.5M (16%)	5.4M (8%)
	Proportion of <i>P. falciparum</i>	64%	58%	90%	62 %	21%	66%	42 %
	Proportion of <i>P. vivax</i>	35%	41%	5%	37%	78%	34%	58%
	Country's reported tested cases	2.6M	168K	56K	125M	6.5M	664K	1.1M
	Country's reported confirmed cases	4.5K	36K	22K	0.8M	351K	78K	8K
MALARIA CASES AND DEATH	WHO's estimated cases	5.5K	208K	22.5K	9.6M	956K	240K	52K
	Country's reported deaths	6	1	301	0.2K	113	37	33
	WHO's estimated deaths	9	345	274	16.7K	805	490	<50
AMR	Average DDD**/person in 2015 (Avg in LMICs is 4.9)	11.5	-	9.2	4.9	7.1	-	6.7
LANDSCAPE		2013	2014	2014	2017	2017	2017	2016

Notes: (*) Last available year; (**) Defined Daily Dose allowing for cross-country comparison. Sources: WHO, World Bank, GF, interviews, Advention