



FEVER DIAGNOSTIC PRACTICES

PATIENT FLOW

PATIENT FLOW FOR INITIAL FEBRILE ILLNESS DIAGNOSTICS



MALARIA SPECIFICS – COMMENTS

Diagnosis and treatment of malaria is free and quality assured in the public sector. We estimate that \sim 35% of the population is seeking care within this sector as a first point of care and many more after referral (in particular from informal private providers).

There is a slight preference for the public sector in urban areas, which correlates with better access to public care

• "There are more than 16,000 CHWs in Myanmar; people in the rural areas are going to seek care from them, from NGO staff and from hospital nurses and doctors. In big cities, people go more to hospitals." APMEN, Program Manager

It is estimated that almost 65% of patients seek treatment for fever from the private sector, both formal and informal

- PSI commenced the scale-up of RDTs in private sector outlets with the purpose of reducing drug waste, decreasing the risk of resistance to non-artemisinin partner drugs, and improving case management of malaria and non-malaria fever. The project has been expanded to 51 townships and should be continued by the government
- "RDTs are used at the community level as well as at the private pharmacy level." APMEN, Program Manager

Despite the fact that malaria diagnosis and treatment is free and quality assured, only 35% of febrile patients first seek care within the public sector

Sources: Interviews, Advention



FEVER AND MALARIA DIAGNOSTIC ALGORITHM AND PRACTICES





Myanmar's malaria treatment guideline is designed to avoid further drug resistance with no treatment recommendation for unconfirmed malaria, adoption of DOT and case follow-up to monitor treatment response; unfortunately adoption in the private sector is limited

Sources: WHO, interviews, Advention





MALARIA TESTING PRACTICES AT DIFFERENT HEALTH FACILITY LEVELS

HEALTH FACILITY		NUMBER OF FACILITIES	SHARE OF FEVER PATIENTS (EST.)	PREFERRED MALARIA DIAGNOSTIC TOOL	LEVEL OF RDT USE (Malaria diagnostic)	
PUBLIC	Public hospital	1K	3%	Microscopy	Medium / Limited	
	Primary and Secondary Health Center	87	Microscopy and RDTs 18%		High	
	Rural Health Center	~2K	14%	RDTs	High	
PRIVATE	Informal private providers	n.c.*	21%	RDTs	Medium	
	Formal private clinics / GPs	>4K	35%	RDTs	Medium and growing	
	Private hospitals	~200	2%	RDTs	Medium	
	NGOs	n.c.	7%	RDTs	High	

RDTs are widely used in Myanmar and more commonly at the community level both in public and private facilities

Note: (*) not communicated. Sources: interviews, MoHS, Advention





MALARIA TESTING PRACTICES

MALARIA TESTS PERFORMED



IDENTIFIED MALARIA RDTs USED

SD Biolino Malaria Ag Df/Dy DOCT

JUDIOIIIIC Malaria Ay r.i/r.v r 001							
Pf-HRP2	\$0.42 / test	Abbott					
Any malaria with pLDH-pan	>0.2M RDTs since 2017						
SD I	Bioline Malaria Ag P.	f/P.v					
Pf-HRP2	\$0.36 / test	Abbott					
Any malaria with pLDH-pan	>10.3M RDTs since 2012						
AccessBio CareSta	rt™ Malaria HRP2/µ	oLDH(Pf/Pv) Combo					
Pf-HRP2	\$0.46 / test	Constart Malaria HRP2 (PF)					
Pv-pLDH	0.9M RDTs since 2011	Continue Texase					

Malaria is mainly tested with RDTs

Sources: WHO, USAID-PMI, Global Fund, Advention





MALARIA TESTING LANDSCAPE

		PRIORITY COUNTRIES*						
		× VIET NAM	CAMBODIA	S. AFRICA	() INDIA	C PAKISTAN	MYANMAR	THAILAND
	Population (M)	95	16	56	1,324	193	53	69
	Healthcare expenditures per capita (\$)	115-120	65-70	84	60-70	35-40	55-59	217-225
	Health insurance coverage	~70%	-	~16% => NHI	~5-10%	~19%	Negligible	~98%
INFRASTRUCTURE	Universal health coverage index	73	55	67	56	40	60	75
	Patients with fever being tested (%)**	80%	69%	82%	71%	68%	55%	83%
	Main distribution network	NIMPE	CNM	NDOH	State MoHs	Mix public/ private	NVBDCP/ CMSD	BVBD
	Last year total malaria funding (\$M)	16	20	24	226	38	78	21
MALARIA	Share of government funding (%)	~18%	~3%	~100%	~73%	~58%	~8%	~40%
DIAGNOSTIC FUNDING & PROCUREMENT	Main procurement decision maker	NMCP	CNM/ UNOPS	NDOH / Malaria programme	National and state MoHs	GF / NMCP	NMCP/ PMI	NMCP
	Procurement concentration level	High	High	High	Low	Medium	Medium	High
	Health facilities performing RDTs	Health posts	Lower level facilities	Lower level facilities	Sub- Health/ Primary HC	GPs, clinics	Lower level facilities, clinics	Lower level facilities
MALARIA DIAGNOSTIC PRACTICES	Share of RDT in malaria diagnostic (% of patients)	~19%	~74%	~63%	~13%	~20%	~96%	~5%
	Community HCW RDT knowledge	Yes	Yes	Yes	No	Yes	Yes	Yes
	Quality management system performance	High	Medium	High	Medium	Medium	Low	High

NIMPE: National Institute of Malaria, Parasitology, and Entomology (also CNM); NDOH: National Department of Health; MOH: Ministry of Health; NVBDCP: National Vector Borne Disease Control Programme; CMSD: Central Medical Store Depot; BVBD: Bureau of Vector-Borne Disease; NMCP: National Malaria Control Programme; UNOPS: United Nations Office for Project Services; GF: The Global Fund; PMI: Project Management Institute

Notes: (*) Last available year; (**) As per Advention's assumption based on interviews (base case scenario). Sources: WHO, World Bank, GF, interviews, Advention





MALARIA RDT STAKEHOLDERS MAP



LEGEND

★ HEAVY USE OF DONOR'S PROCUREMENT POOLING SYSTEM

USE OF DONOR'S PROCUREMENT POOLING SYSTEM

Malaria RDTs are mostly financed by international donors, except in India, Pakistan and South Africa

NMCPs are key decision makers regarding RDT selection in all countries

Source: Advention