
IRS Program supervision, monitoring and evaluation

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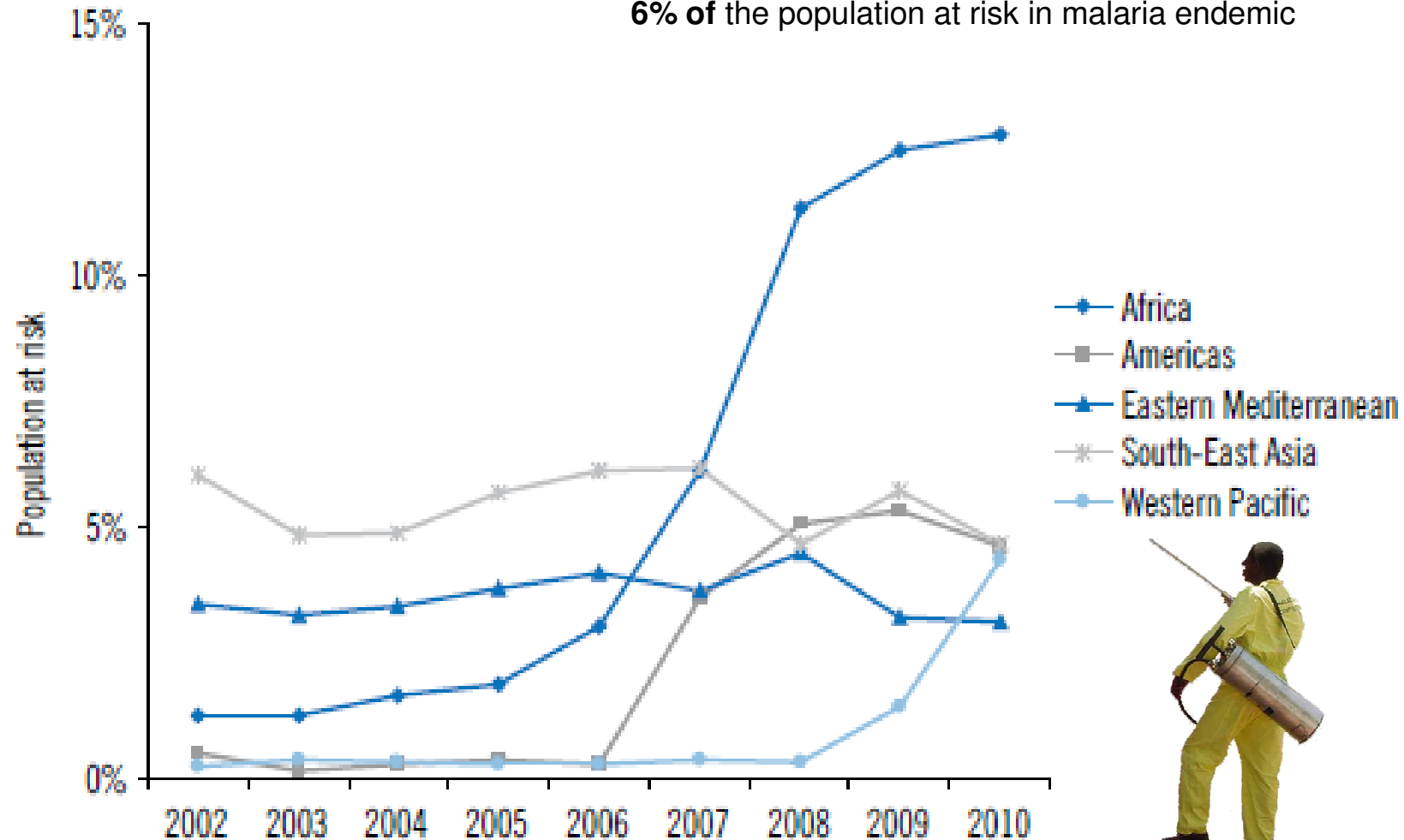
IRS Policy & Practice

Policy	Practice 2010	Practice 2011
Number of malaria endemic countries	106	106
IRS is recommended by malaria control program	64	73
IRS is the primary vector control intervention	51	13
IRS is used for prevention and control of epidemics	56	51
IRS and ITNs used together for malaria control in at least some areas	66	62
DDT is used for IRS	19	13
Insecticide resistance monitoring is undertaken	74	78

Source: World Malaria Report. 2011

Proportion of population at risk protected by IRS

IRS protected globally **185million people representing 6% of the population at risk in malaria endemic**



Countries targeting for maximum transmission impact and malaria foci elimination

IRS protected globally 185 million people representing 6% of the population at risk in malaria endemic countries

WHO African Region. IRS and vector control is a regional priority . Total of 78 million people protected 11% of population

Ethiopia, Tanzania, Uganda, Mozambique, Zambia, Zimbabwe, Rwanda, Malawi
Equatorial Guinea and Sao Tome, DRC
Gambia, Benin, Senegal, Ghana, Mali, Nigeria
Botswana, South Africa, Namibia, Zanzibar

South East Asia region IRS and vector control is a priority intervention

India, Myanmar, East Timor
Nepal, Sri-Lanka, Bhutan, DPRK

European region. IRS is the primary vector control **strategy to support accelerated elimination**

Tajikistan & Azerbaijan
Turkey, Kyrgyzstan, Uzbekistan.

Eastern Mediterranean region IRS and vector control is a priority intervention

Sudan North, Yemen, Pakistan
Saudi Arabia, Iraq, Iran

Western Pacific region IRS and vector control is a priority intervention

China, Vietnam, Philippines
Malaysia, Solomon Islands

Americas, malaria transmission is currently low and IRS and vector control regionally is not a priority. IRS is limited to few focal areas

Brazil, Venezuela, Nicaragua, Guatemala, Honduras
Suriname, Costa Rica, Panama, Argentina, Paraguay



GF Financing for IRS

Global Fund Round	Number of countries with IRS activities
1	3
2	11
3	16
4	19
5	22
6	24
7	27
8	32
9*	34

PMI country support for houses sprayed with indoor residual house spraying in Africa

Country	2006	2007	2008	2009	2010
Angola	107373	110826	189259	102731	135856
Tanzania	203754	247712	308058	422749	889981
Uganda	103329	446117	575903	567035	878875
Malawi		26,950	24,764	74,772	97,329
Mozambique		586,568	412923	571194	618290
Rwanda		159063	189756	295174	303659
Senegal		169743	153942	176279	254559
Benin			142814	156223	166910
Ethiopia		778000	1793248	1935402	646870
Ghana			254305	284856	342876
Kenya		1171073	764050	517015	503707
Liberia				20400	48375
Madagascar			432122	216060	576320
Mali			107638	126922	127273
Zambia		657695	762479	1189676	1102328

IRS Supervision, Reviews and Evaluations

Objective 1. To develop a standard supervisory checklist.

- **Strategic delivery area:1.1. Standardize IRS supervisory checklist and minimum frequency of supervision from district and national**
(Draft Supervision check list)

Objective 2: To standardize minimum operational, entomological, epidemiological and social indicators for monitoring IRS program

- **Strategic delivery area.1.: Standardize minimum IRS indicators**
(Draft Indicators and reporting)

Objective.3. To standardize tools/ checklists for IRS program review and pilot in 2 countries

- **Strategic delivery area:2.1. IRS Standards and check list**
(Draft standards and checklist)

IRS Indicators

Indicator	Numerator	Denominator	Data source	Target
1. Percentage of population at risk protected by IRS	No. of persons protected by IRS	No. of persons at risk for malaria	Routine data from national malaria control programme	>80%
2. Households/structures sprayed with insecticide among those targeted	No. of households/structures sprayed every six months or once a year according to national guidelines	No. of households/structures targeted for IRS once in 6 months or every 12 months according to national guidelines	Routine data from national malaria control programme	>80%
3. Proportion of households sprayed with IRS in the last 6 months or 12 months.	Number of households that have been sprayed by IRS in the last 6/12 months.	Total number of households surveyed	Household survey	

IRS Program supervision

National, Provincial IRS coordinators, disease control officers and entomologists should conduct quarterly scheduled field visits to districts to review status of implementation of the district IRS annual work plan and to review IRS spray operations that may be under way. This is to identify delays in implementation of the annual IRS plan of action and to correct any operational problems in spray operations.

•CHECK LIST

Supervision of field spray operation

The purpose of supervisor is to solve problems and offer support not to criticize or find fault. (District IRS Coordinators)

The main objectives are:

- to ensure that the spray team movement schedule is strictly adhered to and the agreed target numbers of houses to be sprayed per day are being maintained;
- to take corrective measures, on the spot, on spray application techniques and take note of any equipment deficiencies for remedial action;
- to stimulate, encourage and advise on good communication with householders and village or community leaders;
- to ensure good team work for total and complete coverage of areas to be sprayed;
- to ensure that strict discipline and standard operating procedures are maintained;
- to assess, evaluate and appreciate the work output of the teams;
- to make constructive and feasible recommendations to improve quality, coverage and timely implementation of operations.

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Conclusion

IRS Program evaluation for Botswana

IRS Program evaluation request from Liberia and Sierra Leone

National IRS Program under way for five years need to be evaluated

Change in PMI from RTI to Abbt

Asia programs India and others