

Strategic planning for vector surveillance and control in Pacific Island Countries and areas

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Why is strategic planning important?

- A tool to ensure the people and resources are available to respond to outbreaks
- Outlines measurable goals, guides decision making, and informs day-to-day operational planning
- Ensures readiness to act



Examples of national plans

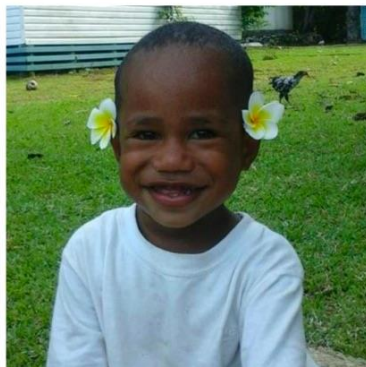
Guam Vector Management Strategic Plan (2017 – 2020)

Guam Division of Environmental Health, Department of Public Health and Social Services

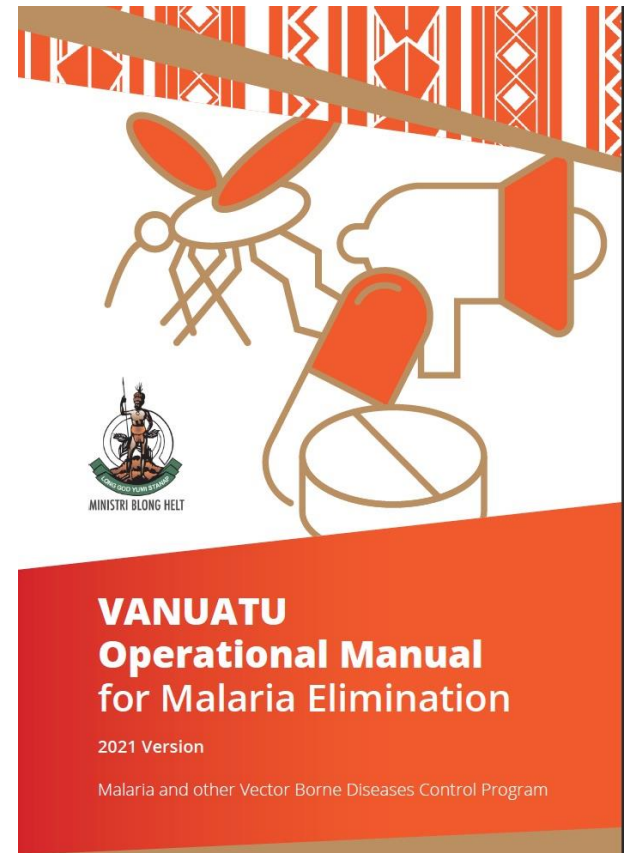
Version 1



NEGLECTED TROPICAL DISEASES MULTISECTORAL ACTION PLAN

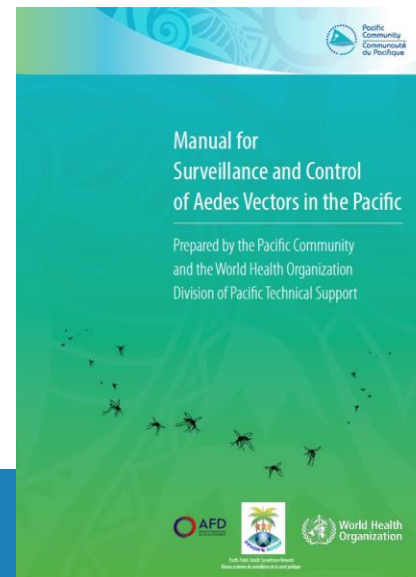
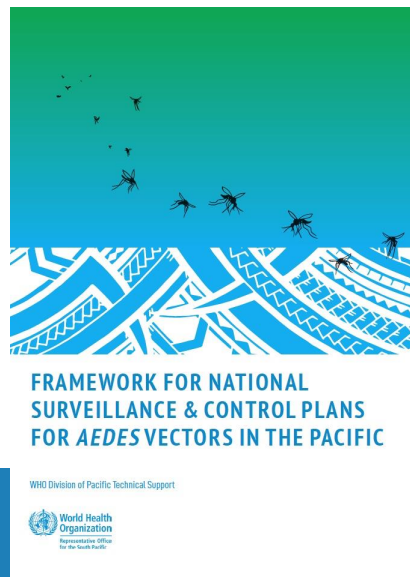


2017 - 2020



Support for developing *Aedes* control plans

- Technical advice through WHO in-country offices
- PacMOSSI regional support: WHO, JCU, SPC and others
- New guidance documents for the Pacific



Support for developing *Aedes* control plans



FRAMEWORK FOR NATIONAL SURVEILLANCE & CONTROL PLANS FOR *Aedes* VECTORS IN THE PACIFIC

WHO Division of Pacific Technical Support



***Aedes* control plans: guiding principles**

- Tailor the planning process to each individual country
- Ensure plans can be adapted if disease situations change
- Emphasise preventative (proactive) activities such as routine vector surveillance and control



FRAMEWORK FOR NATIONAL
SURVEILLANCE & CONTROL PLANS
FOR *Aedes* VECTORS IN THE PACIFIC

WHO Division of Pacific Technical Support



Aedes control plans: step by step

FRAMEWORK FOR NATIONAL Aedes VECTOR SURVEILLANCE AND CONTROL PLANS IN THE PACIFIC

Figure 4. Overview of steps in strategic planning



Aedes control plans: step by step



STEP 1
Organize and
prepare the
planning
process

- Seek departmental approval to develop an *Aedes* control plan
- Establish a steering committee or technical working group to develop the plan
- Organise the general steps and process to be undertaken

Aedes control plans: step by step



STEP 2
**Conduct a
situation
analysis**

- Review local epidemiology and entomology data
- Consult any program reviews or local/global recommendations to be implemented
- Document program strengths and/or challenges to be considered

Example: situation analysis

Species	Vector status	Geographical distribution	Key larval habitat characteristics	Adult feeding behaviour	Adult resting behaviour
<i>Aedes aegypti</i>	Dengue virus (primary vector)	Wallis Island only; north-eastern section, coastal to inland (see example in Annex 3)	Mainly artificial containers, few natural containers; confined to peri-domestic areas	Tends to feed more commonly indoors and peri-domestic settings e.g., veranda	Dark, shady surfaces below 1.5m, inside and immediately outside houses
<i>Aedes polynesiensis</i>	<i>Wuchereria bancrofti</i> (primary vector), dengue virus (secondary vector)	Countrywide, coastal to inland (Wallis, Futuna, and Alofi islands)	Artificial and natural containers; peri-domestic and wild environments	Typically feeds outdoors during daytime	Mainly outdoors on shady vegetation

Aedes control plans: step by step



STEP 3
Develop a
strategic
plan for
***Aedes* vector**
surveillance
and control

- State the program vision, goals and objectives
- Define the strategies that will be used to achieve the objectives
- Consider how the strategies will be monitored and assessed for success

Key elements of Aedes control

	Designated Points of Entry (air and sea ports)	Risk of arbovirus outbreak (no cases) ¹		Transmission scenario (at least 1 case)
		Low (no vectors present)	Moderate to High (vectors present)	Isolated to widespread cases

Key activities

Vector surveillance ²	Routine			Focal investigations
Vector control ³	Sustained proactive		Sustained proactive [^]	
	Reactive ⁴			Reactive ⁵ (focal, broad scale, sustained)
Health promotion			Community engagement	
				Risk communication
Multisectoral collaboration	Inter- & intra-sectoral collaboration			

Enabling factors

Capacity Building



Research



Country Leadership



Advocacy



Policies & Laws



Aedes control plans: step by step









STEP 4
Develop an
implementation
plan for
Aedes vector
surveillance
and control

- Define activities to be conducted under each strategic objective
- Outline the implementation arrangements i.e. which activities will be done by who, where and when.
- Outline how the activities will be coordinated, resources required, gaps to be addressed

Example: *Aedes* surveillance

Risk of arbovirus outbreak

		Low	Moderate	High
	Adult occurrence	Once or twice a year	Quarterly/seasonally	Monthly/quarterly
	Adult density			
	Resting location			
	Resistance frequency		Annually	Annually
	Key larval habitats			
	Aquatic habitat availability			

Example: *Aedes* vector control

Vector control intervention ^a	Routinely	During outbreaks	Pesticide used	Target vectors
Larval source reduction (e.g. community clean-up)	Areas A, B, C, D, E, F	Areas C, D, E	-	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>
Larviciding	Areas A, B, C, D	Areas C, D, E	Temephos and <i>B. thuringiensis israelensis</i>	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>
Targeted indoor residual spraying	Area C	Area C, D	Bendiocarb	<i>Ae. aegypti</i>
Targeted outdoor residual spraying	-	Area E	λ-Cyhalothrin	<i>Ae. albopictus</i>
Issuance of bednets to febrile patients	-	Area C	Deltamethrin	<i>Ae. aegypti</i>
Issuance of repellents to febrile patients	-	Area E	Diethyltoluamide	<i>Ae. albopictus</i>

Aedes control plans: step by step



STEP 5
Develop an
annual work plan
for programme
activities

- Outline a plan for proposed annual activities, who will be responsible, and the timeframe for each
- Outline the annual budget necessary to support vector surveillance and control activities

Aedes control: annual work plan

Task	Activity	Responsible body	Month												
			J	F	M	A	M	J	J	A	S	O	N	D	
Preventive T-IRS in selected high-risk areas	Recruit additional operational staff as required	MoH, VBDCP		x	x	x									
	Plan and conduct technical training workshops	MoH, VBDCP			x	x	x								
	Mobilize equipment, insecticides, data management system and other resources	MoH, VBDCP			x	x	x	x							
	Spray targeted houses	MoH, VBDCP					x	x	x	x	x				
Community engagement in targeted areas	Identify and consult key stakeholder representatives from target districts	MoH, VBDCP				x	x	x	x	x	x				
	Hold information and consultative meetings with communities	MoH, VBDCP, stakeholders						x	x	x	x	x	x	x	x
	Implement and monitor agreed engagement plans with communities	MoH, VBDCP, community stakeholders							x	x	x	x	x	x	x

Aedes control plans: step by step

FRAMEWORK FOR NATIONAL Aedes VECTOR SURVEILLANCE AND CONTROL PLANS IN THE PACIFIC

Figure 4. Overview of steps in strategic planning



Aedes control plans: step by step



STEP 6
Finalize and adapt
the VSCP

National *Aedes*-borne disease control plan

TABLE OF CONTENTS

Foreword

Acknowledgements

Executive Summary

Introduction

Situation analysis

Strategic plan

Implementation plan

Annual work plan

References

Annexes

Aedes control plans: step by step



STEP 7
Disseminate
the strategic
plan and
mobilize
resources

- Share and review draft with senior management & relevant stakeholders
- Consider stakeholder meeting and/or launch event to promote the plan
- Put the plan into action!

Aedes control plans: let's do it!

I look forward to working with you !

