



Organización  
Panamericana  
de la Salud



Organización  
Mundial de la Salud

---

OFICINA REGIONAL PARA LAS

**Américas**

# **WHOPES y WPQT-VC**

## **WHO Pesticide Evaluation Scheme & WHO Prequalification Team – Vector Control**

**Dr. Prabhjot Singh**



**Organización  
Panamericana  
de la Salud**



**Organización  
Mundial de la Salud**  
OFICINA REGIONAL PARA LAS **Américas**

# WHOPES

- Departamento que evaluaba ingredientes activos (moléculas) para control vectorial según uso
  - Mosquiteros Tratados con Insecticida de Larga Duración (MTILD)
  - Rociado Residual Intradomiciliar (RRI)
  - Nebulización espacial
  - Larvicidas
- Determinación de la eficacia de los moléculas con grupos científicos
- Listado de ingredientes activos aprobadas (dada la evidencia) según uso

Updated: 21 September 2018

**WHO recommended insecticides for indoor residual spraying against malaria vectors**

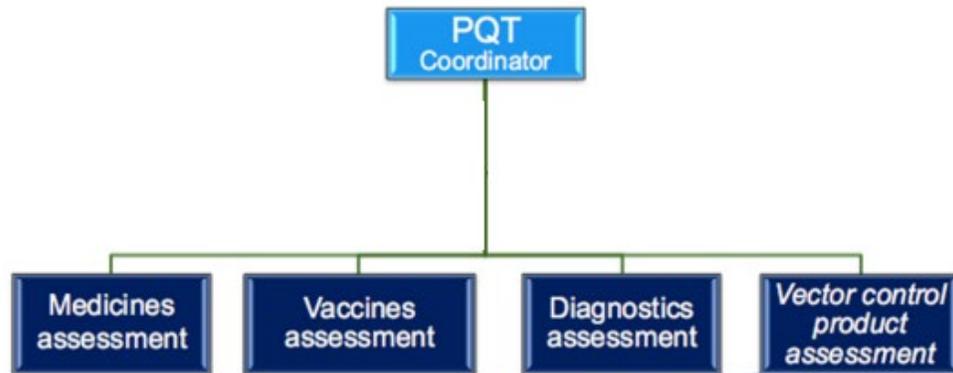
<i>Insecticide compounds and formulations</i> <sup>1</sup>	<i>Class group</i> <sup>2</sup>	<i>Dosage (g a.i./m<sup>2</sup>)</i>	<i>Mode of action</i>	<i>Duration of effective action (months)</i>
<i>DDT WP</i>	OC	1-2	contact	>6
<i>Malathion WP</i>	OP	2	contact	2-3
<i>Fenitrothion WP</i>	OP	2	contact & airborne	3-6
<i>Pirimiphos-methyl WP, EC</i>	OP	1-2	contact & airborne	2-3
<i>Pirimiphos-methyl CS</i>	OP	1	contact & airborne	4-6
<i>Bendiocarb WP, WP-SB</i>	C	0.1-0.4	contact & airborne	2-6
<i>Propoxur WP</i>	C	1-2	contact & airborne	3-6
<i>Alpha-cypermethrin WP, SC</i>	PY	0.02-0.03	contact	4-6
<i>Alpha-cypermethrin WG-SB</i>	PY	0.02-0.03	contact	up to 4
<i>Bifenthrin WP</i>	PY	0.025-0.05	contact	3-6
<i>Cyfluthrin WP</i>	PY	0.02-0.05	contact	3-6
<i>Deltamethrin SC-PE</i>	PY	0.02-0.025	contact	6
<i>Deltamethrin WP, WG, WG-SB</i>	PY	0.02-0.025	contact	3-6
<i>Etofenprox WP</i>	PY	0.1-0.3	contact	3-6
<i>Lambda-cyhalothrin WP, CS</i>	PY	0.02-0.03	contact	3-6
<i>Clothianidin WG</i>	NN	0.03	contact	3-8



# WHOPES → WPQT-VC

## Transition from WHOPES to PQT

### 1. Introducing the WHO Prequalification for Vector Control Products



Proposed vector control staff		
<ul style="list-style-type: none"><li>▪ Vector control product group leader</li><li>▪ Case/project manager</li></ul>	<ul style="list-style-type: none"><li>▪ Formulation chemist</li><li>▪ Human and environmental risk assessor</li></ul>	<ul style="list-style-type: none"><li>▪ Entomologist</li><li>▪ Lead inspector for vector control sites</li></ul>

## Prequalification Vector Control

WHO prequalifies indoor residual spray for vector control



2 NOVEMBER 2017 - WHO has prequalified SumiShield 50WG as an indoor residual spray intended to kill malaria-carrying mosquitoes. This development provides procurement agencies and countries with a new tool to prevent the transmission of vector-borne diseases like malaria.



Organización  
Panamericana  
de la Salud



Organización  
Mundial de la Salud  
OFICINA REGIONAL PARA LAS Américas

# WHOPES → WPQT-VC

Updated: 21 September 2018

## WHO recommended insecticides for indoor residual spraying against malaria vectors

Insecticide compounds and formulations <sup>1</sup>	Class group <sup>2</sup>	Dosage (g a.i./m <sup>2</sup> )	Mode of action	Duration of effective action (months)
DDT WP	OC	1-2	contact	>6
Malathion WP	OP	2	contact	2-3
Fenitrothion WP	OP	2	contact & airborne	3-6
Pirimiphos-methyl WP, EC	OP	1-2	contact & airborne	2-3
Pirimiphos-methyl CS	OP	1	contact & airborne	4-6
Bendiocarb WP, WP-SB	C	0.1-0.4	contact & airborne	2-6
Propoxur WP	C	1-2	contact & airborne	3-6
Alpha-cypermethrin WP, SC	PY	0.02-0.03	contact	4-6
Alpha-cypermethrin WG-SB	PY	0.02-0.03	contact	up to 4
Bifenthrin WP	PY	0.025-0.05	contact	3-6
Cyfluthrin WP	PY	0.02-0.05	contact	3-6
Deltamethrin SC-PE	PY	0.02-0.025	contact	6
Deltamethrin WP, WG, WG-SB	PY	0.02-0.025	contact	3-6
Etofenprox WP	PY	0.1-0.3	contact	3-6
Lambda-cyhalothrin WP, CS	PY	0.02-0.03	contact	3-6
Clothianidin WG	NN	0.03	contact	3-8

No exactamente



World Health Organization

Home Health Topics Countries News Emergencies

### Prequalification Vector Control

Prequalification Vector Control

About us

News and events

Prequalified lists

Resources

#### Prequalified Lists

Vector control products

This list contains vector control products that have been assessed by WHO and found to be acceptable, in principle, for procurement by UN and other international agencies and countries.

↓ Prequalified Products 17 July 2018  
pdf, 103kb

The following document is a summary table of all prequalified vector control products. The table has been pre-sorted in the following order:

- 1) Product type
- 2) Active Ingredient
- 3) PQT-VC Reference Number

The current table was updated on 8 June 2018. More information about each product can be found on the product specific page.

Links to product pages have been grouped below based on their Product Type:

- Indoor Residual Spray (IRS)
- Insecticide Treat Net Kit (ITN Kit)
- Larvicide
- Long Lasting Insecticidal Net (LLIN)
- Space Spray

Indoor Residual Spray (IRS)



Organización Panamericana de la Salud



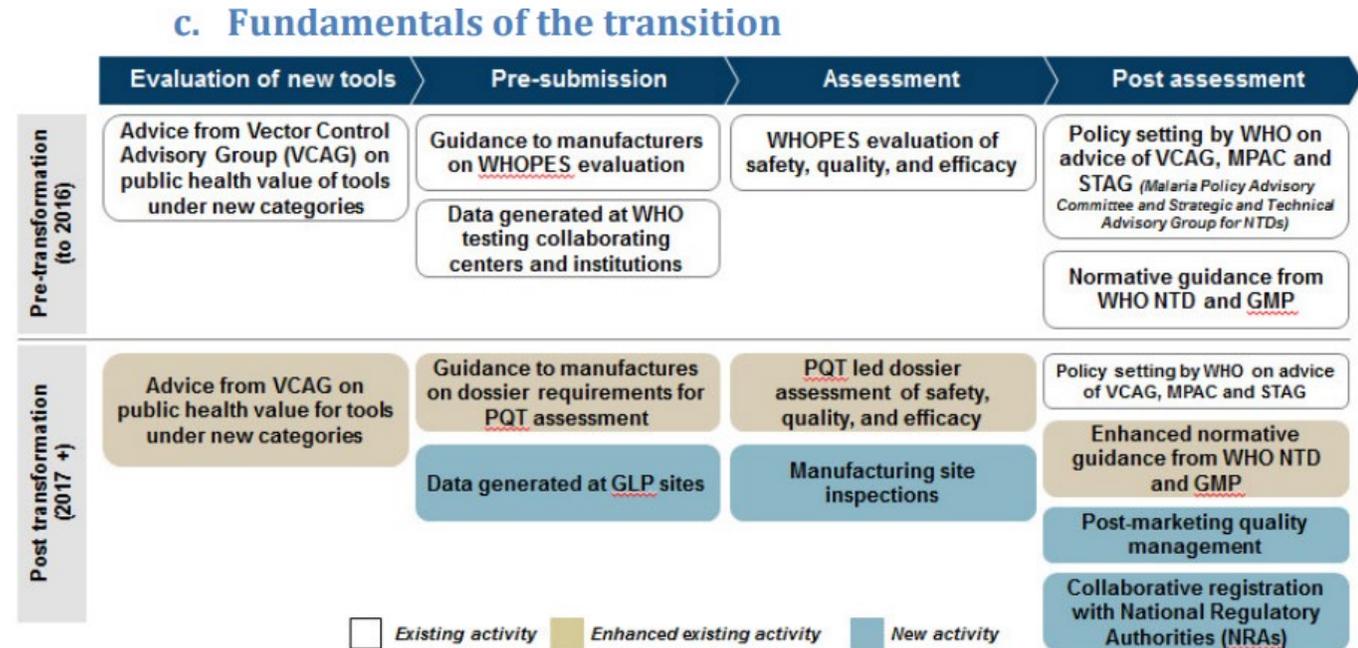
Organización Mundial de la Salud  
OFICINA REGIONAL PARA LAS Américas

# WPQT-VC

- La lista de productos de control de vectores precalificados incluirá **(respaldados por una evaluación de salud pública positiva de la OMS)**
  - Mosquiteros Tratados con Insecticida de Larga Duración (MTILD)
  - Rociado Residual Intradomiciliar (RRI)
  - Nebulización espacial
  - Larvicidas
- Lista de **sitios de fabricación precalificados**
  - Instalaciones que la OMS ha inspeccionado y seguirá inspeccionando
  - Producción de ingredientes activos de productos de control vectorial

# WPQT-VC , Programa Mundial de Malaria (GMP), Enfermedades Desatendidas (NTD)

- WPQT-VC
  - Precalifica **productos finales** actuales
  - Fabricantes someten dossier
- MPAC, VCAG, STAG con GMP y NTD
  - Evalúan evidencia de las nuevas **moléculas**
  - Política de uso de moléculas para control vectorial



Organización  
Panamericana  
de la Salud



Organización  
Mundial de la Salud  
OFICINA REGIONAL PARA LAS  
Américas

# WHOPES → WPQT-VC

- Aplicar para WPQT-VC tiene su costo
- Fabricante cubre el costo
- Acuerdos para disminuir los costos de aplicación



World Health Organization

## Prequalification Vector Control

Prequalification Vector Control

About us

News and events

### Prequalification Fees

A new fee schedule came into force on 1 January 2017 for active pharmaceutical ingredients (APIs), finished pharmaceutical products (FPPs) and vaccines. There was no change to the fee structure for diagnostics.



World Health Organization

## Essential medicines and health products

Medicines and health products

About us

Access and innovation

### New Financial Arrangement to Improve Sustainability, Quality and Global Reach of WHO Prequalification of Medical Products

WHO Prequalification Fees

# Gracias

- Listado de productos precalificados:
  - <http://www.who.int/pq-vector-control/prequalified-lists/en/>
- Listado de ingredientes activos aprobados
  - [http://www.who.int/neglected\\_diseases/vector\\_ecology/vector-control/en/](http://www.who.int/neglected_diseases/vector_ecology/vector-control/en/)



## Neglected tropical diseases

Neglected tropical diseases

About us

Diseases

Preventive chemotherapy and transmission control

Innovative and intensified disease management

Vector ecology and management

Neglected zoonotic diseases

Water, sanitation and hygiene

### Vector control

#### Equipment for vector control specification guidelines – Second edition

This document provides the specifications for major pesticide application equipment used for control of vectors of diseases. The specification guidelines contained herein are intended to assist national authorities and other public health users in selecting equipment of assured quality for application of pesticides for vector control. This second edition of the specification guidelines follows a similar format to that of the revised edition published in 2010, in which general requirements are presented in addition to the specific requirements for individual types of equipment. The current guidelines supersede the specifications previously published by WHO for such equipment. This second edition also includes specifications of equipment for application of larvicides as well as those for some additional equipment for adulticides.



[Download publication](#)

#### Indoor application of residual sprays – Third edition

Indoor residual spraying is extensively



#### Pesticides and vector control navigation

- Guidelines and risk assessment models
- Pesticide management
- Resistance
- Vector control
- Partnership
- All publications

#### WHO recommended products

- Insecticides for IRS
- Insecticides for treatment of mosquito nets
- Insecticides for space spraying
- Long-lasting insecticidal nets (LNs)
- Mosquito larvicides

- Listado de productos precalificados:
  - <http://www.who.int/pq-vector-control/prequalified-lists/en/>
- Listado de ingredientes activos aprobados
  - [http://www.who.int/neglected\\_diseases/vector\\_ecology/vector-control/en/](http://www.who.int/neglected_diseases/vector_ecology/vector-control/en/)

Updated: 21 September 2018

### WHO recommended insecticides for indoor residual spraying against malaria vectors

Insecticide compounds and formulations <sup>1</sup>	Class group <sup>2</sup>	Dosage (g a.i./m <sup>2</sup> )	Mode of action	Duration of effective action (months)
DDT WP	OC	1-2	contact	>6
Malathion WP	OP	2	contact	2-3
Fenitrothion WP	OP	2	contact & airborne	3-6
Pirimiphos-methyl WP, EC	OP	1-2	contact & airborne	2-3
Pirimiphos-methyl CS	OP	1	contact & airborne	4-6
Bendiocarb WP, WP-SB	C	0.1-0.4	contact & airborne	2-6
Propoxur WP	C	1-2	contact & airborne	3-6
Alpha-cypermethrin WP, SC	PY	0.02-0.03	contact	4-6
Alpha-cypermethrin WG-SB	PY	0.02-0.03	contact	up to 4
Bifenthrin WP	PY	0.025-0.05	contact	3-6
Cyfluthrin WP	PY	0.02-0.05	contact	3-6
Deltamethrin SC-PE	PY	0.02-0.025	contact	6
Deltamethrin WP, WG, WG-SB	PY	0.02-0.025	contact	3-6
Etofenprox WP	PY	0.1-0.3	contact	3-6
Lambda-cyhalothrin WP, CS	PY	0.02-0.03	contact	3-6
Clothianidin WG	NN	0.03	contact	3-8

Innovative and intensified disease management

Vector ecology and management

Neglected zoonotic diseases

Water, sanitation and hygiene

Selecting equipment of assured quality for application of pesticides for vector control. This second edition of the specification guidelines follows a similar format to that of the revised edition published in 2010, in which general requirements are presented in addition to the specific requirements for individual types of equipment. The current guidelines supersede the specifications previously published by WHO for such equipment. This second edition also includes specifications of equipment for application of larvicides as well as those for some additional equipment for adulticides.

[Download publication](#)

Indoor application of residual sprays – Third edition

Indoor residual spraying is extensively

lines –

Pesticides and vector control navigation

- Guidelines and risk assessment models
- Pesticide management
- Resistance
- Vector control
- Partnership
- All publications

WHO recommended products

- Insecticides for IRS
- Insecticides for treatment of mosquito nets
- Insecticides for space spraying
- Long-lasting insecticidal nets (LNs)
- Mosquito larvicides