

A compendium of guidelines and other documents supporting stewardship of Vector Control products

Pesticide Procurement Practices

Guidelines for procuring public health pesticides (WHO/HTM/NTD/WHOPES/2012.4)

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241503426_eng.pdf

Guide to Global Fund Policies on Procurement and Supply Management of Health Products

The Global Fund to Fight AIDS, Tuberculosis and Malaria

June 2012

<http://www.theglobalfund.org/en/library/guidelinestools/>

Guidelines for procurement of goods, works, and non-consulting services under IBRD loans and IDA credits & grants by World Bank borrowers

The World Bank

January 2011

<http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/PROCUREMENT/0,,contentMDK:20060840~pagePK:84269~piPK:60001558~theSitePK:84266,00.html>

Improving Global Bed net Procurement: stakeholder action proposal

Global Business Coalition on HIV/AIDS, Tuberculosis and Malaria

July 2009

<http://www.gbchealth.org/report/2358/?words=Improving Global Bed Net Procurement>

Revised long lasting insecticide-treated net (LLIN) procurement specifications for the President's Malaria Initiative (PMI) program

USAID

January 2013

http://www.pmi.gov/technical/itn/docs/itn_procurement_specifications.pdf

RBM Toolkit

Roll Back Malaria

<http://www.rbm.who.int/toolbox/index.html>

Product LifeCycle Management: Disposal/Storage/Transport

FAO code of conduct (Revised version)

FAO

November 2002

<ftp://ftp.fao.org/docrep/fao/005/y4544e/y4544e00.pdf>

Product LifeCycle Management: Disposal/Storage/Transport *Continued*

WHO Draft Interim recommendations on the sound management of packaging for long lasting insecticidal nets (LLINS)

WHO

2011

http://www.who.int/malaria/publications/atoz/final_draft_interim_recommendations01nov2011.pdf

Quality Control

Manual on development and use of FAO and WHO specifications for pesticides

FAO/WHO Joint Meeting on Pesticide Specifications (JMPS)

November 2010

http://whqlibdoc.who.int/publications/2006/9251048576_eng_update3.pdf

International Code of Conduct on the Distribution and Use of Pesticides : Guidelines for Quality Control of Pesticides

WHO

March 2010

http://whqlibdoc.who.int/hq/2011/WHO_HTM_NTD_WHOPES_2011.4_eng.pdf

Quality control of pesticides products. Guidelines for national laboratories WHO/CDS/WHOPES/GCDPP/2005.15

WHO

2005

http://whqlibdoc.who.int/hq/2005/WHO_CDS_WHOPES_GCDPP_2005.15.pdf

Integrated Vector Management Guidance Documents

Global Strategic Framework For Integrated Vector Management (2004) WHO/CDS/CPE/PVC/2004.10

WHO

2004

http://whqlibdoc.who.int/hq/2004/WHO_CDS_CPE_PVC_2004_10.pdf

Decision-Making For The Judicious Use Of Insecticides (2004) WHO/CDS/WHOPES/2004.9a

WHOPES

2004

http://whqlibdoc.who.int/hq/2004/WHO_CDS_WHOPES_2004.9a.pdf

Integrated Vector Management Guidance Documents *Continued*

Handbook for Integrated Vector Management (2012) WHO/HTM/NTD/VEM/2012.3

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241502801_eng.pdf

Core Structure for training curricula on Integrated Vector Management

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241502788_eng.pdf

Guidance on policy-making for Integrated Vector Management

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241502795_eng.pdf

Framework for Implementing Integrated Vector Management (IVM) at district Level in the South-East Asia Region

WHO

2008

http://www.searo.who.int/entity/malaria/documents/SEA_IVM_fW/en/index.html

http://203.90.70.117/PDS_DOCS/B3171.pdf

WHO position statement on integrated vector management

WHO

2008

http://www.who.int/malaria/publications/atoz/who_htm_ntd_vem_2008_2/en/

http://whqlibdoc.who.int/hq/2008/WHO_HTM_NTD_VEM_2008.2_eng.pdf

Directory of IVM Institutions in Africa

WHO

January 2010

http://www.rbm.who.int/partnership/wg/wg_itn/docs/ws8/DirectoryIVMinstitutionsAfrica.pdf

Information on books about Integrated Vector Management

http://books.google.co.uk/books/about/Integrated_Vector_Management.html?id=1n-BRoRQFnIC&redir_esc=y

Resistance Management

Global Plan for Insecticide Resistance Management in Malaria Vectors

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241564472_eng.pdf

Resistance Management *Continued*

<p>IRM Vector Manual Dec 2010 IRAC December 2012 http://www.irc-online.org/content/uploads/2009/09/VM-Layout-v2.6_LR.pdf</p>
<p>IRM Mini vector booklet Sept 2011 IRAC September 2011 http://www.irc-online.org/content/uploads/2009/09/VM_mini-brochure_v1.14_6Sept11.pdf</p>
<p>Why effective Insecticide Resistance Management is Important IRAC 2006 http://www.irc-online.org/content/uploads/Importance_of_irm_for_Vector_Control_2006.pdf</p>
<p>Bedbug IRM poster August 2008 August 2008 IRAC http://www.irc-online.org/content/uploads/2009/09/bedbug_poster_v4.pdf</p>
<p>Cockroach IRM poster August 2008 August 2008 IRAC http://www.irc-online.org/content/uploads/2009/09/cockroach_poster_v4.pdf</p>
<p>Housefly IRM poster Aug 2008 August 2008 IRAC http://www.irc-online.org/content/uploads/2009/09/housefly_poster_v1.pdf</p>
<p>Vector IRM strategies Mexico August 2008 IRAC August 2008 http://www.irc-online.org/content/uploads/2009/09/mexico-poster_v1.pdf</p>
<p>Mosquito IRM poster March 2012 IRAC March 2012 http://www.irc-online.org/content/uploads/IRM-control-mosquito-vectors-of-malariaMarch12-v2.pdf</p>
<p>Poster on IRM for Public Health, 2007 IRAC 2007 http://www.irc-online.org/content/uploads/Poster_on_IRM_for_Public_Health.pdf</p>

Resistance Management *Continued*

<p>Vector biomolecular monitoring, 2010 IRAC November 2012 http://www.irac-online.org/content/uploads/2009/09/Biomolecular-monitoring-in-insect-vectorsNov10-v1.pdf</p>
<p>Control of mosquito vectors, November 2010 IRAC November 2010 http://www.irac-online.org/content/uploads/2009/09/IRM-control-mosquito-vectors-of-malariaNov10-v1.pdf</p>
<p>MOA for mosquitoes poster, October 2010 IRAC October 2010 http://www.irac-online.org/content/uploads/mosquito_moa-poster_Oct10_v1.7.pdf</p>
<p>Global map for insecticide resistance in malaria vectors http://www.irmapper.com/</p>

External Testing Methods

<p>WHO test procedures for insecticide resistance monitoring in malaria vectors WHO September 1998 http://whqlibdoc.who.int/hq/1998/WHO_CDS_CPC_MAL_98.12.pdf</p>
<p>Discriminating concentrations of insecticides for adult mosquitoes WHO 1998 http://www.who.int/whopes/resistance/en/discriminating_concentrations.pdf</p>
<p>Supplies for monitoring insecticide resistance and procurement of WHO test kits WHO December 2002 http://www.who.int/entity/whopes/resistance/en/WHO_CDS_CPE_PVC_2001.2.pdf</p>
<p>Bottle Bioassay CDC http://www.cdc.gov/ncidod/wbt/resistance/assay/bottle/index.htm</p>
<p>Larval Bioassay CDC http://www.cdc.gov/ncidod/wbt/resistance/assay/larval/index.htm</p>

External Testing Methods *Continued*

Bottle/Beaker Calibration

CDC

<http://www.cdc.gov/ncidod/wbt/resistance/assay/calibration.htm>

Microplate Assay

CDC

<http://www.cdc.gov/ncidod/wbt/resistance/assay/microplate/index.htm>

Establishing the Diagnostic Dosage

CDC

http://www.cdc.gov/ncidod/wbt/resistance/assay/interpretation/interp_1.htm

Strengthening 'capacity building' in Pesticide Management

Status of pesticide management in the practice of vector control: a global survey in countries at risk of malaria or other major vector-borne diseases

Malaria Journal

2011

<http://www.malariajournal.com/content/pdf/1475-2875-10-125.pdf>

Capacity Strengthening for Sound Management of Pesticides

WHO

November 2010

http://whqlibdoc.who.int/hq/2011/WHO_HTM_NTD_WHOPES_2011.1_eng.pdf

National training program for pesticide use run by NPTC

<http://www.pesticides-safety-training.co.uk/pesticides2.htm>

Guidelines for Evaluation of Vector Control Products

Monitoring the durability of long-lasting insecticidal mosquito nets under operational conditions

WHO

2011

http://whqlibdoc.who.int/publications/2011/9789241501705_eng.pdf

Testing the efficacy of insecticide products used in aircraft

WHO

2012

http://whqlibdoc.who.int/publications/2012/9789241503235_eng.pdf

Guidelines for Evaluation of Vector Control Products *Continued*

Efficacy testing for indoor and outdoor ground applied space sprays

WHO

2009

http://whqlibdoc.who.int/hq/2009/WHO_HTM_NTD_WHOPE_S_2009.2_eng.pdf

Efficacy testing of household insecticide products - Mosquito coils, vaporizer mats, liquid vaporizers, ambient emanators and aerosols

WHO

2009

http://whqlibdoc.who.int/hq/2009/WHO_HTM_NTD_WHOPE_S_2009.3_eng.pdf

Guidelines for testing mosquito adulticides for indoor residual spraying and treatment of mosquito nets.

Ref:WHO/CDS/NTD/WHOPES/GCDPP/2006.3

WHO

2006

http://whqlibdoc.who.int/hq/2006/WHO_CDS_NTD_WHOPE_S_GCDPP_2006.3_eng.pdf

Guidelines for laboratory and field testing of mosquito larvicides WHO/CDS/WHOPES/ GCDPP/2005.13

WHO

2005

http://whqlibdoc.who.int/hq/2005/WHO_CDS_WHOPE_S_GCDPP_2005.13.pdf

Guidelines for laboratory and field testing of long-lasting insecticidal mosquito nets. Ref:

WHO/CDS/WHOPES/GCDPP/2005.11

WHO

2005

http://whqlibdoc.who.int/hq/2005/WHO_CDS_WHOPE_S_GCDPP_2005.11.pdf

Guidelines for efficacy testing of mosquito repellents for human skin. Ref:WHO/CDS/NTD/ WHOPE_S/2009.4

WHO

2009

http://whqlibdoc.who.int/hq/2009/WHO_HTM_NTD_WHOPE_S_2009.4_eng.pdf

Guidelines for Spray Equipment Use

Equipment for vector control – Specification guidelines, revised version 2010. HO/HTM/NTD/ WHOPE_S/2010.9

WHO

<http://www.who.int/whopes/equipment/en/>

Micron Group – Manuals

<http://www.micron.co.uk/manuals>

FAO Guidelines on Minimum Standards for Pesticide Equipment in the Agricultural Sector

<p>FAO Guidelines on Equipment Quality Control and Use: Agricultural Pesticide Sprayers Volume One FAO http://www.fao.org/docrep/X2244E/X2244E00.htm</p>
<p>Guidelines on Minimum Requirements for Agricultural Pesticide Application Equipment Volume One - Portable (Operator-Carried) Sprayers FAO 2001 http://www.fao.org/docrep/006/Y2765E/Y2765E00.HTM</p>
<p>Guidelines on Standards for Agricultural Pesticide Application Equipment and Related Test Procedures - Volume Two - Vehicle-Mounted and Trailed Sprayers FAO 2001 http://www.fao.org/docrep/006/Y2751E/Y2751E00.HTM</p>
<p>Guidelines on Minimum Requirements for Agricultural Pesticide Application Equipment - Volume Three FAO 2001 http://www.fao.org/docrep/006/Y2757E/Y2757E00.HTM</p>
<p>Guidelines on Minimum Requirements for Agricultural Pesticide Application Equipment Volume Four - Ground-based locust and grasshopper sprayers FAO 2004 http://www.fao.org/docrep/007/y5774e/y5774e00.htm</p>
<p>Guidelines on Good Practice for Ground Application of Pesticides FAO 2001 http://www.fao.org/docrep/006/Y2767E/Y2767E00.htm</p>
<p>International Code of Conduct on the Distribution and Use of Pesticides Guidelines on Good Practice for Ground Application of Pesticides FAO November 2002 http://www.fao.org/ag/AGP/AGPP/Pesticid/Code/Download/Ground01.pdf</p>

British Crop Protection Council (BCPC) Pesticide Use Publications

Using Pesticides

BCPC

<http://www.bcpc.org/shop/Using-Pesticides.html>**Small scale Spraying – Free Safety Equipment Handbook**

BCPC

[http://www.bcpc.org/shop/Using_Pesticides - Small Scale Spraying - Free Safety Equipment handbook.html](http://www.bcpc.org/shop/Using_Pesticides_-_Small_Scale_Spraying_-_Free_Safety_Equipment_handbook.html)**Safety Equipment Handbook**

BCPC

<http://www.bcpc.org/shop/safety-equipment-handbook.html>

WHO Spraying Manuals

Space spray application of insecticides for vector and public health pest control: a practitioner's guide:**WHO/CDS/WHOPES/GCDPP/2003.5**

WHO

2003

http://whqlibdoc.who.int/hq/2003/WHO_CDS_WHOPES_GCDPP_2003.5.pdf**Manual for Indoor Residual Spraying WHO/CDS/NTD/WHOPES/GCDPP/2007.3**

WHO

2007

http://whqlibdoc.who.int/hq/2007/WHO_CDS_NTD_WHOPES_GCDPP_2007.3_eng.pdf**Use of indoor residual spraying for scaling up global malaria control and elimination.****WHO/HTM/MAL/2006.1112**

WHO

2006

http://whqlibdoc.who.int/hq/2006/WHO_HTM_MAL_2006.1112_eng.pdf

University of Florida Publications in Conjunction with American Mosquito Control Organization

University of Floridahttp://entnemdept.ufl.edu/fasulo/vector/chapter_09.htm#three

WHOPES Working Group Reports on Product Testing Efficacy

Report of the first WHOPES Working Group meeting – 26–27 June 1997. Geneva, World Health Organization, 1997. Ref:CTD/WHOPES/97.5

WHOPES

1997

http://whqlibdoc.who.int/hq/1997/CTD_WHOPES_97.5.pdf

Report of the 2nd WHOPES Working Group meeting – Review of alpha-cypermethrin 10%SC and 5%WP and cyfluthrin 5%EW and 10%WP. 22–23 June 1998, Geneva, World Health Organization, 1998.

Ref:WHO/CTD/WHOPES/98.10

WHOPES

June 1998

http://whqlibdoc.who.int/hq/1998/CTD_WHOPES_98.10.pdf

Report of the 3rd WHOPES Working Group meeting – deltamethrin 1%SC and 25%WT and etofenprox 10%EC and 10%EW. 23–24 September 1999, Geneva, World Health Organization, 1999.

Ref:CDS/CPE/WHOPES/99.4

WHOPES

September 1999

http://whqlibdoc.who.int/hq/1999/WHO_CDS_CPE_WHOPES_99.4.pdf

Report of the 4th WHOPES Working Group meeting – IR3535, KBR3023, (RS)-methoprene 20%EC, pyriproxyfen 0.5%GR and lambda-cyhalothrin 2.5%CS. 4–5 December 2000, Geneva, World Health Organization, 2001.

Ref:WHO/CDS/WHOPES/2001.2

WHOPES

December 2000

http://whqlibdoc.who.int/hq/2001/WHO_CDS_WHOPES_2001.2.pdf

Report of the 5th WHOPES Working Group meeting – Review of Olyset Nets and bifenthrin 10%WP, 30–31 October 2001. Ref:WHO/CDS/WHOPES/2001.4

WHOPES

October 2001

http://whqlibdoc.who.int/hq/2001/WHO_CDS_WHOPES_2001.4.pdf

Report of the 6th WHOPES Working Group meeting – Review of deltamethrin 25% WG & WP and Agnique MMF. 6–7 November 2002. Ref: WHO/CDS/WHOPES/2002.6:

WHOPES

November 2002

http://whqlibdoc.who.int/hq/2002/WHO_CDS_WHOPES_2002.6.pdf

Report of the 7th WHOPES Working Group meeting – Review of VectoBac WG, PermaNet and Gokilaht 5EC. 2–4 December 2003. Ref:WHO/CDS/WHOPES/2004.8

WHOPES

December 2003

http://whqlibdoc.who.int/hq/2004/WHO_CDS_WHOPES_2004.8.pdf

WHOPES Working Group Reports on Product Testing Efficacy *Continued*

Report of the 8th WHOPES Working Group meeting – Review of Novaluron 10% EC. 1—3 December 2004, Ref:WHO/CDS/WHOPES/2005.10:

WHOPES

December 2004

http://whqlibdoc.who.int/hq/2005/WHO_CDS_WHOPES_2005.10.pdf

Report of the 9th WHOPES Working Group meeting – Review of Dimilin® GR and DT, Vectobac® DT, Aqua K-othrine® and Aqua Reslin Super®. 5-9 December 2005, Ref: WHO/CDS/NTD/WHOPES/2006.2

WHOPES

December 2005

http://whqlibdoc.who.int/hq/2006/WHO_CDS_NTD_WHOPES_2006.2_eng.pdf

Report of the 10th WHOPES Working Group meeting – Review of Spinosad 0.5% GR and 12% SC, Lambda-Cyhalothrin 10% CS, K-O TAB 1-2-3® Interceptor®. 11-14 December 2006, Ref: WHO/CDS/NTD/WHOPES/2007.1

WHOPES

December 2006

http://whqlibdoc.who.int/hq/2007/WHO_CDS_NTD_WHOPES_2007_1_eng.pdf

Report of the 11th WHOPES Working Group meeting – Review of Spinosad 7.48% DT, Netprotect®, Duranet®, Dawaplus®, Icon® maxx. 10-13 December 2007, Ref: WHO/HTM/NTD/WHOPES/2008.1

WHOPES

2008

http://whqlibdoc.who.int/hq/2008/WHO_HTM_NTD_WHOPES_2008.1_eng.pdf

Report of the 12th WHOPES Working Group meeting – Review of Bioflash® GR, Permanet® 2.0, Permanet® 3.0, Permanet® 2.5, Lambda-cyhalothrin LN. 8-11 December 2008. Ref: WHO/HTM/NTD/WHOPES/2009.1

WHOPES

December 2008

http://whqlibdoc.who.int/hq/2009/WHO_HTM_NTD_WHOPES_2009_1_eng.pdf

Report of the 13th WHOPES Working Group meeting – Review of Olyset® LN, Dawaplus® 2.0 LN, Tianjin Yorkool® LN, 28—30 July 2009. Ref: WHO/HTM/NTD/WHOPES/2009.5

WHOPES

July 2009

http://whqlibdoc.who.int/publications/2009/9789241598712_eng.pdf

Report of the 14th WHOPES Working Group meeting – Review of Spinosad® EC, Lifenet® LN, Magnet™ LN, Royal Sentry® LN, Yahe® LN, 11—15 April 2011. Ref: WHO/HTM/NTD/WHOPES/2011.7

WHOPES

April 2011

http://whqlibdoc.who.int/publications/2011/9789241502160_eng.pdf

WHO Risk Assessment of Vector Control Products

<p>Insecticide treated nets WHO 2012 http://whqlibdoc.who.int/publications/2012/9789241503419_eng.pdf</p>
<p>Indoor and Outdoor Space Spraying WHO February 2011 http://whqlibdoc.who.int/publications/2011/9789241501682_eng.pdf</p>
<p>Insecticides used for Larviciding WHO February 2011 http://whqlibdoc.who.int/publications/2011/9789241502184_eng.pdf</p>
<p>Indoor Residual Spraying of Insecticides WHO February 2011 http://whqlibdoc.who.int/publications/2011/9789241502177_eng.pdf</p>

CropLife International Documents

<p>CropLife International Vector Control Fact Sheet CropLife International 2011 http://www.croplife.org/view_document.aspx?docId=3055</p>
<p>IRAC - Prevention and management of insecticide resistance in vectors pests of public health importance IRAC/CropLife International 2006 http://www.croplife.org/view_document.aspx?docId=423</p>
<p>Guidelines for the safe warehousing of crop protection products CropLife International 2007 http://www.croplife.org/view_document.aspx?docId=415</p>
<p>Guidelines for the safe transport of crop protection products CropLife International 2006 http://www.croplife.org/view_document.aspx?docId=414</p>

Case Studies: Training Needs for Monitoring and Evaluation Implementation

<p>Global Malaria Action Plan Roll Back Malaria http://rbm.who.int/rbmgmap.html</p>
<p>Eliminating Malaria: Case Study 1 : Achieving elimination in Turkmenistan WHO 2012 http://www.who.int/malaria/publications/atoz/9789241504300/en/index.html</p>
<p>Eliminating Malaria: Case Study 2 : Achieving elimination in Cape Verde WHO 2012 http://www.who.int/malaria/publications/atoz/9789241504386/en/index.html</p>
<p>Eliminating Malaria: Case Study 3 : Achieving elimination in Sri Lanka WHO 2012 http://www.who.int/malaria/publications/atoz/9789241504454/en/index.html</p>
<p>Eliminating Malaria: Case Study 4: Preventing reintroduction in Mauritius WHO 2012 http://www.who.int/malaria/publications/atoz/9789241504461/en/index.html</p>

Global Use of Insecticides for Vector Control

<p>Pesticides and their application for the control of vectors and pests of public health importance, Sixth Edition WHO 2006 http://whqlibdoc.who.int/hq/2006/WHO_CDS_NTD_WHOPEP_GCDPP_2006.1_eng.pdf</p>
<p>Global Trends in the Use of Insecticides to Control Vector-Borne Diseases Environmental Health Perspectives April 2012 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3339467/pdf/ehp.1104340.pdf</p>
<p>Global Insecticide Use for Vector-Borne Disease Control A 10-YEAR ASSESSMENT (2000–2009) Fifth Edition WHO 2011 http://whqlibdoc.who.int/publications/2011/9789241502153_eng.pdf</p>

WHOPES Recommended Insecticides for Malaria Vector Controls

WHO recommended insecticides for indoor residual spraying against malaria vectors

WHO

October 2009

http://www.who.int/whopes/Insecticides_IRS_Malaria_09.pdf

WHO recommended insecticide products treatment of mosquito nets for malaria vector

Control

WHO

December 2007

http://www.who.int/whopes/Insecticides_ITN_Malaria_ok3.pdf

WHO recommended insecticides for space spraying against mosquitoes

WHO

July 2012

http://www.who.int/whopes/Insecticides_for_space_spraying_Jul_2012.pdf

WHO recommended long-lasting insecticidal mosquito nets

WHO

July 2012

http://www.who.int/whopes/Long_lasting_insecticidal_nets_Jul_2012.pdf

WHOPES-recommended compounds and formulations for control of mosquito larvae

WHOPES

September 2012

http://www.who.int/whopes/Mosquito_Larvicides_Sept_2012.pdf