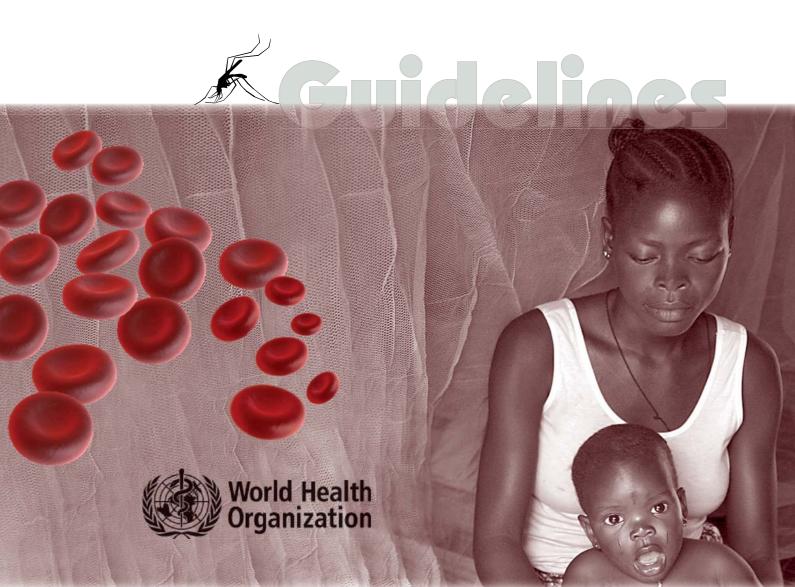
Guidelines for monitoring the durability of long-lasting insecticidal mosquito nets under operational conditions



Cover Design: Tissot Patrick WHO/NTD
Photo credit: Vestergaard Frandsen
Illustrations (blood cells and mosquito): Meissner Denis WHO/GRA

Guidelines for monitoring the durability of long-lasting insecticidal mosquito nets under operational conditions



Control of Neglected Tropical Diseases
WHO Pesticide Evaluation Scheme
and
Global Malaria Programme
Vector Control Unit

WHO Library Cataloguing-in-Publication Data

Guidelines for monitoring the durability of long-lasting insecticidal mosquito nets under operational conditions.

1.Mosquito control - methods. 2.Bedding and linens. 3.Insecticides - administration and dosage. 4.Clinical trials, Phase II. 5.Clinical trials, Phase III. 6.Guidelines. I.World Health Organization.

ISBN 978 92 4 150170 5 (NLM Classification: QX 600)

© World Health Organization 2011

All rights reserved. Publications of the world health organization are available on the who web site (www.who.int) or can be purchased from who press, world health organization, 20 avenue appia, 1211 geneva 27, switzerland (tel.: +41 22 791 3264; fax: +41 22 791 4857; e-mail: bookorders@who.int). Requests for permission to reproduce or translate who publications — whether for sale or for noncommercial distribution — should be addressed to who press through the who web site (http://www.who.int/about/licensing/copyright_form/en/index.html).

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the world health organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the world health organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the world health organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the world health organization be liable for damages arising from its use.

Web only.

WHO/HTM/NTD/WHOPES/2011.5

CONTENTS

			Page
AC	KNOW	VLEDGEMENTS	
1. 2. 3.	DEFI	CODUCTION INITION OF ELEMENTS OF DURABILITY ECTIVES AND APPROACHES FOR MONITORING DURABILITY Objectives Approaches 3.2.1 Prospective longitudinal studies 3.2.2 Retrospective, cross-sectional surveys	1 3 4 4 4 5 6
4.	PRO 4.1 4.2 4.3 4.4 4.5	SPECTIVE LONGITUDINAL MONITORING Selection of study sites National clearance and ethical considerations Community sensitization and informed consent Long-lasting insecticidal nets used in studies Household census, allocation and tracking of nets 4.5.1 Household census 4.5.2 Sample size and net allocation	6 6 8 8 8 8 8
	4.6 4.7 4.8	Sampling Follow-up and questionnaire on durability of nets Measurement of expected outcomes 4.8.1 Net survivorship and attrition 4.8.2 Fabric integrity 4.8.3 Insecticidal activity	9 10 10 10 11
5. 6. 7.	DATA 7.1 7.2 7.3	ROSPECTIVE CROSS-SECTIONAL SURVEY METHODS A QUALITY A ANALYSIS Survivorship and attrition Assessment of fabric integrity Insecticidal activity Factors related to durability of nets	14 15 15 15 16 16
9.	OPE	ORTING RATIONAL RESEARCH ERENCES	17 17 18
AN AN	NEX II	. INFORMED CONSENT FORM (SUGGESTED TEMPLATE) I. HOUSEHOLD CENSUS AND DEMOGRAPHIC DATA FORM II. NET MASTER LIST V. SAMPLE QUESTIONNAIRE FOR MONITORING DURABILITY OF NETS	19 23 24
		UNDER OPERATIONAL CONDITIONS /. CONE BIOASSAY OF NETS COLLECTED IN HOUSEHOLDS /I. TUNNEL BIOASSAY OF NETS COLLECTED IN HOUSEHOLDS	25 36 37

ACKNOWLEDGEMENTS

The first draft of these guidelines was written by the following experts: Dr Adeline Chan, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Dr John Gimnig, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Dr Albert Kilian, Malaria Consortium, Montagut, Spain; Dr Jo Lines, World Health Organization (WHO), Geneva, Switzerland; Dr Michael MacDonald, United States Agency for International Development, Washington DC, USA; Dr Stephen C. Smith, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Dr Robert A. Wirtz, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Dr Rajpal S. Yadav, WHO, Geneva, Switzerland; and Dr Morteza Zaim, WHO, Geneva, Switzerland.

The first draft was then peer-reviewed by individuals and institutions known for their expertise in the subject. With the technical support of Dr John Gimnig, the WHO secretariat considered all the comments and prepared a second draft, which was reviewed and discussed at a consultation held at WHO headquarters in Geneva, Switzerland, on 22–25 February 2011. Representatives of industry were invited to attend the first 2 days of the meeting to exchange information and share views, after which the second draft and comments were further reviewed by a group of WHO-appointed experts, who finalized the guidelines by consensus. These experts were Dr Daniel Boakye, Noguchi Memorial Institute for Medical Research, Accra, Ghana; Dr Marc Coosemans, Institute of Tropical Medicine, Antwerp, Belgium; Dr John Gimnig, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Ms Sarah Hoibak, Basel, Switzerland; and Dr Evan Mathenge, Kenya Medical Research Institute, Nairobi, Kenya. The five experts who participated in the consultation declared that they had no conflict of interest in the subject matter of the guidelines.

The following WHO secretariat also attended the meeting: Dr Birkinesh Ameneshewa, Regional Office for Africa; Ms Aurélie Bottelin, Global Malaria Programme, Geneva; Dr Jeffrey Hii, WHO Country Office, Manila, Philippines; Dr Abraham Mnzava, Regional Office for the Eastern Mediterranean; Dr Jo Lines, Global Malaria Programme, Geneva; Dr Raman Velayudhan, Department of Control of Neglected Tropical Diseases, WHO, Geneva; Dr Rajpal Yadav, Department of Control of Neglected Tropical Diseases, WHO, Geneva; and Dr Morteza Zaim, Department of Control of Neglected Tropical Diseases, Geneva.

The WHO Department of Control of Neglected Tropical Diseases and the Global Malaria Programme acknowledge all the individuals and institutions listed above for their important contributions to this work. They also express their sincere thanks to Dr John Gimnig and to the United States Centers for Disease Control and Prevention for their valuable support in preparation of this document. The financial support of the Global Collaboration for Development of Pesticides for Public Health is also gratefully acknowledged. WHO will welcome feedback and suggestions from national programmes, research institutions and industry on the guidelines in order to improve future editions.

预览已结束, 完整报告链接和二维码如下

https://www.yunbaogao.cn/report/index/report?reportId=5_28809