GUIDELINES FOR LABORATORY AND FIELD TESTING OF MOLLUSCICIDES FOR CONTROL OF SCHISTOSOMIASIS



GUIDELINES FOR LABORATORY AND FIELD TESTING OF MOLLUSCICIDES FOR CONTROL OF SCHISTOSOMIASIS



Guidelines for laboratory and field testing of molluscicides for control of schistosomiasis

ISBN 978-92-4-151540-5

© World Health Organization 2019

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; https://creativecommons.org/licenses/by-nc-sa/3.0/igo).

Under the terms of this licence, you may copy, redistribute and adapt the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: "This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition".

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization.

Suggested citation. Guidelines for laboratory and field testing of molluscicides for control of schistosomiasis. Geneva: World Health Organization; 2019. Licence: CC BY-NC-SA 3.0 IGO.

Cataloguing-in-Publication (CIP) data. CIP data are available at http://apps.who.int/iris.

Sales, rights and licensing. To purchase WHO publications, see http://apps.who.int/bookorders. To submit requests for commercial use and queries on rights and licensing, see http://www.who.int/about/licensing.

Third-party materials. If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

General disclaimers. 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 WHO 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 and dashed 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 WHO 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 WHO 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 WHO be liable for damages arising from its use.

Printed in France.

CONTENTS

Acknowledgementsiv
Abbreviationsv
1. Introduction
2. Laboratory studies (Phase I)
2.1 Objectives
2.2 Materials, test species and test conditions
2.3 Determination of biological activity5
2.3.1 Intrinsic molluscicidal activity5
2.3.2 Efficacy and residual activity
2.4 Determination of discriminating concentration
2.5 Cross-resistance assessment
3. Small-scale field trials (Phase II)
3.1 Objectives
3.2 Methodology
3.3 Efficacy and residual activity
3.4 Data collection and analysis
3.5 Selection of optimum application dosage
3.6 Efficacy criteria for Phase II studies
4. Large-scale field trials (Phase III)
4.1 Objectives
4.2 Methodology
4.3 Data collection and analysis
4.4 Efficacy criteria for Phase III studies
5. Regulatory and ethical considerations
6. Community consent
References 17
Annex 1. Measurements and conversions
Annex 2. Dilutions and concentrations
Annex 3. Data recording forms
Annex 4. Informed consent form
Annex 5. Examples of large-scale field trials

Acknowledgements

The first draft of the guidelines was prepared by Dr Henry Madsen and modified by Dr Richard Oxborough. The document was then peer reviewed by experts and discussed in a WHO Consultation held at the National Institute of Parasitic Diseases, Shanghai, China on 7–10 October 2015.

The World Health Organization (WHO) is sincerely grateful to the following persons who contributed to the drafting, review and finalization of this guideline:

Dr I. Ayi (Department of Parasitology, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana); Dr F. Chandre (IRD MiVEGEC, Montpellier, France); Professor P.M.Z. Coelho (Reference Laboratory for Schistosomiasis, Centro de Pesquisas, Rene Rachou Research Center, The Oswaldo Cruz Foundation, Minas Gerais State, Brazil; Professor A.K. El-Harawy and Dr M.A. Elemam (Theodor Bilharzia Research Institute, Giza, Egypt); Dr K. Gachuhi (Centre for Biotechnology Research and Development, Kenya; Medical Research Institute, Nairobi, Kenya); Dr D. Jian-Rong (Anhui Institute of Parasitic Diseases, Anhui Province, China); Dr C. Kariuki (Kenya Methodist University, Nairobi, Kenya); Dr H. Madsen (Faculty of Health and Medical Sciences, University of Copenhagen, Denmark); Dr H. Mone (Interactions Hôtes-Pathogènes-Environnements, Université de Perpignan Via Domitia, Perpignan Cedex, France); Mr S.J. Mohammed (Neglected Tropical Diseases, Pemba Island, Zanzibar); Dr P. Muller (Department of Epidemiology and Public Health, Swiss Tropical and Public Health Institute, Basel, Switzerland); Dr K.E. N'Goran (UFR Biosciences, Félix Houphouët Boigny University, Abidjan, Côte d'Ivoire); Dr W. Tian-Ping (Anhui Institute of Parasitic Diseases, Anhui Province, China); Dr R.M. Oxborough (Medical Entomology Consultant, London, UK); Dr D. Rollinson, Wolfson Wellcome Biomedical Laboratories, Life Sciences Division of Life Sciences, The Natural History Museum, London, UK); Dr Z. Yi and Professor Xiao-Nong Zhou (National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Shanghai, China).

The following technical staff of the WHO Department of Control of Neglected Tropical Diseases led the development of the guidelines: Dr Rajpal Yadav, Dr Amadou Garba Djirmay and Dr Jiagang Guo.

Abbreviations

AI	active ingredient
EC	emulsifiable concentrate
FAO	Food and Agriculture Organization of the United Nations
LC ₅₀	concentration that results in 50% mortality
LC ₉₅	concentration that results in 95% mortality
SC	suspension concentrate
USEPA	United States Environmental Protection Agency
WHO	World Health Organization
WP	wettable powder



预览已结束, 完整报告链接和

https://www.yunbaogao.cn/report/index/report?