

Pesticide and disinfectants management: WHO approach

Dr Irina Zastenskaya

WHO European Centre for Environment and Health



WHO approach

- There is no definition and terminology “biocides/biocidal product” in WHO documents
- Specificity of different types of products (purpose of their use) are considered in risk assessment
- Disinfectants are assessed according to their use
- Other products - common approach to risk assessment

Commonalities and specificities

- Two main criteria: effectiveness and safety
- Risk assessment scheme - hazards assessment, exposure assessment, risk characterization, risk assessment
- Target populations and exposure assessment requirements and approaches
- Effectiveness: to prevent diseases and ensure well-being and increase production

What is WHOPEs

WHOPEs promotes and coordinates the testing and evaluation of pesticides for public health

WHOPEs' objectives

- to facilitate the search for alternative pesticides and application methods that are safe and cost-effective; and
- to develop and promote policies, strategies and guidelines for the selective and judicious application of pesticides for public health use, and assist and monitor their implementation by Member States.

What is WHOPES

- WHOPES comprises a four-phase:
evaluation and testing programme,
studying the safety,
efficacy and operational acceptability of
public health pesticides and
developing specifications for quality
control and international trade.

WHO guidelines

Guidelines for laboratory and field testing of long-lasting insecticidal nets

Guidelines for efficacy testing of spatial repellents

Guidelines for testing the efficacy of insecticide products used in aircraft

A generic risk assessment model for insecticide-treated nets – Revised edition

Guidelines for efficacy testing of insecticides for indoor and outdoor ground-applied space spray applications



Models for risk assessment



Generic risk assessment model for indoor residual spraying of insecticides. Geneva, World Health Organization. 2011⁴



Generic risk assessment model for indoor and outdoor space spraying of insecticides. Geneva, World Health Organization. 2011⁶



Generic risk assessment model for insecticides used for larviciding. Geneva, World Health Organization. 2011⁵



Generic risk assessment model for insecticide-treated nets. Geneva, World Health Organization. 2012⁷

Guidelines on pesticide management



FAO/WHO Guidelines for the registration of pesticides. Geneva, World Health Organization 2010¹



FAO/WHO Guidelines for quality control of pesticides. Geneva, World Health Organization 2011²



FAO/WHO Guidelines on data requirement for the registration of pesticides. Geneva, World Health Organization 2013³

Guidelines for efficacy testing



Guidelines for efficacy testing of household insecticide products. Geneva, World Health Organization. 2009⁶



Guidelines for efficacy testing of mosquito repellents for human skin. Geneva, World Health Organization. 2009⁷

Training tools on pesticide specifications



Specifications for pesticides - A training manual (Facilitator's guide). Geneva, World Health Organization. 2013 (WHO/HTM/NTD/WHOPES/2013.3, August 2013)⁸

Thanks for your attention

zastenskayai@who.int

