



Vector Control
Advisory Group

10th WHO Vector Control Advisory Group (VCAG) Meeting

VCAG update

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**World Health
Organization**



Outline

- Organizational matters
- The role of VCAG
- Products under review
- Updates
- Next Steps

Organizational matters

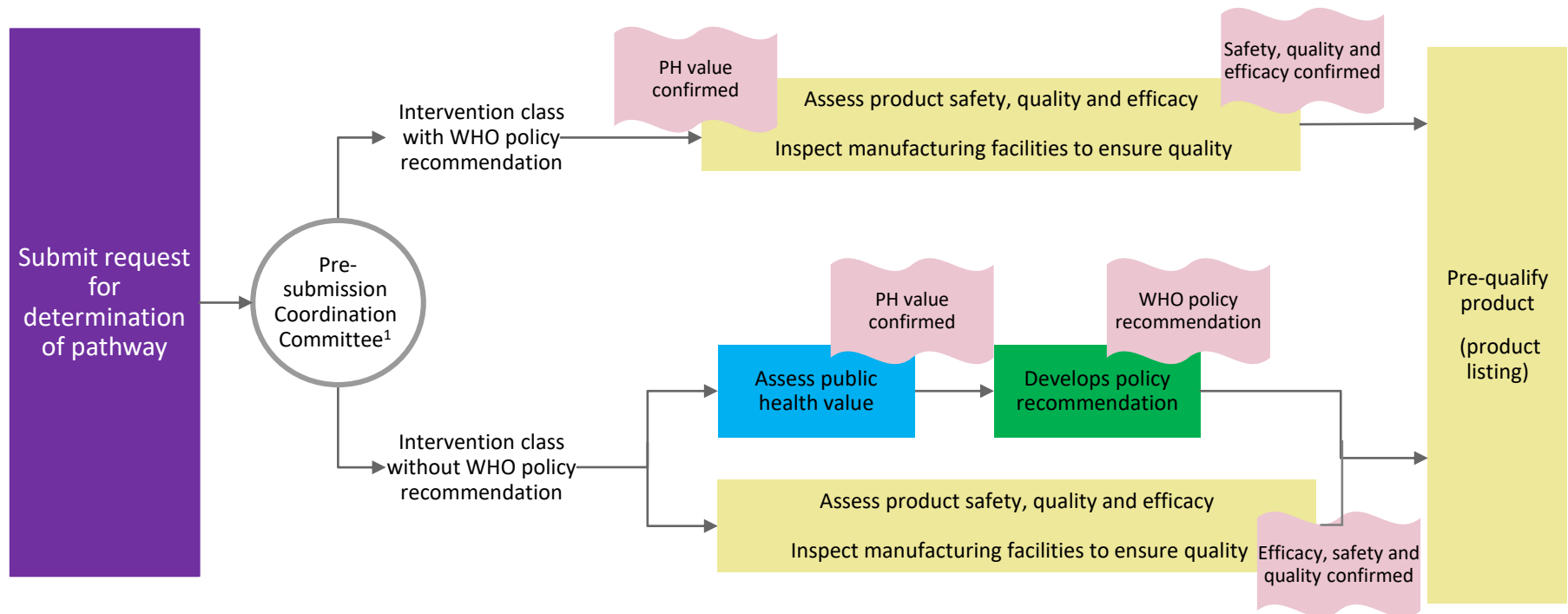
- Working procedures for the Open Session
 - VCAG members invited to speak first, followed by observers and then those on WebEx
 - Questions after the meeting can be answered by contacting the VCAG Secretariat
- Because we are using WebEx please speak into microphone

The role of VCAG

- VCAG is an **advisory body to WHO** on new tools, technologies and approaches for the control of vector-borne diseases.
- VCAG assist WHO in developing public health policy on new tools, VCAG **assesses the public health value** of new interventions and provides **guidance on developing the evidence base** required to inform such assessments by the group.
- **Public health value** is defined as: **proven protective efficacy to reduce or prevent infection and/or disease in humans.**
- **Cross-departmental collaboration** of the WHO Global Malaria Programme (GMP), the Department of Control of Neglected Tropical Diseases (NTD), and the WHO Prequalification Team (PQT) for Vector Control Products.

Evaluation Pathway for vector control products

Within WHO, VCAG assesses the public health (PH) value of new intervention classes



Vector Control
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1. Consisting of staff from PQT, GMP and NTD

GMP and
NTD with
support of
MPAC/STAG



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Intervention	Intervention class	Prototype / product	Status in WHO evaluation process
Insecticide-treated nets	Non-pyrethroid insecticide net	Yorkool LN (OP)	Safety assessment by PQ
	Pyrethroid plus non-pyrethroid insecticide net	Interceptor® G2 (pyrethroid-chlorfenapyr)	RTC protocols reviewed by VCAG
	Pyrethroid plus insect growth regulator net	Royal Guard LN (pyrethroid-pyriproxifen)	RTC protocols reviewed by VCAG
	Pyrethroid plus piperonyl butoxide (PBO) net*	Olyset® Plus	Converted to PQ listings during 2017/18
	LLIN supplement	SmartPatch	Reviewed by VCAG in 2014
Spatial Repellents	Spatial Repellents	Transfluthrin passive emanator	Field trials in progress
Attractive Targeted Sugar Baits	Attractive Targeted Sugar Bait (ATSB)	ATSB®, mosquitoes’ bait station	Field trials in planning
Peridomestic residual spray	Outdoor spraying of residual chemical for killing sand fly vectors	Spaying of exterior walls and boundary fences of dwellings with residual insecticide formulations	VCAG reviewed protocol in May 2018
Peridomestic combined repel and lure devices	Repel and lure strategy for malaria control	The approach consists of two devices: 1) repels mosquitoes from houses and immediate surroundings (the “push”) and 2) lures mosquitoes towards odor-baited traps (the “pull”)	Concept and preliminary elements of an RCT reviewed by VCAG
Vector traps for disease management	Adulticidal oviposition and laticidal traps	Vector traps including AGO trap, Trap-N-kill ® trap and ALO	ALO concept review May 2019
	Auto-dissemination devices	In2Care® Mosquito Trap	Field trials in planning
Genetic manipulation of vectors for disease control	Population reduction – gene-drive approach	CRISP/Cas9 - suppression construct in <i>An gambiae</i>	Initial lab data reviewed by VCAG
	Population alteration – gene-drive approach	Cas9- based gene drive - anti-P. falciparum and/or anti-P. vivax constructs	Initial lab data reviewed by VCAG
Sterile insect technique (SIT) combined with microbial infection	Sterile Insect Technique / Incompatible Insect Technique	Sterilized male Ae. aegypti and Ae. albopictus infected with Wolbachia spp.	VCAG reviewed RCT protocol
Microbial control of human pathogens in adult vectors	<i>Wolbachia</i> -based population alteration	wMel strain <i>Wolbachia</i> in <i>Aedes aegypti</i>	Field trial in progress
Systemic insecticides and endectocides	Systemic cattle treatment for vector control	Fipronil bolus	VCAG reviewed protocol in 2017
	Endectocides	Ivermectin repurposed for malaria	Field trials in planning
Housing modification	Lethal House Lures	In2Care®EaveTube with electrostatically charged coating for delivery of powder formulations	Field trial in progress

Updates

- Clarified processes:
 - Updated VCAG Terms of Reference
 - SOPs for VCAG applicants
 - Overview of products under VCAG review developed
 - Roles / responsibilities clearly defined between NTD, PQT-VC and GMP
- Streamlined running of meetings: option for off-cycle reviews
- Improved communications:
 - New website and regular updates

Updates - VCAG Membership

Two new co-chairs

- Heather Ferguson
- Salim Abdulla

Four new members:

- Kalpana Baruah
- Steven Bradbury
- Neal Alexander
- David O'Brochta

Five *ad hoc* experts invited to this meeting

- Mamadou Brahim Coulibaly (by phone)
- Philip Coyne (PQ Assessor)
- Alfred B. Tiono
- Alia Zayed
- Tongyan Zhao

Updates - VCAG Terms of Reference

- Terminology: “**Intervention class**” not “product class”
- Clarification – entomological data:

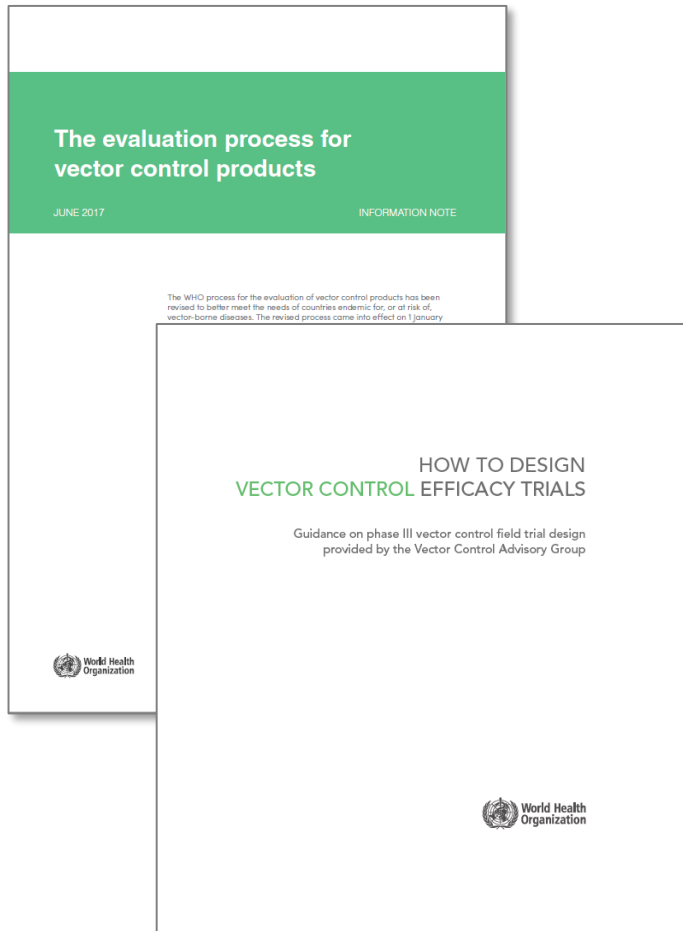
PQT-VC:

- Responsible for assessment of entomological data, in the context of meeting **data requirements for prequalification**, and development of associated guidance on **test procedures**.

VCAG:

- The provision of advice to WHO may require a review of entomological data generated to allow the prequalification assessment, as these data may **inform the epidemiological study design and supporting studies**
- In cases where **entomological evaluations** are conducted alongside epi trials to generate **supporting /explanatory evidence**, VCAG is expected to review and guide the study design

VCAG: next steps



- Update / revise two key documents to align with revised GMP policy-making process:
 - The evaluation process for vector control products
 - How to design vector control efficacy trials
- Further diversify VCAG membership