
Proposal for an online IRM training course

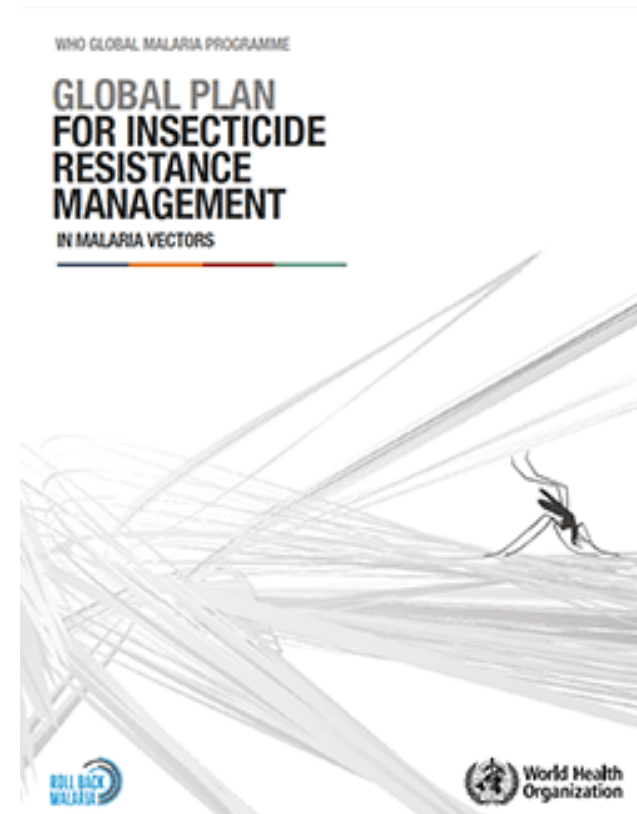
The IRM “MOOC”

February 9th 2017



Rational

- The GPIRM is the authoritative resource for Insecticide Resistance Management (IRM) in malaria vectors
- However, IRM is an applied science, and there is a need to translate theory into practice
- How to reach the target audience with the material in the GPIRM they need to undertake effective IRM?



Rational

- **Who are the target audience?**
- All those who can have an impact on the outcome of a vector control programme
 - Those involved with IRS and net distribution, and their supervisors
 - Those taking the decisions on which VC interventions to undertake
 - Those involved with the logistics of undertaking a campaign
 - Those involved in financing VC programmes
 - Those undertaking susceptibility monitoring and reporting
 - The students who will be undertaking these roles in the future
 - Many others

Rational

- **The target audience is:**
 - Geographically dispersed
 - Have different roles and functions
 - Have different backgrounds and experience of VC
- **But, all are linked by the desire to use vector control as a tool to defeat vector borne disease**



Proposal

- **Online education is rapidly expanding**
- **The phenomena of MOOCs is transforming educational delivery**
 - A MOOC, Massive Open Online Course, is an online course aimed at unlimited participation and open access via the internet
 - They provide educational opportunities to learners not enrolled in formal educational programmes
- It has been estimated that in 2016 58 million students studied a MOOC^a
- With ca. 7,000 online courses offered by 700 universities and institutions^a



a. Source, ICEF Monitor, <http://monitor.icef.com/2017/01/global-mooc-enrolment-jumped-last-year/> 6.2.2017

Proposal

- MOOCs have been successfully used to deliver public health related material

ONE HEALTH: CONNECTING HUMANS, ANIMALS AND THE ENVIRONMENT
UNIVERSITY OF BASEL
Become familiar with One Health effective solutions it provides
TBA 6 weeks

PREVENTING THE ZIKA VIRUS: UNDERSTANDING AND CONTROLLING AEDES MOSQUITO
LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE
Discover the science behind the Zika outbreak to understand how it is spread and can be controlled.
9 Jan 3 weeks 4 hours pw Certificate

Medical Entomology
pasteur - 96003
Started - Feb 06, 2017

IN THE FOOTSTEPS OF ZIKA...
MOOC AVAILABLE
UNIVERSITÉ DE GENÈVE Institut Pasteur

ANTIBIOTIC RESISTANCE: THE SILENT TSUNAMI
UPPSALA UNIVERSITY
Understand antibiotic resistance and what actions are needed to address this increasingly serious global health threat
24 Apr 4 weeks 3 hours pw Certificate

Logos: Coursera, UDA CITY, edX, canvas NETWORK, NovoED, iversity, OPEN 2 STUDY, Future Learn.

Proposal

- It is proposed to create an IRM MOOC based on the principles outlined in the GPIRM
- The MOOC will be open to anyone to undertake and will be delivered free to the participant
- It is expected that the course will take between 10 and 12 hours to complete over a three or four week period, and will be delivered using an engaging multi-media approach, including video, audio and text, and will facilitate online interaction between participants
- After studying the course the participant will have:
 - an understanding of what insecticide resistance is and its impact on vector control
 - the theory and practice of applied IRM and the importance of undertaking IRM in the context of a wider Integrated Vector Management (IVM) approach

Proposal

- It is hoped that the course will be produced in association with the leading experts and institutions in the field, and endorsed by the wider VCWG community – but not exclusively associated with any one institute and not “sponsored” by an industrial partner
- Target to launched at the VCWG meeting in early 2018.
- It is anticipated that delivery of the MOOC will be on the FutureLearn platform
- Once produced, the course can be delivered multiple times, incorporating updates as required.



Status

- **Concept developed at RBM VCWG meeting in Feb 2016**
- **Contacted MOOC platform providers**
 - An IRM MOOC would meet requirements for major platform providers
- **Spoken with several Public Health educational establishments**
 - Positive feedback and willingness to support the initiative
 - Encouraging feedback from existing MOOC providers
- **Surveyed the wider VCWG community**
 - Limited response to an online survey, however, very positive feedback
 - A number of people volunteered to support initiative
 - Believed that target audience would have access to the technology required to participate in the course

What has been learnt

- To produce the MOOC will probably take more time and effort than you think...
- The most effective way to produce a quality MOOC is to have a fulltime coordinator/director
- There is already some material available that can be relatively easily modified to form part of the MOOC
- The ability for course participants to share and discuss their experiences through a moderated course based forum is a highly valuable element of the MOOC

What next?

Activity	Timeframe
Identify the core team who will oversee the course production and delivery. Identify a steering team to ensure the scientific/technical and educational integrity of the course. (Lead educationalist)	Q1 2017
Identify resources required to produce and deliver course Seek funding	Q2 2017
Generate syllabus and structure of course	Q2 2017
Appoint coordinator/producer to manage production of course	Q2 2017
Produce course	Q3 – 4 2017
Review and sign off	Q4 2017
Deliver course	Q1 2018

What is required

- **Willingness of key institutions to support and endorse the MOOC**
 - Institutions from the Northern and Southern hemisphere, academic and non-academic
- **Availability of funding**
 - Identify sources of funding
 - Expedite funding to meet challenging timelines
- **Address any legal and intellectual property issues that may arise**
 - Copyright and ownership of material, etc.
- **Buy-in from key institutions to promote participation in the MOOC by the target audience**

Summary

- **High quality engaging online course teaching the principles of applied IRM, in the context of IVM, as outlined in the GPIRM**
- **Free to the participant**
- **Participation actively promoted to target audience, but open to anyone**
- **Increase knowledge, and facilitate best practice application, of IRM in all vector control programmes**
- **Particularly relevant as novel VC interventions become available**

Thank you for your attention

I hope you will hear more about this initiative throughout the year