
Larval Source Management Work Stream

Update and plans

Steve Lindsay



Larval Source Management Work Stream

1. Update on 2011 deliverables
2. Cochrane Review
3. Agenda for tomorrow

2011 deliverables for RBM

1. Organize 2nd meeting at the ASTMH → Dec 2011
2. ‘Establish a **decision-making framework** for deciding where LSM will work’ → end April 2012
3. ‘Support the development of the template on **country case studies**’ → end April 2012
4. ‘Support the development of an **operational manual** on LSM’ → end April 2012

2nd meeting, ASTMH: What was discussed

1. Presentations:

- **Historical use of LSM – Gerry Killeen (IHI)**
- **Cochrane Review of LSM – Julie Thwing (CDC/PMI)**
- **LSM in malaria control today – Charles Mbogo (KEMRI)**

2. **Mike Macdonald (USAID)** presented the draft WHO position statement on larviciding on behalf of **Jo Lines (LSHTM)**

3. Group discussion of position statement led by **Steve Lindsay and Mike Macdonald.**

2nd meeting, ASTMH: conclusions

1. Many considered that the WHO position statement does not accurately reflect existing evidence for the efficacy and cost-effectiveness of LSM
2. Countries need technical guidance on LSM
3. Emphasis on need for:
 - a) Evidence-based decision making (IVM) (including detailed knowledge of local ecology)
 - b) Good management
 - c) Quality control of products

2011 deliverables for RBM

1. 'Establish a **decision-making framework** for deciding where LSM will work'
2. 'Support the development of the template on **country case studies**'
3. 'Support the development of an **operational manual** on LSM'

Agreed with RBM that these could be delivered by end April 2012, so we can incorporate results of Cochrane Review



Who are they for?

1. **Decision-making framework** for LSM. Booklet designed for NMCPs/NGOs – should I consider LSM for malaria vector control? Go – No Go.
2. **Country studies**. Exemplars of what it takes to run a successful LSM program for those interested in establishing a LSM program.
3. **Operational manual**. Detailed description of what is needed for LSM. Tool kit for Program Managers.

Update on Cochrane Review I

- **Objective:** To compare mosquito larval source management for malaria control, with no LSM, applied either alone or in combination with other interventions
- **Search results:** c2800 abstracts identified by the search, 507 unique studies assessed for eligibility, 13 eligible for inclusion in final analysis
- **Results:** LSM associated with **69% reduction in incidence** (in the six eligible studies with data), **75% reduction in parasite prevalence** (in six studies), no evidence for reduction in spleen rates (in three studies)

Update on Cochrane Review II

- **Conclusion:** LSM reduces morbidity from malaria where breeding sites are fixed, discrete and easily identifiable, and therefore may complement other methods of malaria vector control
- **Next steps:** finalise ento analysis and submit to Cochrane Group end Feb
- **Limitations:**
 - Only 4 RCTs - much of evidence comes from historical reports which we can't include in analysis
 - Heterogeneity in study design
 - Large variability in interventions
 - Unreported data for entomological outcomes

2012 deliverables...

...to be discussed tomorrow

Agenda for tomorrow

13.00-13.15	Welcome	Steve Lindsay
	Main points from 2nd Meeting, ASTMH	
13.15-13.30	Update on Cochrane Review	Lucy Tusting
13.30-13.45	2011-12 plan of work	Steve Lindsay
	Decision-making framework	
	Country case-studies	
13.45-14.00	Operational manual	Shiva Murugasampillay
14.00-15.00	Discussion	Led by Steve Lindsay