Outdoor Malaria Transmission Work Stream Progresses

Prof Marc Coosemans & Dr Chusak Prasittusuk
Progresses

- A two day meeting was planned from 23-30 November 2011 but has been postponed to 12-13 March 2012 (flooding in Bangkok)

- One day meeting (28 November 2011) in Phnom Penh assembling 25 actors (national, international) active in Cambodia.
Plans for 2012

- Workshop on 12-13 March 2012 organized by the Faculty of Tropical Medicine, Bangkok. ⇒ Mekong countries

- Inventory of institutions and researchers in the Mekong region (AFRIMS Bangkok).

- Compilation of regional research (AFRIMS Bangkok)

- Review of residual transmission in the Mekong Region and elsewhere (ITMA).

- Strategies for research and development
New paradigms:

For **general** applications: eg topical repellents, spatial repellents (some) Attractants

For **specific** risk groups. Eg treated clothes, devices with spatial repellents, blankets, adapted LLINs for outdoor sleeping

- Before raising epidemiological evidence: efficacy close of 100% (for 4 hours) against mosquito bites + Safety

- Can the tool be standardized? Plantations (hevea, artemisia) Anecdotal evidence of plantations of arthemisia
- S.Moore's study with repellent plants (Plos ONE
Designs

- Efficacy against bites X adherence
- Importance of BCC messages for an unknown product,
- measuring compliance

- Individual (target groups), household, community design:
  ⇒ Aversion to non users,
  ⇒ Placebo (double blinded?),
  ⇒ Recruitment, follow up
  ⇒ Human behaviour versus mosquito behaviour

- in each arm should be equal for malaria prevalence, but also Health facilities & VMW, etc

- Design adapted to claim of the product, users,
network

Inventory of research on residual transmission Who is doing what?

Exchanges experience on protocol designs.

New paradigms: welcome (but first efficacy trials against bites, no bedtime stories, smartphone mimicking noise )