Steering Committee 23-24 January 2018 – Phnom Penh

Vector Control Intervention in Schools to Measurably Reduce Transmission of DENV in the Community

Sowath LY









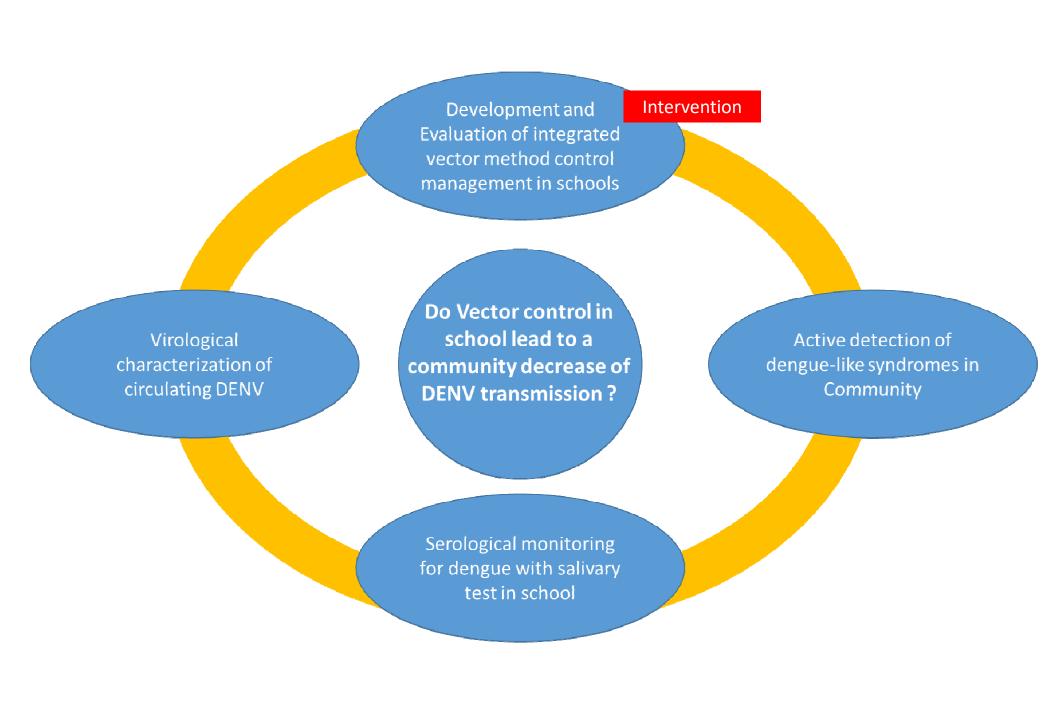
WP CAMBODIA

ECOMORE-2, WP Cambodia

Schools could be hot spots for transmission of dengue among children in Cambodia

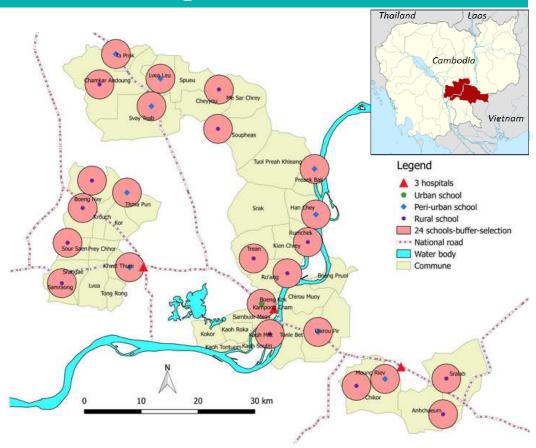


Do Vector control in school lead to a community decrease of DENV transmission?

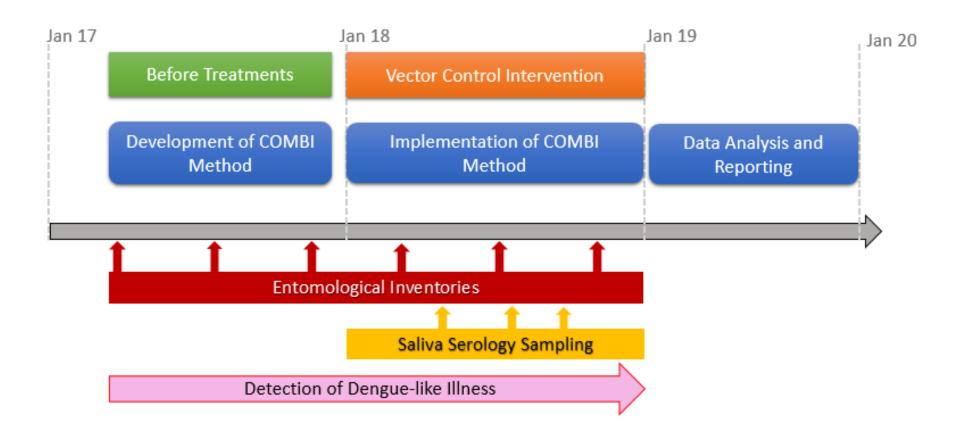


Cluster Randomized Trial Study Kampong Cham & Tbong Khmum Provinces

- 24 clusters in 5 districts
 - 71 villages (26 in urban/peri-urban)
 - 78,741 population
 - ~15,000 children aged 5-15 years old
- A cluster
 - One SCHOOL with primary grade
 - Several VILLAGES (800+ children aged 5-15 y.o.) surrounding and depending on that school
- Intervention arm (12 clusters)
 - Integrated vector control strategy



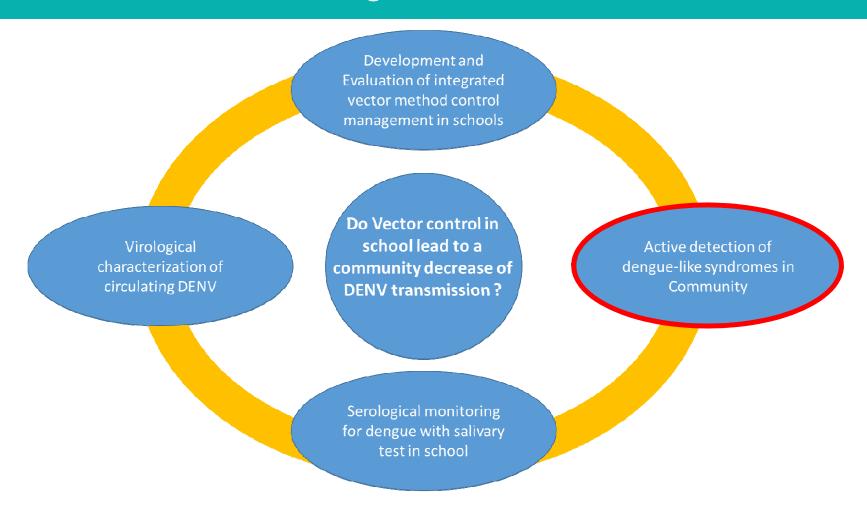
Project Timeline



ECOMORE-2, WP Cambodia

- Involvement of Authorities
 - National Dengue Control Program, Ministry of Health
 - Ministry of Education, Youth and Sports
- Experts who have participated in the design of the study
 - Entomology
 - Virology
 - Epidemiology
 - Modeling

Active Surveillance of Dengue-like Illness in Communities



Active Surveillance of Dengue-like Illness in Communities In Children Aged 5-15 Years Old







Nurses from Health Centers (42 pple)



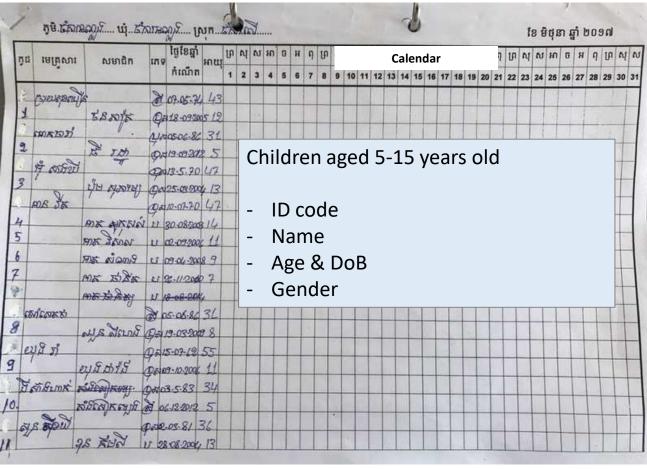
Village Health Volunteers (90 pple)



Local Monitors Kg Cham (4 pple)

Detect Fever Cases Weekly Home Visit by Village Health Volunteers (VHV)





Suspicion of Dengue-like Illness by Village Health Volunteers (VHV)



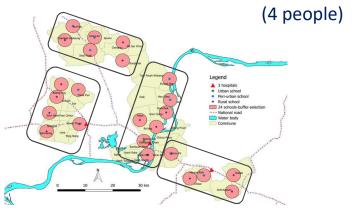
Blood sampling for testing at IPC (acute and convalescence samples)



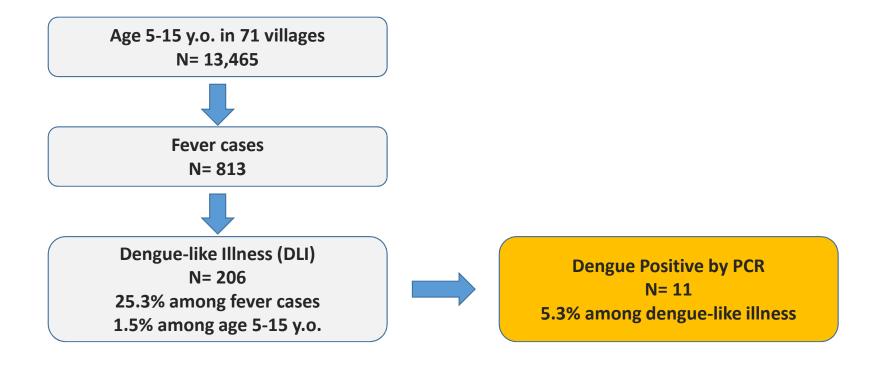
Activities correlated to the detailed protocol of objective #1

- Weekly monitoring of VHV's work
- Collect samples from health centers and send to IPC
- Onsite coordination and logistics

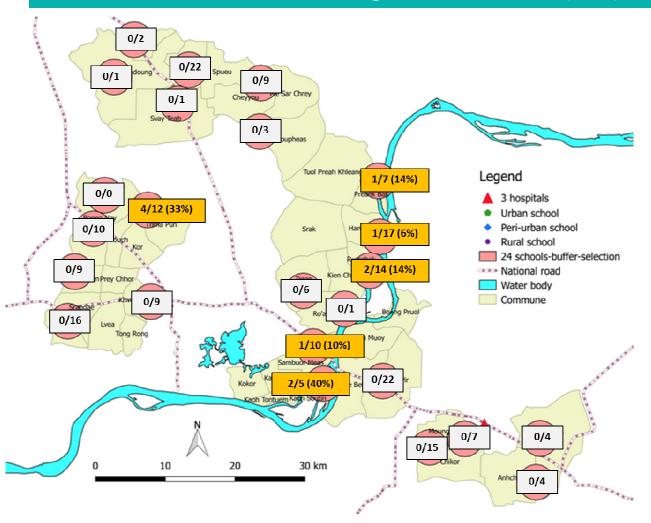




Preliminary Results (June - October 2017) Active Surveillance of Dengue-like Illness in Community



Preliminary Results (June – October 2017) Active Surveillnace of Dengue-like Illness (DLI) in Communities

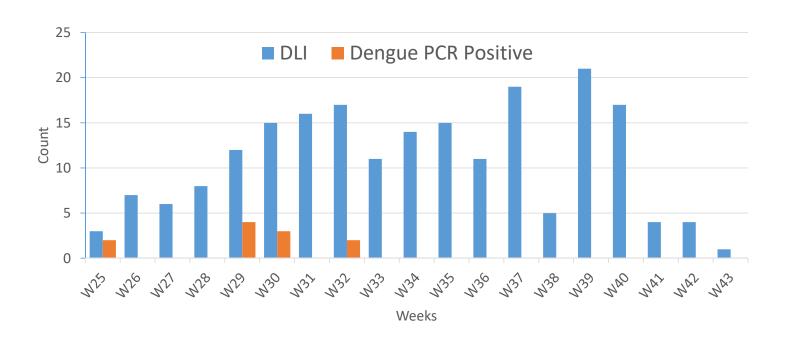


DLI = 206 PCR Pos = 11 (5.3%)

PCR Positive/DLI (%)

Preliminary Results (June-October 2017) Active Surveillance of Dengue-like Illness (DLI) in Communities

DLI = 206 PCR Pos = 11 (5.3%)

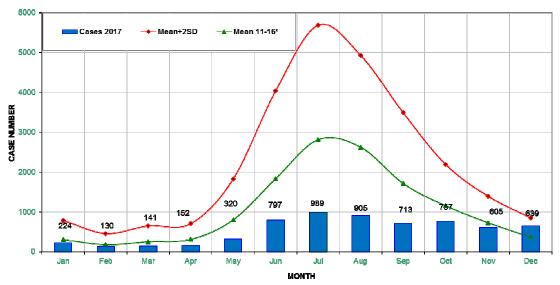


Preliminary Results (June-October 2017) Active Surveillance of Dengue-like Illness (DLI) in Communities

- The study surveillance
 - Low detection of Dengue-like Illness and Dengue Confirmed Cases in Community

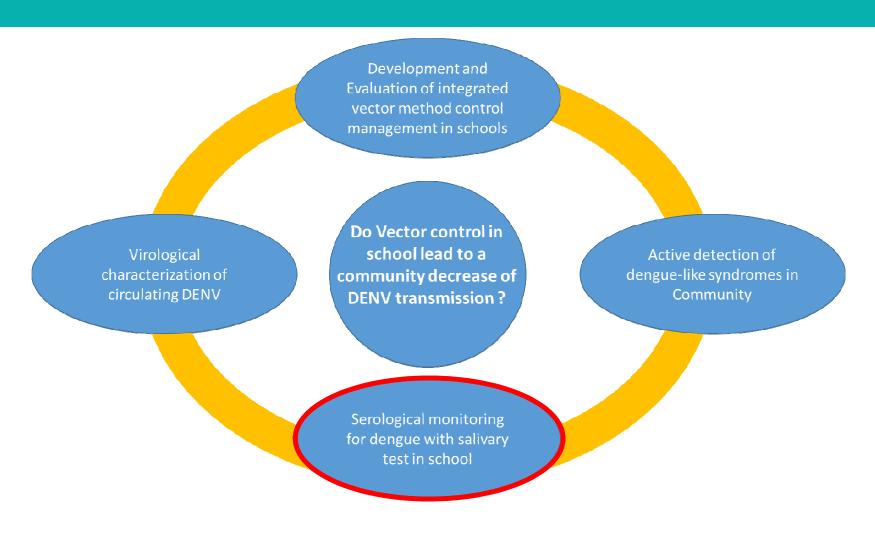
- Data of Syndromic Hospital Surveillance, National Dengue Control Program
 - Low circulation of Dengue in 2017



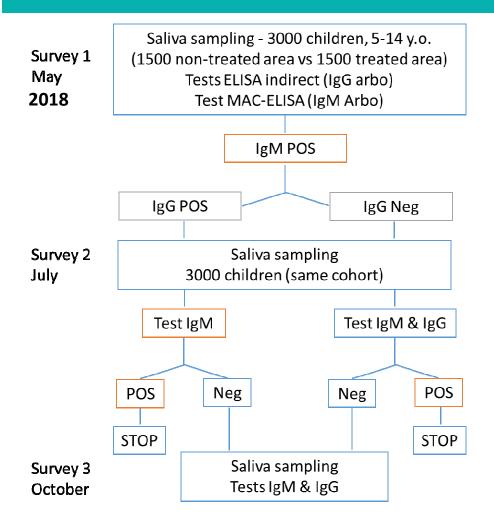


(Syndromic Hospital Surveillance, National Dengue Control Program)

Serological Monitoring for Dengue with Salivary Test in School Children



Serological Monitoring for Dengue with Salivary Test in School Children







THANK YOU FOR YOUR ATTENTION!













