

ICMR-National Institute of Malaria Research

Sector-8, Dwarka, New Delhi

Indian Council of Medical Research- National Institute of Malaria Research was requested to give its inputs on ways to implement activities under **“Organizing workshop- cum- training on eradication of communicable and non- communicable diseases with high incidences,”** for MGC Countries i.e Cambodia, Lao PDR, Myanmar, Thailand and Vietnam. The implementation can be combined with the existing programmes.

Background:

Despite the several advances in the field of surveillance, diagnostics, therapeutics and interventions for vector control, malaria and other vector borne diseases are still poses a great challenge to eliminate. The changing vector behavior, the emergence of drug resistance leading to therapeutic failures with existing antimalarial drugs, the reduced efficacy of vector control tools due to insecticide resistance are just some of the factors which compound the problem of malaria. However, the success stories of the Malaria and other VBDs countries which have successfully eliminated malaria shows that an integrated approach targeting the parasite and vector can lead to successful disease elimination

Objectives:

To train the national programme officials, medical and paramedical staff in different aspects (Surveillance, diagnosis, monitoring therapeutic efficacy of antimalarials, vector surveillance and insecticide resistance monitoring) of vector bore disease particularly malaria dengue and chikunguniya.

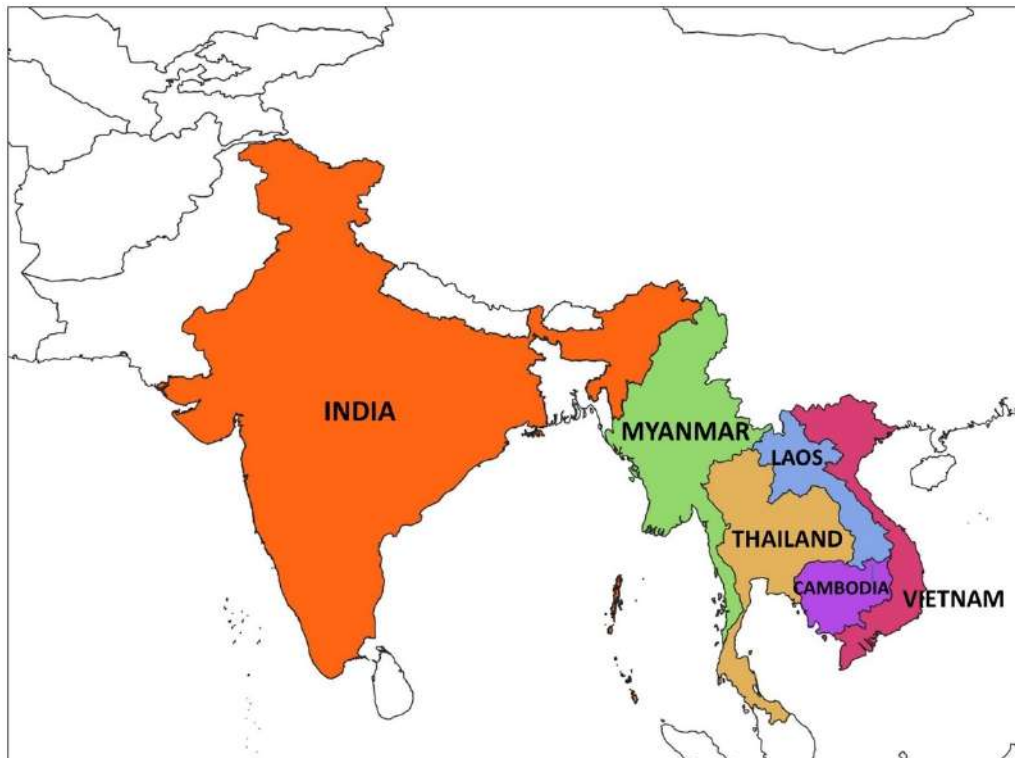
Action Plan of NIMR for VBDs for MGC countries

ICMR- National Institute of Malaria Research is one of the Institute of Indian Council of Medical Research (ICMR) with a mandate to support the national malaria control program through basic applied and operational research aiming to eliminate malaria from the country in short term as well as long term solutions to the problems of malaria through basic, applied and operational field research. One of the key mandates is to train manpower through trainings/workshops in the field of Malaria and other Vector borne diseases (Malaria, Dengue

and Chikungunya). In addition, the Institute also technical support for resource/facility development and transfer of technologies of VBD control to the implementing authorities.

As per the requirement NIMR may participate in following activities:

1. Tailored trainings on surveillance, diagnostics, prevention and control of VBDs for different levels (Program managers, and Implementers at ground level) under the National VBD Program of the governments of the identified countries in Mekong Region. Experts from ICMR-NIMR can impart training on parasite and vector surveillance and control strategies of VBDs. The trainings include the field-based activities such as mosquito collections & identification, management, surveillance and diagnostics related to common areas of interventions in the MGC.
2. Scientists/Experts from ICMR-NIMR may jointly identify the key areas for formulating strategies for the elimination of VBDs and disseminating information to the community for sustaining elimination for the specific region.
3. ICMR-NIMR can participate in an exhibition with the display of achievements related to malaria and other VBDs. The tools and methods can be displayed with IEC material translated to the local language.



Training program for MGC region

Trainings pertaining to:

a) surveillance, diagnosis and vector borne disease control programme for managers of middle to senior levels in New Delhi

b) ground-level implementers is proposed to be conducted in each country. Or three countries may also be selected on the basis of proximity and ecological representation and to encompass the local area and their social factors to get a larger view on applicability of the training in MGC region.

a) Manager Level training: The training will be focused on training of trainer's policy making personnel of National Program at country level and one person from the regional level preferably from MGC region. Hence 20 persons from 6 regions =18 plus two more participants from the host country where the will be conducted

No of Participants: 20 offline participants for each training. (3 personnel x 5 Country + 5 personnel from host country) for hands on training for VBDs.

Training Venue: We propose to conduct one training in New Delhi, India OR in Vietnam

Level 1 Manager Level training (3 Days)

S.No.	Topics	Mode	Faculty
1	Introduction to VBDs and challenges for control in GMC region	Lecture	WHO SEARO Personnel
2	Surveillance Tools for VBDs in GMC region and their limitations	Lecture	NIMR
3	Interactive session for Participants for regional National program and constrain faced in GMC region	Discussion	All participants In 5 groups
4	Entomological Surveillance methods and their limitations	Lecture	NIMR
5	New tools in Vector biology and control	Lecture	NIMR
6	Diagnosis methods for VBDs and their limitations	Lecture	NIMR
7	Climate change impact on VBDs	Lecture	NIMR
8	Insecticide Resistance and management	Lecture	NIMR
9	Mosquito Susceptibility assays and their importance	Demonstration	NIMR
9	Therapeutic efficacy monitoring and management	Lecture	NIMR
10	Field Visit to the GMC region for demonstration of Mosquito collection methods and their importance	Field Visit	NIMR/Country's National Program
11	New Needs for National Program for elimination of VBDs	Lecture	Country's National Program

b) Implementer level Training: The training will be for the implementer personnel of country's programme of the MGC region who are participating in the diseases control and elimination activity directly. Hence 20-30 participants from each country will be trained.

Training Venue: We propose to conduct one training in each country

Level 2 Implementer Level training (5 Days)

S.No.	Topics	Mode	Faculty
1	Introduction to VBDs and challenges for control in GMC region	Lecture	WHO SEARO Personnel
2	Identification of mosquitoes species/their habitat/ collection methods of larvae and adults (Native mosquitoes)	Lecture/Demonstration	NIMR
3	VBD indices and their importance	Lecture	NIMR
4	Identification of malaria parasites microscopy	Lecture and Demonstration	NIMR
5	Other Diagnosis methods for VBDs like ELISA /PCR	Lecture	NIMR
6	Mosquito Susceptibility assays and their importance	Demonstration	NIMR
7	Field Visit to the GMC region for demonstration of Mosquito collection methods and their importance	Field Visit	NIMR/Country's National Program
8	Importance of Local/ Social factors in implementation of VBD control	Lecture /Interaction	NIMR

The training will be focussed for two levels Managerial level and implementation level staff of National Control program of six MGC countries i.e. Cambodia, Lao PDR, Myanmar, Thailand and Vietnam.

At the end of training we expect to have common as well as specific problem learning to the participants of both level for the MGC region. The training will have pre and post evaluation of the participants. The training will also be focussing for enhancing the abilities of Vector control managers and the implementers of the region. In addition to the learning and training acquired by the trainees we expect to develop a document for common strategic plan for control of VBDs in these countries for long term solutions.

Expected outcome

This workshop cum training aims to support the building, strengthening, and sustaining the skill sets required to carry out the various activities of national VBDs programmes in MGC region. This will not only strengthen the participating countries' individual capacities but also help build inter-country collaborations for diseases elimination in the MGC region.

Some pictures of the inaugural program of the training:-















