

Report on Training Course, on

Eradication of Malaria and other VBDs for

Mekong-Ganga Cooperation countries



Organised by

ICMR-National Institute of Malaria Research, Delhi

April 24-26, 2023



Report of training on eradication of malaria and other VBDs for Mekong-Ganga Cooperation countries

Indian Council of Medical Research- National Institute of Malaria Research organized three days' **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 programs.

The objective of the training was to train the national program officials, medical and paramedical staff in different aspects (Surveillance, diagnosis, monitoring therapeutic efficacy of antimalarials, vector surveillance, and insecticide resistance monitoring) of vector borne disease, particularly malaria dengue and chikungunya.

15 participants (Annexure 2) from five MGC countries participated. The participants were program manager for malaria in their respective countries. The program initiated on 24th April 2023 the day wise schedule is as follows

Day 1

Inauguration: The workshop was initiated with the welcome of participants and a round of introduction of the participants and NIMR scientists, Welcome address was given by Dr Neelima Mishra, Director The aims and objective of the meeting and the details of the program were briefed by Dr Abhinav Sinha, Scientist E, NIMR.

Shri Harsh Chirania, Joint Secretary Ministry of External Affairs, chaired the inaugural ceremony and briefed the participants about the MGC initiative and the motive of such interactive training that will increase collaborative bonding between MGC countries for fighting against common diseases. He gave best wishes to all the participants for happy stay and best of interactive learning. Shri Puran Patwari, Consultant, MEA was also present as a guest.



Inaugural session and lectures of the 1st day of training course

Lectures: First technical lecture was on Challenges in VBDs control in India taken by Dr. Avdhesh Kumar Program officer, NVBDCP, he gave an overview of Indian status and efforts carried out by India towards Malaria elimination and the challenges that are on the way. A lecture on Malaria surveillance needs & challenges were taken by Dr Kalpna Barua, Consultant and Former Additional Director, NCVBDC. She mentioned the program structure in India manpower allocation and basic working of our control program and on surveillance of vectors in India. Dr Neelima Mishra, Scientist F, NIMR took a lecture on Therapeutic efficacy monitoring and management and drug resistance in plasmodium and needs to address complexities in plasmodium. An interactive lecture on the Urban malaria scheme & challenges was taken by Dr. R.S. Sharma, Former Additional Director National Centre for Diseases Control he emphasized the surveillance control and management of vector borne diseases in the urban sector.

Day 2

Lectures: On the second day diagnostic tools in malaria were discussed through an interactive lecture entitled “Diagnostic challenges for VBDs” by Dr Praveen Bharti scientist E at NIMR. The second lecture on “Setting up a Surveillance system and outbreak investigation” by Dr. Ekta Saroha Associate Professor at International Institute of Health Management Research. In her deliberation she emphasized on the requirement for setting up an emergency surveillance system, their indicators and logistic requirement that can be sustainable. An interactive lecture on “Entomological surveillance methods & their limitations and New Tools in vector control” was delivered by Dr Himmat Singh, Scientist E, NIMR.



Second day lectures

Field Visit:

Field training of participants from Mekong-Ganga Cooperation (MGC) member countries on “Urban Vector Control Challenges” on 25th April 2023 being World malaria Day. The participants were addressed by Mr Amit Sharma, Deputy Commissioner Central zone and Dr LR Verma, Municipal Health officer, MCD. Mr Sharma talked about urban challenges of Solid Waste management, timely and proper garbage disposal and implementation on Ban on single use plastic. He also informed of initiatives taken in Central zone in collaboration with

Community members. Dr Verma talked about success stories in control of Water Borne Diseases and Malaria. The Participants visited mega construction project of G 20 venues where breeding control is challenge due to ongoing mammoth construction and more significant in view of forthcoming G 20 summit. The challenge is being addressed in collaboration with Construction agency. A clinic has also been established at construction site for surveillance of labour. Participants were also informed of initiatives of vector control in unauthorised areas, low lying areas and major drains in collaboration with engineering department. Participants also visited Heritage tourist destination of Humanyun Tomb, a place of public agglomeration and how these sites are maintained breeding free so no local transmission occurs. Opportunity is also taken for raising community awareness amongst the tourists visiting sites. The participants were also shown a natural mother hatchery of Gambusia fish in Sunder Nursery Park. The Training was organised by Dr Naveen Rai Tuli, Deputy Health Officer and coordinated by Dr Mamta Singh, Entomologist. The theme of Field Visit “Urban Vector Control Challenges” was appropriately conceived by NIMR and coincided aptly with World malaria day i.e. 25 th April 2025. A pledge was also taken by participants to control the Malaria in their respective countries and bilateral sharing of knowledge and experience.



Field visit to the urban construction and restoration sites

Day 3

On the third day a lecture on “Digital Surveillance and GIS in VBDs” was delivered with hand on experience by Dr Sanjeev Gupta and the demonstration was done by Miss Poonam Saroha with an example. A lecture on the climatic factors and their role in vectorborne diseases control entitled “Climate change & impact on VBDs” was imparted by Dr R.C. Dhiman, Former Scientist G, NIMR.

Understanding of insecticide susceptibility status of the native population of vectors is an important component for choosing any insecticide for any geographical area for public health use therefore one lecture was scheduled for understanding the need and current status of insecticides a lecture on “Insecticide resistance and management” was imparted by Dr K. Raghavendra, Former, Scientist G, NIMR. India has demonstrated successful malaria control demonstration using community participation and hard to reach areas, one of such project was Mandla project a lecture was delivered by Dr Praveen Bharti, on “Malaria elimination demonstration in Mandla, India”.

The post lunch session the participants were taken to various laboratories, insectaries, Arthropod containment laboratory and thereafter to insecticide testing laboratory to demonstrate bioassays for assessment of bioassays for insecticide resistance. i.e WHO larvicide assay and, Cone bio assay and Bottle bioassay by Dr Vaishali Verma and Dr Gaurav Kumar In-Charge of insecticide testing laboratory and other facilities. The demonstration was interactive for providing insight of a simple bioassay which may give different results if protocols are not followed properly. There were presentations from the participants from different countries progress towards malaria elimination during a panel discussion which was moderated by Dr Kuldeep Singh and Dr Ritesh Ranjha and Dr Himmat Singh, Dr Vaishali Verma, Dr Gaurav Kumar and Dr Sanjeev Gupta.



Demonstration at Insecticide testing laboratory and presentation by participants

Valedictory: The valedictory function followed with the Certificate distribution to the participants.

Participant's Feedback:

The feedback of participants was taken for further improvement of such international training. Almost all participants were in view that they have gained knowledge from the training and it was very good (87-93%) as per the content. The participants (100%) also appreciated the knowledge of faculties and were satisfied with the Quality of content in their presentations. The participants also gave feedback on the less duration of the training as only three days were not sufficient for field-oriented training. The feedback form is attached as Annexure No. 3

Training Organizers



Dr Anup R Anvikar, Director



**Dr Abhinav Sinha
Scientist E**



**Dr Praveen K Bharti
Scientist E**



**Dr Himmat Singh
Scientist E**



Feed Back Form for Participants

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. I will be able to apply the knowledge learned.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were identified and followed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The content was organized and easy to follow.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. The materials distributed were pertinent and useful.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of instruction was good.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. The trainer met the training objectives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Class participation and interaction were encouraged.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Adequate time was provided for questions and discussion.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. How do you rate the training overall?					
Excellent	Good	Average	Poor	Very poor	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
12. What aspects of the training could be improved?					
13. Other comments?					
14. Name of Participants..... (Optional)					

THANK YOU FOR YOUR PARTICIPATION!

List of Participants from Different countries

Sr. No.	Country	Name of the participant	Designation
1	Cambodia	Dr. Yoeuk Soklin	National Malaria Center Ministry of Health
2	Cambodia	Mr. Sam Bunleng	National Malaria Center Ministry of Health
3	Cambodia	Mr. Ly Sokha	National Center for Parasitology Entomology and Malaria Control
4	Laos PDR	Dr. Phonetavy Khotsimeuang	Head of Administration and Planning Division, Department of Hygiene and Health Promotion, Ministry of Health, Lao PDR
5	Laos PDR	Dr. Phoungoun Phongxay	Officer, Department of Communicable Diseases Control, Ministry of Health, Lao PDR
6	Laos PDR	Dr. Phoumsavath Ounnavong	Officer, Department of Healthcare and Rehabilitation, Ministry of Health, Lao PDR
7	Vietnam	Dr. Hoang Dinh Canh	Director of National Institute of Malariology, Parasitology & Entomology (NIMPE)
8	Vietnam	Dr. Nguyen Quy Anh	Deputy Chief of Epidemiology Dept of NIMPE
9	Vietnam	Mr. Nguyen Van Dung	Chief of Entomology Dept of NIMPE
10	Myanmar	Dr. Nay Woon Linn	Deputy Director (Disease Control), State Public Health Department, Kayin State, Department of Public Health, Ministry of Health Myanmar
11	Myanmar	Dr. Minn Tin Maung Shein	Deputy Director (Disease Control), Regional Public Health Department, Yongon Region, Department of Public Health, Ministry of Health Myanmar
12	Myanmar	Dr. Thet Wai Oo	Staff Officer, Department of Public Health Ministry of Health, Myanmar
13	Thailand	Dr. Rungrawee Tipmontree	Public Health Technical Officer, Senior Professional Level
14	Thailand	Dr. Piti Mongkalangoon	Public Health Technical Officer, Senior Professional Level
15	Thailand	Dr. Siriporn Yongchaitrakul	Public Health Technical Officer, Senior Professional Level



Eradication of Malaria and other VBDs for Mekong-Ganga Cooperation countries

Training Course

April 24-26, 2023 | New Delhi, India

Organizers

Anup Anvikar, Puran Patwari, Himmat Singh, Praveen K Bharti, Abhinav Sinha

24 April (Monday)	Day 1
09:30-09:45	Registration
09:45-10:00	Introduction (All)
10:00-10:15	Overview of the training (Abhinav Sinha, ICMR-NIMR)
10:15-10:30	Welcome address (Director, ICMR-NIMR)
10:30-11:00	Inaugural addresses (Mr Harsh Chirania)
11:00-11:30	High TEA
11:30-12:15	Therapeutic efficacy monitoring and management (Neelima Mishra)
12:15-13:00	Challenges in VBDs control in India (Awadesh Kumar)
13:00-14:30	LUNCH
14:30-15:15	Challenges of VBDs control in South East Asia (B N Nagpal)
15:15-16:00	Malaria surveillance needs & challenges (Kalpna Baruah)
16:00-16:15	Coffee BREAK
16:15-16:45	Digital Surveillance and GIS in VBDs (Sanjeev K Gupta)
16:45-17:30	Urban Malaria Scheme & challenges (RS Sharma)
17:30-17:45	Open Forum (Participants' interactions on regional VBD programs & challenges faced in MGC countries)

Venue : ICMR- National Institute of Malaria Research, Sector 8, Dwarka, New Delhi-110077
 Phone Number: +91-011-25307114, email: director@mrcindia.org

**25 April (Tuesday)****Day 2**

- 09:30-10:15 **Diagnostic challenges for VBDs** (PK Bharti)
- 10:15-11:00 **Setting up a Surveillance system and outbreak investigation** (Ekta Saroha)
- 11:00-11:45 **Entomological surveillance methods & their limitations and New Tools in vector control** (Himmat Singh)
- 11:45-12:00 Coffee BREAK
- 12:00-17:00 **Field visit for Urban vector control challenges** (NR Tuli)

26 April (Wednesday)**Day 3**

- 09:30-10:15 **Malaria elimination demonstration in Mandla, India** (PK Bharti)
- 10:15-11:00 **Climate change & impact on VBDs** (RC Dhiman)
- 11:00-11:15 Coffee BREAK
- 11:15-12:00 **Insecticide resistance and management** (K. Raghavendra)
- 12:00-13:00 **Demonstration of insecticide susceptibility assays** (Vaishali & Gaurav)
- 13:00-14:00 LUNCH
- 14:00-15:00 **Elimination of VBDs: Indian scenario** (Tanu Jain, Roop Kumari)
- 15:00-15:30 Coffee BREAK
- 15:30-16:30 **MGC country presentations** (MGC participants)
- 16:30-17:00 **Reflections of the course and valedictory**

Contact persons:**Dr Abhinav Sinha:** email- abhinavsinha@icmr.gov.in, cell no. - 9205059972**Dr Praveen Bharti:** email- saprapbs@yahoo.co.in, cell no. - 8839054943**Dr Himmat Singh:** email- himmatpawar@gmail.com, cell no. - 8860349351

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