



MTCP INTROM IMR WORKSHOP ON TROPICAL MEDICINE: LABORATORY IDENTIFICATION AND DETECTION OF ZIKA VIRUS FROM HUMAN AND MOSQUITO VECTORS

3-12 SEPTEMBER 2018, (10 Days)

Malaysian Technical Cooperation Program (MTCP)

The Malaysian Technical Cooperation Programme (MTCP) was officially launched on 7 September 1980 at the 2nd Commonwealth Heads of Government Regional Meeting (CHOGRM) in New Delhi to signify Malaysia's commitment to South-South Cooperation, in particular to share its development experiences and expertise with other developing countries. Based on the belief that the development of a country depends on the quality of its human resources, MTCP emphasizes the development of human resources through the provision of training in various areas which are essential for a country's development such as public administration, good governance, health services, education, sustainable development, agriculture, poverty alleviation, investment promotion, ICT and banking. Annually, MTCP collaborates with its leading Training Institutions to conduct capacity building programmes. In various key areas of development. Since its inception in 1980, more than 32,800 participants from 143 recipient countries have benefited from the various programmes offered under the MTCP.

Objectives of MTCP

- To share development experience with other countries;
- To strengthen bilateral relations between Malaysia and other developing countries;
- To promote South-South Cooperation (SSC); and
- To promote technical cooperation among developing countries (TCDC)

Institute for Medical Research (IMR)

The Institute for Medical Research (IMR) established in 1900, is the research arm of the Ministry of Health, Malaysia. Research programmes of the Institute are aligned with the health research priority areas and health needs of the country. The IMR undertakes research to advance scientific knowledge and understanding as well as to

provide evidences for informed decision making and formulation of effective preventive and control programs and activities.

Research is carried out with the purpose of developing enabling technologies or products and identifying new biomarkers for use in the early detection and diagnosis of disease, monitoring of disease progression and targeted therapy. IMR also provides specialised diagnostic services, training in specialised field and consultative and advisory services.



Institute for Medical Research

Inter-Islamic Network in Tropical Medicine (INTROM), Institute for Medical Research (IMR), Kuala Lumpur.

Inter-Islamic Network in Tropical Medicine (INTROM) is one of the 8th Inter Islamic Network under COMSTECH. COMSTECH is a Ministerial Standing Committee on Scientific and Technological Cooperation established under OIC (Organization of Islamic Countries). INTROM was set up in 1987 and Institute for Medical Research (IMR), Kuala Lumpur is the focal point and secretariat for INTROM activities. INTROM member countries include Algeria, Egypt, Iraq, Malaysia, Niger, Pakistan, Senegal, Kingdom of Saudi Arabia and Turkey.

The mission of INTROM is in line with the mission of COMSTECH that is to strengthen the individual and collective capacity of OIC member states in Science and Technology through mutual cooperation, collaboration and networking resources. The activities of INTROM is envisaged to enables the OIC member states to use science and technology as a major contributor towards socio-economic development and rapid industrialisation in the OIC region. All of the OIC member states are members of COMSTECH.

Objectives of MTCP, INTROM AND IMR in conducting technical support training were integrated in accordance for mutual benefit. The general objective is to:

To share development and to promote cooperation on biomedical expertise among muslim and non-muslim countries for the benefit of human at global.

Name of the Workshop:

MTCP INTROM IMR WORKSHOP ON TROPICAL MEDICINE: LABORATORY IDENTIFICATION AND DETECTION OF ZIKA VIRUS FROM HUMAN AND MOSQUITO VECTORS

Background of the Workshop

The flavivirus, Zika virus (ZIKV) has recently been responsible for outbreaks in the western Pacific region, including French Polynesia, New Caledonia, Easter Island, and the Cook Islands. The first major outbreak of human ZIKV infection was reported in the Pacific Island of Yap and its adjoining islands in the Federated State of Micronesia in 2007 (Duffy et al., 2009) and the outbreak lasted for about four months and infecting approximately 73% of the islands' population. The latest update in Brazil reported that ZIKV was ecological related to cause brain damage to the newborn (shrunken skull or microcephaly), whereby the virus was detected in the blood and tissues of the babies by the researchers. In addition the virus has been associated with another neurological syndrome called Guillain-Barre Syndrome. As such zika infections have great public health importance.

Therefore, there is an urgent need to understand and screen the zika viruses to avoid misdiagnosis between dengue and zika.

The Aim of the Workshop is to assist participants on the techniques / methodologies of identification of zika vectors and detection of the virus in human and vectors. The epidemiology of the vectors will be elaborated by participants in relation to their respective countries. In this way the participants will be able to understand the epidemiology of vectors in different countries. This will develop capacity building in this area and address the learning need and the requirements of managing control program or setting up laboratory capacity to support these needs

Participants of this course should have the following:

- Nominated by their Government
- A good command of English
- Basic degree in medical, biological or health sciences
- Three years or more experience working with the Ministry of Health of your country
- Working in the field of entomology and virology or related areas
- Should be between 26 to 46 years old

Course Venue

The course will be held at Advance Technology Centre (ATC) Laboratory, Institute for Medical Research (IMR), Jalan Pahang, 50588 Kuala Lumpur, Malaysia and/or Institute for Medical Research, National Institute of Health, Jalan Setia Murni U13/52, 40170 Shah Alam, Selangor

Course Contents

- Overview of Zika virus Family.
- Epidemiology of Zika virus.
- The determinants of disease.
- Zoonosis and The Possible Host.
- Control Of ZIKA
- Biosafety Practices in handling of the virus. (Biosafety Officer)
- Clinical manifestation of ZIKA (Clinician).
- Zika virus and neurological disorders including microcephaly and Guillain-Barre Syndrome (Virologist)
- Current laboratory diagnosis of ZIKA.(Virologist)
- Epidemiology and Biostatistics in relation to the disease: Creation of questioners. (Field Epidemiologist)
- Use of software to understand the basic epidemiology.
- Molecular Techniques: Detection of virus in human & mosquito samples, Principle, qualitative and quantitative, Extraction of RNA. Quantification using nano drop / Bioanalyser. PCR: conventional, Real Time
- RT PCR. Agarose Gel Electrophoresis. Gel electrophoresis using Bioanalyser. Real Time PCR and data analysis. Gel Documentation: Gel Doc / Bioanalyser.
- Introduction to a Molecular Diagnostic kit developed at the Institute for Medical Research which can detect Zika, Dengue and Chikungunya simultaneously.

Deadline of Application

30 JUNE 2018

Course Fee

All course fees are borne by the Government of Malaysia. Accommodation and meals, food and lodging are provided by the Institute for Medical Research.

Fares

A return air ticket from the capital city of the recipient country to Kuala Lumpur on economy class is provided for participants. Please refer to the MTCP/ website for further details.

Visa and Vaccination Expenditures

It is mandatory for all the MTCP participants to follow the Visa With Reference (VWR) application procedure. Once the approval is obtained, the training institution should send a copy of VDR approval letter to the participants. Subsequently, with the copy of the approval, the participants may get the VDR from the nearest Embassy of Malaysia. Wherever applicable, participants are advised to arrange for vaccination on their own prior to travel to Malaysia.

Expenditures on all visa-related fees, airport tax/airport user's charge, transit insurance, excess luggage, travel tax, transit fees, domestic passenger terminal fees, phone charges, private purchases, etc. are borne by the recipients. It also applies for vaccination before travel to Malaysia.

Medical and Dental Treatment

Candidates should be certified medically and physically fit to participate in this programme. In the case of emergencies and in need of medical treatment, the medical expenses in a government hospital will be borne by the Government of Malaysia.

How to Apply

For international participants :

Applications should be made using the prescribed MTCP forms available at : https://mtcpcoms.kln.gov.my/mtcpcoms/online/list_course and search for Institute for Medical Research (IMR)

Applications must be **submitted from the Ministry of Foreign Affairs in the respective country with a Note Verbale** to the Ministry of Foreign Affairs in MALAYSIA via the nearest Malaysia High Commission/ Embassy.

Applications must be completed and endorsed by the Ministry of Foreign Affairs or the relevant agency responsible for the MTCP Programme in the applicant's country, then submitted through the applicant's government to the Ministry of Foreign Affairs Malaysia.

For local participants :

The form can be obtained from IMR website : www.imr.gov.my

Send this applications to Dr. Murizal Zainol, Head of INTROM : murizal@imr.gov.my and cc secretariat INTROM : introm@imr.gov.my

INCOMPLETE AND/OR UNENDORSED FORMS WILL NOT BE PROCESSED.

Submitted application form must be accompanied by the applicant's medical report and a clear copy of his/her passport. Applicants will be notified of their acceptance to the course either through the Malaysian Embassies or the Institute of Medical Research (IMR)

Further Enquiries

For further enquiries, prospective applicants can communicate with the respective official **preferably** by email:

Dr. Murizal Zainol
Head of INTROM
Institute for Medical Research (IMR),
Jalan Pahang,
50588 Kuala Lumpur,
MALAYSIA

Tel no.: 603-2616 2632
Fax no.: 603-26934114
Email : murizal@imr.gov.my

Malaysian Technical Cooperation Programme (MTCP) Secretariat
Ministry of Foreign Affairs Malaysia,
Wisma Putra,
No. 1, Jalan Wisma Putra, Precint 2,
62602 Putrajaya,
MALAYSIA

Tel no: 603-2284 7525/ 2284
7543/2284 8515 (Ext. 263)
Fax: 603-2284 7364
E-mail: mtcp@kln.gov.my
Website: <http://mtcp.kln.gov.my>