

Questions and Answers document

Vector Control in Complex Situations

Wednesday, 20 September 2023, 13:00 Singapore time

Jetsumon Prachumsri	Q to Dr. Lee " what is the measurement to show malaria is eliminated for the country to be certified? which diagnostic used to declare for no more malaria transmission in the country
	live answered at this specific timestamp https://youtu.be/YcqLI16a4Ik?t=1650
Nilam Somalkar	After international travel and trade border malaria definition should revise. We are getting many malaria cases from Central Africa country every year without any border sharing with India
	live answered at this specific timestamp https://youtu.be/YcqLI16a4Ik?t=1491
Shubhla singh	Q to Dr li: So as per definition, the intercountry malaria between two states or provinces is not considered border malaria? Countries have issues of malaria transmission from high burden state/province to low-burden area and have migration surveillance activities around it. How do we define this? since most of these are decentralized countries.
	live answered at this specific timestamp https://youtu.be/YcqLI16a4Ik?t=2135
Dr S N Misra	Q to Dr Li.....1) Is there a separate definition for Cross Border malaria or is Border malaria and Cross border malaria used interchangeably? 2) Since no limit set on distance from international border, can we refer to border districts as a demarcated zone for Border malaria ??
Dr Xiao Hong Li	Thanks! We call it border malaria rather than cross border malaria. We also define malaria imported case in WHO terminology. I think it is more important to be clear what we are referring to. 2) Countries can decide the geographical scope of border malaria, taking into account the operational aspects, the relatedness of the population in two sides of the border, etc..
Massaya Sirimatayanant	Q for Dr Xiao Hong Li: Did you find differences in how an "import" case is defined across the different case studies commissioned by the ERG? And was the ERG able to define some minimum data

	sharing requirements across border sharing countries to support malaria surveillance?
Dr Xiao Hong Li	The definition of imported case is: Malaria case or infection in which the infection was acquired outside the area in which it is diagnosed (WHO terminology). The case studies didn't specifically look at the definition of imported cases. I agree that it is difficult to differentiate imported cases from local cases in border areas. The ERG didn't discuss specifically on what are the minimum data to be shared in border areas. Information such as malaria outbreaks or sudden increase of cases will be important to share so that the other side of the border can get prepared.

Jon Bastow	what special product characteristics are needed for border use?

Vetrivel Baskar	How can international organizations and governments better support cross-border malaria elimination efforts?
	live answered at this specific timestamp

Jannatul Ferdous Tithi	Does China run any specific program for controlling border malaria?
Dr Xiao Hong Li	Yes. More resources are diverted to border areas to strengthen surveillance and response system in border areas. Multisectoral collaboration as well as cross border collaboration is in place.

Dr Susanta Kumar Ghosh	'@ Dr Li. What about the cryptic malaria cases that cannot be diagnosed by RDTs and Microscopy?

Muhammad Asif Mahmood	What is appropriate to detect asymptomatic imported cases of malaria. Because due to lack of symptoms many positive carriers of malaria can cross borders easily without going through any diagnostic. similar may be the problem in case of relapse cases of <i>P. vivax</i> . please comment.
Dr Xiao Hong Li	You can consider the use of active case detection in such group, if the group could be identified.

Sokny MAO	Dr. Li. Could you suggest any concrete strategies for border malaria, or it could be importation malaria as well in GMS regions?

Gokarna Dahal	Dr Lee.' The definition of imported malaria is differing country to country so is there any common parameter to define the imported malaria "

Vannak CHRUN	this question to Dr.Li, Based on your working experiences, what kinds of indicators that we consider to declare the elimination malaria at the borders ?

Dr Susanta Kumar Ghosh	'@Dr Sudathip: Any information on changing of vector behavior after using LLINs?
Dr Prayuth Sudathip	We do vector surveillance; vector is more outdoor biting.

Md Khalilur Rahman	Other than LLIN what quality control measure your country has taken in elimination of malaria in border areas.
	live answered at this specific timestamp https://youtu.be/YcqLl16a4lk?t=5286

Muhammad Mukhtar	There is steady/rising trend of malaria cases in Thailand while target is elimination till 2024. On the other hand the strategy is same since 2019 or start of strategy. Is there any proposed or future suggested change in strategy to achieve the goal of elimination ?
Dr Prayuth Sudathip	Yes, Thailand has worked with Myanmar and CSOs. We also introduce TQ for PV radical cure, fMDA is also piloted. The elimination target will be discussed.

Massaya Sirimatayanant	Q for Dr Prayuth: while interventions (ex. foci response beyond the border) may be difficult to harmonize at the Thai Myanmar border, what is the experience with the control in other provinces' borders (Lao, Vietnam, etc.)?
Dr Prayuth Sudathip	Thailand harmonizes elimination activities with Lao, Cambodia, data sharing at local level has been effectively implemented in those borders.
Massaya Sirimatayanant	Thank you for your response ka. Could you recommend any report or papers describing the border collaborations with Lao and Cambodia ka?
Dr Prayuth Sudathip	https://www.who.int/initiatives/mekong-malaria-elimination-programme/epidemiology-summaries

Muhammad Mukhtar	There is 100% coverage through Vector Control. Can you sir explain few key features of vector control or Interventions 9IRS, ITNs or any others)?
Dr Prayuth Sudathip	The main VC is ITN, we aim 100% household with ITN (1net /2 person).
Samina Baloch	Sir, we call ITNs the best prevention measure but in our villages where Mass campaigns are conducted people use treated nets after washing with detergents what should we do to synthesize them would you please suggest us

Md Khalilur Rahman	For 2 to 3 years even non-endemic areas there is no malaria cases, suddenly one or two malaria cases is report in that areas , no travel history, no evidence of indigenous transmission of the reported cases. in these circumstances what is observations and recommendation for this cases

Vetrivel Baskar	Q to Dr. Li " How do you address the movement of people and goods across borders as a factor in malaria transmission?
	Live answered at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=5793

Krishnamoorthy Kaliannagounder	Malaria is increasing in Thailand in recent times mainly due to cross border issue?
Dr Prayuth Sudathip	It is political conflicts and also occupational movement There are 9 displaced camps along the border.

Dr S N Misra	Q to Dr Prayuth.... in such difficult Border areas, do you think Civil society organizations take and active role under country program guidance ??
Dr Prayuth Sudathip	Yes, CSOs have been key players for this complex situation, they successfully involved in outbreak response in the South (Yala province).

Muhammad Asif Mahmood	is there any universal protocol/WHO guide for prevention of imported cases of malaria?
	live answered at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=5607

Muhammad Asif Mahmood	what is the impact of intermittent irrigation in rice crops i.e. keeping the fields dry for short time between two irrigations?
	live answered at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=5707

Muhammad Asif Mahmood	pl elaborate the of role of crop spraying for pest control on malaria vector control.

Dr. Kaushik Sanyal	Dr. Srivastava Sir, thank you for a nice & compact presentation. Sir in the phase of Malaria Elimination, how important to know about border Malaria vectors of both the sides, though there are some porous borders.
	live answered at this specific timestamp

	https://youtu.be/YcqLlI6a4Ik?t=6254
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Mou Basa	Considering IRS, most insecticides being used are in use today have low time period to be active and effective.
Rajpal Yadav	Clothianidin-based products e.g. Sumi Shield have a long residual action of more than 6 months on indoor sprayed surfaces. You can find more information at: https://extranet.who.int/pqweb/vector-control-products/prequalified-product-list
Rajpal Yadav	Also, deltamethrin SC-PE (polymer-enhanced suspension concentrate) has a long residual action.

Rajpal Yadav	'@Dr Pradeep: Are there areas in India where a combination of LLINs and IRS is practiced by the National Centre for Vector-Borne Disease Control?
Dr. Kaushik Sanyal	No Sir. As per my knowledge, currently those areas which are being covered by LLIN are being excluded from the IRS.
Rajpal Yadav	What about malaria and VL co-endemic areas?
Dr Pradeep Srivastava	Answered live at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=6446

wichai satimai	Q to all " Does repellent play any role for malaria elimination?"
	live answered at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=6021

Richard Piko	Q to Dr. Prayuth, Having the VHV program in communities in Thailand to do community Dx and Rx for malaria, do the VHV's engaged in other diseases or just malaria alone?
Dr Prayuth Sudathip	Yes, they do public health, we add malaria to their responsibilities.

Muhammad Tariq	Q to Dr Pradeep, What are the possibilities of use of drone technology for mosquito surveillance in urban and desert areas?
	live answered at this specific timestamp https://youtu.be/YcqLlI6a4Ik?t=6175

Dr.Keshav Vaishnav	To Dr. Pradeep sir, Elaborate the definition of indigenous and migrant malaria ?

Jannatul Ferdous Tithi	Does Papaya leaves juice really work for dengue patient recovery? plz answer.

Muhammad Tariq	Thanks Pradeep for your answer but we can use Drone type PV22 and PV35 as a granule applicator and in Pakistan, we are planning to use first time, these types of drone for larval control in different water bodies under urban and semi-urban areas