

## WHO-South-East Asia Regional Office (SEARO)

### Webinar Series on Dengue Outbreak Control in the South-East Asia Region

The number of new cases of dengue continues to rise across the South-East Asia Region and currently a few countries are experiencing dengue outbreaks. There is a high probability that 2023 and 2024 will be marked by an El Niño event, which could increase the transmission of dengue virus and other arboviruses such as Zika and chikungunya viruses. The effects of climate change also are fueling mosquito breeding and the spread of these pathogens.

WHO-SEARO is convening a Regional Webinar Series to provide orientation for the health workforce of the Member States in the Region on the latest relevant guidance and expert experience on clinical case management, vector surveillance and vector control, outbreak preparedness and risk communication across the Region, which is considered urgently required to address knowledge gaps and improve dengue outbreak preparedness across the Region.

**From 28 August 2023 to 7 September 2023 (6 days)**

#### Registration:

[https://who.zoom.us/webinar/register/WN\\_LwCOJ6MhRUa8srO-jelAjw](https://who.zoom.us/webinar/register/WN_LwCOJ6MhRUa8srO-jelAjw)

All proposed times are in India Standard Time (IST).

**Maldives** (Male): IST – 00:30; **Sri Lanka** (Colombo): IST + 00:00; **Nepal** (Kathmandu): IST + 00:15;  
**Bangladesh** (Dhaka) & **Bhutan** (Thimphu): IST + 00:30; **Myanmar** (Yangon): IST + 01:00; **Indonesia** (Jakarta)  
& **Thailand** (Bangkok): IST + 01:30; **DPR Korea** (Pyongyang) & **Timor Leste** (Dili) IST + 03:30

Date	Topics	From	To
28 August 2023	Session 1: Clinical Management of Dengue in Children	1.30 pm	3.30 pm
30 August 2023	Session 2: Clinical Management of Dengue in Adults	1.30 pm	3.30 pm
31 August 2023	Session 3: Homecare of Dengue Patients	1.30 pm	2.30 pm
	Session 4: Nursing Care of Dengue Patients	2.30 pm	3.30 pm
04 September 2023	Session 5: Learning Lessons – Institutional Dengue Death Investigation	1.30 pm	2.20 pm
	Session 6: Essentials in Dengue critical Care – Follow up with case studies	2.20 pm	3.30 pm
05 September 2023	Session 7: Dengue Vector Surveillance	1.30 pm	2.30 pm
	Session 8: Integrated Vector Management	2.30 pm	3.45 pm
07 September 2023	Session 9: Management of Dengue Outbreak	1.30 pm	2.40 pm
	Session 10: Social and Behavioural Change Communication in Dengue	2.40 pm	3.30 pm

## **Provisional agenda**

### **Webinar Series on Dengue Outbreak Control in the South-East Asia Region**

From	To	Duration (min)	Topic	Resource person
<b>Day 1: 28 August 2023</b>				
<b>Session 1: Clinical Management of Dengue in Children</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	1.50 pm	15	Pathophysiology of Dengue and differential diagnosis of dengue in children	Prof Siripen Kalayanaroaj Consultant, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
1.50 pm	2.15 pm	25	Clinical management of non-shock dengue and dengue shock in children	Prof Mukda Vangveervong Consultant, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
2.15 pm	2.45 pm	30	Clinical management of dengue and comorbidities in children	Dr Shanthini Ganeshan Consultant Paediatrician, Colombo South Teaching Hospital, Sri Lanka
2.45 pm	3.10 pm	25	Management of dengue with complications and unusual manifestations	Prof Siripen Kalayanaroaj
3.10 pm	3.25 pm	15	Q & A	Prof Steve McGloughlin Technical Officer, Clinical Management Team, WHO Health Emergencies Programme Geneva, Switzerland
3.25 pm	3.30 pm	05	Closing remarks	Moderator
<b>Day 2: 30 August 2023</b>				
<b>Session 2: Clinical Management of Dengue in Adults</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	1.50 pm	15	Dengue – Natural course and differential diagnosis	Dr Damayathi Idampitiya

From	To	Duration (min)	Topic	Resource person
				Consultant Physician, National Institute of Infectious Diseases, Sri Lanka
1.50 pm	2.10 pm	20	Management of non-shock dengue and dengue with comorbidities	Prof Vipa Thanachartwet Professor, Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand
2.10 pm	2.35 pm	25	Management of dengue shock in adults	Dr Ananda Wijewickrama Consultant Physician, National Institute of Infectious Diseases, Sri Lanka
2.35 pm	3.05 pm	30	Case Discussions	Dr Ananda Wijewickrama Dr Damayanthi Idampitiya
3.05 pm	3.25 pm	20	Q & A	Prof Steve McGloughlin Technical Officer, Clinical Management Team, WHO Health Emergencies Programme, Geneva, Switzerland
3.25 pm	3.30 pm	05	Closing remarks	Moderator
<b>Day 3: 31 August 2023</b>				
<b>Session 3: Homecare of Dengue Patients</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	1.45 pm	10	Decision making on home care – the role of primary care physician	Dr Ashutosh Biswas Executive Director, AIIMS Bhubaneswar, India
1.45 pm	2.00 pm	15	Management of dengue fever in primary care	Dr Ashutosh Biswas
2.00 pm	2.15 pm	15	Key messages to the patient and caregivers in home care	Prof Vipa Thanachartwet
2.15 pm	2.25 pm	10	Q & A	Dr Pushpa Ranjan Wijesinghe Programme area manager, WHO Health Emergency Programme, Regional Office for South-East Asia
2.25 pm	2.30 pm	05	Closing remarks	Moderator

From	To	Duration (min)	Topic	Resource person
<b>Session 4: Nursing Care of Dengue Patients</b>				
2.30 pm	2.35 pm	05	Introductory remarks	Moderator
2.35 pm	2.45 pm	10	General nursing care management of dengue patients	Ms Varunee Vatcharasaeevee Professional Nurse Expert Level, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand Prof Mukda Vangveeravong
2.45 pm	3.00 pm	15	Adult dengue patient monitoring	Ms Geethani Udugamakorala Special Grade Nursing Officer, National Institute of Infectious Diseases, Sri Lanka
3.00 pm	3.15 pm	15	Paediatric dengue patient monitoring	Ms Varunee Vatcharasaeevee Prof Vipa Thanachartwet
3.15 pm	3.25 pm	10	Q & A	Dr Pushpa Ranjan Wijesinghe
3.25 pm	3.30 pm	05	Closing remarks	Moderator
<b>Day 4: 04 September 2023</b>				
<b>Session 5: Learning Lessons: Review of Dengue Deaths</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	2.05 pm	30	Dengue deaths: gaps in care pathway and avenues for improvement	Dr Srilal De Silva Consultant Paediatrician, Sri Lanka Dr Jagath Amarasekera Consultant Community Physician, National Dengue Control Unit, Ministry of Health, Sri Lanka

From	To	Duration (min)	Topic	Resource person
2.05 pm	2.15 pm	10	Q & A	Dr Wagawatta Liyanage Sugandhika Padmini Perera  Programme area manager, WHO Emergency Programme, Regional Office for South-East Asia
2.15 pm	2.20 pm	05	Closing remarks	Moderator
<b>Session 6: Essentials in Dengue Critical Care – Follow up with Case Studies</b>				
2.20 pm	2.25 pm	05	Introductory remarks	Moderator
2.25 pm	2.55 pm	30	Case studies & discussion - 1	Prof Vipa Thanachartwet Prof Siripen Kalayanaroj
2.55 pm	3.25 pm	30	Case studies and discussion - 2	Dr Ananda Wijewickrama Dr Shanthini Ganeshan
3.25 pm	3.30 pm	05	Closing remarks	Moderator
<b>Day 5: 05 September 2023</b>				
<b>Session 7: Dengue Vector Surveillance</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	1.50 pm	15	Dengue vector taxonomy, bionomics & surveillance methods	Dr B N Nagpal  Entomologist, Former Technical Officer, Neglected Tropical Diseases & Malaria, Department of Communicable Disease, WHO Regional Office for South-East Asia
1.50 pm	2.05 pm	15	<i>Aedes</i> larval & pupal surveillance	Dr B N Nagpal
2.05 pm	2.15 pm	10	<i>Aedes</i> adult surveillance	Dr B N Nagpal
2.15 pm	2.25 pm	10	Q & A	Dr Aya Yajima  Regional Advisor – Neglected tropical diseases, WHO Regional Office for South-East Asia
2.25 pm	2.30 pm	05	Closing remarks	Moderator
<b>Session 8: Integrated Vector Management</b>				
2.30 pm	2.35 pm	05	Introductory remarks	Moderator

From	To	Duration (min)	Topic	Resource person
2.35 pm	2.50 pm	15	Introduction to IVM	Dr P K Srivastava Entomologist, Former Joint Director, National Vector Borne Disease Control Programme, Ministry of Health and Family Welfare, Government of India
2.50 pm	3.10 pm	20	Dengue vector control methods	Dr Raman Velayudhan Unit Head, Veterinary Public Health, Vector Control and Environment Unit, WHO Department of Neglected Tropical Diseases, Geneva
3.10 pm	3.25 pm	15	Insecticide susceptibility testing and resistant management	Dr Rajpal Yadav Entomologist (Former Scientist, WHO Department of Control of Neglected Tropical Diseases, Geneva
3.25 pm	3.40 pm	15	Q & A	Dr Aya Yajima
3.40 pm	3.45 pm	05	Closing remarks	Moderator
<b>Day 6: 07 September 2023</b>				
<b>Session 9: Management of Dengue Outbreaks</b>				
1.30 pm	1.35 pm	05	Introductory remarks	Moderator
1.35 pm	1.45 pm	10	Early Warning and Response System (EWARS) for dengue outbreaks	Dr Corinne Merle Scientist, Research for implementation Unit, TDR
1.45 pm	1.55 pm	10	Early identification of dengue outbreaks through EWARS in Singapore	Dr Chia-Chen CHANG Data scientist, Environmental Health Institute in Singapore
1.55 pm	2.05 pm	10	Intersectoral collaboration in outbreak management	Dr Naveen Rai Tuli Deputy Health Officer, Public Health Department, Municipal Corporation of Delhi, India
2.05 pm	2.25 pm	20	Key steps to follow when there is an outbreak	Dr Pushpa Ranjan Wijesinghe Programme area manager, WHO Health Emergency Programme, Regional Office for South-East Asia

From	To	Duration (min)	Topic	Resource person
2.25 pm	2.35 pm	10	Q & A	Dr Wagawatta Liyanage Sugandhika Padmini Perera
2.35 pm	2.40 pm	05	Closing remarks	Moderator
<b>Session 10: Social and Behavioural Change Communication in Dengue</b>				
2.40 pm	2.45 pm	05	Introductory remarks	Moderator
2.45 pm	3.00 pm	15	Communication for behavioural change	Dr Tammy Allan Senior lecturer, the College of Public Health, James Cook University, Australia and a Member of WHO TAG-Arbovirus
3.00 pm	3.15pm	15	Bangladesh experiences of Risk Communication and Community Engagement (RCCE) platform for dengue	Ms. Yasmin Khan SBC Manager, UNICEF Bangladesh  Ms. Salma Sultana National Professional Officer (Communication), WHO Country Office for Bangladesh
3.15 pm	3.25 pm	10	Q & A	Dr Wagawatta Liyanage Sugandhika Padmini Perera  Programme area manager, WHO Emergency Programme, SEARO
3.25 pm	3.30 pm	05	Closing remarks	Moderator

## Speakers

	Name	Designation/ Affiliation
1	Prof Siripen Kalayanaroaj	Consultant, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
2	Prof Mukda Vangveervong	Consultant, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
3	Prof Vipa Thanachartwet	Professor, Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

4	Ms Varunee Vatcharasaeevee	Professional Nurse Expert Level, Dengue Center of Excellence, Queen Sirikit National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
5	Dr Srilal De Silva	Consultant Paediatrician, Sri Lanka
6	Dr Ananda Wijewickrama	Consultant Physician, National Institute of Infectious Diseases, Sri Lanka
7	Dr Damayathi Idampitiya	Consultant Physician, National Institute of Infectious Diseases, Sri Lanka
8	Dr Shanthini Ganeshan	Consultant Paediatrician, Colombo South Teaching Hospital, Sri Lanka
9	Dr Jagath Amarasekera	Consultant Community Physician, National Dengue Control Unit, Ministry of Health, Sri Lanka
10	Ms Geethani Udugamakorala	Special Grade Nursing Officer, National Institute of Infectious Diseases, Sri Lanka
11	Dr Ashutosh Biswas	Executive Director, AIIMS Bhubaneswar, India
12	Dr B N Nagpal	Entomologist, Former Technical Officer, Neglected Tropical Diseases & Malaria, Department of Communicable Disease, WHO Regional Office for South-East Asia
13	Dr P K Srivastava	Entomologist, Former Joint Director, National Vector Borne Disease Control Programme, Ministry of Health and Family Welfare, Government of India
14	Dr Raman Velayudhan	Unit Head, Veterinary Public Health, Vector Control and Environment Unit, WHO Department of Neglected Tropical Diseases, Geneva
15	Dr Rajpal Yadav	Entomologist, Former Scientist, WHO Department of Control of Neglected Tropical Diseases, Geneva
16	Dr Corinne Merle	Scientist, Research for implementation Unit, TDR
17	Dr Chia-Chen CHANG	Data scientist, Environmental Health Institute in Singapore
18	Dr Naveen Rai Tuli	Deputy Health Officer, Public Health Department, Municipal Corporation of Delhi, India
19	Dr Pushpa Ranjan Wijesinghe	Programme area manager, WHO Emergency Programme, Regional Office for South-East Asia
20	Dr Tammy Allan	Senior lecturer, the College of Public Health, James Cook University, Australia and a Member of WHO TAG-Arbovirus



21	Ms. Yasmin Khan	SBC Manager, UNICEF Bangladesh
22	Ms. Salma Sultana	National Professional Officer (Communication), WHO Country Office for Bangladesh

#### Moderators

	Name	Designation/ Affiliation
1	Prof Steve McGloughlin	Technical Officer, Clinical Management Team, WHO Health Emergencies Programme, Geneva, Switzerland
2	Dr Pushpa Ranjan Wijesinghe	Programme area manager, WHO Emergency Programme, Regional Office for South-East Asia
3	Dr Wagawatta Liyanage Sugandhika Padmini Perera	Programme area manager, WHO Emergency Programme, Regional Office for South-East Asia
4	Dr Aya Yajima	Regional Advisor – Neglected tropical diseases, WHO Regional Office for South-East Asia
5	Dr Don Sudath Dharamapriya Samaraweera	Consultant (dengue and other arboviral diseases), WHO Regional Office for South-East Asia, Former Director, National Dengue Control Unit, Ministry of Health, Sri Lanka