

DECLINING OF DENGUE CASES DURING COVID-19 EPIDEMICS IN THAILAND, 2021

Presenter: Korphayakkhin T

INTRODUCTION

- Dengue is an endemic disease in Thailand.
- Each year number of dengue case are about 60,000 at least and 150,000 in large outbreak.
- The incidence sharply declined in 2021 particularly during the severe COVID-19 situation.

AIM

To examines changing of dengue epidemic and impacts of COVID-19 measures to the dengue prevention and control.

METHODS

Descriptive study to review dengue cases, dengue virus and larva index during COVID-19 epidemics compared to previous situation.

- Dengue cases from national disease surveillance system.
- Dengue serotypes from the National Institute of Health, Thailand and Division of Vector-borne Diseases
- Aedes larval survey from TanRabad® application.

RESULTS

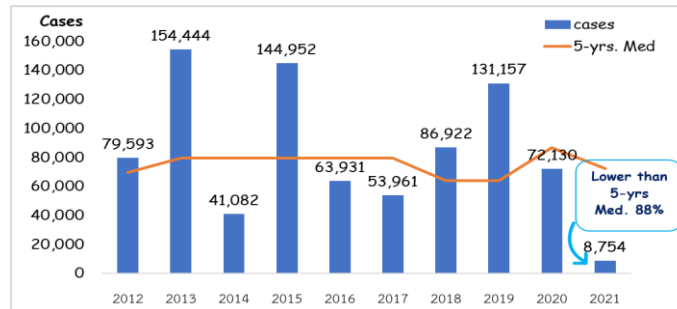


Figure 1: Dengue cases and 5-years median in Thailand, 2012 - 2021 (data as 1 Sep 2021)

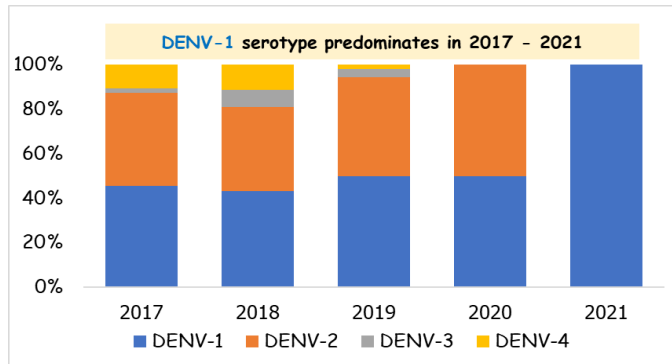


Figure 2: Proportion of Dengue serotype in Thailand, 2017 - 2021 (data from NIH Thailand as 15 Oct 2021)

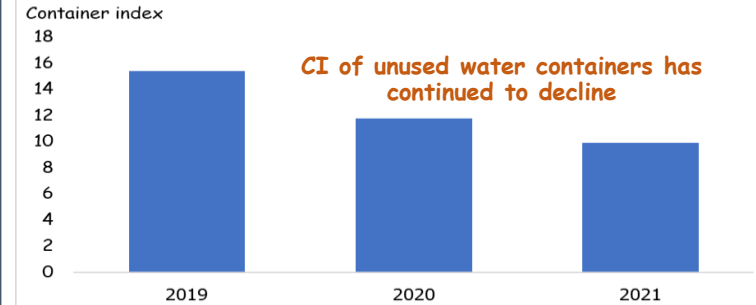


Figure 3: Container index (CI) of unused water containers in house survey in January - August 2019 - 2020

Conclusion

- Dengue incidence has declined during the COVID-19 epidemics due to the nature of dengue epidemiology itself and also impact of COVID-19 lock down.
- After relax of COVID-19 measures, movement of people will increase and may affect to the higher circulation of DENV-2.
- Larva index may increase when people leave their houses.
- Dengue prevention and control should be strengthened afterwards.

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