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Factors Associated with Dengue Prevention and Control in Two Villages in a Central Thai Province: A Retrospective Review

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Abstract

Objective: To study the factors associated with dengue prevention and control in Moo 6 (the 6th village) and Moo 7 of Tambon Kaeng-phak-kut, Thaluang District, Lopburi Province.

Material and Method: The authors reviewed the raw data collected by public health officers and village health volunteers (VHVs) as their routine tasks. The authors analyzed the data, 30 dwellings per each village, to compare the demographics, knowledge, attitude, and practice of subjects from Moo 6, a dengue-outbreak community, with that from Moo 7, a control group, as well as larval indices between these 2 studied groups. The present retrospective study is approved by Siriraj Institutional Review Board, Certificate of Approval No. SI393/2012.

Results: Both groups of subjects had no statistically significant difference in basic dengue knowledge ($p = 0.862$), attitude towards dengue prevention and control, practical knowledge ($p = 0.457$), and actual practice to eliminate Aedes larvae and prevent it laying eggs, except for the practice of managing water container in bathroom or toilet ($p = 0.015$). On the other hand, dengue incidence and larval indices of both villages were apparently different.

Conclusion: Although incorrect basic dengue and practical knowledge of subjects from both villages were similar, dengue outbreak in Moo 6 of Tambon Kaeng-phak-kut was superior. It may be due to difference in actual practice on larval elimination in water container in bathroom or toilet as well as other factors other than personal factors such as public services, public places, and community surroundings.

Keywords: Dengue prevention and control, Factors, Community, Thailand

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