

### Investigation of the First Dengue Cluster, Kaohsiung City, 2017

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#### Abstract

Dengue is the most important vector-borne infectious disease in southern Taiwan. The first indigenous dengue case in 2017 was reported in Nanzih District, Kaohsiung in July. The public health agencies initiated an epidemiological investigation and found two more dengue cases. Taiwan Centers for Diseases Control and the local government cooperated with each other to control the dengue cluster, assessing the effectiveness of vector control measures using the Gravitrapp and Ovitrap provided by the National Mosquito-Borne Diseases Control Research Center. This dengue cluster was terminated quickly and involved only three cases. We recommended using multiple ways of advocacy for dengue control to the public and health care workers to facilitate early detection of dengue cases. Outdoors ovitrap performed well and could be used with other tools to monitor the vector density and assess the effectiveness of control measures.

**Keywords:** Dengue cluster, Gravitrapp, Ovitrap

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