

# **The effects of using a fairy tale multimedia to enhance knowledge and attitude towards Dengue infection prevention among primary school students**

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## **ABSTRACT**

**Background:** In Thailand, the peak age incidence of Dengue infection is school age children. To prevention and control Dengue infection in community, effective and appropriate education for students such as multimedia base could improve knowledge and change attitude of Dengue infection in students.

**Objectives:** To determine the improve of knowledge and attitude in prevention of Dengue infection among primary school students after learning a fairy tale multimedia education and determine their opinion according to this education method.

**Methods:** Quasi-experimental research, the questionnaires were designed for directors and analyzed in data collected in focus group discussions. In order to create knowledge and attitude, a fairy tale multimedia based Dengue infection lesson, composed of causes, vector, 5 practices of preventive and control measure were introduced to grade 1-6 students in Wat Angkaew School, Phasi Chareon district, Bangkok in 2014. 9-10 students of each grade were enrolled to this study. 59 students with a mean age of 9.25 years were included. After intervention, assessing opinion, knowledge and attitude of these students was performed by interview and a questionnaire that be qualified by 5 authorities.

**Results:** 1) All of these students in a primary school have improvement of knowledge towards Dengue infection prevention after learning the multimedia. 2) All of Grade 1-3 students in a primary school have improvement of knowledge especially in 5 prevention practices for Dengue infection after learning the multimedia. 3) All of these students in a primary school have improvement of attitude towards Dengue infection prevention after learning the multimedia. 4) After learning the multimedia, the satisfactory score who response with very high satisfaction were  $4.61 \pm 0.55$  respectively from the full score 5.0.

**Conclusion:** A Fairy tale based Dengue infection lesson may improve both knowledge and attitude of Dengue infection prevention and control in primary school students.

**KEYWORDS:** multimedia, fairy tale, Dengue hemorrhagic fever, preventive and control