DETERMINANTS OF THE INCIDENCE OF DENGUE HEMORRHAGIC FEVER IN THE WORK AREA OF KUNCIRAN HEALTH CENTER, TANGERANG, BANTEN

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ABSTRACT

Background: Dengue hemorrhagic fever (DHF) has been one of the most important resurgent tropical diseases in the past 3 decades. The distribution of DHF viruses and the mosquito vectors expanded geographically. The frequency of epidemics increased and the endemicity developed. In addition, the DHF cases in new areas emerged. DHF has major economic and societal consequences. This study aimed to investigate determinants of the incidence of DHF in the work area of Kunciran Health Center, Tangerang, Banten.

Subjects and Method: This was cross sectional study conducted at Kunciran Health Center, Tangerang, Banten. A sample of 114 study subjects was selected for this study by quota sampling. The dependent variable was the incidence of DHF. The independent variables were age, sex, home temperature, humidity, lighting, the existence of larvae in water reservoirs and non water reservoirs, the presence of wire nets, the habit of draining water reservoirs, the habit of draining non water reservoirs, the habit of closing water reservoirs, and the habit of hanging clothes. The data was collected by a set of questionnaire. Bivariate analysis was performed by chi square.

Results: The prevalence of DHF was 16.7% in Kunciran Community Health Center work area, Tangerang, Banten. The incidence of DHF increased with poor lighting (OR=4.31; 95% CI= 0.93 to 19.85; p=0.004), the existence of larvae in water reservoirs and non water reservoirs (OR=4.34; 95% CI= 1.34 to 14.06; p=0.009), and the habit of hanging clothes (OR=3.38; 95% CI=1.12 to 10.15; p=0.024).

Conclusion: The incidence of DHF increases with poor lighting, the existence of larvae in water reservoirs and non water reservoirs, and the habit of hanging clothes.

Keywords: dengue hemorrhagic fever, factors

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