Index Formulation of Environment and Behavior to Predict the Improvement Dengue Fever Cases in Bone District

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Abstract

This study aims to formulate environmental and behavioral indexes to predict an increase in cases of dengue fever in the district Tanete Riattang and West Tanete Riattang, District of Bone. This study uses observational analytic with cross sectional study design. The sample size of 320 households and sample selection method is first created block by neighborhood and then from each block have been selected 20 households randomly (simple random sampling). Analysis of data using Confirmatory Factor Analysis (CFA) with the program Linear Structural Relationships (LISREL). The results showed that the environmental index for predicting cases of dengue fever in the district Tanete Riattang and West Riattang Tanete, Bone regency are: Environmental = 0.67 lighting -0.54 water reservoirs - 0.18 larva existence and + 0.9 occupant density. The index to predict the behavior of dengue cases in the District Tanete Riattang and West Tanete Riattang, Bone were: behavior = 0.16 TPA hygiene + 0.72 Closing TPA + 0.70 Drain TPA + 0.22 bury thrift + 0.55 disposal waste + 0.61 hanging clothes + 0.48 nets use + 0.56 use anti mosquito and 0.52 sowing abate.

Keywords: Index, Environment, Behaviour, Dengue

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