GROUPING DISTRICT / CITY OF EAST JAVA BASED ON NUMBER OF DIPHTHERIA CASES AND THE CAUSED FACTORS OF DIPHTHERIA KLB

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ABSTRACT
Diphtheria was endemic in East Java, the Provincial Government set as Extraordinary Events (KLB). Diphtheria is a contagious and a deadly disease, caused by the bacterium Corynebacterium diphtheriae. It can be prevented by immunization. In this study, the analysis will be conducted in East Java region groupings based on the number of cases of diphtheria that occurred and the factors are suspected as the cause, as well as analysis of the factors causing the presence or absence of cases dead of diphtheria. The methods used include cluster analysis to Ward's method and square Euclidean distance, discriminant analysis and multinomial logistic regression. The variables used include the number of cases of diphtheria, population density, percentage of villages / sub UCI, the percentage of children with malnutrition, the percentage of the poor, Human Development Index, the percentage of food expenditure per capita / month, and Infant Mortality. Obtained four groups formed by classification accuracy of 100 percent. The presence or absence of cases died of diphtheria is influenced by infant mortality rate (IMR), population density, percentage of rural / village UCI, and the percentage of food expenditure per capita / month.

Keywords: Diphtheria, Cluster Analysis, Analysis Diskrminan, Multinomial Logistic Regression