Analyzing Factors Affecting Indonesian Health Status using Ordinal Regression Model

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ABSTRACT

This study aims to identify factors that affect health status of Indonesian and describe magnitudes of factors influence health status. A method used in this study is an inferential statistical method based on ordinal regression models. The ordinal regression model is a model used to analyze an ordinal response variable with one or more quantitative and categorical explanatory variables. Data used in this study are secondary data from the fifth wave of Indonesian Family Life Survey (IFLS) which is available on the RAND website. A response variable was a categorical variable of an ordinal scale health status (unhealthy, unhealthy, healthy, very healthy). Explanatory variables consisted health behavioral, predisposing characteristics, supporting resources, and chronic conditions. Results showed that sleep difficulties, smoking, age, gender, work, having insurance had a significant influence on the level of health status. The majority of Indonesians aged 31-60 reported good health status with an average of 0.60.

Kata Kunci: ordinal regression, health status