ABSTRACT

The application of moderating structural equation modeling analysis by use of Ping Method
Modeling Factors which Affecting Health Degree in East Java Province

Context of behavioral and social research, the structure of the linear model sometimes can not describe the true reality. Structural equation model allows the relationship between an independent variable on the dependent variable is influenced by other latent variables or non linear relationship better known as the analysis of moderated structural equation modeling. This research is non-reactive research by use of secondary data, that is data of East Java Health Office in 2010. The sample is a sub unit of 88 districts. The analysis method which used is the analysis of moderating structural equation modeling. The multivariate normal assumption in this study are met with d_i^2*/distance squared* value over than 50% as much as 88.64%. Validity and reliability of the significant manifest variables could measure the construct of exogenous and endogenous latent variables with $\lambda > 0.5$ and CR values> 0.6. Causal relationship prior to formed to be latent product is health care, health behaviors and health resources that are affect to the health status with the path parameter coefficients> 0.5, p-value <0.05 at significance level $\alpha = 5\%$. However, after latent product formed resulting health resources can not be relationship the moderating variable between health cares and health behaviors with health status. Positive value in the path parameter coefficient on health behavior and health resources to health status. It means getting better health behaviors and the number of doctors, nurses and midwives, the health status indicators will increase. The positive values may occur because data outliers, the percentage exceeds 100%, range / coverage of data is quite high, because the data in this study is secondary data so that data quality can not be accounted, it will automatically affect the results of statistical analysis.

Key words: Health Degree, multivariate normal, structural equation modeling moderating