Modelling The Number of Maternal Mortality in East Java 2013 using Geographically Weighted Binomial Regression (GWNBR)

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ABSTRACT  
The number of maternal mortality is one of the indicators to measuring maternal and child health care. There are many factors that affect the number of maternal mortality, such as geographical factors, social, and service provided. Modelling the number of maternal mortality can be used to determine the factors that influence it. The number of maternal mortality that follow the Poisson distribution, can be modeled using Poisson regression. Modelling using Poisson regression, found overdispersion case. Binomial Negative regression is one of the method that use to modelling if there is an overdispersion case in modelling using Poisson regression. By considering of spatial, then Geographically Weighted Binomial Regression can be used. By using weighting Bisquare Kernel, there are 3 groups was formed by stratified the significant variables and was found there is no difference between the model using Negative Binomial and Geographically Weighted Binomial Regression. The suggestions that can be given to the next research are use other weighting, find the best weighting to use in modelling the number of maternal mortality and use more factors such as education, social, economic and environmental.

Keyword: Geographically Weighted Binomial Negative Regression, Kernel Bisquare, Negative Binomial, Overdispersion, The number of maternal mortality
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