The Evaluation Of Policy Effect In Beds Addition To Inpatient Visit At Rsud Majalengka By Using Multi Input Intervention Model

ABSTRACT

In order to increase the quality of hospital service, one of the most important things is preparing hospital budget. Budget preparation is done by preparing it the year before the realization of the fiscal year. When preparing budget, a plan with a good level of accuracy is required to avoid lack of fund or excess fund when implementing the budget plan. Statistical model which could be used as a tool in budget planning is time series method with step function of multi input intervention model. Intervention model is a time series model which can be used to model and predict data which contain intervention, whether from external or internal factors. In this study, the data modeled with input model was the data of inpatient patient visits from January 2002 to December 2011, when there were three internal factor interventions which were the policies to increase the bed in June 2006, January 2010 and February 2011. Evaluation results showed increase in visits due to the addition of beds on the first intervention, which was an increase of 147 inpatient patient visits, and on the second intervention, there was a decline in the visits where there were 29 less patient visits and the third intervention didn't have any effect until the end of the observation. While the prediction using multi input intervention model, resulted in the highest patient visit in the year of 2012 was on December and the lowest was on January. Meanwhile, the interval between the lower limit and the upper limit of the prediction score seemed to widen.

Keyword : Multi Input Intervention Model, ARIMA, Patient visit.