

## **ABSTRACT**

*Regional general hospitals (RSUD) Cicalengka is one business that is engaged in the service and have great responsibility in providing health services to the community, be it in terms of speed of service, and the accuracy of the examination. Therefore, the hospital management should do the repairs against the service to patients. Home sick itself one of the most important factors being is the availability of drugs.*

*Currently the demand for drugs in the hospital cannot be known for certain the amount. Hospital management in ordering drugs is done each time the inventory of drugs is up. It makes the hospital often experience a lack of required medicines patients. formulation of the problem in this research is how optimal lot size in order to procure the drugs in RSUD Cicalengka that Indonesia keeps total cost.*

*Based on the analysis of ABC then generics that add up to 98 kinds of medicine. The drug contains A classification numbered 19 types of drugs with a value of accumulation of inventories amounting to 70% of the total value of inventory. It contains the generic drug classification B 30 kinds of drugs with a value of accumulated inventories amounted to 24% of the total value of inventory. While it contains the generic drug classification C totaled 49 types of drugs with a value of accumulated inventories amounted to 6%. 2. lot size calculation based on obtained drugs are on the range 212 units up to 35,800 drug unit. The point re ordering the most number of drugs found in the types of drugs lansoprazole 30 mg that is as much as drug units 6,326. 4. the total Fare to manage 19 different types of drugs that are obtained by using optimization Hadley-Within is Rp. 221,332,326/years. 5. If the solution is calculated using optimization Hadley-Within and deterministic approaches. Both results are not much different. In other words that the deterministic approach is good enough to solve the problem of demand.*

*Key Words : Inventory, Uncertainty, Optimization, Hadley-Within, Analysis of ABC*