

**APPLICATION OF INVENTORY STOCK FOR ANTIBIOTIC FORECASTS AT
SATELIT KALIMANTAN CLINIC OF PETROKIMIA GRESIK HOSPITAL
USING EXPONENTIAL SMOOTHING**

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ABSTRACT

Sales transactions of antibiotics at Satelit Kalimantan Clinic in a certain period has unbalanced condition. The high demand on certain types of antibiotics, causing the stock of antibiotic shortage. While the number of antibiotic supply others are still numerous. Sales forecasting is needed as a base in the decision making process to plan the next action to improve the business process. This research applied *data mining forecasting* technique using *double exponential smoothing* method to predict the amount of inventory stock antibiotics for the next month. Attributes are used are sales and a period of time. The data used are taken from the sales data of antibiotics at Satelit Kalimantan Hospital Clinic Petrokimia Gresik in 2014 to 2015 as many as 24 data. System testing were done on 4 tests using the data to predict the amount in 3 months, 6 months, 9 months and 12 months. This test used alpha and beta value between 0-1. Then from 4 each antibiotic test results were compared to get the smallest Forecast Error to obtain the value of forecasting approaching the actual conditions.

Keywords: *Data Mining, Forecasting, Double Exponential Smoothing.*

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