Sistem Prediksi Persediaan Obat di Apotek Menggunakan Metode *Weighted Moving Average* dan *Reorder Point*.

Medicines Inventory Prediction System in Pharmacies Using the Weighted Moving Average and Reorder Point Methods.

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ABSTRACT

Sugih Waras Pharmacy is a medicines product selling business that sells various kinds of pharmaceutical products. Sugih Waras Pharmacy does not yet have a system to predict drug supply for the next period, So that a system was created entitled "Prediction System for Drug Inventories in Pharmacies Using the Weighted Moving Average and Reorder Point Methods". The Weighted Moving Average method is used to predict medicine inventory, while the Reorder Point Method is used as a point where reordering must be held, so that medicine supplies are avoided from shortages or excess availability. Based on the results of both manual and system forecasting calculations, using the Weighted Moving Average method, the predicted results for the extra Panadol medicine in August 2021 are 573 and the calculation on the reorder point method yields 166. Testing the error of the weighted moving average method using MAPE on the extra Panandol medicine obtained is 34.41% which means that the weighted moving avregae method is feasible to be used in the case study of this research. The UAT test was carried out by seven respondents with a result of 84.4%, which means it is very good if the UAT test value is between 81% to 100%.

Keywords: *Forecasting, Weighted Moving Average, Reorder Point*