

# Model sistem pendukung keputusan untuk manajemen inventori di apotek dengan pendekatan fuzzy analytic hierarchy process dan sequential pattern analysis = Decision support system model for inventory management in pharmacy with fuzzy analytic hierarchy process and sequential pattern analysis approach

Rendra Gustriansyah, author

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## Abstrak

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Sebuah apotek biasanya menyimpan produk farmasi di gudang sebelum dijual ke pelanggan. Penumpukan produk di gudang dapat mengurangi efisiensi gudang dan meningkatkan biaya yang terkait dengan inventori, sehingga timbul permasalahan bagaimana memprediksi stok setiap produk dengan tepat agar dapat menghindari kelebihan/kekurangan stok. Oleh karena itu, penelitian ini bertujuan untuk mengusulkan model sistem pendukung keputusan untuk manajemen inventori di apotek, terutama dalam memprediksi pemesanan produk periode berikutnya dengan pendekatan FAHP dan SPA, sehingga manajemen inventori lebih optimal. Hasil penelitian ini menunjukkan bahwa akurasi prediksi stok dengan pendekatan model ini lebih baik 15% dibandingkan dengan akurasi prediksi stok oleh manajer inventori apotek, sehingga pendekatan ini dapat dijadikan rujukan untuk model sistem pendukung keputusan.

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A pharmacy typically store pharmaceutical products in warehouses before being sold to the customer. Stacking of products in the warehouse can reduce the efficiency of the warehouse and increase the costs associated with inventory, which raised the problem of how to predict the stock of each product to the right in order to avoid excess/shortages. Therefore, this study aims to propose a model of decision support system for inventory management in pharmacy, especially to predict of the product in the next period with FAHP and SPA approach, so the prospect of inventory management will be more optimal. These results indicate that the prediction accuracy of inventory using this model more accurate approach 15 % compared with the prediction accuracy of the stock by a pharmacy inventory manager, so this approach can be used as a reference for decision support system model., A pharmacy typically store pharmaceutical products in warehouses before being sold to the customer. Stacking of products in the warehouse can reduce the efficiency of the warehouse and increase the costs associated with inventory, which raised the problem of how to predict the stock of each product to the right in order to avoid excess/shortages. Therefore, this study aims to propose a model of decision support system for inventory management in pharmacy, especially to predict of the product in the next period with FAHP and SPA approach, so the prospect of inventory management will be more optimal. These results indicate that the prediction accuracy of inventory using this model more accurate approach 15 % compared with the prediction accuracy of the stock by a pharmacy inventory manager, so this approach can be used as a reference for decision support system model.]