

**DEVELOPMENT AND ANALYSIS OF INVENTORY MODEL FOR CANCER MEDICINE IN RAMATHIBODI HOSPITAL**

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**ABSTRACT**

This research presents the inventory management system of Ramathibodi Hospital and focuses specifically on the medicine warehouse of Ramathibodi Hospital regarding the medicines for cancer, which have a high usage value (group A) and are considered to be vital drugs (group V). The classification would use the methods of ABC Analysis and VEN Analysis, including the forecast of future demands, to determine the Economic Order Quantity (EOQ), Reorder Point, and Safety Stock. The data used in the analysis is secondary data recorded between January 2012 and December 2012.

The result was used to develop an inventory management model, by using Microsoft Excel to assist in the preparation of model and calculation parameters. The Economic Order Quantity (EOQ), Reorder Point, Safety Stock, ordering costs, carrying costs and average inventory were included in order to guide the development inventory management system of Ramathibodi Hospital and reduce the average inventory values of the current system.

**KEY WORDS: CANCER MEDICINE / INVENTORY MODEL/VEN ANALYSIS/ABC ANALYSIS**

87 pages