

**THE EFFECTIVENESS OF INVENTORY MANAGEMENT SYSTEM
OF REGIONAL MEDICAL SCIENCE CENTER – CHONBURI**



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**A Thesis Submitted in Partial Fulfillment of the Requirements
for the Degree of Master of Public Health in Health Systems Development**

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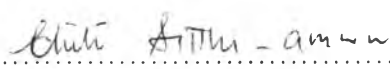
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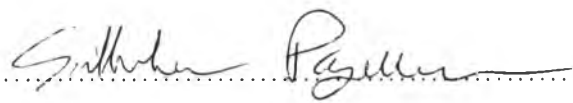
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Background

The high number of purchases created various impacts. It delayed other activities of RMsC CB operations. Inventory management staff had to spend most of working time for the procurement of supplies. This time constraint had affected the inventory control. In 2001, RMsC CB applied for the ISO/IEC 17025 accreditation. The nonconformance to the quality assurance system was found in the area of inventory management particularly in inventory control. The inventory scientific equipment control involve keeping detailed record on each piece of equipment, including such information were serial numbers, date the equipment was purchased, price, location, agency etc. The control and maintenance of scientific equipment supplies according to the quality assurance system had not been in place. The actual coding numbers labeled on scientific equipment were still the old numbers that were not matched with the number in the record of durable articles developed in 2001. Some equipment had not even been labeled with any numbers at all. This was not compliant to the quality assurance inventory control according to SENAC system (Scientific Equipment Name and Coding number system). The high number of purchases created various impacts. It delayed other activities of RMsC CB operations Inventory Staff had to spend most of working time for the procurement of supplies. This time constraint had affected the inventory control. Scientific equipment had not been controlled by SENAC system of the quality assurance system. This problem presented during 1999-2001 but no actions were done. According to the RMsC CB's Vision in 2005, laboratory analysis should apply for ISO/IEC 17025 accreditation, Non-conformances have been found every time of the inspection for ISO/IEC 17025 accreditation of RMsC CB. More importantly, it had caused problems. Therefore, these problems had to be addressed as an urgent basis. This was based on the concept of work model according to "Open System Theory" of Robbins and Coulter, 1999, So that the working team was established to address the problems. They conducted a study in effort to find solution using SWOT analysis and solving problem.

Objective

The goal of the project is to enhance the effectiveness of inventory management system of RMsC CB through the development of inventory procurement; inventory control; and improvement of related staff performance in order to achieve the following objectives.

Methods

The project was implemented during 6 month consisting of 3 phases. The first phase focuses on preparation by reviewing existent inventory management system, planning and goal setting ,and design and developing supply and inventory management system. During the second phase the inventory staff's had been trained and new system was tested. The last phase was an evaluation. Data were collected using both qualitative and qualitative methods including the use of survey, observation and in depth interviews.

Results

The study found that the knowledge and skill of inventory staff have increased. The drop of annual number of the office supply purchase in 2003 reached the target of decreased of 50 percentage. And the coding numbers of all scientific equipment were matched and update with the ones in the inventory control system. The satisfaction levels of RMsC CB staff have increased as well.

Conclusion

The project was successful in implementation. The evaluation program provided information about the results of the training in term's knowledge and skills of inventory staff have increased. New inventory systems management could be decrease frequency purchase office supplies and error scientific equipment coding number. That could ultimately enhance staff's satisfaction. However the overall program performance could be further improved.

Field of study Health Systems Development Student's signature.....

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TABLE OF CONTENTS

	Page
ABSTRACT	iii
ACKNOWLEDGMENTS	iv
TABLE OF CONTENTS	v
LIST OF TABLES	vii
LIST OF FIGURES	viii
CHAPTER I INTRODUCTION	1
CHAPTER II PROJECT DESCRIPTION	4
2.1 Rationale	4
2.2 Goal and Objectives	10
2.3 Methodology	10
2.4 Expected Outcomes	18
2.5 Activity Plan and Timetable	19
2.6 Project Budget	20
CHAPTER III PROJECT EVALUATION	21
3.1 Introduction	21
3.2 Purpose	21
3.3 Methods	22
3.4 Data Collection Methods	23
3.5 Data Analysis	28
3.6 Results	28

CHAPTER IV DISCUSSION AND CONCLUSION	42
CHAPTER V RECOMMENDATION	46
REFERENCES	47
APPENDICES	49
Appendix 1 Cover page of project proposal.....	50
Appendix 2 Definition and Terms.....	51
Appendix 3 In-depth interview guidelines.....	52
Appendix 4 The Checklist for Scientific Equipment control.....	53
Appendix 5 Checklist for the Evaluation of Skills in Operating the Scientific Equipment Control by using the SENAC Program	55
Appendix 6 Memorandum 1.....	56
Appendix 7 Memorandum 2.....	57
Appendix 8 Questionnaire.....	58
Appendix 9 Picture.....	63
CURRICULUM VITAE	66

LIST OF TABLES

	Page
Table 2.1: Number and percentage of equipment coding errors.....	6
Table 2.2: Statistics of Supply and Equipment Purchase of RMSc CB in 2001.....	7
Table 3.1: Summary of data collection methods.....	27
Table 3.2: Comparison of percentage marks in knowledge testing before and after training.....	31
Table 3.3: Displaying expenditure plan for 2001-2003 fiscal years	36
Table 3.4: The satisfaction with the inventory management Before and after implementing the program (Mean \pm SD).....	41

LIST OF FIGURES

	Page
Figure 2.1: The organization as an open system (Robbins & Coulter,1999).....	9
Figure 3.1: Total numbers of office supply purchases during 2001-2003	
Displaying changes in numbers of office	
Supplies distributed by budget sources.....	34