ASSESSMENT OF CONSUMER NEEDS AND SATISFACTION WITH THE DIAGNOSTIC RADIOLOGY SERVICE IN COMMUNITY HOSPITAL, KRABI PROVINCE



Mr. Chatchai Buakaew

A Thesis Submitted in Partial Fulfillment of the Requirements

for the Degree of Master of Public Health in Health Systems Development

College of Public Health

Chulalongkorn University

Academic Year 2003

ISBN 974-9599-47-0

Copyright of Chulalongkorn University

Thesis Title : Assessment of Consumer needs and satisfaction

with the Diagnostic Radiology Service in

Community Hospital, Krabi Province

By : Mr. Chatchai Buakaew

Program : Health Systems Development

Thesis Advisor : Associate Professor Sathirakorn Pongpanich, M.A., Ph.D.

Accepted by the College of PublicHealth, ChulalongkornUniversity
,Bangkok Thailand in Partial Fulfillment of the Requirements for the Master's
Degree

(Associate Professor Prida Tasanapradit, M.D.)

THESIS COMMMITTEE

(Associate Professor Ong-arj Viputsiri, M.D., Dr.P.H.)

(Associate Professor Sathirakorn Pongpanich, M.A., Ph.D.)

(Assistant Professor Sukalaya Lerdlum, M.D., M.Sc.)

PH: 012290 : MAJOR HEALTH SYSTEMS DEVELOPMENT PROGRAMME

KEY WORD: ASSESSMENT / NEED / SATISFACTION / CONSUMER / DIAGNOSTIC RADIOLOGY / COMMUNITY HOSPITAL / RADIATION PROTECTION / INTERNAL CONSUMER / EXTERNAL CONSUMER

CHATCHAI BUAKAEW: ASSESSMENT OF CONSUMER NEEDS AND SATISFACTION WITH THE DIAGNOSTIC RADIOLOGY SERVICE IN COMMUNITY HOSPITAL, KRABI PROVINCE. THESIS ADVISOR: ASSOCIATE PROFESSOR SATHIRAKORN PONGPANICH, M.A., Ph.D. 65 pp. ISBN 974-9599-47-0

This research is a cross sectional descriptive study with the following objectives: study the needs and satisfaction of the consumer of diagnostic radiology in the community hospitals in Krabi, compare the levels of consumer needs to consumer satisfaction to gain knowledge responding to the consumer need. The information was gathered in a one month period from October 1 to 31, 2003. The total of the population for the external consumer study is 320 people. The interview process was used to perform research on the external consumer. The research was carried out at five 30 Bed hospitals in Krabi province. The questionnaire process of data collection was used for internal consumers, doctor, nurses, film reader or other x-ray room staff.

The analysis for this information used SPSS 11.0 for windows. The measurements used were frequency, percentage, standard deviation of the needs and satisfaction of the consumer. The average scores of the needs and satisfaction were compared using Paired T-Test.

The result of this study found the consumer needs and satisfactions of the consumer right of the patient and the x-ray service system were at the highest level. The working method, environment and safety categories found the consumer needs and satisfaction at the high level. The comparison of the average score between needs and satisfaction of the consumer separated by the categories, x-ray service system, working method, environment and safety and consumer right of the patient found the average scores to be different at the level p < 0.05. In the categories of working method, environment and safety and consumer right of the patient, the consumer needs were found to be greater than their satisfaction. And the services in each categories which should be improve are x-ray safety warning sign and information board, comfort in the x-ray room and fire warning sign , staff explanation of the x-ray process , pregnancy warning sign and comfort of changing room , waiting time from registration to receiving film and staff politeness in addressing customer and staff listening abilities.

In the x-ray service system the consumer needs and satisfaction level were not different at p > 0.05. The actual score shows the average score of needs is less than that of the satisfaction.

For the internal consumer, the levels of need and satisfaction of the quality of film found the results in the highest level. The total service system also found the needs and satisfaction at the highest level.

From the results of this study, it is apparent the consumer should be the focal point of the research, the providers, including the doctor and technicians should continuously monitor the consumer need and satisfaction to provide high level of services.

Field of study Health Systems Development	Student's signature	Buakasw
Academic year 2003	Advisor's signature	Parken
Academic year 2005	Advisor s signature 2. 201. V. V.	100

ACKNOWLEDGEMENTS

The accomplishment of this thesis has made it possible because of contribution and participation of many persons to which I am most grateful.

I would like to extend my immense gratitude to my advisor Associate Professor Dr. Sathirakorn Pongpanich, Associate Professor Ong-arj Viputsiri, Assistant Professor Sukalaya Lerdlum, for her assistance, advice and supervision of this thesis, also, my special thanks must go to my teachers, staffs and colleagues at the college of Public Health, Chulalongkorn University, for their encouragement throughout my course of study.

Finally, extra thank to facilitators and my friend for encouraging, assisting and nothing willpower through this study. Also participants who participated in this study. If without them, this study would not have been success.

Chatchai Buakaew

TABLE OF CONTENTS

Pa	age
ABSTRACT	iii
ACKNOWLEGDEMENTS	iv
TABLE OF CONTENTS	V
LIST OF TABLES	viii
LIST OF FIGURES	ix
CHAPTER 1 INTRODUCTION	1
Background and Significant of Problem	1
2. Research Questions	2
3. Objectives	3
4. Research Hypothesis	3
5. Terminology and Operational Definitions	3
6. Conceptual Framework in this Study	5
CHAPTER 2 LITERATURE REVIEW	6
1. Consumer Needs	6
2. Consumer Satisfaction	9
3. Diagnostic Radiology Service	12
CHAPTER 3 RESEARCH METHODOLOGY	14
1. Research Design	14
2 Sampling and Sample Size	14

3.	Inclusion Criteria	14
4.	Exclusion Criteria	15
5.	Expected Outcomes and Benefits	15
6	Research Instruments	16
7.	Data Collection	19
8.	Validity and Reliability	19
9	Statistical Analysis	19
СНАРТ	ER 4 RESEARCH RESULTS	21
1	General Information of the external consumer	
	in the Krabi community hospitals	22
2	Needs and satisfaction of the external consumer	
	in the Krabi community hospitals	25
3	General Information of the internal consumer	
	in the Krabi comminity hospitals	26
4	Need and satisfaction of the internal consumer	
	in the Krabi community hospitals	27
5	Comparison of the average needs and average satisfaction	
	of the consumer by categories of x-ray service system,	
	working method, environment, safety and the consumer	
	rights of the patient.	27
6	Details of each category of 1.5	28
7	. Comments and suggestions from the external consumer	
	and internal consumer	31

CHAPTER 5 CONCLUSIONS, DISCUSSIONS AND	
RECOMMENTDATIONS	34
1. Conclusions	34
2. Discussions	36
3. Recommendations	42
REFERENCES	44
APPENDICES:	47
Appendix A: Interview Form & Questionnaire	48
Appendix B: Comments and Recommendations of the Consumer	
(External consumer)	64

CURRICULUM VITAE 65

LIST OF TABLES

		Page
Table 1:	Standard for score and interpretation	. 17
Table 2:	Number and percents of the personal information separated	
	by status, sex, marriage status, age, religion, education,	
	occupation, income, and consumer right	. 23
Table 3:	Average, Standard deviation of consumer needs	
	and satisfaction levels	. 26
Table 4:	General information of internal consumer	. 26
Table 5:	Average, standard deviation and Level of need	
	and satisfaction of the internal consumer	. 27
Table 6:	Comparison of the average needs and average satisfaction	
	of the consumer by categories of x-ray service system,	
	working method, environment, safety and	
	the consumer rights of the patient	. 28
Table 7:	Average, standard deviation, Levels of need and satisfaction	
	separate by category of x-ray service system, working method,	
	environment and safety and consumer right of the patient	. 29

LIST OF FUGURES

		Page
Figure 1:	Conceptual Framework	5
Figure 2:	Cycle of X-Ray Service	13