ต้นฉบับ หน้าขาดหาย

THE DEVELOPMENT OF COMPUTER AIDED INSTRUCTION (CAI) ON CD-ROMS FOR LEARNING AT THE WORKPLACE PROGRAM: THE COLLEGE OF PUBLIC HEALTH, CHULALONGKORN UNIVERSITY



Sunanta Wongchalee

A Thesis Submitted in Partial Fullfillment of the Requirements
for the Degree of Master of Public Health
Health Systems Development Programme
College of Public Health,
Chulalongkorn University
Academic Year 2000
ISBN: 974-347-171-5

© College of Public Health, Chulalongkorn University

Bangkok, Thailand

The Development of Computer Aided Instruction (CAI) on CD-ROMs for Learning at the Workplace Program: the College of Public Health, Chulalongkorn University			
Sunanta Wongchalee			
Master of Public Health (Health System Development)			
Wacharin Tanyanont, M.S.			
Assistant Professor Pimrumpai Premsmit, D.A.			
y the College of Public Health, Chulalongkorn University in the Requirements for the Master's Degree.			
Chili Sitthi - amon, Dean of College of Public Health (Professor Chitr Sitthi-amorn, M.D., M.Sc., Ph.D.)			
ГЕЕ:			
Chairman Van der Putten, MPH)			
Thesis Advisor tarin Tanyanont, M.S.)			
Museufed Paeureur, Thesis Co-advisor tant Professor Pimrumpai Premsmit, D.A.) Many Shore Member J. Love, M.D., Ph.D)			

ต้นฉบับ หน้าขาดหาย

ABSTRACT

The College of Public Health, Chulalongkorn University has launched a distant education called "Learning at the Workplace Program (LWP)". Therefore, the major problem of this group of student is the long distance from the College.

The purpose of this study was to develop the appropriate information technology for disseminating public health information at the Information Center of the College of Public Health for LWP students. The technology is called Computer Aided Instruction (CAI) on Compact Disk Read Only Memory (CD-ROM). CAI on CD-ROM will encourage LWP students for using services at the Information Center of the College to learn more how to access public health information. CAI on CD-ROM is the best way to make LWP students familiar with self-learning through media.

The contents contained in CD-ROM are divided in 4 parts. Data in the contents are received from a study by sending a questionnaire about need assessment and priority setting of accessing information services to students. Part I is an interactive part on how to access public health information resources and includes exercise part. Part II, the list of college publications will be the content in CD-ROM. Part III provides information on related subjects of public health for students to link to. Part IV will provides the way for students to contact Information Center staff in case they would like to receive more information. The content of each part is useful for accessing public health information

ACKNOWLEDGMENTS

I would like to express my sincere gratitude to Prof. Chitr Sitthi-amorn, the Dean, for his kindness and give a chance for me to study in this course. My special thanks to Prof. Edgar Love for his valuable guidance.

I would like to convey my sincere gratitude to Acharn Vibhawarn Manunapichu, consultant of the Information Center of College of Public Health, for her moral support and guidance.

I would like to thank Dr. Stephen King for his comment and guidance, Asst. Prof. Dr. Nuntavarn Vichit-Vadakhan, Dr. Adit Laixuthai, and Dr. Buranaj Samutaruk for given me new knowledge in each subject and be concerned about my study.

I would like to express my deepest gratitude to my advisor Acharn Vatcharin Tanyanont who provided me frequent guidance, valuable, constructive suggestion and comments for my study. I am very grateful to Asst. Prof. Dr. Pimrupai Premsmit who is my co-advisor for her comments on my essay.

I would like to express my hearty thanks to Asst. Prof. Dr. Sathirakorn Pongpanich for his encourage me after discussion on my topic and Uncle Hebert Harr for his editing. I would like to give special thanks for my CPH accompany Khun Kingkeaw for helping me all works during I studied. And I would like to thank my CPH colleague for they're constant support and my classmate for their good friendliness during this course.

Lastly, I have a good chance to be a daughter of my parents who is always mentality support me during my life and forever.

TABLE OF CONTENTS

	rage
ABSTRACT	iii
ACKNOWLEDGEMENTS	iv
TABLE OF CONTENTS.	v
LIST OF TABLES	ix
LIST OF FIGURES	X
ACRONYMS AND ABBREVIATION	xi
CHAPTER I:	
Introduction	. 1
References	4
CHPATER II: Essay on Dissemination of public health information	
2.1 Introduction	5
The importance of information	
2.2 Relevance of user, uses, and information characteristics	8
2.2.1 Users	8
2.2.2 Uses	9
2.2.3 Information characteristics	10
2.3 Communication Theory	13
2.4 Public health information dissemination	14

2.4.1	What is	the problem?	17
	2.4.1.1	Gross inequalities exist in the availability	
		of health information	17
	2.4.1.2	Inappropriate materials have been	
		sent to the wrong place	17
	2.4.1.3	Transferring information	18
	2.4.1.4	No access to up-to-date information	18
	2.4.1.5	What information do they really need?	19
2.4.2	Ways to	o improve the dissemination of	
	Public l	health information	20
	2.4.2.1	Information flow to developing countries	20
	2.4.2.2	Distribution systems	21
	2.4.2.3	Electronic dissemination system	22
		2.4.2.3.1 Computerized databases	22
		2.4.2.3.2 Internet	26
		2.4.2.3.3 Organizational support	28
2.5 Publi	ic health in	nformation dissemination at the College	31
2.5.	1 Situatio	on analysis	32
2.5.2	2 What is	the dissemination gap	34
2.6 Possi	ible chann	el for public health information dissemination	38
2.7 Conc	clusions		42
Reference	es		44

CHAPTER III: Data Exercise

	Need assessment and priority setting of accessing		
	Information services for students of the College	ĵ	
3.1	Introduction	<u>,</u>	
3.2	Objective of data exercise)	
3.3	Methodology49)	
3.4	Results of the study53	;	
3.5	Discussions61		
3.6	Lessons Learned 62	>	
3.7	Recommendations. 63	}	
Ref	Perences 65	,	
CHAPTE	CHAPTER IV: Proposal Computer Aided Instruction on CD-ROMs for LWP:		
	College of Public Health, Chulalongkorn University	5	
4.1	Introduction 66	í	
4.2	Background 69)	
	4.2.1 Distance education)	
	4.2.2 Learning at the workplace program)	
	4.2.3 Technology and distance learning	ļ	
	4.2.4 Distance learning and libraries. 75	5	
	4.2.5 Justification for selecting select CD-ROMs channel	}	
4.3	Goal and objectives)	
4.4	Methods 81	į	

4	.5 Activities plan80	6
4	.6 Estimated budget8	7
4	7 Expected outcome 8	8
R	References90	0
СНАРТ	ER V: Presentation 92	2
СНАРТ	ER VI: Annotated bibliography9	7
APPEN	DIX	04
CURRIC	CULUM VITAE1	11

List of Tables

		Page
Table 2.3	Strengths & weakness in terms of cost benefit of channel	39
Table 3.1	Response rate from questionnaire	52
Table 3.2	Gender	53
Table 3.3	Frequency of library use.	54
Table 3.4	Satisfaction level with library services provided	56
Table 3.5	Sufficiency of information needs if users	57
Table 3.6	Information needs of users	58
Table 3.7	The priorities of services.	60

List of Figure

		Page
Figure 2.1	Current situation of information dissemination	. 33
Figure 2.2	A Degree of achievement versus effort (Model)	37
Figure 3.1	Needs assessment process.	49
Figure 3.2	A Degree of achievement versus effort (Result)	59
Figure 3.3	Model of the study	. 89

ACRONYMS AND ABBREVIATION

CAI : Computer Aided Instruction

CAT : The Communications Authority of Thailand

CD-ROM : Compact Disk Read Only Memory

CDC: The Center for Disease Control and Prevention

CHULALINET: Chulalongkorn University Library Network

E-MAIL : Electronic Mail

FAQ : Frequently asked Question

INASP : International Network for the Availability of

Scientific Publication

LWP : Learning at the Workplace Program

MOPH : Ministry of Public Health: Thailand

NGO : Non-Government Organization

PPHSN: The Pacific Public Health Surveillance Network

WHO: World Health Organization

WWW : World Wide Web