# THE PROCESS AND OUTCOME OF EMPOWERMENT OF FEMALE COMMUNITY HEALTH VOLUNTEERS IN REGARDS TO INCREASE IN THE CONTRACEPTIVE ACCEPTANCE AMONG THE CURRENTLY MARRIED WOMEN OF REPRODUCTIVE AGE GROUP IN RURAL NEPAL



Mrs. Sarala Shrestha

A Dissertation Submitted in Partial Fulfillment of the Requirements
for the Degree of Doctor of Philosophy in Public Health
Health System Development Program
College of Public Health
Chulalongkorn University
Academic Year 2004

ISBN: 974-9599-59-4

Copyright Chulalongkorn University

Dissertation Title	: The Process and Outcome of Empowerment of Female
	Community Health Volunteers in Regards to Increase in the
	Contraceptive Acceptance Among the Currently Married
	Women of Reproductive Age Group in Rural Nepal
Ву	: Mrs. Sarala Shrestha
Program	: Doctor of Philosophy in Public Health (Health Systems
	Development) College of Public Health
Dissertation Advisor	: Assistant Professor Nuntavarn Vichit-Vadakan, M.S., Dr.P.H.
Dissertation Co-advisor	: Associate Professor Jintana Yunibhand, M.S.N., Ph.D.
Fulfillment of the Require	rements for the Doctoral Degree  Dean of The College of Public Health  Sitthi-Amorn, M.D., M.Sc., Ph.D.)
DOCTORAL COMMIT	TEE  Asaugradi L. Chairperson
	ssor Prida Tasanapradit, M.Sc., M.D.)
Amtava Vi	cht-ladd Dissertation Advisor
	sor Nuntavarn Vichit-Vadakan, M.S., Dr.P.H.)
fetar Gri	Bhd Dissertation Co-Advisor
(Associate Profes	ssor Jintana Yunibhand, M.S.N., Ph.D.)
	La La La Committee Member
9	J. Love, M.D., Ph.D.)  Committee Member
(Marc Van der Pr	utten, Ph.D.)

PH: 981134 : MAJOR HEALTH SYSTEMS DEVELOPMENT PROGRAMME KEY WORDS : CONTRACEPTIVE ACCEPTANCE / EMPOWERMENT / FEMALE

COMMUNITY HEALTH VOLUNTEER

SARALA SHRESTHA: THE PROCESS AND OUTCOME OF EMPOWERMENT OF FEMALE COMMUNITY HEALTH VOLUNTEERS IN REGARDS TO INCREASE IN THE CONTRACEPTIVE ACCEPTANCE AMONG THE CURRENTLY MARRIED WOMEN OF REPRODUCTIVE AGE GROUP IN RURAL NEPAL. DISSERTATION ADVISOR: ASSISTANT PROFESSOR NUNTAVARN VICHIT-VADAKAN,M.S.,Dr.P.H., DISSERTATION CO-ADVISOR: ASSOCIATE PROFESSOR JINTANA YUNIBHAND, M.S.N., Ph.D., 196pp. ISBN 974-9599-59-4

Despite the presence of ample evidences of the beneficial effects of family planning on maternal and child health and on the population growth rate of a country, lesser than one-third of the women of reproductive age group in Nepal practice birth spacing and limit their child births through contraception. Although another one-third has the desire to space or limit births they are not using any method of contraception. Different reasons have been given for non-use of contraception, with one of the commonest reasons being the negative attitude towards contraceptives. Currently the contraceptive prevalence rate is increasing at the rate of 1% per year, which is 50% less than the desired increase to achieve the target set by the government by the year 2020. In this regard, interventions aimed at increasing the contraceptive prevalence rate would be highly desirable to the country.

Therefore, this study was conducted with the aim of enhancing contraceptive acceptance among the Currently Married Women of Reproductive Age Group (CMWRAs) through empowerment training of Female Community Health Volunteers (FCHVs). The objective of the study was to develop and test a model of empowerment of FCHVs in regards to increase in the contraceptive acceptance among the CMWRAs

The study used a before-during-and-after design to measure the process and outcome of empowerment of FCHVs. Seventeen FCHVs who were working in Kakani Village Development Committee in the hills of central Nepal attended the empowerment training that used participatory action research and reinforcement mechanisms. Following the training FCHVs were expected to empower the CMWRAs to increase their contraceptive acceptance. The impact of the intervention was assessed in a sample of 241 CMWRAs who were neither pregnant and nor using contraceptives at the time of selection, by interviewing them before and six months after the intervention.

The findings revealed that the participatory approach used in the model helped FCHVs to learn from one another's experiences and develop group cohesion. Their ability to identify and intervene the stakeholders increased. They considered peer reinforcement as an easily accessible and feasible source of support to them. Their awareness, competence and confidence in providing FP services at the community level increased considerably through the empowerment training. Comparison of the FP activities performed by FCHVs before and after the intervention revealed a considerable change in their service activities following the intervention.

The use of modern contraceptives among the CMWRA six months following the intervention increased from none before the intervention, to 53.9%. There was a significant increase in CMWRAs' satisfaction with the services provided by the FCHVs. The study concluded that empowerment training of FCHVs using participatory action research and peer reinforcement was effective in increasing contraceptive acceptance among CMWRAs in a rural area of Nepal.

Student's signature	X/ 1/1/20
$\textbf{Field of study}  \underline{Health}  \underline{Systems}  \underline{Development}$	Advisor's signature Antown Vicht. O.L.
Academic year 2004	Co-advisor's signature from Gibbol

## **ACKNOWLEDGEMENTS**

I would like to convey my heartfelt thanks and sincere gratitude to my advisor Dr. Nuntavarn Vichit-Vadakan, Associate Dean, College of Public Health, Chulalongkorn University for her esteemed support, encouragement and guidance in the study. I would like to express my deep sense of appreciation to my co-advisor Associate Prof. Jintana Yunibhand, Dean, Faculty of Nursing, Chulalongkorn University for her willingness to advise me in spite of her busy schedule and for her invaluable guidance and support to me in the completion of my dissertation. I would like to express my profound gratitude to my local advisor, Dr. Indira Singh, Professor in Nursing, Nursing Campus Maharajgunj, Institute of Medicine, for her continuous inspiration, support and guidance in the study.

I would like to express my sincere gratitude to Prof. Chitr Sitthi-Amorn, Dean College of Public Health, Chulalongkorn University for his invaluable guidance and encouragement to me in the finalization of the dissertation proposal. My sincere appreciation goes to Dr. Prida Tasanapradit, Associate Professor for his invaluable remarks in the dissertation report. I express my sincere gratitude to Dr Sathirakorn Pongpanich, ajarn Wacharin Tanynount, ajarn Tanawat Likitkererat, ajarn Rattana Somrongthong and ajarn Channawong Burapat for their valuable guidance and support to me during my study period. I am grateful to Dr Stephen King, Former Assist. Dean, College of Public Health, Chulalongkorn University for introducing me to various components of self-directed learning skills and providing me with the opportunities to gain these skills

I am deeply obliged to ajarn Suriya Veeravongs, Social Research Institute, Chulalongkorn University for giving me invaluable suggestions and direction during the initial phase of the proposal development. I would like to express my special thanks and sincere gratitude to Prof. Caryl Abrahams, Center for Community Development, Delta State University, U.S.A. for going through my draft proposal and making invaluable feedback and suggestions during the proposal writing. My deep sense of appreciation goes to Dr. Edgar J. Love, Emeritus Professor, Department of Community

Health Sciences and Obstetrics & Gynecology, Faculty of Medicine, University of Calgary, Canada for his continuous and invaluable guidance, feedback and support to me in the completion of the dissertation.

My sincere thanks are extended to Ms Sunanta Wongchalee and Ms King Keawbunroung, Information Center, College of Public Health for their invaluable contribution in literature search. My earnest thanks goes to Ms Kuntida Augphun, Ms Duangtip Chuphan, Mr. Jaran Lumlert, Mr. Tanaphong Vongnagmmonkkhon and Ms. Kaesorn Sitdhiraksa for the timely administrative assistance extended to me.

Last but not the least, I am grateful to Tribhuvan University, Institute of Medicine, for providing me financial support to pursue my study through the assistance of World Health Organization. I am indebted to the Female Community Health Volunteers and women from the Kakani village development committees who participated in the study and provided me the valuable information. I am also thankful to the research Assistants Ms. Sangita Manandhar and Ms. Gita Shrestha for their valuable assistance in data collection and intervention. I am also thankful to the authorities and staff of Kakani Primary Health Center for their kind assistance and support during the study period

# **TABLE OF CONTENTS**

Pa	age
ABSTRACT	iii
ACKNOWLEGDEMENTS	iv
TABLE OF CONTENTS	vi
LIST OF TABLES	xiv
LIST OF FIGURES	xvi
CHAPTER I INTRODUCTION	1
1.1 Introduction	1
1.2 Background	2
1.3 Need for the Study	5
1.4 Objectives of the Study	7
1.5 Operational Definition	8
1.6 Organization of the Dissertation	8
CHAPTER II REVIEW OF THE LITERATURE	10
2.1 Introduction	10
2.2 Contraceptive Use and its Significance	12
2.3 Consequences of Nonuse of Contraceptive	16
2.3.1 Unintended pregnancies	16
2.3.2 Maternal Mortality	18
2.3.3 Child Mortality	19

	2.3.4	Quality o	of Life	20
2.4	Determ	ninants of	f the Non-use of Contraception	20
	2.4.1	Predispo	sing Factors	22
		2.4.1.1	Knowledge	23
		2.4.1.2	Attitude/Beliefs	24
		2.4.1.3	Age at Marriage	26
		2.4.1.4	Educational Status	26
		2.4.1.5	Parity	27
	2.4.2	Reinforc	ing Factors	28
		2.4.2.1	Husband's Approval	28
		2.4.2.2	Social Norm	28
		2.4.2.3	Religious norms	29
		2.4.2.4	Peer Influence	30
	2.4.3	Enabling	g Factors	30
		2.4.3.1	Availability and Accessibility of FP Services	30
		2.4.3.2	Acceptability of FP Services	31
		2.4.3.3	Affordability of FP Services	32
	2.4.4	Physiolo	ogical Factor: Postpartum Amenorrhoea	33
	2.4.5	Summar	y of the Analysis of the Determinants	34
2.5	Possil	ole Strate	gies to increase Contraceptive Acceptance	35
	2.5.1	Improvi	ng the Quality of FP Services	36
	2.5.2	Increasi	ng Access to Contraceptive Services	36
	2.5.3	Provisio	on of Information on Fertility Regulation	38
		2.5.3.1	Mass Media	39

2.5.3.2 Peer Education	40
2.5.3.3 Involving Men and Women in FP Decision Making	41
2.6 Empowerment of FCHVs as the Strategy	
to Increase Contraceptive Acceptance	42
2.7 Summary	45
CHAPTER III EMPOWERMENT MODEL	46
3.1 Conceptual Model	46
3.2 Phases in the Development of the Model	46
3.2.1 Concept of Empowerment	47
3.2.1.1 Components of Empowerment	48
3.2.1.2 Measurement of Empowerment	49
3.2.1.3 Theoretical Considerations	51
3.2.2 Model for Empowerment of FCHVs	54
3.2.2.1 Process of Empowerment	56
3.2.2.2 Outcome of Empowerment	59
3.2.3 Testing of the model	59
CHAPTER IV METHODOLOGY	60
4.1 Research Design	60
4.2 Setting	61
4.2.1 District Profile	61
4.2.2 Study VDC	62
4.2.2.1 Community Profile	63

		4.2.2.2	Health Service Facility	63
4.3	Study	Populatio	on (Participants) and Sampling	65
	4.3.1	FCHVs_		65
	4.3.2	CMWR	As	65
4.4	Data C	ollection		67
	4.4.1	Data Co	llection Instrument	68
		4.4.1.1	Observation Guides	68
		4.4.1.2	Focus Group Discussion Guide	68
		4.4.1.3	Interview Questionnaire	68
		4.4.1.4	Record Keeping Form & Record Review Guides	69
	4.4.2	Data Co	llection Procedure	70
4.5	4.5 Intervention			71
	4.5.1	Empowe	erment Training of FCHVs	71
		4.5.1.1	Core Group Activities	72
		4.5.1.2	Action Group Activities	76
	4.5.2	Strength	nening of the Support System	78
		4.5.2.1	Reducing the Barriers	79
		4.5.22	Refilling Medicines and Supplies	80
		4.5.2.3	Mobilization of Stake-Holders	80
4.6	Post-ir	nterventio	on Follow-up	81
4.7	Data P	rocessing	<u> </u>	82
	4.7.1	Qualitat	ive Data	82
	4.7.2	Quantita	ative Data	82

CHAPTER V	ANALYS	SIS AND INTERPRETATION OF DATA	84
5.1 Findi	ngs of FC	HVs	84
5.1.1	Pre-Inte	rvention Findings of FCHVs	85
	5.1.1.1	Socio-Economic Characteristics of FCHVs	85
	5.1.1.2	Attitude of FCHVs towards Volunteer Work	88
	5.1.1.3	Awareness of FCHVs about Contraception	89
	5.1.1.4	Competence of FCHVs in Providing FP Services	90
	5.1.1.5	Confidence of FCHVs in performing their job	91
	5.1.1.6	Constraints Faced by FCHVs prior to intervention	92
	5.1.1.7	Summary of the Pre-Intervention Findings	93
5.1.2	Finding	s on the Intervention	
	(Process	s of Empowerment of FCHVs)	94
	5.1.2.1	Change in Awareness of FCHVs about Contraception	95
	5.1.2.2	Change in Competence of FCHVs in FP Services	97
	5.1.2.3	Change in Confidence of FCHVs	
		in Carrying out FP Services	98
	5.1.2.4	Lessons Learned from Empowerment of FCHVs	99
5.1.3	Finding	s on the FCHVs' Post-Intervention Activities	102
	5.1.3.1	Overview of the Post-Intervention	
		Activities of FCHVs	102
	5.1.3.2	Comparison of Pre and Post-Intervention Findings	103
	5.1.3.3	Influence of Socio-Economic Characteristics	
		of FCHVs on their Post-Intervention Activities	105
	5.1.3.4	Other Influences	107

5.2 Impa	ct of Emp	owerment of FCHVs on CMWRA	108
5.2.1	Pre-Inte	rvention Findings of CMWRAs	109
	5.2.1.1	Socio-Economic Characteristics of CMWRAs	109
	5.2.1.2	Decision-Making of CMWRA	114
	5.2.1.3	Attitude of CMWRAs towards	
		Unintended Pregnancy	115
	5.2.1.4	Knowledge of CMWRAs	
		about Contraceptive Methods	116
5.2.2	Post-Int	ervention Findings of CMWRAs	117
	5.2.2.1	Consultations of CMWRAs with FCHVs	117
	5.2.2.2	Satisfaction of CMWRAs with	
		the Consultation with FCHVs	118
	5.2.2.3	Knowledge, Attitude and Practice	
		of CMWRAs Regarding Contraception	119
5.3 Heal	th Service	Facility Record	120
CHAPTER VI	SUMMA	ARY, DISCUSSION,	
	RECOM	MENDATIONS AND LIMITATIONS	122
6.1 Sum	mary of th	e Study	122
6.2 Disc	ussion of	the Study	127
6.3 Reco	mmendat	ions	131
REFERENCES			133

APPENDICES		149
Appendix 1	Map of Nepal Showing the Study District	150
Appendix 2	Name List of FCHVs Participating in the Study	151
Appendix3	Eligibility Criteria for Including the CMWRA in the Study	152
Appendix 4	FCHVs & CMWRAs Included in the Study	153
Appendix 4	Observation Guide for Community Resources	154
Appendix 6	Observation Guide for FP Services	
	at the Primary Health Care Center	155
Appendix 7	Focus Group Discussion with FCHVs:	
	Guide for the Moderator	156
Appendix 8	Interview Questionnaire for Currently Married	
	Women of Reproductive Age Group (CMWRAs)	159
Appendix 9	Interview Questionnaire for CMWRA (Nepali Version)	167
Appendix 10	Record Keeping form for FCHVs (Nepali Version)	174
Appendix 11	Study on Empowerment of FCHV Record Review Guide	
	for New Acceptors of FP Methods at PHCC	176
Appendix 12	Approval Letter from Nepal Health Research Council	177
Appendix 13	(a) Permission Letter from Central Regional	
	Health Directorate for Conducting the Study	
	in Nuwakot District	178
	(b) Permission Letter from Nuwakot District Health	
	Office for conducting the Study in Kakani VDC	179
Appendix 14	Orientation Training for Research Assistants	
	for KAP Data Collection from CMWRA	180

	Appendix 15	Empowerment Training Programme for FCHVs	181
	Appendix 16	Screening Checklist for High-Risk Conditions	
		for Use of Temporary Contraceptive Methods	185
	Appendix 17	Checklist on Facilitating Group Sessions	186
	Appendix 18	Job Description of FCHVs Related to FP Services	187
	Appendix 19	FCHVs' Biodata	188
	Appendix 20	FCHVs' Post-intervention Activity record	189
CURI	RICULUM VI	TAE	192

# LIST OF TABLES

		Page
Table 2.1:	Comparison of Selected Demographic Indices	
	of South-East Asian Countries	13
Table 2.2:	Comparison of the Contraceptive Indices of the Urban	
	and Rural CMWRA in Nepal	15
Table 2.3:	Pregnancy Rate with Different Contraceptive Methods	
	Over a Period of One Year	17
Table 5.1:	Socio-Economic Characteristics of FCHVs	85
Table 5.2:	Job-Related Characteristics of FCHVs	86
Table 5.3:	Fertility-Related Characteristics of FCHVs	87
Table 5.4:	Education and Occupation Status of FCHVs' Husbands	88
Table 5.5:	FP-Related Activities of FCHVs During	
	the Post-Intervention Follow-up Period	103
Table 5.6	FP Activities of FCHVs in the 6 Months Period Before	
	and After Intervention	104
Table 5.7:	Mean Distribution of the Activities of FCHVs	
	in the Post-Intervention Follow-up Period According	
	to their Age-Group	106
Table 5.8:	Mean Distribution of the Activities of FCHVs	
	in the Post-Intervention Follow-up Period According	
	to the Educational Status	107
Table 5.9:	Socio-Economic Characteristics of CMWRAs	110
Table 5.10:	Fertility-Related Characteristics of CMWRAs	111

Table 5.11:	Contraceptive-Use Related Characteristics	
	of CMWRAs (Baseline Data)	112
Table 5.12:	Selected Socio-Economic Characteristics	
	and Previous Use of Contraceptives among the CMWRAs	113
Table 5.13:	Decision-Making Status of CMWRAs	114
Table 5.14:	CMWRAs' Attitude (Perceived Susceptibility/Seriousness)	
	towards Unintended Pregnancy	115
Table 5.15:	CMWRAs' Attitude (Perceived Benefit/Barrier)	
	towards Contraceptive Use	116
Table 5.16:	CMWRAs' Knowledge About Contraceptive Methods	117
Table 5.17:	CMWRAs' Consultation with FCHVs Before and After Intervention	118
Table 5.18:	CMWRAs' Satisfaction with the Consultation with FCHVs	119
Table 5.19:	Knowledge, Attitude and Practice of Contraception	
	and Satisfaction with Contraceptive Use among	
	CMWRA Before and After Intervention	120
Table 5.20:	Trends in the Use of Contraceptives	
	from the Primary Health Care Center	121
Table 5.21:	New Acceptors of Contraceptives	
	in the Primary Health Care Center during	
	the Six Months Period Before and After the Intervention	121

# LIST OF FIGURES

	P	age
Figure 2.1:	Cause and Consequences of Contraceptive Non-Use	23
Figure 2.2:	Empowerment of FCHVs and Contraceptive Behavior of CMWRAs	44
Figure 3.1:	A Model for Empowerment of FCHVs	55
Figure 4.1:	Data Collection Plan	67