

UNIVERSITI PUTRA MALAYSIA

EFFECTS OF HEALTH EDUCATION ON CHOICE OF DELIVERY MODE AND FEAR RELATED TO CHILDBIRTH AMONG PRIMIGRAVIDAE IN HAMADAN, IRAN

NASRIN MATINNIA

FPSK(p) 2014 7



EFFECTS OF HEALTH EDUCATION ON CHOICE OF DELIVERY MODE AND FEAR RELATED TO CHILDBIRTH AMONG PRIMIGRAVIDAE IN HAMADAN, IRAN

By

NASRIN MATINNIA

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfilment of the Requirements for the Degree of Doctor of Philosophy

COPYRIGHT

All material contained within the thesis, including without limitation text, logos, icons, photographs and all other artwork, is copyright material of Universiti Putra Malaysia unless otherwise stated. Use may be made of any material contained within the thesis for non-commercial purposes from the copyright holder. Commercial use of material may only be made with the express, prior, written permission of Universiti Putra Malaysia.

Copyright © Universiti Putra Malaysia



DEDICATION

To my family and friends, without whose support and care I wouldn't have realized my dreams in life. Indeed, they make sure they are always there doing the needful!



Abstract of thesis presented to the Senate of Universiti Putra Malaysia in fulfilment of the requirement for the degree of Doctor of Philosophy

EFFECTS OF HEALTH EDUCATION ON CHOICE OF DELIVERY MODE AND FEAR RELATED TO CHILDBIRTH AMONG PRIMIGRAVIDAE IN HAMADAN, IRAN

By

NASRIN MATINNIA

April 2014

Chairman: Associate Professor Dato' Faisal Bin Ibrahim, PhD

Faculty: Medicine and Health Sciences

The choice of delivery method is a concern of the third trimester and a critically important decision during pregnancy. Naturally, this brings up a question regarding the safety of both mother and child. The rates of Caesarean Section in many countries have increased in spite of the known risks of this procedure. Caesarean Sections by maternal request also play a role in increasing the overall caesarean rate in the world.

The rate of caesarean sections was 47.5% and 79.1% in public and private hospitals respectively in Hamadan province in 2012, the West part of Iran. The present study aims to evaluate the effectiveness of health education on the choice of delivery method among primigravidae in Hamadan, Iran.

A randomized controlled trial design was conducted based on the Health Belief Model. This study investigates the effect of a health education programme on fear related to childbirth, beliefs and choice delivery method among Primigravidae. The sampling method was multi-stage random sampling in which 342 primigravidae was randomly selected based on inclusion and exclusion criteria. They were randomized to either the two intervention groups or the control group.

The reliable and valid tools in this study were included Rosenberg Self Esteem Scale, Perceived Stress scale, Revised Dyadic adjustment Scale, Multidimensional Scale of Perceived Social Support, Revised Fear related to Childbirth Scale and the Health Belief Model Scale. An educational module on prenatal health education was developed. The ultimate goals of the educational intervention were reducing fear related to childbirth, changing beliefs about natural childbirth and decreasing request a caesarean section.

The two educational methods tested in this study; the discussion group and the booklet. All materials of four sessions in the discussion group are similar to four sections of the booklet as well as their time.

The primigravidae received the four sections of the booklet or four two-hour sessions every 4 weeks after pretest, while the control group received the routine prenatal education. The duration of intervention was 16 weeks and post test was conducted after four weeks of the last education. Both programmes were delivered by trained peers.

Two-way repeated measure ANOVA was applied to assess the effectiveness of the intervention. The outcome measures were assessed at pretest and post test.

There were significant difference in the mean scores of self esteem (p=.005) and perceived stress (p<.001) in comparison with the control group. Conversely, there were no differences in the mean scores of quality of marital relationship and perceived social support between groups. These scales were considered as influencing factors in fear related to childbirth.

There were significant main effects for group $[F=14.6, p<0.001, \eta2=0.08]$; time $[F=40.7^{\circ}p<0.001, \eta2=0.11]$ and group x time interaction $[F=110.68, p<0.001, \eta2=0.4]$ for fear related to childbirth. Similarly, the main effects for group $[F=24.764, p<0.001, \eta2=0.13]$, time $[F=362.57, p<0.001, \eta2=0.475]$, and group x time interaction $[F=104.24, p=<0.001, \eta2=0.611]$ were significant regarding beliefs. The request of a caesarean section was significantly different $(\chi^2=10.94, p=0.004)$ between intervention groups and control group.

The prenatal health intervention programme was effective in decreasing fear related to childbirth and changing the behaviour related to request a caesarean section. The rate of choice of caesarean section was reduced after intervention among primigravidae in Hamadan.

Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia Sebagai memenuhi keperluan untuk ijazah Doktor Falsafah

KESAN PENDIDIKAN KESIHATAN KE UE ATAS PEMILIHAN KAEDAH BERSALIN DAN KETAKUTAN BERKAITAN DENGAN KELAHIRAN DI KA-LANGAN PRIMIGRAVIDA DI HAMADAN, IRAN

Oleh

NASRIN MATINNIA

April 2014

Pengerusi: Profesor Madya Dato Faisal Bin Ibrahim, PhD

Fakulti: Perubatan dan Sains Kesihatan

Pemilihan cara bersalin diambilberat ketika fasa ketiga dan merupakan satu keputusan penting semasa mengandung. Biasanya, melibatkan soalan keselamatan kedua-dua ibu dan anak. Kadar proses pembedahan dikebanyakan negara meningkat walaupun risiko prosidur ini telah diketahui. Permintaan ibu terhadap proses pembedahan juga memainkan peranan dalam peningkatan keseluruhan kadar pembedahan di dunia.

Di Wilayah Hamadan, iaitu bahagian barat Iran, kadar proses pembedahan adalah 47.5% di hospital kerajaan dan 79.1% di hospital swasta. Kajian ini bertujuan untuk menilai keberkesanan pendidikan kesihatan ke atas pilihan cara bersalin dalam kalangan ibu mengandung (kali pertama) di Hamadan, Iran. Satu reka bentuk rawak terkawal telah dijalankan berdasarkan Health Belief Model untuk mengkaji kesan pranatal pendidikan kesihatan program campur tangan tentang perasaan takut yang berkaitan dengan kehamilan, sebahagian daripada ciri-ciri psikologi, kepercayaan dan tingkahlaku terhadap pilihan cara bersalin dalam kalangan peserta.

Sampel rawak pelbagai peringkat digunakan dan kesemua ibu mengandung dipilih berdasarkan kepada kriteria pemasukan dan penyingkiran. Mereka dimasukkan secara rawak dalam dua kumpulan samada intervensi atau kumpulan kawalan. Pangkalan data dikumpulkan daripada 342 ibu mengandung.

Alat kesahihan dan kepercayaan terdiri daripada Rosenberg Self Esteem Scale, Perceived Stress scale, Revised Dyadic adjustment Scale, Multidimensional Scale of Perceived Social Support, Revised Fear related to childbirth and Health Belief Model Scale.Satu modul pembelajaran berkaitan pendidikan kesihatan prenatal telah

dibangunkan untuk mengurangkan ketakutan berkaitan kehamilan dan kelahiran dan mengubah kepercayaan serta tingkahlaku terhadap cara bersalin. Matlamat utama intervensi pendidikan adalah untuk membantu ibu mengandung memilih cara bersalin terbaik dan mempromosikan kesihatan dalam kalangan ibu dan bayi.

Dua kaedah pendidikan yang diuji dalam kajian ini adalah perbincangan berkumpulan dan buku kecil. Semua bahan daripada empat sesi perbincangan kumpulan adalah bersamaan dengan empat bahagian buku kecil, atau empat sesi dua jam untuk setiap empat minggu.selepas uian awal kumpulan kawalan menerima pendidikan kesihatan yang biasa.intervensi dijalankan selama 16 minggu dan ujian pasca dijalankan selepas 4 minggu intervensi bermula. Kedua program tersebut disampaikan oleh mereka yang terlatih.

Pengukuran berulang dua hala ANOVA digunakan untuk menilai keberkesanan intervensi. Hasil pengukuran dinilai dengan ujian awal dan ujian pasca(empat minggu selepas sesi akhir pembelajaran). Responden dalam intervensi menunjukkan peningkatan harga diri yang signifikan (p=0.005) dan penurunan dalam persepsi tekanan (p=<0.001) berbanding kumpulan kawalan. Sebaliknya, tiada perbezaan kualiti hubungan perkahwinan dan persepsi sokongan sosial antara kumpulan. Pengukuran ini dianggap sebagai faktor yang mempengaruhi ketakutan terhadap proses kelahiran.

Terdapat pengurangan yang ketara dalam ketakutan berkaitan kehamilan dan kelahiran dalam kumpulan campur tangan berbanding kumpulan kawalan (p<.001). Begitu juga dengan perbezaan dalam semua konstruk Health Belief Model Scale adalah ketara berbanding kumpulan kawalan (p<.001).

Terdapat kesan yang ketara kepada kumpulan $[F = 14.6, p < 0.001, \eta 2=0.08]$; masa $[F = 40.7, p < 0.001, \eta 2= 0.11]$ dan kumpulan x masa berinteraksi $[F = 110.68, p < 0.001, \eta 2=0.4]$ untuk ketakutan menghadapi proses kelahiran. Begitu juga, dengan kesan utama untuk kumpulan $[F = 24.764, p < 0.001, \eta 2=0.13]$, masa $[F = 362.57, p < 0.001, \eta 2=0.475]$, and kumpulan x masa berinteraksi $[F = 104.24, p = < 0.001, \eta 2=0.611]$ adalah ketara dalam kepercayaan terhadap proses kelahiran. Permintaan kepada proses pembedahan nyata berbeza $(\chi 2 = 10.94, p=0.004)$ diantara kumpulan kawalan dan kumpulan yang menjalani intervensi.

Program intervensi kesihatan prenatal berkesan untuk mengurangkan ketakutan berkaitan kehamilan dan kelahiran dan mengubah kepercayaan dan tingkahlaku terhadap permintaan proses pembedahan dalam kehamilan normal dikalangan ibu mengandung di Hamadan. Kadar pilihan proses pembedahan telah menurun selepas intervensi .

ACKNOWLEDGEMENTS

First and foremost I wish to convey my sincere thanks to God Almighty who continually gives me strength and perseverance that he has bestowed upon me during my study.I owe a depth of gratefulness to everyone without whom this work would not have been possible. Specially, I offer my sincerest gratitude to my supervisor; Associate Professor Dato' Dr. Faisal Bin Ibrahimsupported and helped me from the very beginning of my studies. I would never have been able to finish my dissertation without the guidance of my committee members Associate Professor Muhamad Hanafiah Juni, Associate Prof. Dr. Hejar Binti Abd. Rahman, Dr. Zubaidah Binti Jamil @ Osmanand Assistant Prof. Dr. Babak Moieni. They spend their valuable time in reading and correcting mistakes in the earlier drafts. I would also like to thank all my friends, all the staff of the health carecentresand pregnant women in Hamadanand all the staff and lectures of department of community health, faculty of Medicine and Health Science, Universiti Putra Malaysia. I fondly remember your support, knowledge, assistance and advice. I thank the administrators, the dean and staffs of the Graduate School for the assistance provided throughout the duration of my study at UPM. Last but not least, my deepest gratitude goes of my husbandand my sons for their unflagging love and support throughout my life. They always give me words of encouragement and believe that engaged me to finish this research. I want to thank especially my parents, even they are not with me during these years, but they are with me in spirit.

This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfillment of the requirement for the degree of Doctor of Philosophy. The members of Supervisory Committee were as follows:

Dato' Faisal Bin Ibrahim, MBBS, MPH, MPHM

Associate Professor Faculty of Medicine and Health Science Universiti Putra Malaysia (Chairman)

Muhamad Hanafiah Juni, M.D, MPH

Professor
Faculty of Medicine and Health Science
Universiti Putra Malaysia
(Member)

Hejar Binti Abd. Rahman, MBBS, MSc

Associate Professor
Faculty of Medicine and Health Science
Universiti Putra Malaysia
(Member)

Zubaidah Binti Jamil @ Osman, MSc, PhD

Lecture
Faculty of Medicine and Health Science
Universiti Putra Malaysia
(Member)

Babak Moieni, MSc, PhD

Assistant Professor
Faculty of Medicine and Health Science
Universiti Putra Malaysia
(External Member)

BUJANG BIN KIM HUAT, PhD

Professor and Dean School of Graduate Studies Universiti Putra Malaysia

Date:

DECLARATION

Declaration by graduate student

I hereby confirm that:

- this thesis is my original work;
- quotations, illustrations and citations have been duly referenced;
- this thesis has not been submitted previously or concurrently for any other degree at any other institutions;
- intellectual property from the thesis and copyright of thesis are fully-owned by Universiti Putra Malaysia, as according to the Universiti Putra Malaysia (Research) Rules 2012;
- written permission must be obtained from supervisor and the office of Deputy Vice-Chancellor (Research and Innovation) before thesis is published (in the form of written, printed or in electronic form) including books, journals, modules, proceedings, popular writings, seminar papers, manuscripts, posters, reports, lecture notes, learning modules or any other materials as stated in the Universiti Putra Malaysia (Research) Rules 2012;
- there is no plagiarism or data falsification/fabrication in the thesis, and scholarly integrity is upheld as according to the Universiti Putra Malaysia (Graduate Studies) Rules 2003 (Revision 2012-2013) and the Universiti Putra Malaysia (Research) Rules 2012. The thesis has undergone plagiarism detection software.

G'an ataun	Detti
Signature:	Date:
Name and Matric No : Nasrin Matinnia	, GS25685

Declaration by Members of Supervisory Committee

This is to confirm that:

- the research conducted and the writing of this thesis was under our supervision;
- Supervision responsibilities as stated in the University Putra Malaysia (Graduate Studies) Rules 2013 (Revision 2012-2013) are adhered to.

Signature:	Signature:
Name of	Name of
Chairman of Chairman of Chairman	Member of
Supervisory	Supervisory
Committee: Associate Professor	Committee: <u>Professor</u>
Dato' Faisal Bin IbrahimHanafiah Juni,	Muhamad Hanafiah Juni
Signature:	Signature:
Name of	Name of
Member of	Member of
Supervisory	Supervisory
Committee: Associate Professor	Committee: Associate Professor
Dr Zuhaidah Rinti Jamil @ Osman	Heiar Rinti Abd Rahman

TABLE OF CONTENTS

		Pa	age
ABS ACI API DEC LIS	STRACT STAKT KNOWLEDG PROVAL CLARATION T OF TABLE T OF ABERR	CSx ES	iii v vii viii x vi xxi xxii
CH	APTER		
1	 1.1 Backgro 1.2 Problem 1.3 Significa 1.4 Research 1.5 Objectiv 1.5.1 1.5.2 1.6 Research 1.7 Concepto 1.7.1 1.7.2 	Statement ance of study n Questions re General objective Specific Objectives	1 3 5 6 6 6 7 7 8 8 8
2	2.1 Model of 2.2 Caesarea 2.2.1 2.2.2 2.2.3 2.2.4		12 13 13 14 16 17
	2.3 Fear rela 2.3.1 2.3.2	2.2.4.2 Reasons to Choose CS atted to pregnancy Prevalence of Fear related to pregnancy Content of Fear related to pregnancy 2.3.2.1 Process of Labour and Childbirth 2.3.2.2 The Health and Life of the Baby 2.3.2.3 Own Competence and Capability in Childbirth 2.3.2.4 Competence and Behaviour of Maternity Ward Personne 2.3.2.5 Becoming a Parent and Family Life after Delivery Instruments to Measure Fear related to childbirth	18 20 21 21 22 23 24 1 24 26 26

	2.3.4	Characteristics of Primigravidea with Fear related to childbirth	28
		2.3.4.1 Socio-demographic Characteristics	28
		2.3.4.2 Previous or Current Psychological Disorders	30
	2.3.5	Psychosocial Characteristics of Primigravidae with Fear	31
		2.3.5.1 Self-esteem	31
		2.3.5.2 Perceived Stress	32
		2.3.5.3 Revised Dyadic Adjustment Scale (RDAS)	33
		2.3.5.4 Social Support	34
	2.4 Interven	* *	36
	2.4.1	To Reduce Fear related to childbirth	36
	2.4.2	To Reduce Request of CS	38
	2.4.3	Interventions Targeting the Patient	39
		2.4.3.1 Decision-aids	39
		2.4.3.2 Counseling	40
		2.4.3.3 Group Therapy Sessions	40
		2.4.3.4 Birth Preparation Classes	41
	2.4.4	Interventions Targeting the Health Care Provider	43
	2	2.4.4.1 Uptake of Mandatory Second Opinion	43
		2.4.4.2 Childbirth Education Classes for Primary Care Nurses	43
		2.4.4.3 External Peer Review	43
	2.5 Behavio	our Change Theories	44
	2.5.1	Transtheoretical Model	46
	2.5.2	Theory of Planned Behaviour	46
	2.5.3	Health Belief Model (HBM)	47
		2.5.3.1 Reason to Choose HBM	51
		2.5.3.2 Studies on Health Belief Model	52
3	MATERIAI	LS AND METHODS	57
	3.1 Study L	ocation	57
	3.2 Study D	esign	59
	3.3 Study P	opulation	59
	3.4 Samplin	ng Population	60
	3.5 Samplin	ng Frame	60
	3.6 Samplin	g Unit	60
	3.7 Sample	Size Calculation	60
	3.8 Samplin	ng Technique	61
	3.9 Inclusio	n Criteria	64
	3.10Exclusi	on Criteria	64
	3.11Recruit	ment	65
	3.12Interver	ntion Programme	65
	3.12.1	Development of Module	65
		Thelong-term risks of caesarean section in mother	68
	3.12.2	First Intervention Group: Group Discussion	68
	3.12.3	<u> </u>	69
	3.12.4	Control group	69
		ance of Participants	69
	-	entation of Intervention	69

	3.14.1	First Group: Discussion Group	69
	3.14.2	Second Group: Booklet	71
	3.15Quality	Control of the Intervention	71
	3.15.1	Booklet	71
	3.15.2	Group Discussion	71
	3.16Data Col	<u>•</u>	72
	3.16.1	Data Collection Instruments	72
	3.16.2	Data collection Procedure	75
	3.17 Validity	and Reliability of the Study Questionnaire	76
	3.17.1	Content Validity	76
	3.17.2	·	76
	3.17.3	Reliability	77
	3.18Study V	·	79
	3.18.1	Dependent Variable	79
		3.18.1.1 The Primary Outcome	79
		3.18.1.2 The Secondary Outcome	79
	3.18.2	Independent Variables	79
		Consideration	79
	3.19.1	Approval	79
	3.19.2		80
	3.19.3		80
	3.20Data An		80
4	RESULTS		82
	4.1 Recruitm	nent Results	82
	4.2 Treatmen	nt for Missing Data	82
		ristics of the Participants	83
	4.3.1	Socio-Demographic Characteristics	83
	4.3.2	Obstetric Variables	85
	4.4 Characte	ristics of the Study Participants between groups at baseline	85
	4.4.1	Socio-demographic characteristics of participants	85
	4.4.2	Obstetric Variables of Participants	85
	4.4.3	Psychosocial Characteristics of Participants	87
	4.4.4	Fear related to childbirthin Participant	87
	4.4.5	Beliefs on Spontaneous Vaginal Delivery in Participants at B	aseline 88
	4.4.6	Choice of Delivery Method at Baseline	89
	4.5 Relations	ship between Belief and the psychosocial factors	89
	4.6 The Effe	ct Of HBM Subscales and the Psychosocial Factorson Fear Rela	ited to
	Childbir	th	91
	4.7 Factors a	ssociated with Fear related to pregnancy	92
	4.8 Factors r	elated toChoice ofdelivery method at Baseline	93
		on of Effectiveness of the Intervention	100
	4.9.1	Effect of the Intervention on PsychosocialCharacteristic	100
	4.9.2	Effect of the Intervention on Fear related to Childbirth	116
	4.9.3	Effect of the intervention on Mean Score of Health Belief Mo	odel
		(HBM)	121
	4.9.4	Effect of the Intervention on choice ofdelivery method	147

5	DISCUSION		1	150
	5.1 Baseline	ata		150
	5.1.1	Fear related to childbirthamong	Intervention Groups and Control	
		Group at Baseline	-	150
		5.1.1.1 Prevalence		150
		5.1.1.2 Content of fear		151
		5.1.1.3 Relationship between	the Socio-Demographic	
			ear related to childbirthat Baseline	152
			the Fear related to childbirthand	
		Psychosocial Charac		153
	5.1.2	Factors associated with request		154
			the Socio-demographic	
		-	noice ofdelivery method at baseline	154
			psychosocial characteristics and	
		choice delivery mode	e at baseline	156
		5.1.2.3 Relationship between	fear related to childbirthand choice	
		ofdelivery method at	baseline	158
	5.2 Effect of	ne intervention	-1114	159
	5.2.1	Effect of the Intervention on Ps	ychosocial Characteristics	159
	5.2.2	Effect of the Intervention on Fe	ar related to childbirthand choice or	f
		Caesarean Section		162
	5.2.3	Effect of intervention on the Be	liefs of primigravidae:	165
6	SUMMARY,	CONCLUSION	1	67
	6.1 Summary	and Conclusion		167
	6.2 Strengths	and Limitations		168
	6.3 Populatio	targets		169
	6.4 Recomme	ndations		170
RE	FERENCES		1	72
AP	PENDICES		1	96
BI	ODATA OF ST	DENT	2	292
LIS	ST OF PUBLIC	ATION	2	293

LIST OF TABLES

Table	Page
3.1 Hamadan Health statistics	59
3.2 The name of health care centres in selected unicipal	62
3.3 The content of booklet in each section	68
3.4 Reliability test for all scles	77
4.1 Socio-demographic and characterstic of participants	84
4.2 Comparisions of the scio-demographic and obstetric characteristiess of participants and groups	86
4.3 Comparisons of psychosocial characteris and level of fear related to childbirth between intervention and control groups at baseline	87
4.4 Comparisons content of fear related to childbirth between groups at baseline	88
4.5 Comparisons of mean belief between groups at baseline	89
4.6 Comparisons chice of delivery mode between roups at base line	89
4.7 Summery of multiple regression analysis variables fear related to childbirth	91
4.8 The relationship between the socio-demographic obstetric characteristic and fear to childbirth at baseline	92
4.9 Relationship between the psychosocial characteristics, belief and fear related to childbirth at base line	93
4.10 Relationship between the socio-demographic and obstetric charateistics and choice of delivery method at baseline	95
4.11 Relationship between the psychosocial characteristics, fear and choice of delivery method at baseline	96
4.12 Relationship between the mean belief score and choice of delivery method at baseline	97
4.13 Summary of hierarchical regression analysis for variables predicting choise of CS(n=342)	99

4.14 Effect of intervention on RSES between groups	101
4.15 Pairwise comparison of the RSES between three groups	102
4.16 Main effects within groups at time and group \times time interaction in RSES	102
4.17 The interaction of socio-demographic characteristics with time and group in RS	ES 103
4.18 Group effect of RSES at baseline and 16 weeks follow up	104
4.19 Changes in RSES within groups of study	104
4.20 Effect of intervention on PSSbetween groups	105
4.21 Pairwise comparison of the PSS between three groups	106
4.22 Main effects within groups at time and group × time interaction in PSS	106
4.23 The interaction of socio-demographic characteristics with time and group PSS	107
4.24 Group effect of PSS at baseline and 16 weeks follow up	107
4.25 Changes in PSS within groups of study	108
4.26 Effect of intervention on RDASbetween groups	109
4.27 Pairwise comparison of the RDAS between three groups	110
4.28 Main effects within groups at time (from pretest to posttest) and group× time interaction in RDAS	110
4.29 The interaction of socio-demographic characteristics with time and group in RD	AS111
4.30 Group effect of RDAS at baseline and 16 weeks follow up	112
4.31Changes in RDAS within groups of study	112
4.32 Effect of intervention on MSPSSbetween groups	113
4.33 Pairwise comparison of the MSPSS between three groups	114
4.34 Main effects within groups at time and group \times time interaction in MSPSS	114
4.35 The interaction of socio-demographic characteristics with time and group in MSPSS	115
4.36 Group effect of MSPSS at baseline and 16 weeks follow up	116

4.37 Changes in MSPSS within groups of study	116
4.38 Effect of intervention onfear related to childbirth between groups	117
4.39 Pairwise comparison of the Fear related to childbirth between three groups	118
4.40 Main effects within groups at time and group \times time interaction in fear related to child birth	118
4.41 The interaction of socio-demographic characteristics with time and group in fear related to childbirth	119
4. 42 Group effect mean score of Fear related to childbirthat baseline and 16 weeks follow up	120
4.43 Changes in mean score of Fear related to childbirth and seven subscales within groups	121
4.44 Effect of intervention on belief between groups	122
4.45 pairwise comparison of the belief betweenthree groups	123
4.46 Main effects within groups at time and group × time interaction in mean score of belief	123
4.47 The interaction of socio-demographic characteristics with time and group in belief	124
4.48 Group effect on the mean score of Belief at baseline and 16 weeks follow up	125
4.49 Changes in Belief within groups of study	125
4.50 Comparison of Belief subscales at baseline and follow up within groups	126
4.51 Effect of intervention on Susceptibility between groups	127
4.52 Pairwise comparison of the Susceptibility between three groups	128
4.53 Main effects within groups at time and group \times time interaction in susceptibility	128
4.54 The interaction of socio-demographic characteristics with time and in group susceptibility	129
4.55 Group effect of susceptibility at baseline and 16 weeks follow up	130
4.56 Effect of intervention on Seriousnessbetween groups	131
4.57 Pairwise comparison of the Seriousness between three groups	132

4.58 Main effects within groups at time and group \times time interaction in seriousness	132
4.59 The interaction of socio-demographic characteristics with time and group in severity	133
4.60 Group effect of Seriousness at baseline and 16 weeks follow up	134
4.61 Effect of intervention on Benefit between groups	135
4.62 Pairwise comparison of the Benefit between three groups	135
4 63 Main effects within groups at time and group \times time interaction in benefit	135
4.64 The interaction of socio-demographic characteristics with time and group in Bene	fit136
4.65 Group effect of Benefit at baseline and 16 weeks follow up	137
4.66 Effect of intervention onBarrier between groups	138
4.67 Pairwise comparison of the Barrier between three groups	138
4.68 Main effects within groups at time and group × time interaction in the barrier	138
4.69 The interaction of socio-demographic characteristics with time and group in barriers	139
4.70 Group effect of Barrier at baseline and 16 weeks follow up	140
4.71 Effect of intervention on Self-efficacy between groups	141
4.72 Pairwise comparison of the self-efficacy between three groups	141
4.73 Main effects within groups at time and group \times time interaction	142
4.74 The interaction of socio-demographic characteristics with time and group in self efficacy	142
4.75 Group effect of self-efficacy at baseline and 16 weeks follow up	143
4.76. Goup effect of self efficacy at baseline an 16 weeks follow up	144
4.77. Pairwise comparison of the cue of action between three groups	145
4.78 Main effects within groups at time and group \times time interaction in cue to action	145

4.79 The interaction of socio-demographic characteristics with time and group in cue to action	146
4.80 Group effect of cue to action at baseline and 16 weeks follow up	147
4.81 Camparison of choise of delivery mode at baseline an 16 weeks follow up	147
4.82 Pairwise comparison of the choice of delivery mode between three groups	148
4.83 Comparison of choice of delivery mode within intervention groupone	148
4.84 Comparison of choice of delivery mode at baseline and 16 weeks follow up	149

LIST OF FIGURES

Figure	Page
1.1 Conceptual Frsamework Based On HealthBeliefe Model	10
3.1 The location of study (Hamadan city)	58
3. 2 Flow chart of selection clinics and primigravidae	63
3. 3 Flow chart of study design and outcome variable evaluation	78
4. 1 Mean score of RSES between groups over time	101
4. 2 Mean score of PSS between groups over time	105
4. 3 Mean score of RDAS between groups over time	109
4. 4 Mean score of MSPSS between groups over time	113
4. 5 Mean score of Fear related to childbirthbetween groups over time	117
4. 6 Mean score of HBM between groups over time	122
4. 7 Mean score of Susceptibility between groups over time	127
4. 8 Mean score of Seriousness between groups over time	131
4. 9 Mean score of benefit between groups over time	134
4. 10 Mean score of Barrier between groups over time	137
4. 11 Mean score of self-efficacy between groups over time	140
4. 12 Mean score of Cue to Action between groups over time	144

LIST OF ABBREVIATIONS / NOTATIONS / GLOSSARY OF TERMS

SVD Spontaneous Vaginal Delivery

CS Caesarean Section

RSES Rosenberg Self Esteem Scale

PSS Perceived Social Support

RDAS Revised Dyadic Adjustment

MSPSS Multidimensional Scale of Perceived Social Support

FOC Fear of Childbirth

CHAPTER 1

INTRODUCTION AND OBJECTIVE

1.1 Background of study

Pregnancy and childbirth are normal physiological processes and significant social and emotional events in the life of any woman and her family (Fisher, Hauck, & Fenwick, 2006). Babies are born via two methods: caesarean section (CS) and Spontaneous vaginal delivery (SVD) which are likely to differ with respect to individual outcomes for mother, her infant, or both (Bewley & Cockburn, 2002b).

Choosing between a SVD and CS is a critical important matter for a pregnant woman. The last three months (third trimester) is the time for pregnant women to decide on the methods of delivery. Naturally, this involves a question of safety for both mother and child. The decision concerning delivery method is different than most other medical decisions. It is a decision that has implication to two individuals; the mother and the fetus (Khosravy, Shahoei, Hashemi Nasab, Ranaei, & Abdolahi, 2013).

Recently using of new technology and interventions in the process of childbirth such as CS has increased despite of unchanged basic physiology of birth (Kolip & Büchter, 2009). The majority of CS is done for medical reasons such as vaginal bleeding, cephalo-pelvic disproportion fetal distress, or malpresentation of the infant. However, the new trend among pregnant women is to choose to have a CS without any medical reason. These CS are called maternal request CS or elective CS without any medical reasons (Cunningham et al., 2009).

The rates of CS in many countries have increased. In spite of the known risks of this procedure, it still remains very much higher than World Health Organization (WHO) recommendations that emphasized "no region in the world is justified for having a C/S rate greater than 10 to 15 percent optimal CS rates- states the best outcomes for mothers and babies appear to occur with CS rates of 5% to 10%".

The CS rate is almost doubled in the last decade, especially in developed countries such as Cyprus (50.9%) with highest level followed by Italy (38.9%), Mexico (36.9%), USA 31.8%, Australia (31.1%), Canada (26.3%), and Great Britain (UK) 22%; Similar trends have also been documented in developing countries such as Brazil (43.8%), Iraq (35%), Egypt (27.6%) and, China (27%) for births particularly in private hospitals (WHO, 2012).

In Iran, the rate of CS is about 30-40% in public (teaching) hospitals and 50-60% in private hospitals (Pour Reza M, 2007). Based on statistics in 2008, it is three to five folds more than other places in the world. The rate of CS has been 47.5% in public hospitals and 79.1% in private hospitals in Hamadan province, the west part of Iran. (Hamadan University of Medical Sciences Statistics 2011). A rate above 15% seems to do more harm than good (Althabe & Belizán, 2006).

The continuous rise of CS rate has become a major public health issue in worldwide. this is due in part to the increase in maternal request for this procedure (Declercq et al., 2007; Lee & Kirkham, 2008; NIH, 2006). Maternal request is one of the main reasons for elective CS without any medical maternal or fetal indication (Nerum, Halvorsen, Sørlie, & Oian, 2006; Weaver, Statham, & Richards, 2007; Young, 2006; Zwelling, 2008).

The most common reasons of choosing CS include having had a previous CS, a previous negative birth experience, complicated pregnancy, and/or fear of giving birth. Very often, fear of childbirth leads to request for elective CS, regardless of the risks of this procedure. These women also have the belief that CS is the safest childbirth mode for the baby (Faisal, Matinnia, Hejar, & Khodakarami, 2013; McCourt et al., 2007; Pakenham, , Chamberlain & Smith, 2006; Waldenström, Hildingsson, Ryding, 2006).

It is now recognized that carrying out CS without medical indication not only offers no health advantages to the mother and her baby, but it rather confers increased health risks, from both physical and emotionalperspective, compared with vaginal delivery (Armson, 2007; McFarlin, 2004). Generally, CS deliveries are associated with higher maternal and child mortality and morbidity (Jonge et al., 2009) A primary CS virtually increases the rate of CS in future births; furthermore health outcomes and the economic effect of elective C/S should be considered (Lumbiganon et al., 2010).

For the majority of women childbirth is a normal, natural, and healthy process, however the numbers of pregnant women who experience fear of childbirth for their babies or themselves are rising. Fear of childbirth is a main factor in reasons for choosing elective CS by pregnant women. Most of pregnant women with fear of childbirth were afraid of intolerable pain. Fear of pain is the main reason for requesting CS(Eriksson, Westman, & Hamberg, 2006; Geissbuehler & Eberhard, 2002)However, discussion on the reasons for women to request CS, or on the possibilities to help them overcome the fear of vaginal childbirth is scanty in developing countries (Fenwick et al., 2013).

Predisposing factors of fear in pregnancy include: young maternal age, low education or socioeconomic level, low self-esteem, lack of social support, great number of daily stressors (Saisto, et al., 2006). All of these factors are considered in this study.

A variety of coping techniques designed to decrease fear and anxiety during labour are promoted in the United States. These include antenatal education, cognitive therapy, counseling, breathing techniques, hydrotherapy, hypnosis, epidural and narcotic pain relief, the use of a doula and mantram intervention (Hunter, et al., 2009).

Pregnant women have more acceptances to comprehend comments or advices besides having more contact time and interaction with health care providers during pregnancy (prenatal period) which has been considered an appropriate time to intervene (Lara, Navarro, & Navarrete, 2010).

Health Belief Model (HBM) is applied to explain people's responses to symptoms and diagnosed illnesses. The HBM hypothesizes that "individuals' perceptions about their Susceptibility to a condition and the perceived Seriousness of the effects of the condition along with the Perceived Benefits and Barriers associated with the action or treatment available will influence whether they will participate in preventative health care activities" (Janz & Becker, 1984).

In application of HBM to the maternal request for SVD, the Perceived Susceptibility is identified in regarding the risk of having a SVD. Perceived Seriousness is conceptualized as the pregnant women's perception of risks or severity associated with SVD. Perceived Self-Efficacy associated to the maternal belief that she has ability to complete a SVD.

The issue of request elective CS by pregnant women is complex. There are many interrelated factors that affect fear and it is not easily explained. The studies are limited about how the decision for elective CS comes in developing countries such as Iran. Considering the lack of information about the factors affect choice of childbirth methods in the primigravidae and assess the effect of health education on this decision, an experimental study was undertaken with the purpose of finding out their believes during pregnancy and whether the health education can affect choosing natural delivery or CS.

Interventions provided to cases with fear in pregnancy, especially for those who request for a CS may have a positive effect, and reduce the number of elective CS (Nerum et al., 2006). Psychosomatic support in severe fear related to childbirthresulted in a 50 percent reduction in CS (Sjögren & Thomassen, 1997).

1.2 Problem Statement

Recently the rate of CS which is considered as a safe method delivery for mother and babies has increased rapidly especially in urban areas of the developing countries

(Stanton & Holtz, 2006; Villar et al., 2006), while most developed countries have experienced a gradual rise. Iran is one of the developing countries which have the most increasing CS rates. In university hospitals, about 30-40 percent of births are by caesarean, as it is 50-60% in private hospitals in Iran (Pour Reza, 2007).

This problem is clinically important because of the increasing numbers of low-risk healthy women preferring CS and the health risks to the mother and infant undergoing CS and also the increased cost associated with CS. The "increase in rates of CS is not associated with any clear overall benefit for the baby or mother but is linked with increased medical risks for both" (Spaeth, 2010; Villar et al., 2006).

Several studies show fear related to childbirthis a main factor to request CS which is increasing (Fenwick et al., 2013; Melender, 2002; Nerum et al., 2006; Saisto & Halmesmäki, 2003; Waldenström et al., 2006).

The belief and perception that CS is the safestdelivery method for the baby and mother are common among primigravidae (Zwelling, 2008).

Compared to developed countries, the developing countries are deficient in studies and research aimed at evaluating the characteristics and risk factors for fear of childbirth. The developing country such as Iran also lacks research discussing methods or practices that could be applied for identifying and managing women with fear related to pregnancy.

Less attention to maternal mental health education in developing country is very remarkable in spite of the recognition that maternal mental health is a main public health principle and an essential component of maternal health progress (United Nations, 2013; Sawyer, Ayers, & Smith, 2010) Prenatal health education in both dimensions (physical and psychological) is needed to recognize and prevent psychological disorders related to pregnancy such as childbirth fear that might be associated with physical and psychological disorders (Bakshi, Mehta, 2008; Betrán et al., 2009).

The research problem needs investigation about pregnant women's fear related to child-birthand their beliefs aboutdelivery method. The ultimate goal is to determine educational interventions to reduce the rate of maternal request CS, thus reducing mortality and morbidity associated with CS and decreasing health care costs associated with maternal request CS.

1.3 Significance of study

This survey will be useful in the field of maternal health in Iran as it targets a group of Iranian primigravidae to study about their fear related to childbirthand choice of delivery mode, this would help health care providers to understand pregnant women's emotion (fear related to pregnancy) and perceived beliefs can affect their choice ofdelivery method in Iranian primigravidae.

Understanding beliefs of Iranian primigravidae about Benefits and Barriers of SVD will contribute to the body of knowledge needed to design and improve a better prenatal health education and intervention strategies programme to reduce fear related to child-birthchanging beliefs and rate of request CS which are associated with decrease in maternal and infant mortality and morbidity.

In addition, decline rate of CS by maternal request also play a role in the alarming increase in the overall CS rate and also decreased health care costs which is so important for health policy makers in Iran and other countries. As prenatal health education is a considerable concern in public health, new prenatal educational module may have effect on improving maternal and neonatal health which are targeted in the Millennium Development Goals 4, 5 and 6" (WHO, 2010). It is hoped that new module provide information on birthing options to expectant parents and also on supporting pregnant women during labour and delivery by midwives and other health "care providers.

This research study involved inquiring primigravidae about their fear related to child-birthand beliefs toward choice of delivery mode. This prospective study as a randomized control trial acquired data before delivery to reduce the risk of the bias, because events of delivery might influence on mothers' answers.

The potential usefulness of this study may encourage health policy maker to increase knowledge and information in health care provider, extend prenatal education which focus more on psychological aspect, and improve maternal health care. Health care provider, midwives, and obstetricians have an important role to play in providing information to assist pregnant women in choosing their birth mode.

1.4 Research Questions

- 1.4.1 What is the rate of request CS among primigravidae?
- 1.4.2 Why primigravidae request CS in normal pregnancy?
- 1.4.3 What is the rate and content of fear related to childbirthamong primigravidae?
- 1.4.4 Which strategy (booklet or discussion groups) has greater effect on reduce fear related to childbirthand request CS?

1.5 Objective

1.5.1 General objective

To develop, implement and evaluate the effect of health education on the choice of delivery method among primigravidae with fear related to childbirth in Hamadan, Iran.

1.5.2 Specific Objectives

- 1.5.2.1 To determine socio-demographic characteristics in primigravidae with fear related to pregnancy.
- 1.5.2.2 To develop the module of health education based on the Health Belief Model in primigravidae.
- 1.5.2.3 To determine the choice of delivery method in primigavidae at baseline and after 16 weeks follow up.
- 1.5.2.4 To determine the belief on choice of delivery method in primigavidae at baseline and after 16 weeks follow up.
- 1.5.2.5 To determine the relationship between fears related to childbirth and choice of delivery method in primigavidae at baseline.
- 1.5.2.6 To determine psychosocial status in primigavidae at baseline and after 16 weeks follow up.
- 1.5.2.7 To determine the relationship between psychosocial status and fear related to childbirth with choice of delivery method in primigavidae.

1.5.2.8 To compare effect of the two methods (booklet and discussion group)of health education on choice of delivery method.

1.6 Research Hypothesis

This health education intervention study tested the following null hypotheses:

- 1.6.1 No significant differences in fear related to childbirth between intervention groups and control group after 16 weeks follow up.
- 1.6.2 No significant differences in psychosocial status between intervention groups and control group after 16 weeks follow up.
- 1.6.3 No significant differences in choice of delivery method between intervention groups and control group after 16 weeks follow up.
- 1.6.4 No significant differences in belief between intervention groups and control group after 16 weeks follow up.
- 1.6.5 No significant relationship between fear related to childbirth and choice of delivery method.
- 1.6.6 No significant relationship between psychosocial status and fear related to childbirth with choice of delivery method.
- 1.6.7 No significant differences in fear related to childbirth and choice of delivery method between the two methods (booklet and discussion group) of health education.

1.7 Conceptual Framework

The modification of the Health Belief Model was chosen as a conceptual framework to study the choice ofdelivery method.

The HBM as a conceptual framework or theoretical basis was assumed to Identify demographic, psychosocial, fear related to childbirthand individual's perception might influence belief and indirectly affect health behaviour (N K Janz & Becker, 1984). Based on the literature review in this study, choice ofdelivery method was conceptualized as a dependent variable.

1.7.1 Dependent Variable

1.7.1.1 Choice of delivery method

A birthing plan describes the manner in which a woman wishes to deliver her child There are two methods of delivery: Vaginal Delivery (Natural Childbirth): Vaginal Deliveryrefers to the entire process as a fetus makes its way from the uterus down the vagina or birth canal to the outside world. Caesarean Section: A caesarean section is a form of childbirth in which a surgical incision is made through a mother's abdomen and uterus to deliver baby (Cunningham et al., 2009).

1.7.1.2 Fear related to pregnancy

Fear during pregnancy based on its intensity was defined when pregnant women express anxiety and fear during pregnancy and asks for help. In general, fear of childbirth can be seen as an anxiety disorder or as a phobic fear manifesting also as nightmares, physical complaints and difficulties in concentrating on work or on family activities, and very often as a request for a CS as thedelivery method (Terhi . Saisto & Halmesmäki, 2003).

1.7.2 Independent Variable

1.7.2.1 Intervention strategies

Intervention strategies are a prenatal health education that focused more on normal psychosocial changes during pregnancy, fear related to childbirth, SVD, and CS with its ad vantages and disadvantages and misconceptions about both methods of delivery.

1.7.2.2 Socio-demographic characteristics

The relation of socio-demographic variables a choice of delivery method and beliefs of pregnant women was shown in some studies. To assess this relation, socio demographic characteristics (age, education, occupation and, family income) among primigravidae were examined in this study.

1.7.2.3 Psychosocial characteristic

In this study Psychosocial characteristic was defined as self esteem, perceived stress, social support and the quality of marital relationship of primigravidae who were participants of this research.

1.7.2.4 Health belief model (HBM)

Understanding women's choice ofdelivery method is very important. Maiman & Becker, (1974) stated in the 1950's the Health Belief Model (HBM) was developed is an example of a logical choice to model the making of a decision based on value expectancy theory (Janz, Champion, & Strecher, 2002).

In preventative health care the HBM was developed to make clear choices about individuals' participation and then it was used to explain individual's responses to diagnosis and symptoms of illnesses. This model hypothesizes that people's perceptions about their susceptibility to a health condition or disease and the perceived seriousness of the consequences of the health condition or disease together with the perceived benefits and barriers related with the treatment or action will influence whether they will contribute in preventative health care actions (Maiman & Becker, 1974) as cited in (Sharma & Romas, 2011).

The perceived susceptibility and seriousness make together perceived threat that makes the force or energy to take action and the perception of benefits (fewer barriers) provides a suitable way of action. The stimulus is required to prompt the process of decision making or Cue to Action that may be internal or external (e.g. interpersonal communications, mass media, and interaction with health care providers) (K Glanz, Rimer, & Viswanath, 2008).

HBM was applied to the process of choosing CS as a maternal request for elective CS decision making, the Perceived Susceptibility to the condition corresponds to the risk of having a CS. The perceived threat is conceptualized as the maternal perception of seriousness or risks associated with planning a CS. Perceived self efficacy corresponds to the maternal belief that she will be able to accomplish a SVD. The maternal Health Belief Model is shown on the following page in Figure 1.

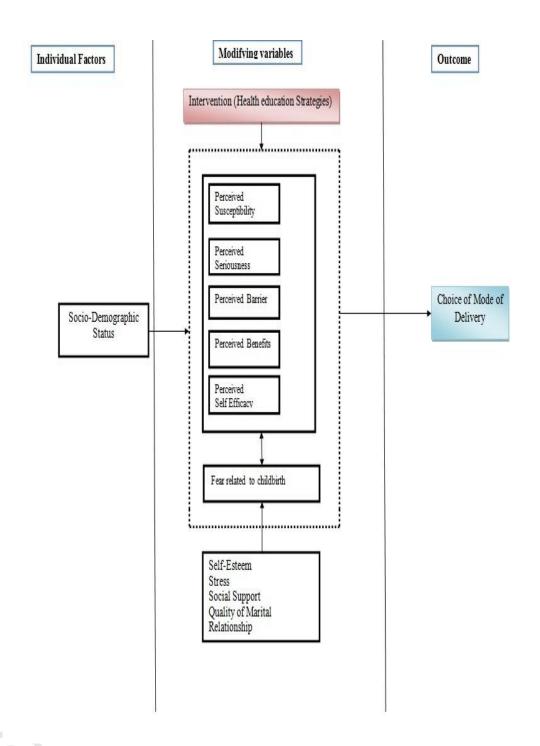


Figure 1.1 Conceptual Frsamework Based On HealthBeliefe Model

1.8 Operational Definition of Terms

There are some terms in this study, which need clarification for better understanding of what they mean within the context of the study.

Primigravida: a woman who becomes pregnant for the first time.

Trimester of pregnancy: Pregnancy is typically broken into three periods of trimester each of about three months; first, second and third trimester.

Elective CS: Request CS by pregnant women without any medical reasons.

Fear Related to Pregnancy: Any fear and worry about pregnancy and childbirth, which measured by a 30 item questionnaire in this study.

Psychosocial Characteristics: In this study psychosocial characteristics includeself esteem, stress, quality of marital relationship and social support.

Health education: prenatal education consists of normal psychosocial changes during pregnancy, vaginal delivery, caesarean section and misconception about them by booklet or discussion group in four sessions.

REFERENCES

- Ahmad-Nia, S., Delavar, B., Eini-Zinab, H., Kazemipour, S., Mehryar, A. H., & Naghavi, M. (2009). Caesarean section in the Islamic Republic of Iran: prevalence and some sociodemographic correlates. *Eastern Mediterranean Health Journal = La Revue de Santé de La Méditerranée Orientale = Al-Majallah Al-Ṣiḥḥīyah Li-Sharq Al-Mutawassit*, 15(6), 1389–98. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/20218129
- Ajzen, I., & Madden, T. J. (1986). Prediction of goal-directed behavior: Attitudes, intentions, and perceived behavioral control. *Journal of Experimental Social Psychology*, 22(5), 453–474. Retrieved from http://www.sciencedirect.com/science/article/pii/0022103186900454
- Akhtar, A., Rahman, A., Husain, M., Chaudhry, I. B., Duddu, V., & Husain, N. (2010). Multidimensional scale of perceived social support: psychometric properties in a South Asian population. *The Journal of Obstetrics and Gynaecology Research*, 36(4), 845–51. doi:10.1111/j.1447-0756.2010.01204.x
- Alehagen, S., Wijma, B., & Wijma, K. (2006). Fear of childbirth before, during, and after childbirth. *Acta Obstetricia et Gynecologica Scandinavica*, 85(1), 56–62. doi:10.1080/00016340500334844
- Allen, V. M., O'Connell, C. M., Liston, R. M., & Baskett, T. F. (2003). Maternal morbidity associated with cesarean delivery without labor compared with spontaneous onset of labor at term. *Obstetrics and Gynecology*, 102(3), 477–82. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12962927
- Althabe, F., & Belizán, J. M. (2006). Caesarean section: the paradox. *Lancet*, *368*(9546), 1472–3. doi:10.1016/S0140-6736(06)69616-5
- Althabe, F., Belizán, J. M., Villar, J., Alexander, S., Bergel, E., Ramos, S., ... Kestler, E. (2004). Mandatory second opinion to reduce rates of unnecessary caesarean sections in Latin America: a cluster randomised controlled trial. *Lancet*, *363*(9425), 1934–40. doi:10.1016/S0140-6736(04)16406-4
- Amaral, D. L. F. E., Hopkins, K., & Mourão, A. N. M. (2008). Trends in public and private hospital cesarean section rates in Brazil, Trends in public and private hospital cesarean section rates in Brazil, 1998–2008.
- Areskog, B., Uddenberg, N., & Kjessler, B. (1981). Fear of Childbirth in Late Pregnancy. *Gynecologic and Obstetric Investigation*, 12(5), 262–266. doi:10.1159/000299611

- Armson, B. A. (2007). Is planned cesarean childbirth a safe alternative? *CMAJ*: Canadian Medical Association Journal = Journal de l'Association Medicale Canadienne, 176(4), 475–6. doi:10.1503/cmaj.061724
- Aroian, K., Templin, T. N., & Ramaswamy, V. (2010). Adaptation and psychometric evaluation of the Multidimensional Scale of Perceived Social Support for Arab immigrant women. *Health Care for Women International*, 31(2), 153–69. doi:10.1080/07399330903052145
- Assari, S., Moghani Lankarani, M., & Tavallaii, S. A. (2009). Revised dyadic adjustment scale as a reliable tool for assessment of quality of marital relationship in patients on long-term hemodialysis. *Iranian Journal of Kidney Diseases*, *3*(4), 242–5. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/19841530
- Badakhsh, M. H., Seifoddin, M., Khodakarami, N., Gholami, R., & Moghimi, S. (2012). Rise in cesarean section rate over a 30-year period in a public hospital in Tehran, Iran. *Archives of Iranian Medicine*, 15(1), 4–7. doi:012151/AIM.004
- Baghianimoghadam, M. H., Zolghadar, R., Moghadam, B. B., Darayi, M., & Jozy, F. (2012). Related factors to choose normal vaginal delivery by mothers based on Health Belief Model. *Journal of Education and Health Promotion*, *1*(July), 17. doi:10.4103/2277-9531.99216
- Baghianimoghaddam, M. H., Forghani, H., Zolghadr, R., Rahaii, Z., & Khani, P. (2010). Health Belief Model and HIV/AIDS among high school female students in Yazd, Iran. Journal of Research in Medical Sciences: The Official Journal of Isfahan University of Medical Sciences, 15(3), 189–90. Retrieved from http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3082808&tool=pmcent rez&rendertype=abstract
- Bakshi A, Mehta A, M. A. & S. B. (2008). Tokophobia: Fear Of Pregnancy And Childbirth Tags: CHILDBIRTH PREGNANCY, 10(1). Retrieved from http://ispub.com/IJGO/10/1/4792
- Barber, E. L., Lundsberg, L. S., Belanger, K., Pettker, C. M., Funai, E. F., & Illuzzi, J. L. (2011). Indications contributing to the increasing cesarean delivery rate. *Obstetrics and Gynecology*, *118*(1), 29–38. doi:10.1097/AOG.0b013e31821e5f65
- Bastani, F., Hidarnia, A., Kazemnejad, A., Vafaei, M., & Kashanian, M. (2005). A randomized controlled trial of the effects of applied relaxation training on reducing anxiety and perceived stress in pregnant women. *Journal of Midwifery & Women's Health*, 50(4), e36–40. doi:10.1016/j.jmwh.2004.11.008
- Baum, A., Revenson, T. . A., & Singer, J. (2012). *Handbook of Health Psychology, 2nd Edition* (p. 882). New York, NY: Psychology Press. Retrieved from http://books.google.com/books?id=FZOjc8ouMlsC&pgis=1

- Baumeister, R. F., Campbell, J. D., Krueger, J. I., & Vohs, K. D. (2003). Does high self-esteem cause better performance, interpersonal success, happiness, or healthier lifestyles? | Econstudentlog on WordPress.com. *PSYCHOLOGICAL SCIENCE IN THE PUBLIC INTEREST*, 4(1), 1–44. Retrieved from http://psi.sagepub.com/content/4/1/1
- Behague, D. P. (2002). Consumer demand for caesarean sections in Brazil: informed decision making, patient choice, or social inequality? A population based birth cohort study linking ethnographic and epidemiological methods. *BMJ*, 324(7343), 942–942. doi:10.1136/bmj.324.7343.942
- Berg, G. V, & Sarvimäki, A. (2003). A holistic-existential approach to health promotion. *Scandinavian Journal of Caring Sciences*, 17(4), 384–91. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/14629641
- Bergholt, T., Stenderup, J. K., Vedsted-Jakobsen, A., Helm, P., & Lenstrup, C. (2003). Intraoperative surgical complication during cesarean section: an observational study of the incidence and risk factors. *Acta Obstetricia et Gynecologica Scandinavica*, 82(3), 251–6. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12694122
- Betrán, A. P., Gulmezoglu, a M., Robson, M., Merialdi, M., Souza, J. P., Wojdyla, D., ... Bataglia, V. (2009). WHO global survey on maternal and perinatal health in Latin America: classifying caesarean sections. *Reproductive Health*, 6(group 5), 18. doi:10.1186/1742-4755-6-18
- Bewley, S., & Cockburn, J. (2002a). II. The unfacts of "request" caesarean section. BJOG: An International Journal of Obstetrics and Gynaecology, 109(6), 597–605. doi:10.1111/j.1471-0528.2002.07106.x
- Bewley, S., & Cockburn, J. (2002b). Responding to fear of childbirth. *Lancet*, 359(9324), 2128–9. doi:10.1016/S0140-6736(02)09113-4
- Bodenmann, G., Pihet, S., & Kayser, K. (2006). The relationship between dyadic coping and marital quality: a 2-year longitudinal study. *Journal of Family Psychology: JFP: Journal of the Division of Family Psychology of the American Psychological Association (Division 43)*, 20(3), 485–93. doi:10.1037/0893-3200.20.3.485
- Bryant, A. S., Washington, S., Kuppermann, M., Cheng, Y. W., & Caughey, A. B. (2009). Quality and equality in obstetric care: racial and ethnic differences in caesarean section delivery rates. *Paediatric and Perinatal Epidemiology*, 23(5), 454–62. doi:10.1111/j.1365-3016.2009.01059.x
- Bryant, J., Porter, M., Tracy, S. K., & Sullivan, E. A. (2007). Caesarean birth: consumption, safety, order, and good mothering. *Social Science & Medicine* (1982), 65(6), 1192–201. doi:10.1016/j.socscimed.2007.05.025

- Bryanton, J., Gagnon, A. J., Johnston, C., & Hatem, M. (2008). Predictors of women's perceptions of the childbirth experience. *Journal of Obstetric, Gynecologic, and Neonatal Nursing: JOGNN / NAACOG*, 37(1), 24–34. doi:10.1111/j.1552-6909.2007.00203.x
- Busby, D. M., Christensen, C., Crane, D. R., & Larson, J. H. (1995). a Revision of the Dyadic Adjustment Scale for Use With Distressed and Nondistressed Couples: Construct Hierarchy and Multidimensional Scales. *Journal of Marital and Family Therapy*, 21(3), 289–308. doi:10.1111/j.1752-0606.1995.tb00163.x
- Butler, R. J., & Gasson, S. L. (2005). Self Esteem/Self Concept Scales for Children and Adolescents: A Review. *Child and Adolescent Mental Health*, 10(4), 190–201. doi:10.1111/j.1475-3588.2005.00368.x
- Campbell, C. (2001). Health education behavior models and theories: A review of the literature, Part I. Retrieved from http://msucares.com/health/health/appa1.htm
- Campbell, C., & Mzaidume, Z. (2001). Grassroots participation, peer education, and HIV prevention by sex workers in South Africa. *American Journal of Public Health*, 91(12), 1978–86. Retrieved from http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1446919&tool=pmcent rez&rendertype=abstract
- Campbell, R., & Porter, S. (2008). Feminist theory and the sociology of childbirth: a response to Ellen Annandale and Judith Clark. *Sociology of Health & Illness*, 19(3), 348–358. doi:10.1111/j.1467-9566.1997.tb00023.x
- Canty-Mitchell, J., & Zimet, G. D. (2000). Psychometric properties of the Multidimensional Scale of Perceived Social Support in urban adolescents. *American Journal of Community Psychology*, 28(3), 391–400. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/10945123
- Ceber, E., Turk, M., & Ciceklioglu, M. (2010). The effects of an educational program on knowledge of breast cancer, early detection practices and health beliefs of nurses and midwives. *Journal of Clinical Nursing*, 19(15-16), 2363–71. doi:10.1111/j.1365-2702.2009.03150.x
- Chaaya, M., Osman, H., Naassan, G., & Mahfoud, Z. (2010). Validation of the Arabic version of the Cohen Perceived Stress Scale (PSS-10) among pregnant and postpartum women. *BMC Psychiatry*, 10(1), 111. doi:10.1186/1471-244X-10-111
- Chan, Y. H. (2004). Biostatistics 301. Repeated measurement analysis. *Singapore Medical Journal*, 45(8), 354–68; quiz 369. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/15284929

- Cheung, N. F., Mander, R., Cheng, L., Chen, V. Y., & Yang, X. Q. (2006). Caesarean decision-making: negotiation between Chinese women and healthcare professionals, 4, 24–30.
- Chong, E. S. Y., & Mongelli, M. (2003). Attitudes of Singapore women toward cesarean and vaginal deliveries. *International Journal of Gynaecology and Obstetrics: The Official Organ of the International Federation of Gynaecology and Obstetrics*, 80(2), 189–94. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12566197
- Chuang, L.-L., Lin, L.-C., Cheng, P.-J., Chen, C.-H., Wu, S.-C., & Chang, C.-L. (2012). Effects of a relaxation training programme on immediate and prolonged stress responses in women with preterm labour. *Journal of Advanced Nursing*, 68(1), 170–80. doi:10.1111/j.1365-2648.2011.05765.x
- Clark, S. L., Belfort, M. A., Dildy, G. A., Herbst, M. A., Meyers, J. A., & Hankins, G. D. (2008). Maternal death in the 21st century: causes, prevention, and relationship to cesarean delivery. *American Journal of Obstetrics and Gynecology*, 199(1), 36.e1–5; discussion 91–2. e7–11. doi:10.1016/j.ajog.2008.03.007
- Clarke, V. A., Lovegrove, H., Williams, A., & Machperson, M. (2000). Unrealistic Optimism and the Health Belief Model. *Journal of Behavioral Medicine*, 23(4), 367–376. doi:10.1023/A:1005500917875
- Cohen, D. J. (2006). *Developmental Psychopathology, Risk, Disorder, and Adaptation (Google eBook)* (p. 960). John Wiley & Sons. Retrieved from http://books.google.com/books?id=UlQjE-Ka09sC&pgis=1
- Cohen, S., Karmarck, T., & Mermelstein, R. (1983). A global measure of perceived stress. *Journal of Health and Social Behaviour*, 24, 385-396., 24, 385-396. Retrieved from www.psy.cmu.edu/~scohen/globalmeas83.pdf
- Cohen, S., & Williamson, G. (1988). Perceived stress in a probability sample of the United States. In I. S. Spacapam & S. Oskamp (Eds.), *The social psychology of health: Claremont Symposium on applied psychology*. Newbury Park,CA: Sage. Retrieved from https://www.maa.nsw.gov.au/getfile.aspx?Type=document&ID
- Crichton, N. (2000). Wilks 'lambda. *Journal of Clinical Nursing*, 9, 369+381.
- Cunningham, F. G., Leveno, K. J., Bloom, S. L., Hauth, J. C., Rouse, D., & Catherine Y. Spong. (2009). *Williams Obstetrics* (23rd ed., pp. 590–595). The Mcgraw-Hill Companies Inc.
- De Jonge, A., van der Goes, B. Y., Ravelli, A. C. J., Amelink-Verburg, M. P., Mol, B. W., Nijhuis, J. G., ... Buitendijk, S. E. (2009). Perinatal mortality and morbidity in a nationwide cohort of 529,688 low-risk planned home and hospital births. *BJOG: An International Journal of Obstetrics and Gynaecology*, 116(9), 1177–84. doi:10.1111/j.1471-0528.2009.02175.x

- Declercq, E., Barger, M., Cabral, H. J., Evans, S. R., Kotelchuck, M., Simon, C., ... Heffner, L. J. (2007). Maternal outcomes associated with planned primary cesarean births compared with planned vaginal births. *Obstetrics and Gynecology*, *109*(3), 669–77. doi:10.1097/01.AOG.0000255668.20639.40
- Doheny, M. O., Sedlak, C. A., Estok, P. J., & Zeller, R. (2007). Osteoporosis knowledge, health beliefs, and DXA T-scores in men and women 50 years of age and older. *Orthopaedic Nursing / National Association of Orthopaedic Nurses*, 26(4), 243–50. doi:10.1097/01.NOR.0000284654.68215.de
- Dumville, J. C., Torgerson, D. J., & Hewitt, C. E. (2006). Reporting attrition in randomised controlled trials. *BMJ* (*Clinical Research Ed.*), *332*(7547), 969–71. doi:10.1136/bmj.332.7547.969
- Dursun, P., Yanik, F. B., Zeyneloglu, H. B., Baser, E., Kuscu, E., & Ayhan, A. (2011). Why women request cesarean section without medical indication? The Journal of Maternal-Fetal & Neonatal Medicine: The Official Journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians, 24(9), 1133–7. doi:10.3109/14767058.2010.531327
- Eberhard-Gran, M., Slinning, K., & Eskild, A. (2008). Fear during labor: the impact of sexual abuse in adult life. *Journal of Psychosomatic Obstetrics and Gynaecology*, 29(4), 258–61. doi:10.1080/01674820802075998
- Ecker, J. L., Chen, K. T., Cohen, A. P., Riley, L. E., & Lieberman, E. S. (2001). Increased risk of cesarean delivery with advancing maternal age: indications and associated factors in nulliparous women. *American Journal of Obstetrics and Gynecology*, 185(4), 883–7. doi:10.1067/mob.2001.117364
- Edwards, G. J., & Davies, N. J. (2001). Elective caesarean section--the patient's choice? Journal of Obstetrics and Gynaecology: The Journal of the Institute of Obstetrics and Gynaecology, 21(2), 128–9. doi:10.1080/01443610020025994
- Einollahi, B., Tavallaii, S.-A., Bahaeloo-Horeh, S., Omranifard, V., Salehi-Rad, S., & Khoddami-Vishteh, H. R. (2009). Marital relationship and its correlates in kidney recipients. *Psychology, Health & Medicine*, 14(2), 162–9. doi:10.1080/13548500802183567
- Elferink-Stinkens, P., Brand, R., Amelink-Verburg, M., Merkus, J., den Ouden, A., & Van Hemel, O. (2002). Randomised clinical trial on the effect of the Dutch obstetric peer review system. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 102, 21–30.
- Eriksson, C., Westman, G., & Hamberg, K. (2006). Content of childbirth-related fear in Swedish women and men--analysis of an open-ended question. *Journal of Midwifery & Women's Health*, 51(2), 112–8. doi:10.1016/j.jmwh.2005.08.010

- Evanaki,j., Khakbazan,Z., Babaei, G.H & Noori, T. (2004). Reasons of choosing cesarean section as the delivery method by the pregnant women referred to health-treatment in Rasht. *Hayat, The Journal of Tehran Faculty of Nursing & Midwifery*, 10, 101.
- Faisal, I., Matinnia, N., Hejar, a R., & Khodakarami, Z. (2013). Why do primigravidae request caesarean section in a normal pregnancy? A qualitative study in Iran. *Midwifery*, 30(2), 227–233. doi:10.1016/j.midw.2013.08.011
- Faramarzi, M. (1999). Examination of cesarean prevalence and reasons in Babol city in Iran. *Journal of Medicine Sciences*, 1, 53–56.
- Farmer, D., Reddick, B., D'Agostino, R., & Jackson, S. A. (2007). Psychosocial correlates of mammography screening in older African American women. *Oncology Nursing Forum*, 34(1), 117–23. doi:10.1188/07.ONF.117-123
- Fawcett, J., Pollio, N., Tully, A., Baron, M., Henklein, J. C., & Jones, R. C. (1993). Effects of information on adaptation to cesarean birth. *Nursing Research*, 42(1), 49–53. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/8424068
- Feng, Xing Lin., Xu, Ling, Guo, Yan & Ronsmans, C. (2012). WHO | Factors influencing rising caesarean section rates in China between 1988 and 2008. *Bulletin of the World Health Organization* 2012;90:30-39A., 90, 30–39. Retrieved from http://www.who.int/bulletin/volumes/90/1/11-090399/en/
- Fenwick, J., Gamble, J., Creedy, D. K., Buist, A., Turkstra, E., Sneddon, A., ... Toohill, J. (2013). Study protocol for reducing childbirth fear: a midwife-led psychoeducation intervention. *BMC Pregnancy and Childbirth*, *13*(1), 190. doi:10.1186/1471-2393-13-190
- Fenwick, J., Gamble, J., Nathan, E., Bayes, S., & Hauck, Y. (2009). Pre- and postpartum levels of childbirth fear and the relationship to birth outcomes in a cohort of Australian women. *Journal of Clinical Nursing*, 18(5), 667–77. doi:10.1111/j.1365-2702.2008.02568.x
- Fenwick, J., Staff, L., Gamble, J., Creedy, D. K., & Bayes, S. (2010). Why do women request caesarean section in a normal, healthy first pregnancy? *Midwifery*, 26(4), 394–400. doi:10.1016/j.midw.2008.10.011
- Fisher, C., Hauck, Y., & Fenwick, J. (2006). How social context impacts on women's fears of childbirth: a Western Australian example. *Social Science & Medicine* (1982), 63(1), 64–75. doi:10.1016/j.socscimed.2005.11.065
- Gagnon, A. J. (2007). Individual or group antenatal education for childbirth/parenthood. *The Cochrane Database of Systematic Reviews*, (4), CD002869. doi:10.1002/14651858.CD002869

- Galloway, R. D. (2003). Health promotion: causes, beliefs and measurements. *Clinical Medicine & Research*, 1(3), 249–58. Retrieved from http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1069052&tool=pmcent rez&rendertype=abstract
- Gamble, J., Creedy, D. K., Mccourt, C., Weaver, J., & Beake, S. (2007). A Critique of the Literature on Women's Request for Cesarean Section, (December), 331–340.
- Gamble, J., Creedy, D., Moyle, W., Webster, J., McAllister, M., & Dickson, P. (2005). Effectiveness of a counseling intervention after a traumatic childbirth: a randomized controlled trial. *Birth (Berkeley, Calif.)*, 32(1), 11–9. doi:10.1111/j.0730-7659.2005.00340.x
- Ganji, F., Reisi, R., Khosravi, S., Soltani, P., Kasiri, K., jafar zade, L., ... Shojaee, H. (2006). Effect of a participatory intervention to reduce the number of unnecessary cesarean sections performed in Shahrekord, Iran. *Journal of Shahrekord University of Medical Sciences*, 8(1), 14–18. Retrieved from http://journal.skums.ac.ir/browse.php?a_code=A-10-8-25&slc_lang=en&sid=1
- Geissbuehler, V., & Eberhard, J. (2002). Fear of childbirth during pregnancy: A study of more than 8000 pregnant women. Retrieved from http://informahealthcare.com/doi/abs/10.3109/01674820209074677
- Getahun, D., Oyelese, Y., Salihu, H. M., & Ananth, C. V. (2006). Previous cesarean delivery and risks of placenta previa and placental abruption. *Obstetrics and Gynecology*, 107(4), 771–8. doi:10.1097/01.AOG.0000206182.63788.80
- Ghaffari, M., & Afshari, A. (2013). Application of Health Belief Model Forpredicting Delivery Method among Pregnant Women Ofsemirom: A Cross-Sectional Research. World Applied Sciences Journal, 22(4), 494–499. doi:10.5829/idosi.wasj.2013.22.04.402
- Glanz, K., Rimer, B. K., & Sharyn, M. S. (2005). *Theory at a Glance: A Guide for Health Promotion Practice | The Communication Initiative Network.* (2005 Croyle, Ed.) *United States National Cancer Institute* (National C., p. 60). USA. Retrieved from http://www.cancer.gov/cancertopics/cancerlibrary/theory.pdf
- Glanz, K., Rimer, B. K., & Viswanath, K. (2008). *HEALTH BEHAVIOR AND HEALTH EDUCATION theory, research, and practice* (4th ed.). San Francisco, CA: Jossey-Bass.
- Glynn, L. M., Schetter, C. D., Hobel, C. J., & Sandman, C. A. (2008). Pattern of perceived stress and anxiety in pregnancy predicts preterm birth. *Health Psychology: Official Journal of the Division of Health Psychology, American Psychological Association*, 27(1), 43–51. doi:10.1037/0278-6133.27.1.43

- Goodman, P., Mackey, M. C., & Tavakoli, A. S. (2004). Factors related to childbirth satisfaction. *Journal of Advanced Nursing*, 46(2), 212–9. doi:10.1111/j.1365-2648.2003.02981.x
- Green, J. M., & Baston, H. A. (2007a). Have women become more willing to accept obstetric interventions and does this relate to mode of birth? Data from a prospective study. *Birth* (*Berkeley, Calif.*), 34(1), 6–13. doi:10.1111/j.1523-536X.2006.00140.x
- Green, J. M., & Baston, H. A. (2007b). Have women become more willing to accept obstetric interventions and does this relate to mode of birth? Data from a prospective study. *Birth (Berkeley, Calif.)*, 34(1), 6–13. doi:10.1111/j.1523-536X.2006.00140.x
- Green, L., & Kreuter, M. (2004). *Health Program Planning: An Educational and Ecological Approach* (p. 600). McGraw-Hill Humanities/Social Sciences/Languages. Retrieved from http://www.amazon.com/Health-Program-Planning-Educational-Ecological/dp/0072556838
- Groenewold, G., de Bruijn, B., & Bilsborrow, R. (2006). Migration of the Health Belief Model (HBM): effects of psychosocial and migrant network characteristics on emigration intentions in five countries in West Africa and the Mediterranean region. In *Annual Meeting of the Population Association of America*. Los Angeles, California: [Unpublished] 2006. Presented at the 2006 Annual Meeting of the Population Association of America Los Angeles California March 30 April 1 2006.

 Retrieved from http://paa2006.princeton.edu/download.aspx?submissionId=60050
- Haines, H. M., Rubertsson, C., Pallant, J. F., & Hildingsson, I. (2012). The influence of women's fear, attitudes and beliefs of childbirth on mode and experience of birth. *BMC Pregnancy and Childbirth*, 12(1), 55. doi:10.1186/1471-2393-12-55
- Haines, H., Pallant, J. F., Karlström, A., & Hildingsson, I. (2011). Cross-cultural comparison of levels of childbirth-related fear in an Australian and Swedish sample. *Midwifery*, 27(4), 560–7. doi:10.1016/j.midw.2010.05.004
- Halford, W. K., & Petch, J. (2010). Couple psychoeducation for new parents: observed and potential effects on parenting. *Clinical Child and Family Psychology Review*, 13(2), 164–80. doi:10.1007/s10567-010-0066-z
- Hall, W. A., Hauck, Y. L., Carty, E. M., Hutton, E. K., Fenwick, J., & Stoll, K. (2009). Childbirth fear, anxiety, fatigue, and sleep deprivation in pregnant women. *Journal of Obstetric, Gynecologic, and Neonatal Nursing : JOGNN / NAACOG*, *38*(5), 567–76. doi:10.1111/j.1552-6909.2009.01054.x

- Ham, O. K. (2006). Factors affecting mammography behavior and intention among Korean women. *Oncology Nursing Forum*, *33*(1), 113–9. doi:10.1188/06.ONF.113-119
- Heimstad, R., Dahloe, R., Laache, I., Skogvoll, E., & Schei, B. (2006). Fear of childbirth and history of abuse: implications for pregnancy and delivery. *Acta Obstetricia et Gynecologica Scandinavica*, 85(4), 435–40. doi:10.1080/00016340500432507
- Helk, A., Spilling, H. S., & Aarhus Smeby, N. (2008). Psychosocial support by midwives of women with fear of childbirth. *Vård I Norden*, 28(2), 47–49.
- Hemminki, E., Heikkilä, K., Sevón, T., & Koponen, P. (2008). Special features of health services and register based trials experiences from a randomized trial of childbirth classes. *BMC Health Services Research*, 8, 126. doi:10.1186/1472-6963-8-126
- Hildingsson, I. (2008). How much influence do women in Sweden have on caesarean section? A follow-up study of women's preferences in early pregnancy. *Midwifery*, 24(1), 46–54. doi:10.1016/j.midw.2006.07.007
- Hildingsson, I., Nilsson, C., Karlström, A., & Lundgren, I. (2011). A longitudinal survey of childbirth-related fear and associated factors. *Journal of Obstetric, Gynecologic, and Neonatal Nursing: JOGNN / NAACOG*, 40(5), 532–43. doi:10.1111/j.1552-6909.2011.01274.x
- Hildingsson, I., Radestad, I., Rubertsson, C., & Waldenstrom, U. (2002). Few women wish to be delivered by caesarean section. *BJOG: An International Journal of Obstetrics and Gynaecology*, 109(6), 618–623. doi:10.1111/j.1471-0528.2002.01393.x
- Hodnett, E. D., Gates, S., Hofmeyr, G. J., & Sakala, C. (2003). Continuous support for women during childbirth. *The Cochrane Database of Systematic Reviews*, (3), CD003766. doi:10.1002/14651858.CD003766
- Hofberg, K., & Brockington, I. (2000). Tokophobia: an unreasoning dread of childbirth.

 A series of 26 cases. *The British Journal of Psychiatry: The Journal of Mental Science*, 176, 83–5. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/10789333
- Hofberg, K., & Ward, M. R. (2003). Fear of pregnancy and childbirth. *Postgraduate Medical Journal*, 79(935), 505–10, quiz 508–10. Retrieved from http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1742837&tool=pmcent rez&rendertype=abstract
- Hollist, C. S., & Miller, R. B. (2005). Perceptions of Attachment Style and Marital Quality in Midlife Marriage*. *Family Relations*, *54*(1), 46–57. doi:10.1111/j.0197-6664.2005.00005.x

- HospitalL Episode Statistics. (2011). NHS Maternity Statistics.
- Ip, W.-Y., Tang, C. S., & Goggins, W. B. (2009). An educational intervention to improve women's ability to cope with childbirth. *Journal of Clinical Nursing*, 18(15), 2125–35. doi:10.1111/j.1365-2702.2008.02720.x
- Isanezhad, O., Ahmadi, S., & Farajzadegan, Z. (2012). Factor Structure and Reliability of the Revised Dyadic Adjustment Scale (RDAS) in Iranian Population, 6(2), 55–61.
- Jamtvedt, G., Young, J. M., Kristoffersen, D. T., Thomson O'Brien, M. A., & Oxman, A. D. (2006). Audit and feedback: effects on professional practice and health care outcomes. *The Cochrane Database of Systematic Reviews*, (3), CD000259. doi:10.1002/14651858.CD000259
- Janz, N. K., & Becker, M. H. (1984). The Health Belief Model: a decade later. *Health Education Quarterly*, 11(1), 1–47. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/6392204
- Janz, N. K., Champion, V. L., & Strecher, V. J. (2002). The Health Belief Model. In K. Glanz, B.K. Rimer, & F.M. Lewis (Eds.), Health Behavior and Health Education: Theory, Research, and Practice (3rd Editio., pp. (pp.45–66).). San Francisco, CA 2002: Jossey-Bass. Retrieved from ihepsa.com/files/h1.pdf
- Johanson, R. B., El-Timini, S., Rigby, C., Young, P., & Jones, P. (2001). Caesarean section by choice could fulfil the inverse care law. *European Journal of Obstetrics, Gynecology, and Reproductive Biology*, *97*(1), 20–2. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/11435002
- Johnson, R., & Slade, P. (2002). Does fear of childbirth during pregnancy predict emergency caesarean section? *BJOG: An International Journal of Obstetrics and Gynaecology*, 109(11), 1213–21. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12452457
- Juárez-carrillo, P. M. (2011). Comparison of Two Environmental Health Education Methods to Reduce Exposure to Residential Pesticides in Hispanic Households in the U.S.-MÉXICO BORDERLAND. The University of Texas at El Paso.
- Kaczmarczyk, M., Sparén, P., Terry, P., & Cnattingius, S. (2007). Risk factors for uterine rupture and neonatal consequences of uterine rupture: a population-based study of successive pregnancies in Sweden. *BJOG: An International Journal of Obstetrics and Gynaecology*, 114(10), 1208–14. doi:10.1111/j.1471-0528.2007.01484.x
- Kamath, B. D., Todd, J. K., Glazner, J. E., Lezotte, D., & Lynch, A. M. (2009). Neonatal outcomes after elective cesarean delivery. *Obstetrics and Gynecology*, *113*(6), 1231–8. doi:10.1097/AOG.0b013e3181a66d57

- Kasai, K. E., Nomura, R. M. Y., Benute, G. R. G., de Lucia, M. C. S., & Zugaib, M. (2010). Women's opinions about mode of birth in Brazil: a qualitative study in a public teaching hospital. *Midwifery*, 26(3), 319–26. doi:10.1016/j.midw.2008.08.001
- Katapodi, M. C., Lee, K. A., Facione, N. C., & Dodd, M. J. (2004). Predictors of perceived breast cancer risk and the relation between perceived risk and breast cancer screening: a meta-analytic review. *Preventive Medicine*, *38*(4), 388–402. doi:10.1016/j.ypmed.2003.11.012
- Khorsandi, M., Ghofranipour, F., Hidarnia, a., Faghihzadeh, S., & Ghobadzadeh, M. (2012). The Effect of PRECEDE PROCEED Model Combined with the Health Belief Model and the Theory of Self-Efficacy to Increase Normal Delivery Among Nulliparous Women. *Procedia Social and Behavioral Sciences*, 46(4), 187–194. doi:10.1016/j.sbspro.2012.05.091
- Khosravy, F., Shahoei, R., Hashemi Nasab, L., Ranaei, F., & Abdolahi, M. (2013). Fears associated with Pregnancy and Childbirth among Kurdish Women in Iran. *Life Science Journal*, 10(25), 367–373.
- Khunpradit, S., Tavender, E., Lumbiganon, P., Laopaiboon, M., Wasiak, J., & Gruen, R. L. (2011). Non-clinical interventions for reducing unnecessary caesarean section. *The Cochrane Database of Systematic Reviews*, (6), CD005528. doi:10.1002/14651858.CD005528.pub2
- Kiehl, E. M., & White, M. A. (2003). Maternal adaptation during childbearing in Norway, Sweden and the United States. *Scandinavian Journal of Caring Sciences*, 17(2), 96–103. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12753509
- Kingdon, C., Hons, B. A., Baker, L., Studies, D., & Lavender, T. (2006). Systematic Review of Nulliparous Women 's Views of Planned Cesarean Birth: The Missing Component in the Debate about a Term Cephalic Trial. *Birth*, 33(3), 229–237.
- Kinzie, M. B. (2005). Instructional design strategies for health behavior change. *Patient Education and Counseling*, *56*(1), 3–15. doi:10.1016/j.pec.2004.02.005
- Kjærgaarda, H., Wijma, K., Dykesc, A.-K., & Alehagend, S. (2008). Fear of childbirth in obstetrically low-risk nulliparous women in Sweden and Denmark. *Journal of Reproductive and Infant Psychology*, 26(4), 340–350. Retrieved from http://www.tandfonline.com/doi/pdf/10.1080/02646830802408498
- Klossner, N. J. (2006). *Introductory Maternity Nursing, Volume 1* (p. 614). Lippincott Williams & Wilkins. Retrieved from http://books.google.com/books?id=B47OVg25g-QC&pgis=1

- Kolås, T., Hofoss, D., Daltveit, A. K., Nilsen, S. T., Henriksen, T., Häger, R., ... Øian, P. (2003). Indications for cesarean deliveries in Norway. *American Journal of Obstetrics and Gynecology*, 188(4), 864–70. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12712077
- Kolip, P., & Büchter, R. (2009). Involvement of first-time mothers with different levels of education in the decision making for their delivery by a planned Cesarean section A cross-sectional study. *Journal of Public Health*, *17*, 280. Retrieved from http://pub.uni-bielefeld.de/publication/1939723
- Koroukian, S. M. (2004). Relative risk of postpartum complications in the Ohio Medicaid population: vaginal versus cesarean delivery. *Medical Care Research and Review: MCRR*, 61(2), 203–24. doi:10.1177/1077558703260123
- Kundra, P., Khanna, S., Habeebullah, S., & Ravishankar, M. (2007). Manual displacement of the uterus during Caesarean section. *Anaesthesia*, 62(5), 460–5. doi:10.1111/j.1365-2044.2007.05025.x
- Kwee, A., Cohlen, B. J., Kanhai, H. H. H., Bruinse, H. W., & Visser, G. H. a. (2004). Caesarean section on request: a survey in The Netherlands. *European Journal of Obstetrics, Gynecology, and Reproductive Biology*, 113(2), 186–90. doi:10.1016/j.ejogrb.2003.09.017
- Lara, M. A., Navarro, C., & Navarrete, L. (2010). Outcome results of a psychoeducational intervention in pregnancy to prevent PPD: A randomized control trial. *Journal of Affective Disorders*, 122(1), 109–117. Retrieved from http://www.sciencedirect.com/science/article/pii/S0165032709002742
- Lauer, J. A., Betrán, A. P., Merialdi, M., & Wojdyla, D. (2010). Determinants of caesarean section rates in developed countries: supply, demand and opportunities for control.
- Laursen, M., Hedegaard, M., & Johansen, C. (2008). Fear of childbirth: predictors and temporal changes among nulliparous women in the Danish National Birth Cohort. BJOG: An International Journal of Obstetrics and Gynaecology, 115(3), 354–60. doi:10.1111/j.1471-0528.2007.01583.x
- Lederman, R., & Weis, K. (2009). *Psychosocial Adaptation to Pregnancy: Seven Dimensions of Maternal Role Development* (p. 324). Springer. Retrieved from http://books.google.com.my/books/about/Psychosocial_Adaptation_to_Pregnancy.html?id=qc7YjwEACAAJ&pgis=1
- Lee, A. S. M., & Kirkham, M. (2008). Disciplinary discourses: rates of cesarean section explained by medicine, midwifery, and feminism. *Health Care for Women International*, 29(5), 448–67. doi:10.1080/07399330801949574

- Lee, S.-I., Khang, Y.-H., & Lee, M.-S. (2004). Women's attitudes toward mode of delivery in South Korea--a society with high cesarean section rates. *Birth (Berkeley, Calif.)*, 31(2), 108–16. doi:10.1111/j.0730-7659.2004.00288.x
- Lee, Y. M., & D'Alton, M. E. (2008). Cesarean delivery on maternal request: the impact on mother and newborn. *Clinics in Perinatology*, 35(3), 505–18, x. doi:10.1016/j.clp.2008.07.006
- Leone, T., Padmadas, S. S., & Matthews, Z. (2008). Community factors affecting rising caesarean section rates in developing countries: an analysis of six countries. *Social Science & Medicine* (1982), 67(8), 1236–46. doi:10.1016/j.socscimed.2008.06.032
- Lin, H.-C., & Xirasagar, S. (2005). Maternal age and the likelihood of a maternal request for cesarean delivery: a 5-year population-based study. *American Journal of Obstetrics and Gynecology*, 192(3), 848–55. doi:10.1016/j.ajog.2004.09.133
- Littleton, L. Y., & Engebretson, J. (2002). *Maternal, Neonatal, and Women's Health Nursing* (p. 1341). Cengage Learning. Retrieved from http://books.google.com/books?id=9_pPwUWFpzgC&pgis=1
- Liu, S., Heaman, M., Joseph, K. S., Liston, R. M., Huang, L., Sauve, R., & Kramer, M. S. (2005). Risk of maternal postpartum readmission associated with mode of delivery. *Obstetrics and Gynecology*, 105(4), 836–42. doi:10.1097/01.AOG.0000154153.31193.2c
- Liu, S., Liston, R. M., Joseph, K. S., Heaman, M., Sauve, R., & Kramer, M. S. (2007). Maternal mortality and severe morbidity associated with low-risk planned cesarean delivery versus planned vaginal delivery at term. *CMAJ: Canadian Medical Association Journal = Journal de l'Association Medicale Canadienne*, 176(4), 455–60. doi:10.1503/cmaj.060870
- Liu, T.-C., Chen, C.-S., & Lin, H.-C. (2008). Does elective caesarean section increase utilization of postpartum maternal medical care? *Medical Care*, 46(4), 440–3. doi:10.1097/MLR.0b013e31816493e9
- Lo, J. C. (2003). Patients' attitudes vs. physicians' determination: implications for cesarean sections. *Social Science & Medicine* (1982), 57(1), 91–6. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12753818
- Loto, O. M., Adewuya, A. O., Ajenifuja, O. K., Orji, E. O., Owolabi, A. T., & Ogunniyi, S. O. (2009). The effect of caesarean section on self-esteem amongst primiparous women in South-Western Nigeria: a case-control study. *The Journal of Maternal-Fetal & Neonatal Medicine: The Official Journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*, 22(9), 765–9. doi:10.3109/14767050902801660

- Lukasse, M., Vangen, S., Øian, P., Kumle, M., Ryding, E. L., & Schei, B. (2010). Childhood abuse and fear of childbirth--a population-based study. *Birth (Berkeley, Calif.)*, 37(4), 267–74. doi:10.1111/j.1523-536X.2010.00420.x
- Lumbiganon, P., Laopaiboon, M., Gülmezoglu, A. M., Souza, J. P., Taneepanichskul, S., Ruyan, P., ... Villar, J. (2010). Method of delivery and pregnancy outcomes in Asia: the WHO global survey on maternal and perinatal health 2007–08. *The Lancet*, 375(9713), 490–499. Retrieved from http://www.sciencedirect.com/science/article/pii/S0140673609618705
- Lydon-Rochelle, M.Holt, V.Martin, D.& Easterling, T. (2000). RISK OF UTERINE RUPTURE DURING LABOR AMONG WOMEN WITH A PRIOR CESAREAN DELIVERY. *Journal of the American Medical Association*, 283(4), 2411–2416.
- MacDorman, M. F., Declercq, E., Menacker, F., & Malloy, M. H. (2006). Infant and neonatal mortality for primary cesarean and vaginal births to women with "no indicated risk," United States, 1998-2001 birth cohorts. *Birth (Berkeley, Calif.)*, 33(3), 175–82. doi:10.1111/j.1523-536X.2006.00102.x
- MacDorman, M. F., Menacker, F., & Declercq, E. (2008). Cesarean birth in the United States: epidemiology, trends, and outcomes. *Clinics in Perinatology*, 35(2), 293–307, v. doi:10.1016/j.clp.2008.03.007
- Maneesriwongul, W., & Dixon, J. K. (2004). Instrument translation process: a methods review. *Journal of Advanced Nursing*, 48(2), 175–86. doi:10.1111/j.1365-2648.2004.03185.x
- Manesh, M. J., Jouybari, L., Oskouie, S. F., & Sanagoo, A. (2011). How do Women 's Decisions Process to Elective Cesarean?: A Qualitative Study, 5(6), 210–215.
- McCaffery, K., Irwig, L., & Bossuyt, P. (2007). Patient decision aids to support clinical decision making: evaluating the decision or the outcomes of the decision. *Medical Decision Making: An International Journal of the Society for Medical Decision Making*, 27(5), 619–25. doi:10.1177/0272989X07306787
- McClenahan, C., Shevlin, M., Adamson, G., Bennett, C., & O'Neill, B. (2007). Testicular self-examination: a test of the health belief model and the theory of planned behaviour. *Health Education Research*, 22(2), 272–84. doi:10.1093/her/cyl076
- McCourt, C., Weaver, J., Statham, H., Beake, S., Gamble, J., & Creedy, D. K. (2007). Elective cesarean section and decision making: a critical review of the literature. *Birth (Berkeley, Calif.)*, 34(1), 65–79. doi:10.1111/j.1523-536X.2006.00147.x
- McFarlin, B. L. (2004). Elective cesarean birth: issues and ethics of an informed decision. *Journal of Midwifery & Women's Health*, 49(5), 421–9. doi:10.1016/j.jmwh.2004.05.010

- Mehdizadeh, A., Roosta, F., Chaichian, S., & Alaghehbandan, R. (2005). Evaluation of the impact of birth preparation courses on the health of the mother and the newborn. *American Journal of Perinatology*, 22(1), 7–9. doi:10.1055/s-2004-837738
- Meikle, S. F., Steiner, C. A., Zhang, J., & Lawrence, W. L. (2005). A national estimate of the elective primary cesarean delivery rate. *Obstetrics and Gynecology*, 105(4), 751–6. doi:10.1097/01.AOG.0000157435.67138.78
- Melender, H.-L. (2002). Experiences of fears associated with pregnancy and childbirth: a study of 329 pregnant women. *Birth (Berkeley, Calif.)*, 29(2), 101–11. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12051188
- Michaluk, C. R. A. (2011). Having an Elective Cesarean Section: Doing What's Best.
- Minkler, M., & Hancock.T. (2005). Community Organizing and Community Building for Health Minkler, M. and T. Hancock. 2003. Community-driven asset identification and issue selection. In M. Minkler and N. Wallerstein (Eds.) Community-Based Participatory Research for Health (p. (pp. 135–154)). San Francisco: Rutgers University Press. Retrieved from http://books.google.com/books?id=uvRtGOvWyuwC&pgis=1
- Minkoff, H., & Chervenak, F. A. (2003). Elective primary cesarean delivery. *The New England Journal of Medicine*, 348(10), 946–50. doi:10.1056/NEJMsb022734
- Moini, A., Riazi, K., Ebrahimi, A., & Ostovan, N. (2007). Caesarean section rates in teaching hospitals of Tehran: 1999-2003. *Eastern Mediterranean Health Journal* = La Revue de Santé de La Méditerranée Orientale = Al-Majallah Al-Ṣiḥḥīyah Li-Sharq Al-Mutawassiţ, 13(2), 457–60. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/17684866
- Montgomery, A. A., Emmett, C. L., Fahey, T., Jones, C., Ricketts, I., Patel, R. R., ... Murphy, D. J. (2007). Two decision aids for mode of delivery among women with previous caesarean section: randomised controlled trial. *BMJ (Clinical Research Ed.)*, 334(7607), 1305. doi:10.1136/bmj.39217.671019.55
- Nadeem, E., Whaley, S. E., & Anthony, S. (2006). Characterizing low-income Latina adolescent mothers: living arrangements, psychological adjustment, and use of services. *The Journal of Adolescent Health: Official Publication of the Society for Adolescent Medicine*, 38(1), 68–71. doi:10.1016/j.jadohealth.2005.01.013
- Nations, U. (2013). *The Millennium Development Goals Report*. New York, NY. Retrieved from http://www.un.org/millenniumgoals/pdf/report-2013/mdg-report-2013-english.pdf
- Nejad, L. M. (2005). Comparison of the Health Belief Model and the Theory of Planned Behaviour in the Prediction of Dieting and Fasting Behaviour., *I*(1), 63–74.

- Nerum, H., Halvorsen, L., Sørlie, T., & Oian, P. (2006). Maternal request for cesarean section due to fear of birth: can it be changed through crisis-oriented counseling? *Birth (Berkeley, Calif.)*, 33(3), 221–8. doi:10.1111/j.1523-536X.2006.00107.x
- Neuhaus, W., Scharkus, S., Hamm, W., & Bolte, A. (1994). Prenatal expectations and fears in pregnant women. *Journal of Perinatal Medicine*, 22(5), 409–414. Retrieved from http://cat.inist.fr/?aModele=afficheN&cpsidt=3467445
- Nieminen, K., Stephansson, O., & Ryding, E. L. (2009). Women's fear of childbirth and preference for cesarean section--a cross-sectional study at various stages of pregnancy in Sweden. *Acta Obstetricia et Gynecologica Scandinavica*, 88(7), 807–13. doi:10.1080/00016340902998436
- NIH. (2006). NIH State-of-the-Science Conference Statement on cesarean delivery on maternal request. *NIH Consensus and State-of-the-Science Statements*, 23(1), 1–29. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/17308552
- Niino, Y. (2011). The increasing cesarean rate globally and what we can do about it, 5(11), 139–150. doi:10.5582/bst.2011.v5.4.139
- Nilsson, C., Bondas, T., & Lundgren, I. (2010). Previous birth experience in women with intense fear of childbirth. *Journal of Obstetric, Gynecologic, and Neonatal Nursing: JOGNN / NAACOG*, 39(3), 298–309. doi:10.1111/j.1552-6909.2010.01139.x
- Nilsson, C., & Lundgren, I. (2009). Women's lived experience of fear of childbirth. *Midwifery*, 25(2), e1–9. doi:10.1016/j.midw.2007.01.017
- Nilsson, C., Lundgren, I., Karlström, A., & Hildingsson, I. (2012). Self reported fear of childbirth and its association with women's birth experience and mode of delivery: a longitudinal population-based study. *Women and Birth: Journal of the Australian College of Midwives*, 25(3), 114–21. doi:10.1016/j.wombi.2011.06.001
- Noar, S. M., & Zimmerman, R. S. (2005). Health Behavior Theory and cumulative knowledge regarding health behaviors: are we moving in the right direction? *Health Education Research*, 20(3), 275–90. doi:10.1093/her/cyg113
- Ny, P., Dejin-Karlsson, E., Udén, G., & Greiner, T. (2006). Health education to prevent anemia among women of reproductive age in southern India. *Health Care for Women International*, 27(2), 131–44. doi:10.1080/07399330500457945
- Odendaal, H., Human, M., Groenewald, G., & Bavanisha, V. (2011). Effects of maternal stress and anxiety during pregnancy on the fetus. *Obstetrics and Gynaecology Forum*, 21(1). doi:10.4314/ogf.v21i1.64380

- Otley, H. (2011). Fear of childbirth: Understanding the causes, impact and treatment. *British Journal of Midwifery, Vol. 19, Iss. 4, 05 Apr 2011, Pp 215 220, 19*(4), 215–220. Retrieved from http://www.britishjournalofmidwifery.com/cgi-bin/go.pl/library/article.html?uid=83059
- Painter, J. E., Borba, C. P. C., Hynes, M., Mays, D., & Glanz, K. (2008). The use of theory in health behavior research from 2000 to 2005: a systematic review. *Annals of Behavioral Medicine: A Publication of the Society of Behavioral Medicine*, 35(3), 358–62. doi:10.1007/s12160-008-9042-y
- Pakenham, S., Chamberlain, S., Smith, G. (2006). Women's Views of Elective Primary Caesarean Section. *Journal of Obstetrics and Gynaecology Canada*, 28, 1089–94.
- Pallasmaa, N., Ekblad, U., & Gissler, M. (2008). Severe maternal morbidity and the mode of delivery. *Acta Obstetricia et Gynecologica Scandinavica*, 87(6), 662–8. doi:10.1080/00016340802108763
- Pang, M. W., Leung, T. N., Lau, T. K., & Hang Chung, T. K. (2008). Impact of first childbirth on changes in women's preference for mode of delivery: follow-up of a longitudinal observational study. *Birth (Berkeley, Calif.)*, 35(2), 121–8. doi:10.1111/j.1523-536X.2008.00225.x
- Park, C. S., Yeoum, S. G., & Choi, E. S. (2005). Study of subjectivity in the perception of cesarean birth. *Nursing & Health Sciences*, 7(1), 3–8. doi:10.1111/j.1442-2018.2005.00206.x
- Parsa, P., Kandiah, M., Mohd Zulkefli, N. A., & Rahman, H. A. (2008). Knowledge and behavior regarding breast cancer screening among female teachers in Selangor, Malaysia. *Asian Pacific Journal of Cancer Prevention: APJCP*, 9(2), 221–7. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/18712963
- Petro-Nustus, W., & Mikhail, B. I. (2002). Factors associated with breast self-examination among jordanian women. *Public Health Nursing (Boston, Mass.)*, 19(4), 263–71. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12071900
- Pour Reza, M. (2007). Worry about Rising Caesarean Rate in Iran. Retrieved from www.iranianuk.com/article.php? Id=11939? 95
- Prochaska, J. O., & Velicer, W. F. (1997). The transtheoretical model of health behavior change. *American Journal of Health Promotion: AJHP*, 12(1), 38–48. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/10170434
- Rosenstock, I. M. (1966). Why People Use Health Services by Irwin M. Rosenstock. *The Milbank Memorial Fund Quarterly*, 44(3), 94–124. Retrieved from http://www.scribd.com/doc/43340884/Why-People-Use-Health-Services-by-Irwin-M-Rosenstock

- Rouhe, H., Salmela-Aro, K., Gissler, M., Halmesmäki, E., & Saisto, T. (2011). Mental health problems common in women with fear of childbirth. *BJOG: An International Journal of Obstetrics and Gynaecology*, 118(9), 1104–11. doi:10.1111/j.1471-0528.2011.02967.x
- Rouhe, H., Salmela-Aro, K., Halmesmäki, E., & Saisto, T. (2009). Fear of childbirth according to parity, gestational age, and obstetric history. *BJOG: An International Journal of Obstetrics and Gynaecology*, 116(1), 67–73. doi:10.1111/j.1471-0528.2008.02002.x
- Rouhe, H., Salmela-Aro, K., Toivanen, R., Tokola, M., Halmesmäki, E., & Saisto, T. (2013). Obstetric outcome after intervention for severe fear of childbirth in nulliparous women randomised trial. *BJOG*: An International Journal of Obstetrics and Gynaecology, 120(1), 75–84. doi:10.1111/1471-0528.12011
- Rowlands, I. J., & Redshaw, M. (2012). Mode of birth and women's psychological and physical wellbeing in the postnatal period. *BMC Pregnancy and Childbirth*, 12(1), 138. doi:10.1186/1471-2393-12-138
- Ruiz, R. J., & Avant, K. C. (2005). Effects of maternal prenatal stress on infant outcomes: a synthesis of the literature. *ANS. Advances in Nursing Science*, 28(4), 345–55. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/16292020
- Ryding, E. L., Wirfelt, E., Wängborg, I.-B., Sjögren, B., & Edman, G. (2007). Personality and fear of childbirth. *Acta Obstetricia et Gynecologica Scandinavica*, 86(7), 814–20. doi:10.1080/00016340701415079
- Ryding EL, Persson A, Onell C, K. L. (2003). An evaluation of midwives' counseling of pregnant women in fear of childbirth. *Acta Obstet Gynecol Scand*, 80(1), 10–17.
- Saisto, T. ., & Halmesmäki, E. (2003). Fear of childbirth: a neglected dilemma. *Acta Obstetricia et Gynecologica Scandinavica*, 82(3), 201–8. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/12694113
- Saisto, T., Salmela-Aro, K., Nurmi, J. E., & Halmesmäki, E. (2001). Psychosocial characteristics of women and their partners fearing vaginal childbirth. *BJOG: An International Journal of Obstetrics and Gynaecology*, 108(5), 492–8. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/11368135
- Saisto, T., Salmela-Aro, K., Nurmi, J. E., Könönen, T., & Halmesmäki, E. (2001). A randomized controlled trial of intervention in fear of childbirth. *Obstetrics and Gynecology*, 98(5 Pt 1), 820–6. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/11704175
- Saisto, T., Toivanen, R., Salmela-Aro, K., & Halmesmäki, E. (2006). Therapeutic group psychoeducation and relaxation in treating fear of childbirth. *Acta Obstetricia et Gynecologica Scandinavica*, 85(11), 1315–9. doi:10.1080/00016340600756920

- Saisto, T., Ylikorkala, O., & Halmesmäki, E. (1999). Factors associated with fear of delivery in second pregnancies. *Obstetrics and Gynecology*, 94(5 Pt 1), 679–82. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/10546709
- Salomonsson, B. (2012). Fear is in the air Midwives' perspectives of fear of childbirth and childbirth self-ef cacy and fear of childbirth in nulliparous pregnant women. Linköping university.
- Sarason, I. G., Sarason, B. R., & Pierce, G. R. (1994). Social Support: Global and Relationship-Based Levels of Analysis. *Journal of Social and Personal Relationships*, 11(2), 295–312. doi:10.1177/0265407594112008
- Sawyer, A., Ayers, S., & Smith, H. (2010). Pre- and postnatal psychological wellbeing in Africa: A systematic review. *Journal of Affective Disorders*, 123(1), 17–29. Retrieved from http://www.sciencedirect.com/science/article/pii/S0165032709002870
- Scioscia, M., Vimercati, A., Cito, L., Chironna, E., Scattarella, D., & Selvaggi, L. E. (2008). Social determinants of the increasing caesarean section rate in Italy. *Minerva Ginecologica*, 60(2), 115–20. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/18487961
- Sedlak, C. A., Doheny, M. O., Estok, P. J., & Zeller, R. A. (2005). Tailored interventions to enhance osteoporosis prevention in women. *Orthopaedic Nursing / National Association of Orthopaedic Nurses*, 24(4), 270–6; quiz 277–8. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/16056171
- Serçekuş, P., & Okumuş, H. (2009). Fears associated with childbirth among nulliparous women in Turkey. *Midwifery*, 25(2), 155–62. doi:10.1016/j.midw.2007.02.005
- Shahoei, R., Riji, H. M., & Saeedi, Z. A. (2011). "Safe passage": pregnant Iranian Kurdish women's choice of childbirth method. *Journal of Advanced Nursing*, 67(10), 2130–8. doi:10.1111/j.1365-2648.2011.05656.x
- Shamsi, M., Bayati, A., Mohamadbeygi, A., & Tajik, R. (2004). The Effect of Educational Program Based on Health Belief Model (HBM) on Preventive Behavior of Self-Medication in Woman with Pregnancy in Arak, Iran. *Pajoohandeh Journal*, 14(6), 324–331. Retrieved from http://pajoohande.sbmu.ac.ir/browse.php?a_code=A-10-1-615&slc_lang=en&sid=1
- Sharma, M., & Romas, J. A. (2011). *Theoretical Foundations of Health Education and Health Promotion* (p. 302). London: Jones & Bartlett Learning. Retrieved from http://books.google.com/books?id=_lDt2Z6Ifx4C&pgis=1
- Shorten, A., Shorten, B., Keogh, J., West, S., & Morris, J. (2005). Making choices for childbirth: a randomized controlled trial of a decision-aid for informed birth after

- cesarean. *Birth (Berkeley, Calif.)*, *32*(4), 252–61. doi:10.1111/j.0730-7659.2005.00383.x
- Sieger, K., & Renk, K. (2007). Pregnant and Parenting Adolescents: A Study of Ethnic Identity, Emotional and Behavioral Functioning, Child Characteristics, and Social Support. *Journal of Youth and Adolescence*, 36(4), 567–581. doi:10.1007/s10964-007-9182-6
- Signore, Caroline and Klebanoff, M. (2009). Neonatal Morbidity and Mortality After Elective Cesarean Delivery. *Clin Perinatol*, *35*(2), 361–372.
- Simpson, K. R., & Thorman, K. E. (2005). Obstetric "conveniences": elective induction of labor, cesarean birth on demand, and other potentially unnecessary interventions. *The Journal of Perinatal & Neonatal Nursing*, 19(2), 134–44. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/15923963
- Sjögren, B., & Thomassen, P. (1997). Obstetric outcome in 100 women with severe anxiety over childbirth. *Acta Obstetricia et Gynecologica Scandinavica*, 76(10), 948–52. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/9435734
- Smith, G. C. S., Pell, J. P., & Dobbie, R. (2003). Caesarean section and risk of unexplained stillbirth in subsequent pregnancy. *Lancet*, *362*(9398), 1779–84. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/14654315
- Söderquist, J., Wijma, B., Thorbert, G., & Wijma, K. (2009). Risk factors in pregnancy for post-traumatic stress and depression after childbirth. *BJOG: An International Journal of Obstetrics and Gynaecology*, 116(5), 672–80. doi:10.1111/j.1471-0528.2008.02083.x
- Spaeth, T. (2010). The rise of cesarean sections, (July), 46–53.
- Stanton, C. K., & Holtz, S. A. (2006). Levels and trends in cesarean birth in the developing world. *Studies in Family Planning*, *37*(1), 41–8. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/16570729
- Storksen, H. T., Eberhard-Gran, M., Garthus-Niegel, S., & Eskild, A. (2012). Fear of childbirth; the relation to anxiety and depression. *Acta Obstetricia et Gynecologica Scandinavica*, *91*(2), 237–42. doi:10.1111/j.1600-0412.2011.01323.x
- Streiner, D. L., & Norman, G. R. (2008). *Health Measurement Scales: A practical guide to their development and use* (p. 452). London: OUP Oxford. Retrieved from http://www.amazon.co.uk/Health-Measurement-Scales-practical-development/dp/0199231885
- Stretcher, V. J., & Champion, V L., Rosenstock, I. M. (1997). *The health belief model and health behavior. Handbook of health behavior research.* (I. D. S. Goschman, Ed.) (Plenum Pre., p. (Vol. 1, pp. 71–91)). New York, NY.

- Stretcher, V J., Champion, V L., & Rosenstock, I. M. (n.d.). *The health belief model and health behavior.*, *Handbook of health behavior research.* (In D. S. Goschman (Ed.), Ed.) (p. (71–91).). New York, NY: Plenum Press.
- Tabachnick, B. G., & Fidell, L. S. (2007). *Using Multivariate Statistics*. (S. Hartman, Ed.) (Fifth., pp. 258–259, 269). Nortridge, USA: Pearson Education.
- Torkzahrani, S. (2008). Commentary: childbirth education in iran. *The Journal of Perinatal Education*, 17(3), 51–4. doi:10.1624/105812408X329601
- Tracy, S. K., & Tracy, M. B. (2003). Costing the cascade: estimating the cost of increased obstetric intervention in childbirth using population data. *BJOG: An International Journal of Obstetrics and Gynaecology*, 110(8), 717–724. doi:10.1111/j.1471-0528.2003.02045.x
- Trillingsgaard, T., Elklit, A., Shevlin, M., & Maimburg, R. D. (2011). Adult attachment at the transition to motherhood: predicting worry, health care utility and relationship functioning. *Journal of Reproductive and Infant Psychology*, 29(4), 354–363. doi:10.1080/02646838.2011.611937
- Villar, J., Valladares, E., Wojdyla, D., Zavaleta, N., Carroli, G., Velazco, A., ... Acosta, A. (2006). Caesarean delivery rates and pregnancy outcomes: the 2005 WHO global survey on maternal and perinatal health in Latin America. *Lancet*, 367(9525), 1819–29. doi:10.1016/S0140-6736(06)68704-7
- Visco, A. (2006). NIH State-of-the-Science Conference: Possible Pathways for Planned Vaginal and Planned Cesarean Deliveries.
- Viswanathan, M. (2006). Incidence and Trends of Cesarean Delivery on Maternal Request. In *NIH State-of-the-Science Conference: Cesarean Delivery on Maternal Request* (pp. 23–24). Retrieved from http://consensus.nih.gov/2006/cesareanabstracts.pdf
- Waldenström, U. (2007). Normal childbirth and evidence based practice. Women and Birth: Journal of the Australian College of Midwives, 20(4), 175–80. doi:10.1016/j.wombi.2007.08.004
- Waldenström, U., Hildingsson, I., & Ryding, E. L. (2006). Antenatal fear of childbirth and its association with subsequent caesarean section and experience of childbirth. *BJOG: An International Journal of Obstetrics and Gynaecology*, 113(6), 638–46. doi:10.1111/j.1471-0528.2006.00950.x
- Walker, R., Turnbull, D., & Wilkinson, C. (2004). Increasing cesarean section rates: exploring the role of culture in an Australian community. *Birth (Berkeley, Calif.)*, 31(2), 117–24. doi:10.1111/j.0730-7659.2004.00289.x

- Wax, J. R., Cartin, A., Pinette, M. G., & Blackstone, J. (2005). Patient Choice Cesarean-The Maine Experience. *Birth*, *32*(3), 203–206. doi:10.1111/j.1523-536X.2005.370_1.x
- Weaver, J. J., Statham, H., & Richards, M. (2007). Are there "unnecessary" cesarean sections? Perceptions of women and obstetricians about cesarean sections for nonclinical indications. *Birth (Berkeley, Calif.)*, 34(1), 32–41. doi:10.1111/j.1523-536X.2006.00144.x
- Weis, K. L., & Ryan, T. W. (2012). Mentors offering maternal support: a support intervention for military mothers. *Journal of Obstetric, Gynecologic, and Neonatal Nursing: JOGNN / NAACOG*, 41(2), 303–14. doi:10.1111/j.1552-6909.2012.01346.x
- WHO. (2012). World Health Statistics, 2012. Retrieved from http://www.who.int/gho/publications/world_health_statistics/EN_WHS2012_Full.p
- Wijma, K., Wijma, B., & Zar, M. (1998). Psychometric aspects of the W-DEQ; a new questionnaire for the measurement of fear of childbirth. *Journal of Psychosomatic Obstetrics and Gynaecology*, 19(2), 84–97. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/9638601
- Wiklund, I. (2007). Caesarean section on maternal request Personality, fear of childbirth and signs of depression among first-time mothers.
- Wiklund, I., Edman, G., Ryding, E.-L., & Andolf, E. (2008). Expectation and experiences of childbirth in primiparae with caesarean section. *BJOG: An International Journal of Obstetrics and Gynaecology*, 115(3), 324–31. doi:10.1111/j.1471-0528.2007.01564.x
- Wilson, C. L., Rholes, W. S., Simpson, J. A., & Tran, S. (2007). Labor, delivery, and early parenthood: an attachment theory perspective. *Personality & Social Psychology Bulletin*, 33(4), 505–18. doi:10.1177/0146167206296952
- Wood, M. E. (2008). Theoretical framework to study exercise motivation for breast cancer risk reduction. *Oncology Nursing Forum*, 35(1), 89–95. doi:10.1188/08.ONF.89-95
- Young, D. (2006). "Cesarean Delivery on Maternal Request": was the NIH conference based on a faulty premise? *Birth (Berkeley, Calif.)*, *33*(3), 171–4. doi:10.1111/j.1523-536X.2006.00101.x
- Zak-Place, J., & Stern, M. (2004). Health belief factors and dispositional optimism as predictors of STD and HIV preventive behavior. *Journal of American College Health: J of ACH*, 52(5), 229–36. doi:10.3200/JACH.52.5.229-236

- Zar, M., Wijma, K., & Wijma, B. (2002). Relations between anxiety disorders and fear of childbirth during late pregnancy. *Clinical Psychology & Psychotherapy*, 9(2), 122–130. doi:10.1002/cpp.305
- Zimet, G. D., Powell, S. S., Farley, G. K., Werkman, S., & Berkoff, K. a. (1990). Psychometric characteristics of the Multidimensional Scale of Perceived Social Support. *Journal of Personality Assessment*, 55(3-4), 610–7. doi:10.1080/00223891.1990.9674095
- Zimmerman, R. S., Atwood, K. A., & Cupp, P. K. (2006). Improving Validity of Self-Reports for Sensitive Behaviors. In *Research methods in health promotion*. (pp. 260–288). San Francisco, CA, US: Jossey-Bass. Retrieved from http://psycnet.apa.org/psycinfo/2006-10070-010
- Zwarenstein, M., Reeves, S., Barr, H., Hammick, M., Koppel, I., & Atkins, J. (2008). Interprofessional education: effects on professional practice and health care outcomes. *The Cochrane Database of Systematic Reviews*, (1), CD002213. doi:10.1002/14651858.CD002213
- Zwelling, E. (2008). JOGNN The Emergence of High-Tech Birthing, 85–93. doi:10.1111/J.1552-6909.2007.00211.x