

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكترونى والميكروفيلم

جامعة عين شمس التوثيق الإلكتروني والميكروفيلم قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY

Application of Evidence Based Measures for Alleviating Minor Discomforts during1strimester of Pregnancy

Thesis

Submitted for Partial Fulfillment of Doctorate degree in Maternity & Gynecological Nursing

<u></u> Sγ Asmaa Ibrahim Abd El-Bary Marak

M.Sc Nursing
Assistant lecturer in Maternity & Gynecological Nursing
Faculty of Nursing-Ain Shams University

Faculty of Nursing
Ain Shams University
2020

Application of Evidence Based Measures for Alleviating Minor Discomforts during1strimester of Pregnancy

Thesis

Submitted for Partial Fulfillment of Doctorate degree in Maternity & Gynecological Nursing

Supervised by

Prof. Dr. /Mona Ahmed El-Sheikh

Prof. of Maternity & Gynecological Nursing Faculty of Nursing-Ain Shams University

Prof. Dr. /Eman Mostafa Sayed

Prof. of Maternity & Gynecological Nursing Faculty of Nursing-Ain Shams University

Faculty of Nursing
Ain Shams University
2020



First and foremost, I feel always gratitude to Allah, The most kind and most merciful.

I would like to express my sincere thanks and deepest appreciation to Prof. Dr. Mona Ahmed El-Sheikh Prof. of Maternity & Gynecological Nursing, Faculty of Nursing, Ain Shams University, for her continuous meticulous supervision, prudent guidance, support and unlimited help throughout this work.

I would like to express my deep thanks and great appreciation to **Prof. Dr. / Eman Mostafa** Prof. of Maternity & Gynecological Nursing, Faculty of Nursing, Ain Shams University, for her close supervision, cooperation, encouragement, and available guidance.

I would like to express my sincere gratitude to my husband, my son, daughter, mother, sisters and my brothers for being always tolerant and encouraging during the time of stress.

Last but not least, I would like to thank and appreciate everyone who has given me an unfailing support and assistance and also thank the target group.



List of Contents

Subject			Рад	e No.
List of Tables				I
List of Figures				IV
List of Abbreviations				VI
List of Appendices				VIII
Abstract				IX
Introduction				1
Aim of the Study				5
Review of Literature				
Chapter (I): Physiologic	al Chan	ges D	uring 1st	trimester
of Pregnancy and Associa	ted Min	or Dis	comforts	6
• Signs and symptoms of	of Pregna	ancy		7
• Physiological chang	es dur	ing	1st trin	nester of
pregnancy				7
• Most common minor	discomf	forts d	uring 1st	trimester
of pregnancy				22
Chapter (II): Evidence	Based N	Measu	es for A	Alleviating
Minor Discomforts during	g 1st Trii	mester	of Pregn	ancy 23
• Importance of carryin	g out evi	idence	based m	easures in
maternity field				24
• Evidence based me	easures	for	alleviatir	ng minor
discomforts during 1s	trimest	er of p	regnancy	25

(A) Nausea and Vomiting25
(B) Heartburn34
(C) Constipation40
Chapter (III): Nursing Management for Minor
Discomforts Associated with Normal Pregnancy During 1 st
Trimester 50
• Multiple nursing roles integrated with nursing care
plan50
Subject and Methods 64
Results 76
Discussion 99
Conclusion & Recommendations114
Summary 116
References 119
Appendix 141
Protocol
Booklet
Arabic Summary

List of Tables

No.	Table	Page	
	Table in Results		
1	Distribution of the pregnant women according to their socio-demographic	80	
	characteristics		
2	Distribution of the pregnant women according to their obstetrical history	81	
3	Distribution of pregnant women related to severity of Nausea & Vomiting during 1st trimester of pregnancy (N =47)	83	
4	Distribution of pregnant women related to severity of Heartburn during 1st trimester of pregnancy (N =35)	84	
5	Distribution of pregnant women related to severity of Constipation during 1st trimester of pregnancy (N=21).	85	
6	Distribution of pregnant women related to measures used for alleviating nausea and vomiting post intervention (N=47).	87	
7	Distribution of pregnant women related to measures used for alleviating heartburn post intervention (N=35).	88	

No.	Table	Page
8	Distribution of pregnant women related to	89
	measures used for alleviating constipation	
	post intervention (N=21).	
9	Distribution of pregnant women at before &	90
	after intervention regarding frequency of	
	nausea & vomiting (N=47).	
10	Distribution of pregnant women at before	91
	&after intervention regarding frequency of	
	Heartburn (N=35).	
11	Distribution of pregnant women at before	92
	&after intervention regarding frequency of	
	constipation (N=21).	
12	Distribution of pregnant women suffered	93
	from nausea &vomiting before and after	
	intervention related to their response (N=47).	
13	Distribution of pregnant women suffered	94
	from heartburn before and after intervention	
	related to their response (N=35).	
14	Distribution of pregnant women suffered	95
	from constipation before and after	
	intervention related to their response (N=21).	

₹Tist of Tables €

No.	Table	Page
15	Relation between socio-demographic characteristics of pregnant women & current minor discomforts (nausea & vomiting, heartburn, constipation).	96
16	Relation between socio-demographic characteristics of pregnant women &responses to measures used	97
17	Relation between measures used during intervention & relief of minor discomforts	98

List of Figures

No	Figure	Page
	Figure in Review	
(1)	Levels of estrogen, progesterone, beta-HCG	8
	throughout pregnancy	
(2)	Difference between pregnant and non-	12
	pregnant cervix	
(3)	Genitourinary Changes in Pregnancy	16
(4)	Respiratory physiology in pregnancy.	19
(5)	Cardiovascular changes in pregnancy	21
(6)	Graph of Ginger	29
(7)	Graph of Peppermint	30
(8)	Graph of Lemons	31
(9)	AcupressureP6 point (Neiguan)	33
(10)	Acupressure Pericardium 6(P6) point	38
(11)	Acupressure Stomach 36 (St36)point	39
(12)	Graph of Oranges	43
(13)	Graph of Prune	44
(14)	Graph of Kiwi fruit	45
(15)	Graph of Yogurt	45
(16)	Acupressure San Jiao meridian (SJ-6 point)	48
(17)	Enrolled Nursing Professional Management	52
	of Care	

₹Tist of Figures €

No	Figure	Page
	Figure in Result	
(1)	Distribution of pregnant women related to prevalence rate of most common minor discomforts during 1 st trimester of pregnancy	82
(2)	Distribution of pregnant women according to measures used for dealing with minor discomforts before the intervention.	86

List of Abbreviations

466.	Full term
ACOG	American College of Obstetrics and Gynecology
ADH	Antidiuretic Hormone
AVP	Arginine Vasopressin
BP	Blood Pressure
CO2	Carbon Dioxide
EBP	Evidence Based Practice
FSH	Follicle-stimulating Hormone
GI	Gastrointestinal
GFR	Glomerular Filtration Rate
HCG	Human Chorionic Gonadotropin
HPL	Human Placental Lactogen
LMP	Last Menstrual Period
LES	Lower Esophageal Sphincter
LH	Luteinising Hormone
MFMER	Mayo Foundation for Medical Education and
	Research
NREPP	National Registry of Evidence-Based Practices and
	Programs
NVP	Nausea & Vomiting of Pregnancy
O2	Oxygen

₹Tist of Abbreviations&

466.	Full term
P6	Pericardium 6
PSI	Pregnancy Symptom Inventory
Rh	Rhesus Factor
SJ-6	San Jiao Meridian Point
St36	Stomach 36
TBG	Thyroid-binding Globulin
T4	Thyroxine4
Т3	Triiodothyronine
WHO	World Health Organization