

TABLE OF CONTENTS

TITLE PAGE	i
APPROVAL PAGE	ii
AUTHENTICITY STATEMENT	iii
PREFACE	iv
TABLE OF CONTENTS	vi
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF APPENDICES	x
LIST OF ABBREVIATIONS	xi
ABSTRACT	xii
INTISARI	xiii
CHAPTER I INTRODUCTION	
A. Background	1
B. Problem Formulation.....	3
C. Study Objective	3
D. Study Originality	4
E. Study Benefit.....	6
CHAPTER II LITERATURE REVIEW	
A. Literature Review	7
1. Breast cancer	7
2. Anatomy and histology of the breast.....	7
3. Mammographic Breast Density.....	9
4. BI-RADS Reporting System	10
5. Prevalence of high MBD.....	11
6. Reproductive factors to breast tissue.....	12
7. Other determinants of MBD.....	14
B. Basic Theory	16
C. Theoretical Framework	18
D. Conceptual Framework	19

E. Hypothesis	19
CHAPTER III RESEARCH METHODOLOGY	
A. Type and Study Design	20
B. Time and Study Setting	20
C. Study Population and Subjects/Samples	20
D. Study Variables	22
E. Operational Definition of Variables	23
F. Study Materials and Measurement	25
G. Study Procedure	25
H. Data Analyses (Statistical Methods)	26
I. Ethical Considerations	27
CHAPTER IV RESULT AND DISCUSSION	
A. Study Result	28
1. Baseline characteristics of study population	28
2. Descriptive statistics	30
3. Correlational analyses	37
B. Discussion	41
1. Correlation between parity and MBD	42
2. Correlation between abortion history and MBD	44
3. Correlation between age at first birth and MBD	46
4. Correlation between lactation history and MBD	47
5. Impact of age, BMI and menopause to MBD	49
6. Reproductive history, MBD and breast cancer	50
7. Study implication	51
8. Study advantages, disadvantages and limitations	52
CHAPTER V CONCLUSION AND SUGGESTION	
A. Conclusion	54
B. Suggestion	54
REFERENCES	55
APPENDICES	61

LIST OF TABLES

Table Number	Title of Table	Page
Table 1	BI-RADS classification of breast tissue	11
Table 2	Operational definition of variables	23
Table 3	Correlation coefficient value interpretation	26
Table 4	Baseline characteristics of study population by MBD classification	29
Table 5	BI-RADS mean rank comparison of reproductive variables	35
Table 6	Correlation coefficient of confounding variables	37
Table 7	Correlation coefficient of menopausal status And MBD	37
Table 8	Summary of Spearman correlation analyses	39
Table 9	Sub-group Spearman correlation analyses by menopausal status	40

LIST OF FIGURES

Figure Number	Title of Figure	Page
Figure 1	BI-RADS classification	11
Figure 2	Theoretical framework	18
Figure 3	Conceptual framework	19
Figure 4	Bar chart of reproductive variables	31
Figure 5	Mammogram result of each BI-RADS classification	32
Figure 6	Pie chart of BI-RADS classification	33
Figure 7	Pie chart of high and low MBD	33
Figure 8	Cluster bar chart of MBD distribution by reproductive variables	36

LIST OF APPENDICES

Appendix Number	Title of Appendix	Page
Appendix 1	Data Retrieval Form	61
Appendix 2	Analyses of MBD mean rank comparisons	62
Appendix 3	Age characteristics of premenopausal and postmenopausal women	63
Appendix 4	MBD comparison between nulliparous vs parous women	63
Appendix 5	MBD comparison between women never had an abortion vs ever had an abortion	63
Appendix 6	Ethical clearance	64

LIST OF ABBREVIATIONS

MBD	: Mammographic Breast Density
BI-RADS	: Breast Imaging-Reporting and Data System
HRT	: Hormonal Replacement Therapy
PLC	: Pregnancy and Lactation Cycle
BMI	: Body Mass Index
WHO	: World Health Organization
SD	: Standard Deviation
CI	: Confidence Interval