

Contents

Subjects	Page
List of abbreviations.....	II
List of figures.....	IV
List of tables.....	VII
• Introduction	1
• Aim of the work	4
• Review of Literature	
♦ Chapter (1): Postmenopausal Bleeding.....	5
♦ Chapter (2): Pathology of Some Uterine Lesions.....	17
♦ Chapter (3): Evaluation of Women with Postmenopausal Bleeding.....	36
• Patients and Methods	83
• Results	92
• Discussion	103
• Summary	118
• Conclusion	120
• Recommendation	121
• References	122
• Arabic Summary	

List of Abbreviations

2D	:	Two dimensional
3D	:	Three dimensional
3D-PDA	:	Three dimensional power Doppler angiography
ACOG	:	American College of Obstetricians and Gynecologists
AUC	:	Area under the curve
BMI	:	Body mass index
CAMS	:	Council of Affiliated Menopause Societies
CT	:	Computerized tomography
D&C	:	Dilatation and curettage
DH	:	Diagnostic hysteroscopy
DM	:	diabetes mellitus
EA	:	Endometrial atrophy
EC	:	Endometrial carcinoma
EH	:	Endometrial hyperplasia
EMB	:	Endometrial biopsy
EMP	:	Endometrial polyp

FI	:	Flow index
IM	:	International Menopause Society
IV	:	Intravenous
HNPCC	:	Hereditary Non Polyposis Colorectal Cancer
MRI	:	Magnetic resonant imaging
PMB	:	Postmenopausal bleeding
RR	:	Relative Risk
ROC	:	Receiver-operator characteristic The
SRU	:	Society of Radiologists in Ultrasound
TVS	:	Transvaginal ultrasonography
UKCTOCS	:	United Kingdom collaborative trial of ovarian cancer screening
US	:	Ultrasound
VFI	:	Vascularization flow index
VI	:	Vascularization index
VI_s	:	Vascularization indices
VOCAL	:	Virtual Organ Computer-aided Analysis
WHO	:	World health organization

List of Figures

<u>No.</u>	<u>Figure</u>	<u>Page</u>
<u>1</u>	Microscopic picture of senile atrophic endometrium	9
<u>2</u>	Microscopic picture of an Endometrial polyp	19
<u>3</u>	Microscopic picture of adenomyomatous polyp	20
<u>4</u>	Microscopic picture of leiomyoma	22
<u>5</u>	Microscopic picture of simple hyperplasia without atypia	27
<u>6</u>	Microscopic picture of simple hyperplasia with atypia	27
<u>7</u>	Microscopic picture of complex hyperplasia	28
<u>8</u>	Microscopic picture of endometrioid adenocarcinoma	33
<u>9</u>	Microscopic picture of endometrial adenocanthoma	34
<u>10</u>	Microscopic picture of uterine papillary serous carcinoma	34
<u>11</u>	Microscopic picture of atrophic endometrium	35
<u>12</u>	Novak curette	42
<u>13</u>	Randall curette	42
<u>14</u>	Vabra aspirator	43
<u>15</u>	Tis-U-Trap	43
<u>16</u>	Pipelle suction cannula	43
<u>17</u>	Ultrasound of postmenopausal endometrium	48

<u>No.</u>	<u>Figure</u>	<u>Page</u>
<u>18</u>	Ultrasound of atrophic endometrium	51
<u>19</u>	Ultrasound of endometrial polyp	53
<u>20</u>	Ultrasound of endometrial polyp show endometrial thickening	53
<u>21</u>	Ultrasound of endometrial hyperplasia	54
<u>22</u>	Ultrasound of endometrial hyperplasia	55
<u>23</u>	Ultrasound of endometrial carcinoma	56
<u>24</u>	Ultrasound of endometrial carcinoma: marked irregular thickening	57
<u>25</u>	Ultrasound of endometrial carcinoma demonstrate diffuse endometrial thickening	57
<u>26</u>	Three-dimensional power Doppler ultrasound scanning for the prediction of endometrial cancer.	62
<u>27</u>	VOCAL software of endometrial volume and power Doppler indices	66
<u>28</u>	Three-dimensional endometrial volume in estimation of endometrial cancer	68
<u>29</u>	Three-dimensional power Doppler indices calculated from the volume	69
<u>30</u>	Power Doppler ultrasound examination of the endometrium	77
<u>31</u>	Calculation using VOCAL software of the sub endometrial volume	80
<u>32</u>	Histo-pathological diagnosis Relation between Three-dimensional endometrial volume and power Doppler angiography results and histopathological diagnosis	95

<u>No.</u>	<u>Figure</u>	<u>Page</u>
<u>33</u>	Relation between endometrial thickness and histo-pathological diagnosis.	96
<u>34</u>	Relation between endometrial volume and histo-pathological diagnosis.	97
<u>35</u>	Relation between VI and histo-pathological diagnosis.	97
<u>36</u>	Relation between FI and histo-pathological diagnosis.	99
<u>37</u>	Relation between VFI and histo-pathological diagnosis.	100
<u>38</u>	Roc curve.	102

List of Tables

<u>No.</u>	<u>Tables</u>	<u>Page</u>
<u>1</u>	Personal characteristics.	93
<u>2</u>	Menstrual history.	93
<u>3</u>	Obstetric history.	93
<u>4</u>	Medical history.	94
<u>5</u>	Three-dimensional endometrial volume and power Doppler angiography results.	94
<u>6</u>	Histo-pathological diagnosis.	95
<u>7</u>	Relation between endometrial thickness and histo-pathological diagnosis.	96
<u>8</u>	Relation between endometrial volume and histo-pathological diagnosis.	97
<u>9</u>	Relation between VI and histo-pathological diagnosis.	98
<u>10</u>	Relation between FI and histo-pathological diagnosis.	99
<u>11</u>	Relation between VFI and histo-pathological diagnosis.	100
<u>12</u>	Validity of Three-dimensional endometrial volume and power Doppler angiography results for prediction of endometrial carcinoma.	101
<u>13</u>	Test results variable.	102
<u>14</u>	Comparison between previous study and our study.	117



Protocol





Introduction





Aim of the Work





Review of Literature





Chapter 1

Postmenopausal Bleeding





Chapter 11

Pathology of Some Uterine Lesions





Chapter 111

Evaluation of Women with Postmenopausal Bleeding





Patients and Methods

