

## **CONTENTS Subjects** Page ❖ Introduction and Aim of the work Anatomy 5 • Applied Anatomy of uterus. 5 9 •Transvaginal Sonographic anatomy of uterus. 17 • MRI anatomy of uterus. **❖**Technique. 21 21 ◆Technique of Transvaginal Ultrasound. 24 •Technique of Magnetic Resonance. 29 ❖ Pathology of Adenomyosis. Imaging. 40 ♦Transvaginal Sonographic finding in Adenomyosis. 42 ♦ MRI findings in Adenomyosis. 45 ♦MRI versus TVS. 66 69 Summary and Conclusion . \* References. 75 ❖ Arabic Summary. 1



## LIST OF Figures

Figure	Content of figure	Page
number		number
Figure 1	Medial sagittal section through	6
	the femal pelvis	
Figure 2	Uterine blood supply	8
Figure 3	TVS of normal endometrium as	10
	depicited in long axis	
Figure 4	TVS of normal endometrium as depicted in short axis	11
Figure 5	TVS of proliferative phase of endometrium	14
Figure 6	TVS of the preovulatory phase of endometrium	14
Figure 7	TVS of the secretory phase of endometrium	15
Figure 8	TVS of the menstrual phase of endometrium	16
Figure 9	MRI of normal uterus	17
Figure 10	The uterine zonal anatomy	20
Figure 11	Diffuse adenomyosis from a hysterectomy specimen	30
Figure 12	Focus of adenomyosis on microscope	31
Figure 13	Leiomyomata uteri	32
Figure 14	Tvs shows myometrial heterogencity,linear striations and irregular endo/myometrial interface	43
Figure 15	Adenomyosis at MRI	47

Figure 16	Sagittal T2FSE MRI shows thickened junctional zone	47	
Figure 17	Sagittal T2FSE of uterus with focal adenomyomas	48	
Figure 18	Sagittal T2FSE shows myometrial thickness ratio over 40%	49	
Figure 19	MRI shows Adenomyoma and leiomyoma in 45 year old woman	50	
Figure 20	MRI shows Adenomyosis in 35 year old woman	50	
Figure 21	MRI shows Atypical polypoid adenomyoma in 42 year old woman	51	
Figure 22	MRI shows Diffuse adenomyosis with illdefined myometrial mass	52	
Figure 23	MRI shows Intramyometrial adenomyotic cyst	53	
Figure 24	MRI shows Thickening of the jz during the menstrual phase	54	
Figure 25	Fluctuating MRI appearances of adenomyosis	55	
Figure 26	Adenomyosis with haemorrhagic foci in 52 year old woman	56	
Figure 27	Pseudowidening of the endometrium in 49old women	57	
Figure 28	Endometrial cancer extending into adenomyosis in 48 year old woman	58	
Figure 29	Adenomyosis in 47 year old woman	59	
Figure 30	Endometrial cancer with adenomyosis in 54 year old woman	59	
Figure 31	Adenocarcinoma arising from	60	

