

Contents

<i>Introduction</i>	1
<i>Aim of the work.....</i>	3
<i>Anatomy of female pelvic system</i>	4
<i>Gross anatomy</i>	4
<i>Sonoanatomy.....</i>	8
<i>Physiology of the menstrual cycle.....</i>	16
<i>Pathology.....</i>	20
<i>Principles of Ultrasound</i>	27
- <i>Basic principles of Ultrasound and Doppler.....</i>	27
- <i>Technique of transvaginal Ultrasound examination</i>	31
<i>Role of transvaginal Ultrasound in diagnosis of ovarian factor of female infertility.....</i>	36
<i>Role of transvaginal Ultrasound in diagnosis of tubal factor of female infertility</i>	43
<i>Role of transvaginal Ultrasound in diagnosis of uterine factor of female infertility.....</i>	48
<i>SonoHysterography & SonoHysteroSalpingography.....</i>	58
<i>Role of transvaginal Ultrasound in the treatment of female infertility</i>	67
▪ <i>Ovulation induction.....</i>	67
▪ <i>In-Vitro Fertilization</i>	69
▪ <i>Assessment of ovarian reserve.....</i>	74
▪ <i>Implantation markers.....</i>	74
▪ <i>Monitoring complications of ovarian induction.....</i>	76
<i>Summary & conclusion</i>	80
<i>Illustrated cases.....</i>	82
<i>References.....</i>	87
<i>Arabic Summary.....</i>	98

List of Abbreviations

TVS	Transvaginal Sonography
IVF	In-vitro Fertilization
RI	Resistive Index
LH	Lutenizing Hormone
FSH	Follicle Stimulating Hormone
PCOS	Polycystic Ovarian Syndrome
LUFS	Lutenized Unruptured Follicle Syndrome
LPD	Luteal Phase Defect
PID	Pelvic Inflammatory Disease
3D US	Three Dimensional Ultrasound
PD	Power Doppler
SIS	Saline Infusion Sonohysterography
TVOR	Transvaginal Oocyte Retrieval
OHSS	Ovarian Hyperstimulation Syndrome