

Contents

About the editors ix
Preface xi
List of contributors xiii

Section 1. Techniques

1. **Three-dimensional ultrasonography in gynecology** 1
Norman A. Assad and Sadie Hutson
2. **Hysterosalpingography** 12
Shawky Z. A. Badawy
3. **Ultrasonography and hysteroscopy in gynecologic evaluation: are they competitive or complementary to each other?** 16
Amr Hassan Wahba and Osama Shawki
4. **Consent and legal counseling for gynecologic ultrasound examinations** 25
James Shwayder

Section 2. Benign gynecology

5. **Ultrasound imaging in polycystic ovary syndrome** 31
Misty M. Blanchette Porter
6. **Müllerian anomaly and ultrasonographic diagnosis** 43
Awoniyi O. Awonuga, Samuel Johnson, Manvinder Singh and Elizabeth E. Puscheck
7. **Ultrasound imaging in hydrosalpinges** 58
Gautam N. Allahbadia and Rubina Merchant
8. **Three-dimensional ultrasonography of subtle uterine anomalies: correlation with hysterosalpingogram, two-dimensional ultrasonography, and hysteroscopy** 66
Mostafa I. Abuzeid and Omar M. Abuzeid
9. **Transvaginal ultrasonography of uterine fibroids** 80
Mostafa I. Abuzeid and Salem K. Joseph
10. **Pelvic floor ultrasound** 94
Hans Peter Dietz

11. **Ultrasound imaging in endometriosis** 114
Luciano G. Nardo, Sree Durga Patchava and Spyridon Chouliaras
12. **Ultrasound imaging of uterine fibroids: evaluation and management** 122
Gautam N. Allahbadia and Rubina Merchant
13. **Uterine artery embolization for the treatment of uterine fibroids** 132
Shawky Z. A. Badawy, Harold Henning and Bruce Singer

Section 3. Ectopic pregnancy

14. **Ectopic pregnancy: ultrasound diagnosis and management** 139
Botros R. M. B. Rizk, Sheri A. Owens, John LaFleur and Mostafa I. Abuzeid
15. **Ultrasound diagnosis of interstitial, cornual and angular pregnancy** 155
Botros R. M. B. Rizk, John LaFleur, Nicolette Holliday and Mostafa I. Abuzeid
16. **Ultrasound diagnosis of cervical pregnancy** 165
Botros R. M. B. Rizk, Kathryn H. Clarke, Candice P. Holliday and Donna C. Bennett
17. **Ultrasound diagnosis of cesarean scar ectopic pregnancy** 172
Botros R. M. B. Rizk, Rizwan Malik, Kathryn H. Clarke and Donna C. Bennett
18. **Ultrasound diagnosis of ovarian and abdominal pregnancies** 177
Botros R. M. B. Rizk, Candice P. Holliday, Kathryn H. Clarke and John LaFleur
19. **Ultrasound diagnosis of heterotopic ectopic pregnancies** 185
Botros R. M. B. Rizk, Rizwan Malik, Candice P. Holliday and Mostafa I. Abuzeid

Contents

Section 4. Gynecologic neoplasia

20. **Ultrasound imaging in gestational trophoblastic neoplasia** 193
 Asim Kurjak and Kazuo Maeda
21. **Ultrasound imaging in ovarian masses: benign or malignant?** 204
 Elizabeth E. Puscheck and Jashoman Banerjee
22. **Ultrasound imaging of ovarian cancer** 216
 Osama M. Azmy and Amr Abbasy
23. **Ultrasound imaging of endometrial cancer** 224
 Osama M. Azmy and Haitham Badran

Section 5. Ultrasonography in infertility

24. **Use of ultrasound imaging in “one-stop” fertility diagnosis** 233
 Geeta Nargund
25. **Ultrasound assessment prior to infertility treatment** 238
 Valerie Shavell and Elizabeth E. Puscheck
26. **Doppler ultrasonography in infertility** 245
 L. T. Polanski, M. N. Baumgarten, Nicholas J. Raine-Fenning and Kannamannadiar Jayaprakasan
27. **Ultrasound assessment of ovarian reserve** 260
 Bradley J. Van Voorhis
28. **Ultrasound assessment of antral follicle count** 264
 Kannamannadiar Jayaprakasan and Nicholas J. Raine-Fenning
29. **Ultrasound monitoring of ovulation induction** 274
 Josef Blankstein, Sarika Arora and Joel Brasch

30. **Ultrasound-guided fallopian tube catheterization** 284
 Shawky Z. A. Badawy and Beverly A. Spirt
31. **Ultrasound imaging of fibroids and infertility** 288
 Terri L. Woodard, Samuel Johnson and Elizabeth E. Puscheck
32. **Ultrasound imaging and IVF embryo transfer** 298
 Misty M. Blanchette Porter
33. **Ultrasound to monitor difficult embryo transfers** 314
 Gautam N. Allahbadia and Rubina Merchant
34. **Ultrasound to detect congenital anomalies after ART** 322
 Carrie Warshak and David F. Lewis
35. **Ultrasound to detect multiple pregnancies after ART** 337
 Julie M. Sroga, Carrie Warshak and David F. Lewis
36. **Ultrasound and pregnancy outcome after ICSI** 348
 Ehab Abu Marar
37. **The role of ultrasound imaging in the prediction, prevention, and management of ovarian hyperstimulation syndrome** 356
 Botros R. M. B. Rizk
38. **Self-operated endovaginal telemonitoring: using internet-based home monitoring of follicular growth in assisted reproduction technology** 369
 Jan Gerris

Index 375