

# Obsah

Introduction.....	8
Ultrasound = Ultrasonography = Sonography .....	9
Description of ultrasound images in gynaecology and obstetrics – clinical practice.....	14
Part I. Gynaecology.....	15
Vaginal probe.....	16
1. Anteverted anteflexed uterus – a woman in reproductive years.....	16
2. Anteverted anteflexed uterus – a woman in senium.....	17
3. A hyper anteverted anteflexed uterus .....	17
4. A retroverted retroflexed uterus.....	18
5. A hypoplastic uterus.....	18
6. A subseptate uterus.....	19
7. An ultrasound image of the cervix at the time of ovulation.....	19
8. The endocervix after sampling with an OC brush .....	20
9. Ovula Nabothi (ON, retention cysts of cervix).....	20
10. Solitary ovula Nabothi.....	21
11. Intrauterine adhesions in senium.....	21
12. Mucometra.....	22
13. Atherosclerotic calcification of the uterine vessels .....	22
14. Intrauterine device inside the uterine cavity .....	23
15. Intrauterine device in the abdominal cavity after an unsuccessful insertion.....	24
16. Calcifications in the uterine cavity with IUD .....	24
17. Endometrial hyperplasia (E) in senium .....	25
18. Endometrial carcinoma .....	25
19. Endometrial polyp .....	26
20. Endocervical polyp.....	26
21. Submucous myoma of the uterus.....	27
22. Intramural myoma of the uterus .....	28
23. Thickened posterior wall of the uterus.....	28
24. Subserous myoma of the uterus .....	29
25. Myoma of the uterus after delivery .....	29
26. Scar after a Caesarean section – granuloma .....	30
27. Thickening of the scar after a Caesarean section .....	30
28. Dilation of the scar after a Caesarean section .....	31
29. Physiological ovary .....	31
30. State after a simple hysterectomy.....	32
31. State after a supracervical hysterectomy .....	32
32. Ovarian follicle.....	33
33. Polycystic ovary syndrome (PCOS) .....	33
34. Ovarian cysts .....	34
35. State after spontaneous rupture of the ovarian cyst .....	35

36. Serous cystadenoma .....	36
37. Endometrial cysts.....	36
38. Endometriosis in the subcutaneous tissue (extragenital endometriosis)....	37
39. Cystadenocarcinoma.....	37
40. Ascites, adhesions in the lesser pelvis.....	38
41. An adnexal tumour .....	38
42. A tumour in the lesser pelvis.....	39
43. Nephroptosis (floating kidney) .....	39
44. Alagille syndrome – arteriohepatal dysplasia.....	40
 Abdominal probe .....	41
1. An ultrasound image of the uterus .....	41
2. An ultrasound image of the uterus and ovary .....	42
3. Foley catheter in the urinary bladder.....	42
4. Uterus and ovaries in a woman at a fertile age .....	43
5. Uterus and ovaries in a woman after postmenopause .....	43
6. An ultrasound image of a cyst of the right ovary.....	44
 Perineal probe .....	45
1. Cystourethrography performed with the use of ultrasound .....	45
 Part II. Obstetrics.....	47
1. Incipient pregnancy at the fifth week .....	48
2. Incipient pregnancy .....	48
3. Ultrasound image of pregnancy at the eighth week visualised with a vaginal probe.....	49
4. Foetus at the tenth gestational week visualised by vaginal probe.....	49
5. Foetus at the end of the first trimester visualised by vaginal probe .....	50
6. Foetus at thirteenth week visualised by vaginal probe .....	50
7. Foetus at thirteenth – fourteenth week visualised by vaginal probe .....	51
8. The pseudogestational sac in the uterine cavity in the terrain of ectopic pregnancy .....	52
9. Ovarian pregnancy.....	52
10. A missed abortion.....	53
11. A missed abortion – monochorionic monoamniotic pregnancy .....	53
12. Anembryonic pregnancy (eighth week), intramural myoma.....	54
13. Foetal death, anhydramnios.....	54
14. Monozygotic twins (ninth gestational week) .....	55
15. Fraternal (dizygotic) twins .....	55
16. Partial hydatidiform mole .....	56
17. Complete hydatidiform mole .....	57
18. Spontaneous abortion in progress – gestational sac localized in fundus .....	57
19. Spontaneous abortion in progress – gestational sac moved above internal os.....	58
20. Spontaneous abortion in progress – gestational sac moved into the cervical canal .....	58
21. Empty uterine cavity after instrumental revision performed at the seventh week of pregnancy due to an incomplete abortion .....	59
22. Retained products of conception after delivery.....	59
23. Are these retained products of conception, coagula or is it a myoma?.....	60

24. Lochiometra .....	61
25. Physiological ultrasound image acquired with the use of abdominal in a woman at the postpartum period .....	62
26. Physiological finding at day 16 after spontaneous delivery.....	62
27. Cervicometry .....	63
28. Cervicometry – threatened preterm labour.....	63
29. Placenta praevia .....	64
30. Foetus – male sex.....	64
31. Foetus – female sex.....	65
32. Face of the foetus .....	66
33. Limbs of the foetus .....	66
34. Hands of the foetus .....	67
 Ultrasound biometry.....	68
1. Measurement of head.....	69
2. Measurement of AC (abdominal circumference).....	69
3. Measurement of FL (femur length) .....	70
 Examples of spectral Doppler measurement of blood flow in the umbilical artery .....	71
 Sonographic screening examination of the fetal heart.....	72
 3D ultrasound .....	75
 Conclusion .....	76
 Abbreviations .....	77
 Literature .....	78