

Index

- acute abdominal pain, treatment 150
 assessment 150
 intestinal obstruction, two level 151
 squashed stomach syndrome 152
- adnexal masses, differential diagnosis 99
 ovarian cysts, simple 99, 100
 transvaginal scan 100
- benign cystadenomas 99
 Brenner tumours 104
 cell tumours, granulosa 103
 endometriomas 101
 functional cysts, haemorrhagic 100
 mature cystic teratoma, ovary 101
 pelvic masses 105
 peritoneal pseudocysts 104
 Rokitansky nodule 101
 thecomas, ovarian fibromas 103
 tubal origin, masses 104
 uterine fibroids 104
- advanced disease, ultrasound-guided biopsy 106
 diagnosis, histological 106
- carcinoma, ovary, CT 132–53
 uses, CT 132
- carcinoma, primary 1
 databases, GLOBOCAN 2002 2
- chemotherapy, disease, advanced, 83
 approaches, other treatment 84 (see also systemic)
 systemic 83
 cisplatin 83
 progression-free survival (PFS) 83
Taxus brevifolia 83
- chemotherapy, disease, early stage 82
 disease-free survival (DFS) 82
 International collaboration on ovarian neoplasms
 (ICON1) 83
- chemotherapy, IDS patients 145
 bidimensional measurements, WHO criteria 145
 complete response unconfirmed (CRU) 145
 measurements, response 146
 response criteria in solid tumours (RECIST)
 146
- interval debulking surgery (IDS) 145, 152
- chemotherapy, debulking surgery (prior to) 144
 post-surgery, baseline 144
- cysts, non-neoplastic 20
 types 20
- cytoreductive surgery, primary 71
 cavitron ultrasonic aspirator (CUSA) 72
 chemotherapy or upfront surgery (CHORUS) 71,
 74 (see also neoadjuvant chemotherapy,
 primary, delayed)
 Meigs 71
 Scottish randomised trial in ovarian cancer
 (SCOTROC) 73
- detecting malignancy, ultrasound performance 105
 Doppler, combined morphology 106
 ultrasound, morphological/ Doppler 105, 106
- disease, staging, defining extent 123
 adenocarcinoma, ovarian, recurrent 124
 bowel obstruction, ovarian cancer 125
 recurrent disease, detection, tumour response,
 residual disease, assessment 127
 computed tomography (CT) 128
 staging, accuracy 126
 tumour resectability 127
- epidemiology, genetic 1
 ovarian cancer, susceptibility, genetic 3
 hereditary non-polyposis colorectal cancer
 (HNPCC) 5 (see also syndromes, familial
 cancer)
 polymorphism, human genomes, types 5
 single nucleotide polymorphism (SNPs) 5
 susceptibility genes, high penetrance 3
 susceptibility genes, high-risk 5
 susceptibility, low penetrance 5
 syndromes, familial cancer 3
- risks, familial 1
 Schildkraut, Thompson 2
- hormonal factors, reproductive 6 (see also hormonal
 factors, reproductive, other)

174 Index

- hormonal factors, reproductive (Contd.)
 - hormone replacement therapy (HRT) 9–10
 - oestrogen therapy (ET) 9
 - infertility 8
 - lactation 7
 - late menopause, early menarche 6
 - parity 6
 - oral contraceptive (OC) pill 7–8
- hormonal factors, reproductive 10
 - age 10
 - diet 12
 - endometriosis 11
 - powder, talcum 10
 - pelvic inflammatory disease (PID) 12
 - human papilloma virus (HPV) 12
 - polycystic ovarian syndrome (PCOS) 12, 13
 - follicle stimulating hormone (FSH) 12
 - luteinizing hormone (LH) 12
 - surgery, pelvic 11
- induction chemotherapy, interval debulking 75
 - Gynecologic Oncology Group (GOG152) 75
- laparotomy, staging 69
 - adjuvant chemotherapy in ovarian neoplasm (ACTION) 70
 - European Organisation for research and treatment of Cancer (EORTC) 70, 74, 75 (see also induction chemotherapy, interval debulking)
 - International Federation of Gynaecology and Obstetrics (FIGO) 69–70 (see also cytoreductive surgery, primary)
 - surgical staging, elements 70
- malignancy, ultrasonic diagnosis 96
 - malignant features 96
 - adenocarcinoma, differentiated 96
 - carcinoma, endometrial 97
 - cystadenocarcinoma, mucinous 98
 - cystadenocarcinoma, serous 97, 101
 - transvaginal Doppler 98
 - primary malignancies, ultrasonic features 96
 - carcinomas, endometrioid 98
 - clear cell tumours 98
 - low malignant potential (borderline), epithelial tumours 98
 - tumours, germ cell 98
 - tumours, mucinous 97
 - tumours, serous 96
 - metastatic malignancy, ultrasonic features 99
- monitoring, therapy 164
 - computed tomography (CT) 164
 - Guidelines to evaluate the response to treatment in solid tumors* 165
 - response evaluation criteria in solid tumors (RECIST) 165
 - ultrasound (US) 164
- MR imaging 112, 128 (see also ovarian cancer, MR imaging)
- neoadjuvant chemotherapy, primary surgery 73–4
 - Royal College of Obstetricians and Gynaecologists (RCOG) 74
- ovarian cancer 47, 69
 - silent killer 69
 - cancers, commonest 48
 - survival rates 48
- ovarian cancer, epidemiology, 1–13
- ovarian cancer, epithelial, surgical management 69–78
- ovarian cancer, FDG-PET/CT 162–4
 - (see also monitoring, therapy)
 - tomography and computed tomography (PET/CT) 162–4
- ovarian cancer, MR imaging 112–28
 - fat-saturated chemical shift 112
 - apparent diffusion coefficient (ADC) 113
 - echo planar diffusion weighted imaging (EPDWI) 113
 - fat-suppression sequences 112
 - STIR sequences 112
 - parallel imaging 112
 - radiofrequency (RF) 112
- ovarian cancer, PET, CT 156
- ovarian cancer, primary, FDG–PET imaging 158–60
 - low malignant potential (LMP) 158–60, 168
- ovarian cancer, recommendations, summary, CT 152
 - role 152
 - pathway 152
- ovarian cancer, recurrent, cytoreductive surgery 75
 - DESKTOP (AGO-OVAR) 76
 - EORTC (55963 – Larocson study) 75
- ovarian cancer, recurrent, palliative surgery 76
- model, Krebs and Gopelrud 77
- ovarian cancer, relapsed 85
 - approaches, other treatment 88
 - approaches 89
 - therapies, endocrine, 88
 - therapies, novel 89
 - chemotherapy 85
 - anthracyclines 86
 - etoposide 85
 - gemcitabine 86
 - paclitaxel 85
 - topotecan 85
 - platinum agents, other 87
 - capecitabine 87
 - oxaliplatin 87
 - vinorelbine 87
 - response prediction 88
 - therapy, single-agent vs. combination 87
 - treatment, time 88 (see also tumour markers)
- ovarian cancer, screening, 47–64
- ovarian cancer, staging, ultrasound 107
 - screening 107
 - CA125 107–8
- ovarian carcinoma, medical treatment 82
- ovarian carcinoma, ultrasound 94

- ovarian masses, MRI characteristics 115
 - general features, 115
 - tumours, smooth muscle/fibrotic component 116
 - specific features 119
 - cyst adenocarcinoma 120
 - dysgerminomas 122
 - epithelial tumours 119
 - metastases, ovarian 123
 - Rokitansky protuberance 122
 - teratomas, ovarian cystic 115, 121 (see also teratoma cystic, benign)
 - tumour, borderline 121
 - tumour, collision 121
 - tumour, germ cell 121
 - tumour, germ cell, mixed 121
 - tumour, Sertoli–Leydig cell 122
 - tumour, sex cord-stromal cell 122
- ovarian neoplasm 20, 23 (see also cystadenoma, mucinous)
 - classification, ovarian tumours, WHO 20–2
 - ovarian masses 23
 - picket-fence 24, 26
 - ovarian tumours, borderline 24
 - ovarian tumours, histogenesis 24
 - tumours, transtional cell 24
 - carcinosarcoma 24
- ovarian neoplasm, pathological features 20–42
- ovarian tumours, epithelial, invasive 30
 - clinical patterns 32
 - dysgerminoma 37
 - placenta-like alkaline phosphatase (PLAP) 37
 - fibroma, thecoma 39–40
 - Meig's syndrome
 - ovarian carcinoma 30 (see also ovarian neoplasia, FIGO staging)
 - ovarian carcinoma, endometrioid 34
 - adenocarcinoma, endometrioid 35
 - carcinoma, clear cell 36
 - hob-nail 35
 - malignant mixed Mullerian tumour (MMMT) 35
 - ovarian carcinoma, mucinous 33
 - adenocarcinoma, mucinous 34
 - mucinous carcinoma 33
 - ovarian carcinoma, serous 32
 - adenocarcinoma, serous 33
 - cystadenocarcinoma serous 33
 - ovarian carcinoma, transitional cell, malignant
 - Brenner 36
 - ovarian neoplasia, FIGO staging 31
 - ovarian tumours, germ cell 36
 - teratoma, mature 37
 - ovarian tumours, metastatic 40 (see also tumour, Kruckenberg)
 - lymphoma, Burkitt's 41
 - ovary, stromal tumours, sex cord 38
 - tumour, granulosa cell 38
 - tumour, Kruckenberg 40–1
 - tumours, Sertoli–Leydig cell 40, 41
 - tumour, yolk sac 38
 - Schiller-Duval bodies 38
- ovarian tumours, mixed, epithelial benign 24
 - cystadenoma, endometrioid 26–7
 - chocolate cysts 27
 - endometriosis 27
 - cystadenoma, mucinous 25, 26
 - tumour, serous, benign 25
 - cystadenoma, serous 24, 25
- ovarian tumours, borderline epithelial 27
 - borderline ovarian neoplasm 28
 - budding 29
 - flow cytometry 29, 34
 - ovarian Brenner tumour 30
 - ovarian neoplasia, endometrioid 30
 - ovarian neoplasia, mucinous 29
 - ovarian neoplasia, serous 28
 - peritoneal implants 28
 - tumour, Brenner 25, 27, 30, 36
- pelvic mass, characterisation/diagnosis 113–14
 - lesions, adnexal 113–14
 - adnexal masses 113
 - benign endometriotic cyst, 116, 117
 - benign teratoma cystic, 115 (see also teratomas, ovarian cystic)
 - CA125 114, 128
 - Doppler techniques 114
 - ovarian tumours, malignant, MRI features 114
 - ovarian adenocarcinoma 119, 120
 - borderline tumour, serous papillary 118
 - peritoneal nodules 120
 - omental disease 120
 - positron emission tomography (PET) 156–60, 168
 - fluorodeoxyglucose (FDG) 156–9, 168
 - uptake 158, 160, 165–7
 - image analysis/procedures (PET), general 157
 - standardized uptake values (SUV) 157
- recurrent disease, distant metastases/diagnosis 161
- recurrent ovarian cancer, CT 148
 - coronal reconstruction 149
 - metastasis, recurrence, unusual sites, CT 150
- remission confirmation, CT 146
- requirements, screening test 47
 - positive predictive value (PPV) 49
- screening cost 63 (see also UKCTOCS)
- screening, techniques 49
 - modalities, other 55
 - radioimmunoscintigraphy 55
 - screening, multimodal 55
 - advantages 55
 - transvaginal ultrasound scanning (TVS) 53, 56, 57, 62
- tumour markers 49
 - black box technology 54
 - breast cancer (BC) 62

176 Index

- screening, techniques (cont.)
 - CA125 49
 - colour flow Doppler (CD) 53, 62
 - epithelial ovarian cancer (EOC) 53, 62
 - family history (FH) 53
 - mass spectrometry (MS) 54
 - personal history (PMH) 62
 - randomised controlled trial (RCT) 53
 - risk of ovarian cancer (ROC) 50, 56
 - risk of ovarian cancer algorithm (ROCA) 53
 - screening studies 51, 53 (see also target populations)
 - transabdominal ultrasound (TAS) 53
 - UKCTOCS, trial design 50, 56–7, 64
 - Ultrasound (USS) 53
- ultrasound 54
 - methods, various 54
 - vaginal examination 49
- staging (CT), initial diagnosis 132
 - CT-guided peritoneal biopsy, technique 142
 - image guided biopsy, criteria 142–3
 - needle core biopsies 143
 - neoadjuvant chemotherapy (before surgery), 132
 - ovarian cancer, untreated, CT features 134
 - (see also pre-surgical imaging, accuracy, evidence, current best)
 - appearances, primary 135
 - calcified, heavily 139
 - classification, FIGO 137
 - contrast-enhanced CT 138
 - disease, stage II 138
 - ovarian metastasis, appearances 136
 - radiological diagnostic oncology group (RDOG) 135, 138–9, 146, 148
- pre-surgical imaging, accuracy, evidence, current best 138
 - biopsy, omental 141, 143
 - haematoxylin and eosin (H&F) staining 141, 143
 - image-guided needle core biopsy (IGB) 138–9
 - immunohistochemical stains 141
 - intervention (interval) debulking surgery (IDS) 140
 - lymphoma, non-Hodgkin 141
 - primary peritoneal carcinoma (PPC) 142
- technique, CT 133–4
 - contrast medium nephrotoxicity (CMN) 134
- suspected relapse (CT), follow-up 146
 - assessment, 147
 - National Cancer Institute (NCI) 146
- target populations 58
 - population, general 63
 - population, high-risk 58
 - UK familial ovarian cancer screening study (UKFOCSS) 58
- test acceptability 57
- ultrasonic, technique 94
 - assessment, morphological 94
 - Doppler, examination 95
 - pulsatility index (PI) 95
 - resistance index (RI) 95
 - new developments 95