

# Contents

<b>List of abbreviations</b>	<b>xi</b>		
<b>Foreword</b>	<b>xii</b>		
<b>WHO classification of tumours of the female genital tract</b>			
Tumours of the ovary	1	Malignant clear cell tumours	
Tumours of the peritoneum	3	Clear cell carcinoma	65
Tumours of the fallopian tube	4	Seromucinous tumours	
Tumours of the broad ligament and other uterine ligaments	5	Benign seromucinous tumours	
Tumours of the uterine corpus	6	Seromucinous cystadenoma and adenofibroma	68
Gestational trophoblastic disease	7	Borderline seromucinous tumours	
Tumours of the uterine cervix	8	Seromucinous borderline tumour	69
Tumours of the vagina	9	Malignant seromucinous tumours	
Tumours of the vulva	10	Seromucinous carcinoma	70
Neuroendocrine neoplasia	11	Brenner tumours	
Haematolymphoid proliferations and neoplasia	12	Benign Brenner tumours	
Mesenchymal tumours of the lower genital tract	13	Brenner tumour	71
Melanocytic lesions	14	Borderline Brenner tumours	
		Borderline Brenner tumour	73
		Malignant Brenner tumours	
		Malignant Brenner tumour	75
		Other carcinomas	
		Mesonephric-like adenocarcinoma	77
		Undifferentiated and dedifferentiated carcinomas	79
		Carcinosarcoma	81
		Mixed carcinoma	83
		Mesenchymal tumours	
		Endometrioid stromal sarcoma	85
		Smooth muscle tumours	87
		Ovarian myxoma	89
		Other ovarian mesenchymal tumours	90
		Mixed epithelial and mesenchymal tumours	
		Mixed malignant epithelial and mesenchymal tumours	
		Adenosarcoma	91
		Sex cord–stromal tumours	
		Pure stromal tumours	
		Ovarian fibroma	93
		Thecoma	94
		Luteinized thecoma associated with sclerosing peritonitis	95
		Sclerosing stromal tumour	96
		Microcystic stromal tumour	97
		Signet-ring stromal tumour	99
		Leydig cell tumour	100
		Steroid cell tumour	102
		Ovarian fibrosarcoma	104
		Pure sex cord tumours	
		Adult granulosa cell tumour	105
		Juvenile granulosa cell tumour	107
		Sertoli cell tumour	109
		Sex cord tumour with annular tubules	111
		Mixed sex cord–stromal tumours	
		Sertoli–Leydig cell tumour	113
		Sex cord–stromal tumour NOS	116
		Gynandroblastoma	117
		Germ cell tumours	
		Mature teratoma	119
		Immature teratoma	121
		Dysgerminoma	123
		Yolk sac tumour	125
		Embryonal carcinoma	127
		Non-gestational choriocarcinoma	129
		Mixed germ cell tumour	131
		Monodermal teratomas and somatic-type tumours	
		arising from a dermoid cyst	
		Struma ovarii	132
		Ovarian carcinoid	134
<b>TNM staging of gynaecological tumours</b>	<b>15</b>		
Ovarian, fallopian tube, and primary peritoneal carcinoma	16		
Tumours of the uterus – endometrium	18		
Uterine sarcomas	20		
Gestational trophoblastic neoplasms	22		
Tumours of the cervix uteri: 2021 revision	23		
Tumours of the vagina	25		
Tumours of the vulva	26		
<b>TNM staging of tumours of soft tissues</b>	<b>27</b>		
<b>General introduction</b>	<b>29</b>		
<b>1 Tumours of the ovary</b>	<b>31</b>		
Introduction	32		
Serous tumours			
Benign serous tumours			
Serous cystadenoma, adenofibroma, and surface papilloma	36		
Borderline serous tumours			
Serous borderline tumour	38		
Malignant serous tumours			
Low-grade serous carcinoma	43		
High-grade serous carcinoma	45		
Mucinous tumours			
Benign mucinous tumours			
Mucinous cystadenoma and adenofibroma	48		
Borderline mucinous tumours			
Mucinous borderline tumour	50		
Malignant mucinous tumours			
Mucinous carcinoma	53		
Endometrioid tumours			
Benign endometrioid tumours			
Endometrioid cystadenoma and adenofibroma	55		
Borderline endometrioid tumours			
Endometrioid borderline tumour	56		
Malignant endometrioid tumours			
Endometrioid carcinoma	58		
Clear cell tumours			
Benign clear cell tumours			
Clear cell cystadenoma and adenofibroma	62		
Borderline clear cell tumours			
Clear cell borderline tumour	63		

Neuroectodermal-type tumours	136	Borderline serous tumours	
Monodermal cystic teratoma	137	Serous borderline tumour	218
Somatic neoplasms arising from teratomas	138	Malignant epithelial tumours	
Germ cell–sex cord–stromal tumours		High-grade serous carcinoma	219
Gonadoblastoma	140	Endometrioid carcinoma	221
Mixed germ cell–sex cord–stromal tumour, unclassified	143	Carcinosarcoma	222
Miscellaneous tumours		Tumour-like lesions	
Rete cystadenoma, adenoma, and adenocarcinoma	144	Paratubal cysts	223
Wolffian tumour	145	Tubal hyperplasia	224
Solid pseudopapillary tumour	147	Tubo-ovarian abscess	225
Small cell carcinoma of the ovary, hypercalcaemic type	149	Salpingitis isthmica nodosa	226
Wilms tumour	151	Metaplastic papillary lesion	227
Mesothelial tumours (see Ch. 3)		Placental site nodule	228
Tumour-like lesions		Mucinous metaplasia	229
Follicle cyst	153	Endosalpingiosis	230
Corpus luteum cyst	154	Mixed epithelial and mesenchymal tumours	
Large solitary luteinized follicle cyst	155	Adenosarcoma	230
Hyperreactio luteinalis	156	Germ cell tumours	
Pregnancy luteoma	158	Teratoma	231
Stromal hyperplasia and hyperthecosis	160	<b>5 Tumours of the broad ligament and other uterine ligaments</b>	<b>233</b>
Fibromatosis and massive oedema	161	Introduction	234
Leydig cell hyperplasia	162	Mesenchymal and mixed tumours	
Metastases	163	Leiomyoma	235
<b>2 Endometriosis and related conditions</b>	<b>169</b>	Adenomyoma	236
Endometriosis and derived tumours	170	Adenosarcoma	237
<b>3 Tumours of the peritoneum</b>	<b>175</b>	Leiomyosarcoma	238
Introduction	176	Other mesenchymal and mixed tumours	238
Mesothelial tumours		Miscellaneous tumours	
Adenomatoid tumour	177	Wolffian tumour	239
Well-differentiated papillary mesothelial tumour	179	Papillary cystadenoma	240
Mesothelioma	181	Ependymoma	242
Epithelial tumours		Tumour-like lesions	
Epithelial tumours of Müllerian type		Adrenocortical remnants	243
Serous borderline tumour	184	<b>6 Tumours of the uterine corpus</b>	<b>245</b>
Low-grade serous carcinoma	186	Introduction	246
High-grade serous carcinoma	187	Endometrial epithelial tumours and precursors	
Mesenchymal tumours specific to peritoneum		Precursor lesions	
Smooth muscle tumours		Endometrial hyperplasia without atypia	248
Leiomyomatosis peritonealis disseminata	188	Endometrial atypical hyperplasia / endometrioid intraepithelial neoplasia	250
Miscellaneous primary tumours		Endometrial carcinomas	
Desmoid fibromatosis	190	Endometrioid carcinoma	252
Calcifying fibrous tumour	192	Serous carcinoma	256
Extragastrointestinal stromal tumour	193	Clear cell carcinoma	258
Solitary fibrous tumour	195	Undifferentiated and dedifferentiated carcinomas	260
Endometrioid stromal sarcoma	197	Mixed carcinoma	262
Desmoplastic small round cell tumour	199	Other endometrial carcinomas	264
Tumour-like lesions		Carcinosarcoma	266
Mesothelial hyperplasia	201	Tumour-like lesions	
Peritoneal inclusion cysts	202	Endometrial polyp	268
Transitional cell metaplasia	203	Endometrial metaplasia	269
Endosalpingiosis	204	Arias-Stella reaction	271
Histiocytic nodule	205	Mesenchymal tumours of the uterus	
Ectopic decidua	206	Smooth muscle tumours	
Splenositis	207	Uterine leiomyoma	272
Other tumour-like lesions	208	Intravenous leiomyomatosis	277
Metastases		Smooth muscle tumour of uncertain malignant potential	279
Carcinomas and sarcomas	209	Metastasizing leiomyoma	281
Pseudomyxoma peritonei	211	Uterine leiomyosarcoma	283
Gliomatosis	214	Endometrial stromal and related tumours	
<b>4 Tumours of the fallopian tube</b>	<b>215</b>	Endometrial stromal nodule	286
Introduction	216	Low-grade endometrial stromal sarcoma	287
Epithelial tumours		High-grade endometrial stromal sarcoma	289
Benign serous tumours		Undifferentiated uterine sarcoma	292
Serous adenofibroma and papilloma	217		

Miscellaneous mesenchymal tumours		Adenosquamous and mucoepidermoid carcinomas	383
Uterine tumour resembling ovarian sex cord tumour	294	Adenoid basal carcinoma	384
Perivascular epithelioid cell tumour (PEComa)	296	Carcinoma, unclassifiable	386
Inflammatory myofibroblastic tumour	298	Mixed epithelial and mesenchymal tumours	
Other mesenchymal tumours of the uterus	300	Adenomyoma	387
Mixed epithelial and mesenchymal tumours		Adenosarcoma	388
Adenomyoma	301	Germ cell tumours	389
Atypical polypoid adenomyoma	303		
Adenosarcoma	305	<b>9 Tumours of the vagina</b>	<b>391</b>
Miscellaneous tumours		Introduction	392
Central primitive neuroectodermal tumour / CNS		Epithelial tumours	
embryonal tumour	307	Benign squamous lesions	
Germ cell tumours	308	Condyloma acuminatum (see Ch. 10)	
		Squamous papilloma	393
<b>7 Gestational trophoblastic disease</b>	<b>309</b>	Atrophy	394
Introduction	310	Tubulosquamous polyp	395
Tumour-like lesions		Squamous cell tumours and precursors	
Non-neoplastic lesions		Squamous intraepithelial lesions	396
Exaggerated placental site reaction	311	Squamous cell carcinoma, HPV-associated	398
Placental site nodule and plaque	313	Squamous cell carcinoma, HPV-independent	400
Abnormal (non-molar) villous lesions	315	Squamous cell carcinoma NOS	401
Molar pregnancies		Benign glandular lesions	
Partial hydatidiform mole	317	Villous adenoma	402
Complete hydatidiform mole	319	Müllerian papilloma	403
Invasive and metastatic hydatidiform moles	322	Vaginal adenosis	404
Gestational trophoblastic neoplasms		Endocervicosis	405
Epithelioid trophoblastic tumour	323	Cysts	406
Placental site trophoblastic tumour	325	Glandular tumours	
Gestational choriocarcinoma	327	Adenocarcinoma, HPV-associated	407
Mixed trophoblastic tumour	332	Endometrioid carcinoma	408
		Clear cell carcinoma	409
<b>8 Tumours of the uterine cervix</b>	<b>335</b>	Mucinous carcinoma, gastric type	410
Introduction	336	Mucinous carcinoma, intestinal type	411
Squamous epithelial tumours		Mesonephric adenocarcinoma	412
Mimics of squamous precursor lesions		Carcinosarcoma	413
Squamous metaplasia	338	Other epithelial tumours	
Atrophy	341	Mixed tumour of the vagina	414
Squamous cell tumours and precursors		Adenocarcinoma of Skene gland origin	415
Condyloma acuminatum (see Ch. 10)		Adenosquamous carcinoma	416
Squamous intraepithelial lesions	342	Adenoid basal carcinoma	416
Squamous cell carcinoma, HPV-associated	347	Mixed epithelial and mesenchymal tumours	
Squamous cell carcinoma, HPV-independent	350	Adenosarcoma	417
Squamous cell carcinoma NOS	351	Miscellaneous tumours	
Glandular tumours and precursors		Germ cell tumours	418
Benign glandular lesions			
Endocervical polyp	352	<b>10 Tumours of the vulva</b>	<b>419</b>
Müllerian papilloma	353	Introduction	420
Nabothian cyst	354	Epithelial tumours	
Tunnel clusters	355	Benign squamous lesions	
Microglandular hyperplasia	356	Seborrheic keratosis	421
Lobular endocervical glandular hyperplasia	357	Condyloma acuminatum	422
Diffuse laminar endocervical hyperplasia	358	Squamous cell tumours and precursors	
Mesonephric remnants and hyperplasia	359	Squamous intraepithelial lesions, HPV-associated	424
Arias-Stella reaction	360	Vulvar intraepithelial neoplasia, HPV-independent	426
Endocervicosis	361	Squamous cell carcinoma, HPV-associated	429
Tuboendometrioid metaplasia	362	Squamous cell carcinoma, HPV-independent	432
Ectopic prostate tissue	363	Squamous cell carcinoma NOS	434
Adenocarcinomas		Basal cell carcinoma	434
Adenocarcinoma in situ, HPV-associated	364	Glandular tumours and cysts	
Adenocarcinoma, HPV-associated	367	Mammary-type glandular lesions	
Adenocarcinoma in situ, HPV-independent	372	Papillary hidradenoma	435
Adenocarcinoma, HPV-independent, gastric type	374	Chondroid syringoma	436
Adenocarcinoma, HPV-independent, clear cell type	376	Fibroadenoma	437
Adenocarcinoma, HPV-independent, mesonephric type	378	Phyllodes tumour	438
Other adenocarcinomas	380	Adenocarcinoma of mammary gland type	439
Other epithelial tumours		Bartholin gland lesions	
Carcinosarcoma	382	Bartholin gland cyst	440
		Hyperplasia, adenoma, and adenomyoma	441

Bartholin gland carcinomas	442	Skeletal muscle tumours	
Other cysts	444	Rhabdomyoma	511
Adenocarcinomas of other types		Rhabdomyosarcoma	512
Paget disease	445	Peripheral nerve sheath tumours	
Carcinomas of sweat gland origin	447	Benign peripheral nerve sheath tumours	515
Adenocarcinoma of intestinal type	448	Granular cell tumour	517
Germ cell tumours	449	Tumours of uncertain differentiation	
<b>11 Neuroendocrine neoplasia</b>	<b>451</b>	Superficial angiomyxoma	519
Introduction	452	Deep (aggressive) angiomyxoma	520
Neuroendocrine tumour	453	Epithelioid sarcoma	522
Neuroendocrine carcinoma		Alveolar soft part sarcoma	524
Small cell neuroendocrine carcinoma	455	Undifferentiated small round cell sarcomas	
Large cell neuroendocrine carcinoma	457	Ewing sarcoma	526
Mixed neuroendocrine–non-neuroendocrine neoplasms		<b>14 Melanocytic lesions</b>	<b>527</b>
Carcinoma admixed with neuroendocrine carcinoma	459	Naevi	
<b>12 Haematolymphoid proliferations and neoplasia</b>	<b>461</b>	Acquired melanocytic naevus	528
Introduction	462	Congenital melanocytic naevus	530
Reactive lymphoid hyperplasia		Blue naevus	532
Florid reactive lymphoid hyperplasia	465	Atypical melanocytic naevus of genital type	534
Lymphomas		Dysplastic melanocytic naevus	535
Diffuse large B-cell lymphoma	467	Melanoma	
Extranodal marginal zone lymphoma	469	Mucosal melanoma	537
Follicular lymphoma	471	<b>15 Metastasis</b>	<b>539</b>
Burkitt lymphoma	473	Metastasis to the lower female genital tract	540
Myeloid leukaemia		<b>16 Genetic tumour syndromes of the female genital tract</b>	<b>543</b>
Myeloid sarcoma	474	<i>BRCA1/2</i> -associated hereditary breast and ovarian cancer	
<b>13 Mesenchymal tumours of the lower genital tract</b>	<b>477</b>	syndrome	544
Introduction	478	Lynch syndrome	546
Adipocytic tumours		Cowden syndrome	548
Lipoma	480	Li–Fraumeni syndrome	550
Lipoblastoma-like tumour of the vulva	481	Peutz–Jeghers syndrome	552
Liposarcoma	483	Ataxia–telangiectasia	554
Fibroblastic and myofibroblastic tumours		Carney complex	555
Postoperative spindle cell nodule	485	<i>DICER1</i> syndrome	556
Fibroepithelial stromal polyp	486	Ovarian dysgenesis	558
Prepubertal fibroma	488	Von Hippel–Lindau syndrome	560
Superficial myofibroblastoma	490	Hereditary leiomyomatosis and renal cell carcinoma	561
Myofibroblastoma	491	Other genetic tumour syndromes	563
Cellular angiofibroma	493	<b>Contributors</b>	<b>564</b>
Angiomyofibroblastoma	495	<b>Declaration of interests</b>	<b>570</b>
Solitary fibrous tumour	497	<b>IARC/WHO Committee for ICD-O</b>	<b>571</b>
Dermatofibrosarcoma protuberans	498	<b>Sources</b>	<b>572</b>
NTRK-rearranged spindle cell neoplasm (emerging)	500	<b>References</b>	<b>577</b>
Vascular tumours		<b>Subject index</b>	<b>625</b>
Kaposi sarcoma	502	<b>Previous volumes in the series</b>	<b>632</b>
Angiosarcoma	504		
Smooth muscle tumours			
Leiomyoma	506		
Smooth muscle tumour of uncertain malignant potential	508		
Leiomyosarcoma	509		