

Contents

1	Tumours of the kidney	9		
	WHO and TNM classifications	10		Primitive neuroectodermal tumour (Ewing sarcoma)
	Renal cell carcinoma	12		Neuroblastoma
	Familial renal cancer	15		Paraganglioma / Pheochromocytoma
	Clear cell renal cell carcinoma	23		Lymphomas
	Multilocular cystic renal cell	26		Plasmacytoma
	Papillary renal cell carcinoma	27		Leukaemia
	Chromophobe renal cell carcinoma	30		Germ cell tumours
	Carcinoma of the collecting ducts of Bellini	33		
	Renal medullary carcinoma	35		
	Renal carcinomas associated with Xp11.2 translocations / <i>TFE3</i> gene fusions	37	2	Tumours of the urinary system
	Renal cell carcinoma associated with neuroblastoma	39		WHO and TNM classifications
	Mucinous tubular spindle cell carcinoma	40		Infiltrating urothelial carcinoma
	Papillary adenoma of the kidney	41		Non-invasive urothelial tumours
	Oncocytoma	42		Urothelial hyperplasia
	Renal cell carcinoma unclassified	43		Urothelial dysplasia
	Metanephric tumours			Urothelial papilloma
	Metanephric adenoma	44		Inverted papilloma
	Metanephric adenofibroma	44		Papillary urothelial neoplasm of low malignant potential
	Metanephric adenosarcoma	44		Non-invasive high grade papillary urothelial carcinoma
	Metanephric stromal tumour	46		Urothelial carcinoma in situ
	Nephroblastic tumours			Genetics and predictive factors
	Nephroblastoma	48		Squamous neoplasms
	Nephrogenic rests and nephroblastomatosis	53		Squamous cell carcinoma
	Cystic, partially differentiated nephroblastoma	55		Verrucous squamous cell carcinoma
	Soft tissue tumours			Squamous cell papilloma
	Clear cell sarcoma	56		Glandular neoplasms
	Rhabdoid tumour	58		Adenocarcinoma
	Congenital mesoblastic nephroma	60		Urachal carcinoma
	Ossifying renal tumour of infancy	62		Clear cell adenocarcinoma
	Haemangiopericytoma	62		Villous adenoma
	Leiomyosarcoma	63		Neuroendocrine tumours
	Osteosarcoma	63		Small cell carcinoma
	Renal angiosarcoma	64		Paraganglioma
	Malignant fibrous histiocytoma	64		Carcinoid
	Angiomyolipoma	65		Soft tissue tumours
	Epithelioid angiomyolipoma	68		Rhabdomyosarcoma
	Leiomyoma	70		Leiomyosarcoma
	Haemangioma	71		Angiosarcoma
	Lymphangioma	71		Osteosarcoma
	Juxtaglomerular cell tumour	72		Malignant fibrous histiocytoma
	Renomedullary interstitial cell tumour	74		Leiomyoma
	Intrarenal schwannoma	75		Other mesenchymal tumours
	Solitary fibrous tumour	75		Granular cell tumour
	Cystic nephroma	76		Neurofibroma
	Mixed epithelial and stromal tumour	77		Haemangioma
	Synovial sarcoma	79		Malignant melanoma
	Neural / neuroendocrine tumours			Lymphomas
	Renal carcinoid tumour	81		Metastatic tumours and secondary extension
	Neuroendocrine carcinoma	82		Tumours of the renal pelvis and ureter
				Tumours of the urethra

3	Tumours of the prostate	159	5	Tumours of the penis	279
	WHO and TNM classifications	160		WHO and TNM classifications	280
	Acinar adenocarcinoma	162		Malignant epithelial tumours	281
	Prostatic intraepithelial neoplasia	193		Squamous cell carcinoma	283
	Ductal adenocarcinoma	199		Basaloid carcinoma	285
	Urothelial carcinoma	202		Warty (condylomatous) carcinoma	285
	Squamous neoplasms	205		Verrucous carcinoma	286
	Basal cell carcinoma	206		Papillary carcinoma (NOS)	286
	Neuroendocrine tumours	207		Sarcomatoid (spindle cell) carcinoma	286
	Mesenchymal tumours	209		Mixed carcinomas	287
	Haematolymphoid tumours	212		Adenosquamous carcinoma	287
	Secondary tumours involving the prostate	212		Merkel cell carcinoma	287
	Miscellaneous tumours	213		Small cell carcinoma of neuroendocrine type	287
	Tumours of the seminal vesicles	214		Sebaceous carcinoma	287
4	Tumours of the testis and paratesticular tissue	217		Clear cell carcinoma	287
	WHO and TNM classifications	218		Basal cell carcinoma	287
	Introduction	220		Precursor lesions	288
	Germ cell tumours	221		Intraepithelial neoplasia Grade III	288
	Precursor lesions	228		Giant condyloma	288
	Seminoma	230		Bowen disease	289
	Spermatocytic seminoma	233		Erythroplasia of Queyrat	289
	Spermatocytic seminoma with sarcoma	235		Paget disease	290
	Embryonal carcinoma	236		Melanocytic lesions	291
	Yolk sac tumour	237		Mesenchymal tumours	292
	Choriocarcinoma	240		Lymphomas	297
	Teratomas	243		Secondary tumours	298
	Dermoid cyst	244			
	Mixed germ cell tumours	246	Contributors		299
	Sex cord / gonadal stromal tumours	250	Source of charts and photographs		304
	Leydig cell tumour	250	References		306
	Malignant Leydig cell tumour	251	Subject index		353
	Sertoli cell tumour	252			
	Malignant Sertoli cell tumour	255			
	Granulosa cell tumours	255			
	Thecoma/fibroma tumours	257			
	Incompletely differentiated tumours	257			
	Mixed forms	257			
	Malignant sex cord / gonadal stromal tumours	258			
	Tumours containing both germ cell and sex cord / gonadal stromal elements	259			
	Gonadoblastoma	259			
	Miscellaneous tumours	261			
	Lymphoma and plasmacytoma and paratesticular tissues	263			
	Tumours of collecting ducts and rete	265			
	Tumours of paratesticular structures	267			
	Adenomatoid tumour	267			
	Mesothelioma	267			
	Adenocarcinoma of the epididymis	270			
	Papillary cystadenoma of epididymis	270			
	Melanotic neuroectodermal tumour	271			
	Desmoplastic small round cell tumour	272			
	Mesenchymal tumours	273			
	Secondary tumours	277			