

Contents

WHO classification of skin tumours	10	2 Melanocytic tumours	65
TNM classification of skin tumours	14	Introduction	66
Carcinoma of skin	14	Melanocytic tumour classification and the pathway concept of melanoma pathogenesis	66
Skin carcinoma of the head and neck	15	Genomic landscape of melanoma	72
Carcinoma of skin of the eyelid	16	Melanocytic tumours in intermittently sun-exposed skin	76
Malignant melanoma of skin	17	Low-CSD melanoma (superficial spreading melanoma)	76
Merkel cell carcinoma of skin	19	Simple lentigo and lentiginous melanocytic naevus	78
Soft tissue sarcoma of skin	20	Junctional, compound, and dermal naevi	80
Primary cutaneous lymphomas	21	Dysplastic naevus	82
1 Keratinocytic/epidermal tumours	23	Naevus spilus	87
Introduction	24	Special-site naevi (of the breast, axilla, scalp, and ear)	89
Carcinomas	24	Halo naevus	91
Carcinoma precursors and benign simulants	25	Meyerson naevus	93
Carcinomas		Recurrent naevus	94
Basal cell carcinoma	26	Deep penetrating naevus and melanocytoma	95
Nodular basal cell carcinoma	27	Pigmented epithelioid melanocytoma	97
Superficial basal cell carcinoma	28	Combined naevus, including combined <i>BAP1</i> -inactivated naevus/melanocytoma	99
Micronodular basal cell carcinoma	29	Melanocytic tumours in chronically sun-exposed skin	102
Infiltrating basal cell carcinoma	30	Lentigo maligna melanoma	102
Sclerosing/morphoeic basal cell carcinoma	30	Desmoplastic melanoma	105
Basosquamous carcinoma	31	Spitz tumours	108
Pigmented basal cell carcinoma	32	Malignant Spitz tumour (Spitz melanoma)	108
Basal cell carcinoma with sarcomatoid differentiation	32	Spitz naevus	111
Basal cell carcinoma with adnexal differentiation	33	Pigmented spindle cell naevus (Reed naevus)	114
Fibroepithelial basal cell carcinoma	34	Melanocytic tumours in acral skin	116
Squamous cell carcinoma	35	Acral melanoma	116
Squamous cell carcinoma	35	Acral naevus	119
Keratoacanthoma	36	Genital and mucosal melanocytic tumours	121
Acantholytic squamous cell carcinoma	38	Mucosal melanomas (genital, oral, sinonasal)	121
Spindle cell squamous cell carcinoma	40	Genital naevus	123
Verrucous squamous cell carcinoma	41	Melanocytic tumours arising in blue naevus	124
Adenosquamous carcinoma	42	Melanoma arising in blue naevus	124
Clear cell squamous cell carcinoma	43	Blue naevus and cellular blue naevus	126
Other (uncommon) variants	44	Mongolian spot	130
Squamous cell carcinoma in situ (Bowen disease)	46	Naevus of Ito and naevus of Ota	131
Merkel cell carcinoma	48	Melanocytic tumours arising in congenital naevi	132
Carcinoma precursors and benign simulants		Melanoma arising in giant congenital naevus	132
Premalignant keratoses	51	Congenital melanocytic naevus	134
Actinic keratosis	51	Proliferative nodules in congenital melanocytic naevus	136
Arsenical keratosis	52	Ocular melanocytic tumours	137
PUVA keratosis	53	Uveal melanoma	137
Verrucae	54	Conjunctival melanoma	139
Verruca vulgaris	54	Conjunctival melanocytic intraepithelial neoplasia/primary acquired melanosis	141
Verruca plantaris	55	Conjunctival naevus	143
Verruca plana	56	Nodular, naevoid, and metastatic melanomas	145
Benign acanthomas/keratoses	57	Nodular melanoma	145
Seborrhoeic keratosis	57	Naevoid melanoma	147
Solar lentigo	59	Metastatic melanoma	150
Lichen planus-like keratosis	60		
Clear cell acanthoma	60		
Large cell acanthoma	61		
Warty dyskeratoma	62		
Other benign keratoses	63		

3 Appendageal tumours	153	4 Tumours of haematopoietic and lymphoid origin	223
Introduction	154	Introduction	224
Malignant tumours with apocrine and eccrine differentiation	155	Mycosis fungoides	226
Adnexal adenocarcinoma not otherwise specified	155	Variants of mycosis fungoides	231
Microcystic adnexal carcinoma	157	Folliculotropic mycosis fungoides	231
Porocarcinoma	159	Granulomatous slack skin	232
Malignant neoplasms arising from spiradenoma, cylindroma, or spiradenocylindroma	161	Pagetoid reticulosis	233
Malignant mixed tumour	163	Sézary syndrome	234
Hidradenocarcinoma	164	Primary cutaneous CD30+ T-cell lymphoproliferative disorders	236
Mucinous carcinoma	166	Lymphomatoid papulosis	236
Endocrine mucin-producing sweat gland carcinoma	168	Primary cutaneous anaplastic large cell lymphoma	238
Digital papillary adenocarcinoma	170	Cutaneous adult T-cell leukaemia/lymphoma	240
Adenoid cystic carcinoma	172	Subcutaneous panniculitis-like T-cell lymphoma	242
Apocrine carcinoma	174	Cutaneous manifestations of chronic active EBV infection	244
Squamous eccrine ductal carcinoma	176	Extranodal NK/T-cell lymphoma, nasal type	246
Syringocystadenocarcinoma papilliferum	177	Primary cutaneous peripheral T-cell lymphomas, rare subtypes	248
Secretory carcinoma	179	Primary cutaneous gamma-delta T-cell lymphoma	248
Cribriform carcinoma	180	Primary cutaneous CD8+ aggressive epidermotropic cytotoxic T-cell lymphoma	249
Signet-ring cell/histiocytoid carcinoma	182	Primary cutaneous acral CD8+ T-cell lymphoma	250
Benign tumours with apocrine and eccrine differentiation	183	Primary cutaneous CD4+ small/medium T-cell lymphoproliferative disorder	252
Hidrocystoma/cystadenoma	183	Secondary cutaneous involvement in T-cell lymphomas and leukaemias	254
Syringoma	184	Systemic anaplastic large cell lymphoma	254
Poroma	185	Angioimmunoblastic T-cell lymphoma	254
Syringofibroadenoma	186	T-cell prolymphocytic leukaemia	255
Hidradenoma	187	Primary cutaneous marginal zone (MALT) lymphoma	256
Spiradenoma	189	Primary cutaneous follicle centre lymphoma	258
Cylindroma	190	Primary cutaneous diffuse large B-cell lymphoma, leg type	260
Tubular adenoma	191	Intravascular large B-cell lymphoma	262
Syringocystadenoma papilliferum	192	EBV-positive mucocutaneous ulcer	263
Mixed tumour	193	Lymphomatoid granulomatosis	265
Myoepithelioma	194	Cutaneous involvement in primarily extracutaneous B-cell lymphomas and leukaemias	266
Malignant tumours with follicular differentiation	195	Mantle cell lymphoma	266
Pilomatrical carcinoma	195	Burkitt lymphoma	267
Proliferating trichilemmal tumour	196	Chronic lymphocytic leukaemia/ small lymphocytic lymphoma	268
Trichoblastic carcinoma/carcinosarcoma	197	T-lymphoblastic and B-lymphoblastic leukaemia/lymphoma	270
Trichilemmal carcinoma	199	Blastic plasmacytoid dendritic cell neoplasm	271
Benign tumours with follicular differentiation	201	Cutaneous involvement in myeloid leukaemia	273
Trichoblastoma	201	Cutaneous mastocytosis	275
Pilomatricoma	203	Introduction to histiocytic and dendritic cell neoplasms	279
Trichilemmoma	204	Langerhans cell histiocytosis	281
Trichofolliculoma	206	Indeterminate cell histiocytosis/indeterminate dendritic cell tumour	283
Pilar sheath acanthoma	207	Rosai–Dorfman disease	284
Tumour of the follicular infundibulum	208	Juvenile xanthogranuloma	285
Melanocytic matricoma	209	Erdheim–Chester disease	287
Spindle cell-predominant trichodiscoma	210	Reticulohistiocytosis	289
Tumours with sebaceous differentiation	211		
Sebaceous carcinoma	211		
Sebaceous adenoma	213		
Sebaceoma	214		
Site-specific tumours	216		
Mammary Paget disease	216		
Extramammary Paget disease	217		
Adenocarcinoma of anogenital mammary-like glands	219		
Hidradenoma papilliferum	220		
Fibroadenoma and phyllodes tumour of anogenital mammary-like glands	221		

5 Soft tissue tumours	291		
Introduction	292	Glomeruloid haemangioma	348
Adipocytic tumours	294	Spindle cell haemangioma	349
Atypical lipomatous tumour	294	Epithelioid haemangioma	349
Pleomorphic liposarcoma	295	Tufted haemangioma	350
Lipoma	296	Angiokeratoma	351
Spindle cell/pleomorphic lipoma	298	Infantile haemangioma	351
Angiolipoma	300	Congenital non-progressive haemangiomas: rapidly involuting congenital haemangioma and non-involuting congenital haemangioma	352
Naevus lipomatous superficialis	301	Lobular capillary haemangioma	353
Fibroblastic, myofibroblastic, and fibrohistiocytic tumours	302	Verrucous venous malformation	354
Myxoinflammatory fibroblastic sarcoma	302	Arteriovenous malformation	355
Dermatofibrosarcoma protuberans and variants	304	Lymphangioma (superficial lymphatic malformation)	356
Plexiform fibrohistiocytic tumour	307	Neural tumours	358
Superficial fibromatosis	308	Neurofibroma and variants	358
Dermatofibroma (fibrous histiocytoma) and variants	310	Solitary circumscribed neuroma	360
Epithelioid fibrous histiocytoma	313	Dermal nerve sheath myxoma	361
Fibromas	314	Perineurioma	362
Fibroma of tendon sheath	314	Granular cell tumour	364
Calcifying aponeurotic fibroma	314	Schwannoma	365
Sclerotic fibroma	315	Malignant peripheral nerve sheath tumour	367
Nuchal-type fibroma	315	Tumours of uncertain differentiation	368
Gardner fibroma	316	Atypical fibroxanthoma and variants	368
Pleomorphic fibroma	316	Pleomorphic dermal sarcoma	370
Elastofibroma	317	Myxofibrosarcoma	371
Collagenous fibroma	317	Epithelioid sarcoma	373
Superficial acral fibromyxoma	318	Dermal clear cell sarcoma	374
Cutaneous myxoma	319	Ewing sarcoma	375
Dermatomyofibroma	321	Primitive non-neural granular cell tumour	376
Myofibroma and myofibromatosis	322	Cellular neurothekeoma	377
Plaque-like CD34+ dermal fibroma	324		
Nodular fasciitis	326		
Smooth muscle tumours	328	6 Inherited tumour syndromes associated with skin malignancies	379
Cutaneous leiomyomas and variants	328	Introduction	380
Cutaneous leiomyosarcoma (atypical smooth muscle tumour)	330	Familial melanoma	383
(Myo)pericytic tumours	331	Xeroderma pigmentosum	386
Glomus tumour and variants	331	Naevoid basal cell carcinoma syndrome (Gorlin syndrome)	388
Myopericytoma and variants	333	Carney complex	391
Angioleiomyoma	334	BAP1 tumour predisposition syndrome	393
Vascular tumours	335	Muir–Torre syndrome	395
Cutaneous angiosarcoma	335		
Haemangioendotheliomas	337	Contributors	398
Composite haemangioendothelioma	337		
Kaposiform haemangioendothelioma	337	Declaration of interests	409
Pseudomyogenic haemangioendothelioma	338		
Retiform haemangioendothelioma	339	IARC/WHO Committee for ICD-O	410
Epithelioid haemangioendothelioma	339		
Kaposi sarcoma	341	Sources of figures and tables	411
Atypical vascular lesion	344		
Cutaneous epithelioid angiomatic nodule	345	References	415
Haemangiomas	346		
Cherry haemangioma	346	Subject index	462
Sinusoidal haemangioma	346		
Microvenular haemangioma	347	List of abbreviations	470
Hobnail haemangioma	347		