

Index

A

- Adenomatoid tumor, 76, 77
- Adipose tissue tumors
 - benign tumors
 - angioliipoma, 6
 - chondroid lipoma, 9
 - fibrolipoma, 5
 - hibernoma, 8
 - lipoblastoma, 9
 - lipoma (*see* Lipoma)
 - myelolipoma, 6
 - pleomorphic lipoma, 8
 - spindle cell lipoma, 7
 - lipoblasts (*see* Lipoblasts)
 - liposarcoma (*see* Liposarcoma)
- Adult fibrosarcoma, 46
- Alveolar rhabdomyosarcoma, 116, 117
- Alveolar soft part sarcoma, 157
- Amyloid tumor, of soft tissues, 173
- Aneurysmal fibrous histiocytoma, 53
- Angioleiomyoma, 122, 123
- Angioliipoma, 6
- Angiomatoid fibrous histiocytoma, 154
- Angiomatosis, 135
- Angiomyofibroblastoma, 70, 71
- Angiomyxoma, aggressive/deep, 71, 72
- Angiosarcoma
 - in breast, 145
 - CD31 marker, 145
 - epithelioid, 146
 - postradiation cutaneous specimen, 144
 - spindle cell, 146
- Atypical decubital fibroplasia. *See* Ischemic fasciitis
- Atypical fibroxanthoma, 60
- Atypical lipomatous tumor
 - inflammatory variant, 10
 - MDM2* gene amplification, 1, 11
 - sclerosing variant, 10
- Atypical neurofibroma, 86

B

- Bednar tumor, 62
- Benign tumors
 - ectopic hamartomatous thymoma, 153
 - hemosiderotic fibrohistiocytic lipomatous lesion, 152
 - intramuscular myxoma, 151
 - juxta-articular myxoma, 152
 - pleomorphic hyalinizing angiectatic tumor, 153
 - superficial acral fibromyxoma, 150, 151
 - superficial angiomyxoma, 150
- Bivacuolated lipoblasts, 2

C

- Calcifying aponeurotic fibroma, 24
- Calcifying fibrous tumor, 24
- Capillary hemangioma, 132
- Cartilage/bone formation, 17
- Cavernous hemangioma, 132
- Cellular angiofibroma, 72, 73
- Cellular neurothekeoma, 59
- Cellular schwannoma, 92
- Chondroid lipoma, 9
- Chondrosarcoma
 - dedifferentiated, 21
 - extraskeletal mesenchymal, 21
 - well-differentiated, 20
- Chordoma, 176, 177
- Circumscribed storiform collagenoma, 30
- Clear cell sarcoma
 - of gastrointestinal tract, 158
 - of soft tissues, 157–158
- Cranial fasciitis, 32
- Cutaneous fibrous histiocytoma
 - benign, 52, 53
 - cellular, 52, 53
 - epithelioid, 54

D

- Dedifferentiated chondrosarcoma, 21
- Dedifferentiated liposarcoma, 12–14
- Deep benign fibrous histiocytoma, 54, 55
- Dermal nerve sheath myxoma, 87
- Dermatofibroma, 52, 53
- Dermatofibrosarcoma, 60
 - fibrosarcoma in, 62, 63
 - myxoid, 61
 - with pigmented cells, 62
 - sclerosed, 61
- Dermatomyofibroma, 31
- Desmoplastic fibroblastoma, 25
- Desmoplastic malignant mesothelioma, 78
- Desmoplastic melanoma, 174, 175
- Desmoplastic small round cell tumor, 159
- Diffuse neurofibroma, 86

E

- Ectomesenchymoma, 104
- Ectopic hamartomatous thymoma, 153
- Elastofibroma, 25
- Embryonal rhabdomyosarcoma, 115
- Endometrial stromal sarcoma, 174
- Endometriosis, 173

- Epithelioid cutaneous fibrous histiocytoma, 54
 Epithelioid hemangioendothelioma, 144
 Epithelioid hemangioma, 133, 134
 Epithelioid inflammatory myofibroblastic sarcoma, 42
 Epithelioid leiomyosarcoma, 128, 129
 Epithelioid malignant mesothelioma, 77, 78
 Epithelioid malignant peripheral nerve sheath tumors, 95, 96
 Epithelioid perineurioma, 89
 Epithelioid sarcoma, 159–161
 Epithelioid schwannoma, 93
 Epstein-Barr virus–associated smooth muscle tumor, 129
 Ewing sarcoma
 appearance, 100
 CD99, diffuse membranous immunoreactivity, 101
 cytoplasmic vacuolation, 100
 fusion genes, 99
 Homer-Wright rosettes, 100
 intratumoral cyst formation, 101
 large cell atypical variant, 101
 Extra-adrenal myelolipoma, 5
 Extra-axial chordoma, 176
 Extracranial meningioma, 105, 106
 Extramedullary hemopoiesis, 177
 Extrarenal malignant rhabdoid tumor, 161
 Extraskelatal mesenchymal chondrosarcoma, 21
 Extraskelatal myxoid chondrosarcoma, 162
 Extraskelatal osteosarcoma, 21, 22
- F**
 Fibroblastic and myofibroblastic tumors, 23, 37
 benign
 calcifying aponeurotic fibroma, 24
 calcifying fibrous tumor, 24
 circumscribed storiform collagenoma, 30
 cranial fasciitis, 32
 dermatomyofibroma, 31
 desmoplastic fibroblastoma, 25
 elastofibroma, 25
 fibroma of tendon sheath, 26
 fibromatosis colli, 26
 fibrous hamartoma, of infancy, 34
 gingival fibromatosis, 27
 infantile digital fibromatosis, 27
 intravascular fasciitis, 33
 ischemic fasciitis, 34
 juvenile hyaline fibromatosis, 27
 keloid scar, 24
 myofibroma, 34, 35
 nasopharyngeal angiofibroma, 30, 31
 nodular fasciitis, 31, 32
 nuchal and nuchal-type fibroma, 28
 ossifying fasciitis, 33
 proliferative fasciitis, 33
 proliferative myositis, 33, 34
 reactive nodular fibrous pseudotumor, 28
 retroperitoneal fibrosis, 28, 29
 sclerosing mesenteritis, 29
 intermediate tumors
 fibromatosis, 38, 39
 infantile fibrosarcoma, 44
 inflammatory myofibroblastic tumor, 41, 42
 lipofibromatosis, 39
 low-grade myofibrosarcoma, 43
 myxoinflammatory fibroblastic sarcoma, 44, 45
 solitary fibrous tumor, 39–41
 malignant tumors
 adult fibrosarcoma, 46
 low-grade fibromyxoid sarcoma, 46, 47
 myxofibrosarcoma, 48
 sclerosing epithelioid fibrosarcoma, 49
 Fibroepithelial polyp, 70
 Fibrohistiocytic lesions, 51
 aneurysmal fibrous histiocytoma, 53
 cellular neurothekeoma, 59
 cutaneous fibrous histiocytoma
 benign, 52, 53
 cellular, 52, 53
 epithelioid, 54
 deep benign fibrous histiocytoma, 54, 55
 giant cell tumor, of tendon sheath type, 55, 56
 intermediate tumors
 atypical fibroxanthoma, 60
 dermatofibrosarcoma, 60–63
 giant cell fibroblastoma, 62
 giant cell tumor, 63
 plexiform fibrohistiocytic tumor, 64
 juvenile xanthogranuloma, 57
 malignant fibrous histiocytoma, 65, 66
 reticulohistiocytoma, 58
 xanthomas, 58
 Fibrolipoma, 5
 Fibrolipomatous hamartoma, 84
 Fibroma, of tendon sheath, 26
 Fibromatosis
 description, 38
 fibromatosis colli, 26
 gingival, 27
 inclusion body, 27
 infantile digital, 27
 juvenile hyaline, 27
 mast cells, 38
 mesenteric, 38
 plantar, 39
 Fibro-osseous pseudotumor, 18
 Fibrous hamartoma of infancy, 34
 Focal myositis, 114
 Follicular dendritic cell sarcoma, 175–176
- G**
 Ganglioneuroblastoma, 103
 Ganglioneuroma, 103
 Ganglioneuromatosis, 104
 Gardner fibroma, 28
 Gastrointestinal stromal tumor (GIST)
 amorphous eosinophilic collagen deposits, 168
 DOG1, diffuse strong membranous immunoreactivity, 169
 epithelioid
 clear cytoplasm, 168
 organoid/paraganglioma-like pattern, 167
 rhabdoid/plasmacytoid cytomorphology, 168
 nuclear palisading, 167
 occurrence, 149
 paranuclear vacuoles, 167
 progression risk, 149
 Genital stromal tumors, 69
 angiomyofibroblastoma, 70, 71
 angiomyxoma, aggressive/deep, 71, 72
 cellular angiofibroma, 72, 73
 fibroepithelial polyp, 70
 superficial cervicovaginal myofibroblastoma, 73
 Giant cell fibroblastoma, 62
 Giant cell malignant fibrous histiocytoma, 65

- Giant cell tumor
 of low malignant potential, 63
 of tendon sheath type, 55, 56
- Gingival fibromatosis, 27
- GIST. *See* Gastrointestinal stromal tumor (GIST)
- Glomangioma, 108
- Glomangiopericytoma, 108
- Glomus tumor, 108, 109
- Granular cell tumor, 93–94
- H**
- Hemangioendothelioma
 composite, 139
 epithelioid, 144
 kaposiform, 141, 142
 pseudomyogenic, 142, 143
 retiform, 143
- Hemangiomas, 131
- Hemosiderotic fibrohistiocytic lipomatous lesion, 152
- Hibernoma, 8
- Hobnail hemangioma, 134
- I**
- Inclusion body fibromatosis, 27
- Infantile digital fibromatosis, 27
- Infantile fibrosarcoma, 44
- Inflammatory malignant fibrous histiocytoma, 66
- Inflammatory myofibroblastic tumor, 41, 42
- Intermediate tumors
 angiomatoid fibrous histiocytoma, 154
 ossifying fibromyxoid tumor, 155, 156
 phosphaturic mesenchymal tumor, 156
- Intestinal perineurioma, 90
- Intestinal schwannoma, 91
- Intimal sarcoma, 162, 163
- Intramuscular hemangioma, 134, 135
- Intramuscular lipoma, 4
- Intramuscular myxoma, 151
- Intraneural perineurioma, 89
- Intravascular fasciitis, 33
- Intravascular leiomyomatosis, 124
- Intravascular papillary endothelial hyperplasia, 136
- Ischemic fasciitis, 34
- J**
- Juvenile hyaline fibromatosis, 27
- Juvenile xanthogranuloma, 57
- Juxta-articular myxoma, 152
- K**
- Kaposiform hemangioendothelioma, 141, 142
- Kaposi sarcoma
 HHV8, 141
 with interstitial erythrocytes, 140
 nodular form, 140
 patch stage, 139
 plaque stage, 140
- Keloid scar, 24
- L**
- Leiomyoma cutis, 122
- Leiomyomatosis peritonealis disseminata, 124
- Leiomyosarcoma
 epithelioid, 128, 129
 focal nuclear pleomorphism, 127
 of inferior vena cava, 126
 leiomyosarcoma cutis, 128
 nuclear palisading feature, 127
 pleomorphic, 128
- Lipoblastoma, 9
- Lipoblasts
 lipoblast mimics, 2, 3
 multivacuolated, 2
 pleomorphic, 2
 univacuolated and bivacuolated, 2
- Lipofibromatosis, 39
- Lipoleiomyoma, 123
- Lipoma
 with bone, 5
 chondroid, 9
 description, 4
 with extramedullary hemopoiesis, 5
 with myxoid change, 5
 pleomorphic, 8
 spindle cell, 7
- Lipoma arborescens, 4
- Lipomatosis, of nerve, 84
- Liposarcoma
 atypical lipomatous tumor, 10, 11
 dedifferentiated, 12–14
 incidence, 1
 morphologic subtypes, 1
 myxoid/round cell, 14, 15
 pleomorphic, 15, 16
 spindle cell, 11
- Lobular capillary hemangioma, 132
- Low-grade fibromyxoid sarcoma, 46, 47
- Low-grade myofibrosarcoma, 43
- Lymphangioma, 138
- Lymphoma, 177
- M**
- Malignant myoepithelial tumor, 80, 81
- Malignant peripheral nerve sheath tumors (MPNSTs)
 characteristic feature, 95
 differential diagnosis, 83
 electron microscopy, 97
 epithelioid, 95, 96
 genetic abnormalities, 83
 heterologous malignant mesenchymal differentiation, 96
 hyperchromatic nuclei, 95
 low-power pattern, 94
 spindle-shaped/polygonal rhabdomyoblastic cells, 96
 sporadic cases, 83
 S-100 protein expression, 95
- Malignant tumors
 alveolar soft part sarcoma, 157
 clear cell sarcoma
 of gastrointestinal tract, 158
 of soft tissues, 157–158
 desmoplastic small round cell tumor, 159
 epithelioid sarcoma, 159–161
 extrarenal malignant rhabdoid tumor, 161
 extraskeletal myxoid chondrosarcoma, 162
 intimal sarcoma, 162, 163
 perivascular epithelioid cell tumor, 163, 164
 primary pulmonary myxoid sarcoma, 165
 synovial sarcoma (*see* Synovial sarcoma)

- Mammary and mammary-type myofibroblastoma, 124, 125
 Massive localized lymphedema, 138
 Masson lesion. *See* Intravascular papillary endothelial hyperplasia
 Melanotic neuroectodermal tumor, of infancy, 104
 Melanotic schwannoma, 92
 Mesenteric fibromatosis, 38
 Mesothelial lesions
 benign
 adenomatoid tumor, 76, 77
 multicystic peritoneal mesothelioma, 76
 reactive mesothelial hyperplasia, 76
 well-differentiated papillary mesothelioma, 77
 desmoplastic malignant mesothelioma, 78
 epithelioid malignant mesothelioma, 77, 78
 sarcomatoid malignant mesothelioma, 78
 Microvenular hemangioma, 133
 Mitosis–karyorrhexis index, 102
 Mixed tumors, 79, 80
 MPNSTs. *See* Malignant peripheral nerve sheath tumors (MPNSTs)
 Mucosal neuroma, 84
 Multicystic peritoneal mesothelioma, 76
 Multivacuolated lipoblasts, 2
 Myelolipoma, 6
 Myoepithelial carcinoma, 80, 81
 Myoepithelial tumors, 79, 80
 Myofibroblastoma
 mammary and mammary-type, 124, 125
 palisaded, 125, 126
 Myofibroma, 34, 35
 Myofibroma-like pericytoma, 109
 Myopericytoma, 109, 110
 Myositis ossificans, 18
 Myxofibrosarcoma, 48
 Myxoid neurofibroma, 86
 Myxoid/round cell liposarcoma, 14, 15
 Myxoinflammatory fibroblastic sarcoma, 44, 45
- N**
 Nasopharyngeal angiofibroma, 30, 31
 Nerve sheath tumors. *See also* Malignant peripheral nerve sheath tumors (MPNSTs)
 dermal nerve sheath myxoma, 87
 fibrolipomatous hamartoma, 84
 granular cell tumor, 93–94
 mucosal neuroma, 84
 neurofibroma, 85–87
 palisaded encapsulated neuroma, 85
 perineurioma, 88–90
 schwannoma, 90–93
 traumatic neuroma, 84
 Neuroblastic tumors
 ectomesenchymoma, 104
 extracranial meningioma, 105, 106
 ganglioneuroblastoma, 103
 ganglioneuroma, 103
 ganglioneuromatosis, 104
 melanotic neuroectodermal tumor, of infancy, 104
 neuroblastoma, 102, 103
 paraganglioma, 104, 105
 Neuroblastoma
 characteristics, 102
 differentiation, 102
 immunohistochemical analysis, 99
 immunoperoxidase technique, 102, 103
 NB84 and CD56, 102, 103
 Neuroblastoma-like schwannoma, 92
- Neurofibroma
 appearance, 85
 atypical, 86
 description, 85
 diffuse, 86
 myxoid, 86
 plexiform, 87
 Neuroma
 mucosal, 84
 palisaded encapsulated, 85
 traumatic, 84
 Neurothekeoma. *See* Dermal nerve sheath myxoma
 Nodular fasciitis, 31, 32
 Nuchal and nuchal-type fibroma, 28
- O**
 Ossifying fasciitis, 33
 Ossifying fibromyxoid tumor, 155, 156
- P**
 Palisaded encapsulated neuroma, 85
 Palisaded myofibroblastoma, 125, 126
 Papillary endothelial hyperplasia, 136
 Papillary intralymphatic angioendothelioma, 142
 Paraganglioma, 104, 105
 Pericyte tumors
 features, 107
 glomangioma, 108
 glomangiopericytoma, 108
 glomus tumor, 108, 109
 myofibroma-like pericytoma, 109
 myopericytoma, 109, 110
 sinonasal hemangiopericytoma, 110
 Perineurioma, 88–90
 Periodic acid–Schiff (PAS) technique
 alveolar soft part sarcoma, 157
 GIST, 168
 Perivascular epithelioid cell tumor (PEComa), 163, 164
 Phosphaturic mesenchymal tumor, 156
 Plantar fibromatosis, 39
 Pleomorphic hyalinizing angiectatic tumor, 153
 Pleomorphic leiomyosarcoma, 128
 Pleomorphic lipoblasts, 2
 Pleomorphic lipoma, 8
 Pleomorphic liposarcoma, 15, 16
 Pleomorphic rhabdomyosarcoma, 113
 desmin immunoreactive, 118
 myogenin, 118
 nuclear pleomorphism and mitotic activity, 118
 rhabdomyosarcoma, 117
 Plexiform neurofibroma, 87
 Plexiform schwannoma, 91
 Plexiform xanthoma, 58
 Primary pulmonary myxoid sarcoma, 165
 Primitive peripheral neuroectodermal tumor, 99
 Proliferative fasciitis, 33
 Proliferative myositis, 33, 34
 Pseudomyogenic hemangioendothelioma, 142, 143
- R**
 Reactive mesothelial hyperplasia, 76
 Reactive nodular fibrous pseudotumor, 28
 Reticular perineurioma, 89
 Reticular schwannoma, 93

- Reticulohistiocytoma, 58
 Retiform hemangioendothelioma, 143
 Retroperitoneal fibrosis, 28, 29
 Rhabdomyoma, 114
 Rhabdomyosarcoma
 alveolar, 116, 117
 embryonal, 115
 pleomorphic, 117, 118
 sclerosing pseudovascular, 117
 spindle cell, 116
 Rosai-Dorfman disease, 173, 174
- S**
 Sarcomatoid malignant mesothelioma, 78
 Schwannoma
 cellular, 92
 EMA immunostaining, 91
 epithelioid, 93
 features, 90
 intestinal, 91
 melanotic, 92
 neuroblastoma-like, 92
 nuclear atypia, 91
 plexiform, 91
 reticular, 93
 Sclerosing epithelioid fibrosarcoma, 49
 Sclerosing mesenteritis, 29
 Sclerosing perineurioma, 90
 Sclerosing pseudovascular rhabdomyosarcoma, 117
 Sclerotic fibroma. *See* Circumscribed storiform collagenoma
 Silicone granuloma, 172
 Sinonasal hemangiopericytoma, 110
 Sinusoidal hemangioma, 136, 137
 Skeletal muscle tumors
 focal myositis, 114
 rhabdomyoma, 114
 rhabdomyosarcoma
 alveolar, 116, 117
 embryonal, 115
 pleomorphic, 117, 118
 sclerosing pseudovascular, 117
 spindle cell, 116
 Smooth muscle tumors
 benign tumors
 angioliomyoma, 122, 123
 intravascular leiomyomatosis, 124
 leiomyoma cutis, 122
 leiomyomatosis peritonealis disseminata, 124
 lipoleiomyoma, 123
 cytoplasmic vacuole, 121
 Epstein-Barr virus, 129
 leiomyosarcoma
 cutis, 128
 epithelioid, 128, 129
 focal nuclear pleomorphism, 127
 of inferior vena cava, 126
 nuclear palisading feature, 127
 pleomorphic, 128
 myofibroblastoma (*see* Myofibroblastoma)
 occurrence, 121
 Soft tissues
 amyloid tumor, 173
 chondroma, 19
 clear cell sarcoma, 157–158
 lymphoma, 177
 Solitary fibrous tumor, 39–41
 Spindle cell hemangioma, 137
 Spindle cell lipoma, 7
 Spindle cell liposarcoma, 11
 Spindle cell rhabdomyosarcoma, 116
 Storiform collagenoma, 30
 Superficial acral fibromyxoma, 150, 151
 Superficial angiomyxoma, 150
 Superficial cervicovaginal myofibroblastoma, 73
 Synovial chondromatosis, 20
 Synovial sarcoma
 anatomic locations, 149
 foci of calcification, 166
 hemangiopericytomatous pattern, 165
 immunohistochemical analysis, 166
 incidence, 149
 monophasic spindle cell variant, 165
 mucin-secreting glands, 165
 squamous metaplasia with keratinization, 166
 TLE1 antigens, 166
- T**
 Translocation-associated soft tissue sarcomas, 149
 Traumatic neuroma, 84
 Tumefactive extramedullary hemopoiesis, 177
 Tumoral calcinosis, 172
- U**
 Undifferentiated pleomorphic sarcoma
 cellular composition, 65
 with giant cells, 65
 with prominent inflammation, 66
 Univacuolated lipoblasts, 2
- V**
 Vascular lesions
 benign
 angiomatosis, 135
 atypical vascular lesion, 138, 139
 cavernous hemangioma, 132
 epithelioid hemangioma, 133, 134
 hobnail hemangioma, 134
 intramuscular hemangioma, 134, 135
 intravascular papillary endothelial hyperplasia, 136
 lobular capillary hemangioma, 132
 lymphangioma, 138
 massive localized lymphedema, 138
 microvenular hemangioma, 133
 sinusoidal hemangioma, 136, 137
 spindle cell hemangioma, 137
 venous hemangioma, 138
 intermediate tumors
 composite hemangioendothelioma, 139
 kaposiform hemangioendothelioma, 141, 142
 Kaposi sarcoma (*see* Kaposi sarcoma)
 papillary intralymphatic angioendothelioma, 142
 pseudomyogenic hemangioendothelioma, 142, 143
 retiform hemangioendothelioma, 143
 malignant tumors
 angiosarcoma (*see* Angiosarcoma)
 epithelioid hemangioendothelioma, 144
 Venous hemangioma, 138

W

Well-differentiated chondrosarcoma, 20
Well-differentiated liposarcoma. *See* Atypical lipomatous tumor
Well-differentiated papillary mesothelioma, 77

X

Xanthomas, 58