Classification of Soft Tissue and Bone Tumours based on ICD-O-3.2 (to be used for new registrations from 2020)			
WHO classification of tumours of soft tissue and bone: ICD-O coding **WHO classification of soft tissue tumours**	**Classification ICD-O-3.2**	**COMMENTS**	**Topography**
Adipocytic tumours			
Intermediate (locally aggressive)			
Atypical lipomatous tumour	8850/1	If you have the information about "MDM2+", note it in comment field	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Malignant			
Well-differentiated liposarcoma, NOS	8851/3	If you have the information about "MDM2+", note it in comment field	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Lipoma-like liposarcoma	8851/3	If you have the information about "MDM2+", note it in comment field	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Inflammatory liposarcoma	8851/3	If you have the information about "MDM2+", note it in comment field	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Sclerosing liposarcoma	8851/3	If you have the information about "MDM2+", note it in comment field	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Dedifferentiated liposarcoma	8858/3	If you have the information about "MDM2+", note it in comment field	
Myxoid liposarcoma	8852/3	If you have the information about "DDIT3+", note it in comment field	
Pleomorphic liposarcoma	8854/3	If you have the information about "MDM2-" and "DDIT3-" , note it in comment field	Extremities
Epithelioid liposarcoma	8854/3	If you have the information about "MDM2-" and "DDIT3-" , note it in comment field	Extremities
Myxoid pleomorphic liposarcoma	8850/3	"8859/3" in comment, code does not yet exist in ICD-O-3.2, if you have the information about "TP53" , note it in comment field	
Liposarcoma, NOS	*8850/3*	Needs to be justified in comment	It's important to have the initial topo to distinguish between 8851/3 and 8850/1
Fibroblastic and myofibroblastic tumours			
Intermediate (locally aggressive)			
Solitary fibrous tumour, benign	8815/0		
Palmar fibromatosis and plantar fibromatosis	8813/1		
Desmoid-type fibromatosis	8821/1		
Extra-abdominal desmoid	8821/1		
Abdominal fibromatosis	8822/1		
Lipofibromatosis	8851/1		
Giant cell fibroblastoma	8834/1		
Intermediate (rarely metastasizing)			
Dermatofibrosarcoma protuberans	8832/1		(C44._) exceptionnally C49
Pigmented dermatofibrosarcoma protuberans (Bednar tumour)	8833/1		(C44._) exceptionnally C49
Dermatofibrosarcoma protuberans, fibrosarcomatous	8832/3		(C44._) exceptionnally C49
Solitary fibrous tumour, NOS	8815/1		
Inflammatory myofibroblastic tumour	8825/1		
(Low-grade) myofibroblastic sarcoma	8825/3		
Superficial CD34-positive fibroblastic tumour	8810/1	"Superficial CD34-positive fibroblastic tumour" in comment, new in WHO 2020 (futur ICD-O-4)	
Myxoinflammatory fibroblastic sarcoma	8811/1	"Myxoinflammatory fibroblastic sarcoma" in comment	
Infantile fibrosarcoma	8814/3		
Malignant			
Solitary fibrous tumour, malignant	8815/3		
Fibrosarcoma, NOS	8810/3		
Myxofibrosarcoma	8811/3		
Low-grade fibromyxoid sarcoma Sclerosing epithelioid fibrosarcoma	8840/3		

So-called fibrohistiocytic tumours			
Intermediate (rarely metastasizing)			
Plexiform fibrohistiocytic tumour	8835/1		
Giant cell tumour of soft parts	9251/1		
Malignant			
Malignant tenosynovial giant cell tumour	9252/3		(C49._)
Vascular tumours			
Intermediate (locally aggressive)			
Kaposiform haemangioendothelioma	9130/1		
Intermediate (rarely metastasizing)			
Retiform haemangioendothelioma	9136/1		
Composite haemangioendothelioma	9136/1		
Neuroendocrine composite haemangioendothelioma	9136/1		
Papillary intralymphatic angioendothelioma	9135/1		
Pseudomyogenic (epithelioid sarcoma–like) haemangioendothelioma	9138/1		
Kaposi sarcoma	9140/3		
Classic indolent Kaposi sarcoma	9140/3		
Endemic African Kaposi sarcoma	9140/3		
AIDS-associated Kaposi sarcoma	9140/3		
Iatrogenic Kaposi sarcoma	9140/3		
Malignant			
Epithelioid haemangioendothelioma NOS	9133/3		
Epithelioid haemangioendothelioma with WWTR1-CAMTA1 fusion	9133/3		
Epithelioid haemangioendothelioma with YAP1-TFE3 fusion	9133/3		
Angiosarcoma	9120/3		
Pericytic (perivascular) tumours			
Intermediate			
Glomangiomatosis	8711/1		
Glomus tumour of uncertain malignant potential	8711/1		
Myofibromatosis	8824/1		
Infantile myofibromatosis	8824/1		
Malignant			
Glomus tumour, malignant	8711/3		
Smooth muscle tumours			
Intermediate			
EBV-associated smooth muscle tumour, smooth muscle tumour NOS	8897/1	"EBV-associated smooth muscle tumour " in comment, new in WHO 2020 (futur ICD-O-4)	
Malignant			
Leiomyosarcoma, NOS	8890/3		

Skeletal muscle tumours		
Malignant		
Embryonal rhabdomyosarcoma, NOS	8910/3	
Embryonal rhabdomyosarcoma, pleomorphic	8910/3	
Alveolar rhabdomyosarcoma	8920/3	
Pleomorphic rhabdomyosarcoma, NOS	8901/3	
Spindle cell rhabdomyosarcoma	8912/3	
Congenital spindle cell rhabdomyosarcoma (with VGLL2/NCOA2/CITED2 rearrangements)	8912/3	
MYOD1-mutant spindle cell / sclerosing rhabdomyosarcoma	8912/3	
Intraosseous spindle cell rhabdomyosarcoma (with TFCP2/NCOA2 rearrangements)	8912/3	
Ectomesenchymoma	8921/3	
Rhabdomyosarcoma, NOS	*8900/3*	
Chondro-osseous tumours		
Malignant		
Osteosarcoma, extraskeletal	9180/3	
Peripheral nerve sheath tumours		
Malignant		
Malignant peripheral nerve sheath tumour (MPNST), NOS	9540/3	
Malignant melanotic nerve sheath tumour	9540/3	"Malignant melanotic nerve sheath tumour " in comment, new in WHO 2020 (futur ICD-O-4)
Malignant peripheral nerve sheath tumour (MPNST) with skeletal muscle differentiation	9561/3	
Malignant Triton tumour	9561/3	
Malignant peripheral nerve sheath tumour (MPNST), epithelioid	9542/3	
Granular cell tumour, malignant	9580/3	
Perineurioma, malignant	9571/3	
Tumours of uncertain differentiation		
Intermediate (locally aggressive)		
Haemosiderotic fibrolipomatous tumour	8811/1	"Haemosiderotic fibrolipomatous tumour" in comment
Angiomyolipoma, epithelioid	8860/1	
Intermediate (rarely metastasizing)		
Atypical fibroxanthoma	8830/1	
Angiomatoid fibrous histiocytoma	8836/1	
Ossifying fibromyxoid tumour, NOS	8842/0	
Mixed tumour, NOS	8940/0	
Mixed tumour, malignant	8940/3	
Myoepithelioma, NOS	8982/0	
Malignant		
Phosphaturic mesenchymal tumour, malignant; Mesenchymoma, malignant	8990/3	
NTRK-rearranged spindle cell neoplasm (emerging)	8800/3	"NTRK-rearranged spindle cell neoplasm (emerging), malignant" in comment
Synovial sarcoma, NOS	9040/3	
Synovial sarcoma, poorly differentiated	9040/3	
Synovial sarcoma, spindle cell	9041/3	
Synovial sarcoma, biphasic	9043/3	

Epithelioid sarcoma	8804/3		
Proximal or large cell epithelioid sarcoma	8804/3		
Classic epithelioid sarcoma	8804/3		
Alveolar soft part sarcoma	9581/3		
Clear cell sarcoma, NOS	9044/3		
Clear cell sarcoma of kidney	8964/3		(C64._)
Extraskeletal myxoid chondrosarcoma	9231/3		
Desmoplastic small round cell tumour	8806/3		
Rhabdoid tumour, NOS	8963/3		Outside the central nervous system (renal or extrarenal)
Atypical teratoid/rhabdoid tumour	9508/3		(C71._)
Perivascular epitheliod tumor (PEComa), malignant	8714/3		
Intimal sarcoma	9137/3		
Ossifying fibromyxoid tumour, malignant	8842/3		
Myoepithelial carcinoma	8982/3		
Gastrointestinal stromal tumours			
Gastrointestinal stromal tumour	8936/3	Mitotic rate should be added in comment	
Endometrial stromal sarcoma			
Malignant			
Endometrial stromal sarcoma, high grade, NOS	8930/3		(C54.1)
Endometrial stromal sarcoma, low grade	8931/3		(C54.1)
Unclassified and poorly characterised tumours			
Malignant			
Stromal sarcoma, NOS	8935/3	Needs to be justified in comment	
Stromal tumour of uncertain malignant potential, NOS	8935/1	Needs to be justified in comment	
Sarcoma, NOS	8800/3	Needs to be justified in comment	
WHO classification of undifferentiated small round cell sarcomas of bone and soft tissue			
Ewing sarcoma	9364/3		
Round cell sarcoma with EWSR1-non-ETS fusions	8803/3	9366/3 in comment. Code does not yet exist in ICD-O-3.2	
CIC-rearranged sarcoma	8803/3	9367/3 in comment. Code does not yet exist in ICD-O-3.2	
Sarcoma with BCOR genetic alterations	8803/3	9368/3 in comment. Code does not yet exist in ICD-O-3.2	

WHO classification of bone tumours		
Chondrogenic tumours		
Intermediate (locally aggressive)		
Synovial chondromatosis	9220/1	(C40._, C41._) exceptionnaly soft tissue
Central atypical cartilaginous tumour	9222/1	(C40._, C41._) exceptionally soft tissue, use the initial topo to distinguish between 9222/3 & 9222/1
Secondary peripheral atypical cartilaginous tumour	9222/1	(C40._, C41._) exceptionally soft tissue, use the initial topo to distinguish between 9222/3 & 9222/1
Malignant		
Central chondrosarcoma, grade 1	9222/3	(C40._, C41._) exceptionally soft tissue, use the initial topo to distinguish between 9222/3 & 9222/1
Secondary chondrosarcoma, grade 1	9222/3	(C40._, C41._) exceptionally soft tissue, use the initial topo to distinguish between 9222/3 & 9222/1
Central chondrosarcoma, grade 2	9220/3	(C40._, C41._) exceptionally soft tissue
Secondary peripheral chondrosarcoma, grade 2	9220/3	(C40._, C41._) exceptionally soft tissue
Central chondrosarcoma, grade 3	9220/3	(C40._, C41._) exceptionally soft tissue
Secondary peripheral chondrosarcoma, grade 3	9220/3	(C40._, C41._) exceptionally soft tissue
Periosteal chondrosarcoma	9221/3	(C40._, C41._) exceptionally soft tissue
Clear cell chondrosarcoma	9242/3	(C40._, C41._) exceptionally soft tissue
Mesenchymal chondrosarcoma	9240/3	(C40._, C41._) also possible in soft tissue, and intracranial sites
Dedifferentiated chondrosarcoma	9243/3	(C40._, C41._) exceptionally soft tissue
Osteogenic tumours		
Intermediate (locally aggressive)		
Osteoblastoma, NOS	9200/1	(C40._, C41._) exceptionally soft tissue
Malignant		
Low-grade central osteosarcoma	9187/3	(C40._, C41._) exceptionally soft tissue
Osteosarcoma, NOS	9180/3	(C40._, C41._) exceptionally soft tissue
Conventional osteosarcoma	9180/3	(C40._, C41._) exceptionally soft tissue
Telangiectatic osteosarcoma	9183/3	(C40._, C41._) exceptionally soft tissue
Small cell osteosarcoma	9185/3	(C40._, C41._) exceptionally soft tissue
Parosteal osteosarcoma	9192/3	(C40._, C41._) exceptionally soft tissue
Periosteal osteosarcoma	9193/3	(C40._, C41._) exceptionally soft tissue
High grade surface osteosarcoma	9194/3	(C40._, C41._) exceptionally soft tissue
Secondary osteosarcoma	9184/3	(C40._, C41._) exceptionally soft tissue
Fibrogenic tumours		
Intermediate (locally aggressive)		
Desmoplastic fibroma	8823/1	
Malignant		
Fibrosarcoma, NOS	8810/3	
Vascular tumours		
Intermediate (locally aggressive)		
Epithelioid haemangioma	9125/0	
Malignant		
Epithelioid haemangioendothelioma NOS	9133/3	
Angiosarcoma	9120/3	
Osteoclastic giant cell-rich tumours		
Intermediate (locally aggressive, rarely metastazing)		
Giant cell tumour of bone	9250/1	
Malignant		
Giant cell tumour of bone, malignant	9250/3	

Notochordal tumours			
Malignant			
Conventional chordoma	9370/3		
Poorly differentiated chordoma	9370/3		
Chondroid chordoma	9370/3		
Dedifferentiated chordoma	9372/3		
Other mesenchymal bone tumours			
Intermediate (locally aggressive)			
Osteofibrous dysplasia–like adamantinoma	9261/1		
Fibrocartilaginous mesenchymoma	8990/1		
Malignant			
Adamantinoma of long bones	9261/3		(C40._)
Dedifferentiated adamantinoma	9261/3		(C40._)
Leiomyosarcoma NOS	8890/3		(C40._, C41._)
Pleomorphic sarcoma, undifferentiated	8802/3		(C40._, C41._)
WHO classification of bone tumours and soft tissue tumours of uncertain differentiation			
Tumours of uncertain differentiation			
Malignant			
Epithelioid sarcoma, NOS, undifferentiated	8804/3	After exclusion	
Undifferentiated sarcoma	8805/3	After exclusion	
Spindle cell sarcoma, undifferentiated	8801/3	After exclusion	
Pleomorphic cell sarcoma, undifferentiated	8802/3	After exclusion	(C44._) for the pleomorphic dermal sarcoma
Round cell sarcoma, undifferentiated	8803/3	After exclusion	
Sarcoma, NOS	8800/3	Needs to be justified in comment	

In grey: codes and / or names of entities which should be avoided in favour of a more specific code