

## Appendix A Histological types of bone tumour with SNOMED coding

### Chondrogenic tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Osteochondroma	M-92100	Osteochondroma (morphologic abnormality)	52299001
Chondroma	M-92200	Chondroma (morphologic abnormality)	31186001
Enchondroma	M-92200	Chondroma (morphologic abnormality)	31186001
Periosteal chondroma	M-92210	Juxtacortical chondroma (morphologic abnormality)	9266000
Osteochondromyxoma	M-92110	Osteochondromyxoma (morphologic abnormality)	703695006
Subungual exostosis	M-92130	Subungual exostosis (morphologic abnormality)	703697003
Bizarre parosteal osteochondromatous proliferation	M-92120	Bizarre parosteal osteochondromatous proliferation (morphologic abnormality)	703696007
Synovial chondromatosis	M-92200	Chondroma (morphologic abnormality)	31186001
<b>Intermediate (locally aggressive)</b>			
Chondromyxoid fibroma	M-92410	Chondromyxoid fibroma (morphologic abnormality)	39553005
Atypical cartilaginous tumour/ chondrosarcoma grade 1	M-92221	Atypical cartilaginous tumor (morphologic abnormality)	703701000
<b>Intermediate (rarely metastasising)</b>			

Chondroblastoma	M-92301	Chondroblastoma (morphologic abnormality)	9001003
<b>Malignant</b>			
Chondrosarcoma grade 2, grade 3	M-92203	Chondrosarcoma (morphologic abnormality)	1163016002
Dedifferentiated chondrosarcoma	M-92433	Dedifferentiated chondrosarcoma (morphologic abnormality)	128776008
Mesenchymal chondrosarcoma	M-92403	Mesenchymal chondrosarcoma (morphologic abnormality)	56565002
Clear cell chondrosarcoma	M-92423	Clear cell chondrosarcoma (morphologic abnormality)	128775007

## Osteogenic tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Osteoma	M-91800	Benign osteoma (morphologic abnormality)	1156874003
Osteoid osteoma	M-91910	Osteoid osteoma (morphologic abnormality)	71666005
<b>Intermediate (locally aggressive)</b>			
Osteoblastoma	M-92000	Osteoblastoma (morphologic abnormality)	55333008
<b>Malignant</b>			
Low-grade central osteosarcoma	M-91873	Intraosseous well- differentiated osteosarcoma (morphologic abnormality)	128771003

Conventional osteosarcoma	M-91803	Osteosarcoma (morphologic abnormality)	1163405004
Chondroblastic osteosarcoma	M-91813	Chondroblastic osteosarcoma (morphologic abnormality)	76312009
Fibroblastic osteosarcoma	M-91823	Fibroblastic osteosarcoma (morphologic abnormality)	12690005
Telangiectatic osteosarcoma	M-91833	Telangiectatic osteosarcoma (morphologic abnormality)	78453009
Small cell osteosarcoma	M-91853	Small cell osteosarcoma (morphologic abnormality)	12302002
Secondary osteosarcoma	M-91843	Osteosarcoma in Paget's disease of bone (morphologic abnormality)	33681003
Parosteal osteosarcoma	M-91923	Parosteal osteosarcoma (morphologic abnormality)	128918008
Periosteal osteosarcoma	M-91933	Periosteal osteosarcoma (morphologic abnormality)	128772005
High-grade surface osteosarcoma	M-91943	High-grade surface osteosarcoma (morphologic abnormality)	128773000

## Fibrogenic tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Intermediate (locally aggressive)</b>			
Desmoplastic fibroma of bone	M-88231	Desmoplastic fibroma (morphologic abnormality)	6842002
<b>Malignant</b>			
Fibrosarcoma of bone	M-88103	Fibrosarcoma (morphologic abnormality)	53654007
<b>Fibrohistiocytic tumours</b>			

Benign fibrous histiocytoma/ non-ossifying fibroma	M-88300	Benign fibrous histiocytoma (morphologic abnormality)	25889007
--	---------	---	----------

## Haematopoietic neoplasms

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Malignant</b>			
Plasma cell myeloma	M-97323	Plasma cell myeloma (morphologic abnormality)	1162576007
Solitary plasmacytoma of bone	M-97313	Plasmacytoma (morphologic abnormality)	1187107005
Primary non-Hodgkin's lymphoma of bone	M-95913	Non-Hodgkin lymphoma (morphologic abnormality)	1172592001

## Osteoclastic giant cell-rich tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Intermediate (locally aggressive, rarely metastasising)</b>			
Giant cell tumour of bone	M-92501	Giant cell tumour of bone (morphologic abnormality)	57500000
<b>Malignant</b>			
Malignancy in giant cell tumour of bone	M-92503	Giant cell tumor of bone, malignant (morphologic abnormality)	10069009

## Notochordal tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			

Benign notochordal tumour	M-93700	Benign notochordal tumor (morphologic abnormality)	703708006
<b>Malignant</b>			
Chordoma	M-93703	Chordoma (morphologic abnormality)	50007008

## Vascular tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Haemangioma	M-91200	Benign hemangioma (morphologic abnormality)	253053003
<b>Intermediate (locally aggressive, rarely metastasising)</b>			
Epithelioid haemangioma	M-91250	Epithelioid hemangioma (morphologic abnormality)	33929001
<b>Malignant</b>			
Epithelioid haemangioendothelioma	M-91333	Epithelioid hemangio-endothelioma, malignant (morphologic abnormality)	54124005
Angiosarcoma	M-91203	Hemangiosarcoma (morphologic abnormality)	39000009

## Myogenic tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Leiomyoma of bone	M-88900	Leiomyoma (morphologic abnormality)	1162890002
<b>Malignant</b>			

Leiomyosarcoma of bone	M-88903	Leiomyosarcoma (morphologic abnormality)	1163022006
------------------------	---------	--	------------

## Lipogenic tumours

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Lipoma of bone	M-88500	Lipoma morphology (morphologic abnormality)	134328007
<b>Malignant</b>			
Liposarcoma of bone	M-88503	Lipoma morphology (morphologic abnormality)	134328007

## Tumours of undefined neoplastic nature

Morphological codes	SNOMED code	SNOMED-CT terminology	SNOMED-CT code
<b>Benign</b>			
Fibrous dysplasia	M-88180	Fibrous dysplasia (morphologic abnormality)	789439000
<b>Intermediate (locally aggressive)</b>			
Aneurysmal bone cyst	M-92600	Aneurysmal bone cyst (morphologic abnormality)	76000001
Langerhans cell histiocytosis, monostotic	M-97521	Langerhans cell histiocytosis, unifocal (morphologic abnormality)	128810002
Langerhans cell histiocytosis, polystotic	M-97531	Langerhans cell histiocytosis, multifocal (morphologic abnormality)	128811003
Erdheim-Chester disease	M-97501	Erdheim-Chester disease (morphologic abnormality)	703711007

## Miscellaneous tumours

<b>Morphological codes</b>	<b>SNOMED code</b>	<b>SNOMED-CT terminology</b>	<b>SNOMED-CT code</b>
Ewing sarcoma	M-93643	Ewing's sarcoma (morphologic abnormality)	76909002
Adamantinoma	M-92613	Adamantinoma of long bones (morphologic abnormality)	56763007
Undifferentiated high-grade pleomorphic sarcoma of bone	M-88303	Fibrous histiocytoma, malignant (morphologic abnormality)	34360000

## Procedure codes (P)

These are used in SNOMED 2 and SNOMED 3 to distinguish biopsies, partial resections and radical resections to indicate the nature of the procedure.

Local P codes should be recorded. At present, P codes vary according to the SNOMED system in use in different institutions.