Central Nervous System Tumours/ Forewords and Introductions/ ICD-O coding of CNS tumours

Headings

ICD-O topographical coding of central nervous system tumours

The ICD-O topography codes for the main anatomical sites covered in this volume are as follows [[Fritz A, Percy C, Jack A, et al., editors. International classification of diseases for oncology (ICD-O). 3rd ed. 1st rev. Geneva (Switzerland): World Health Organization; 2013.]]:

C70 Meninges

C70.0 Cerebral meninges

C70.1 Spinal meninges

C70.9 Meninges, NOS

C71 Brain

C71.0 Cerebrum

C71.1 Frontal lobe

C71.2 Temporal lobe

C71.3 Parietal lobe

C71.4 Occipital lobe

C71.5 Ventricle, NOS

C71.6 Cerebellum, NOS

C71.7 Brain stem

C71.8 Overlapping lesion of brain

C71.9 Brain, NOS

C72 Spinal cord, cranial nerves, and other parts of central nervous system

C72.0 Spinal cord

C72.1 Cauda equina

C72.2 Olfactory nerve

C72.3 Optic nerve

C72.4 Acoustic nerve

C72.5 Cranial nerve, NOS

C72.8 Overlapping lesion of brain and central nervous system

C72.9 Nervous system, NOS

C75 Other endocrine glands and related structures

C75.1 Pituitary gland

C75.2 Craniopharyngeal duct

C75.3 Pineal gland

ICD-O morphological coding: Introduction

The ICD-O coding system uses a topography (T) code and a morphology (M) code together, but these are presented in separate lists for ease of use. Behaviour is coded /0 for benign tumours; /1 for unspecified, borderline, or uncertain behaviour; /2 for carcinoma in situ and grade III intraepithelial neoplasia; /3 for malignant tumours, primary site; and /6 for malignant tumours, metastatic site. Behaviour code /6 is not generally used by cancer registries. For various reasons, the ICD-O morphology terms may not always be identical to the entity names used in the WHO classification, but they should be sufficiently similar to avoid confusion. The designation "NOS" ("not otherwise specified") is provided to make coding possible when subtypes exist but exact classification may not be possible in small biopsies or certain other scenarios. Therefore, it is usual to have "NOS" even when a more specific alternative term is listed in ICD-O.

ICD-O coding of central nervous system tumours

ICD-O-3.2 ICD-O label (subtypes are indicated in grey text, with the label indented);

Please note that the WHO classification of tumour types is more readily reflected in the table of

Gliomas, glioneuronal tumours, and neuronal tumours

Adult-type diffuse gliomas

contents

9413/0

Astrocytoma, IDH-mutant

9400/3 Astrocytoma, IDH-mutant, grade 2 9401/3 Astrocytoma, IDH-mutant, grade 3 9445/3 Astrocytoma, IDH-mutant, grade 4 Oligodendroglioma, IDH-mutant and 1p/19g-codeleted 9450/3 Oligodendroglioma, IDH-mutant and 1p/19g-codeleted, grade 2 9451/3 Oligodendroglioma, IDH-mutant and 1p/19g-codeleted, grade 3 9440/3 Glioblastoma, IDH-wildtype Paediatric-type diffuse low-grade gliomas 9421/1 Diffuse astrocytoma, MYB- or MYBL1-altered[†] 9431/1 Angiocentric glioma

Polymorphous low-grade neuroepithelial tumour of the young[†]

9421/1 Diffuse low-grade glioma, MAPK pathway–altered[†]

Paediatric-type diffuse high-grade gliomas

9385/3 Diffuse midline glioma, H3 K27-altered[†]

Diffuse hemispheric glioma, H3 G34-mutant[†] 9385/3 Diffuse paediatric-type high-grade glioma, H3-wildtype and IDH-wildtype[†] 9385/3 9385/3 Infant-type hemispheric glioma[†] Circumscribed astrocytic gliomas 9421/1 Pilocytic astrocytoma 9421/3* High-grade astrocytoma with piloid features 9424/3 Pleomorphic xanthoastrocytoma 9384/1 Subependymal giant cell astrocytoma 9444/1 Chordoid glioma Astroblastoma, MN1-altered[†] 9430/3 Glioneuronal and neuronal tumours 9505/1 Ganglioglioma 9492/0 Gangliocytoma 9412/1 Desmoplastic infantile ganglioglioma 9412/1 Desmoplastic infantile astrocytoma 9413/0 Dysembryoplastic neuroepithelial tumour n/a Diffuse glioneuronal tumour with oligodendroglioma-like features and nuclear clusters (provisional entity) 9509/1 Papillary glioneuronal tumour 9509/1 Rosette-forming glioneuronal tumour Myxoid glioneuronal tumour[†] 9509/1 9509/3* Diffuse leptomeningeal glioneuronal tumour 9509/0* Multinodular and vacuolating neuronal tumour 9493/0 Dysplastic cerebellar gangliocytoma (Lhermitte-Duclos disease) Central neurocytoma 9506/1 9506/1 Extraventricular neurocytoma 9506/1 Cerebellar liponeurocytoma Ependymal tumours Supratentorial ependymoma, NOS[†] 9391/3 9396/3 Supratentorial ependymoma, ZFTA fusion-positive[†] Supratentorial ependymoma, YAP1 fusion-positive[†] 9396/3 9391/3 Posterior fossa ependymoma, NOS[†]

BlueBooksOnline

3/9/22, 9:51 PM Posterior fossa group A (PFA) ependymoma[†] 9396/3 9396/3 Posterior fossa group B (PFB) ependymoma[†] 9391/3 Spinal ependymoma, NOS[†] Spinal ependymoma, MYCN-amplified[†] 9396/3 Myxopapillary ependymoma 9394/1 9383/1 Subependymoma Choroid plexus tumours Choroid plexus papilloma 9390/0 9390/1 Atypical choroid plexus papilloma 9390/3 Choroid plexus carcinoma **Embryonal tumours** Medulloblastomas, molecularly defined 9475/3 Medulloblastoma, WNT-activated 9471/3 Medulloblastoma, SHH-activated and TP53-wildtype 9476/3 Medulloblastoma, SHH-activated and TP53-mutant 9477/3 Medulloblastoma, non-WNT/non-SHH Medulloblastomas, histologically defined 9470/3 Medulloblastoma, histologically defined 9471/3 Desmoplastic nodular medulloblastoma 9471/3 Medulloblastoma with extensive nodularity 9474/3 Large cell medulloblastoma 9474/3 Anaplastic medulloblastoma Other CNS embryonal tumours 9508/3 Atypical teratoid/rhabdoid tumour n/a Cribriform neuroepithelial tumour (provisional entity) 9478/3 Embryonal tumour with multilayered rosettes 9500/3 CNS neuroblastoma, FOXR2-activated[†] 9500/3 CNS tumour with BCOR internal tandem duplication[†] 9473/3 CNS embryonal tumour, NEC/NOS Pineal tumours 9361/1 Pineocytoma

9362/3 Pineal parenchymal tumour of intermediate differentiation

9362/3 Pineoblastoma

9395/3 Papillary tumour of the pineal region

n/a Desmoplastic myxoid tumour of the pineal region, SMARCB1-mutant (provisional entity)

Cranial and paraspinal nerve tumours

9560/0 Schwannoma

9540/0 Neurofibroma

9550/0 Plexiform neurofibroma

9571/0 Perineurioma

9563/0 Hybrid nerve sheath tumour

9540/3 Malignant melanotic nerve sheath tumour

9540/3 Malignant peripheral nerve sheath tumour

8693/3 Cauda equina neuroendocrine tumour (previously paraganglioma)

Meningioma

9530/0 Meningioma

Mesenchymal, non-meningothelial tumours involving the CNS

Fibroblastic and myofibroblastic tumours

8815/1 Solitary fibrous tumour

Vascular tumours

9121/0 Cavernous haemangioma

9131/0 Capillary haemangioma

9123/0 Arteriovenous malformation

9161/1 Haemangioblastoma

Skeletal muscle tumours

8910/3 Embryonal rhabdomyosarcoma

8920/3 Alveolar rhabdomyosarcoma

8901/3 Rhabdomyosarcoma, pleomorphic-type

8912/3 Spindle cell rhabdomyosarcoma

Tumours of uncertain differentiation

n/a Intracranial mesenchymal tumour, FET::CREB fusion-positive (provisional entity)

9367/3 *CIC*-rearranged sarcoma

9480/3 Primary intracranial sarcoma, *DICER1*-mutant[†]

9364/3 Ewing sarcoma

Chondrogenic tumours

9240/3 Mesenchymal chondrosarcoma

9220/3 Chondrosarcoma

9243/3 Dedifferentiated chondrosarcoma

Notochordal tumours

9370/3 Chordoma

Melanocytic tumours

Diffuse meningeal melanocytic neoplasms

8728/0 Meningeal melanocytosis

8728/3 Meningeal melanomatosis

Circumscribed meningeal melanocytic neoplasms

8728/1 Meningeal melanocytoma

8720/3 Meningeal melanoma

Haematolymphoid tumours involving the CNS

CNS lymphomas

9680/3 Primary diffuse large B-cell lymphoma of the CNS

9766/1 Lymphomatoid granulomatosis

9766/1 Lymphomatoid granulomatosis, grade 1

9766/1 Lymphomatoid granulomatosis, grade 2

9766/3 Lymphomatoid granulomatosis, grade 3

9712/3 Intravascular large B-cell lymphoma

Miscellaneous rare lymphomas in the CNS

9699/3 MALT lymphoma of the dura

9671/3 Lymphoplasmacytic lymphoma

9690/3 Follicular lymphoma

9714/3 Anaplastic large cell lymphoma (ALK+/ALK-)

9702/3 T-cell lymphoma

9719/3 NK/T-cell lymphoma

Histiocytic tumours

9749/3 Erdheim-Chester disease

9749/3 Rosai-Dorfman disease[†]

9749/1 Juvenile xanthogranuloma[†]

9751/1 Langerhans cell histiocytosis

9755/3 Histiocytic sarcoma

Germ cell tumours

9080/0 Mature teratoma

9080/3 Immature teratoma

9084/3 Teratoma with somatic-type malignancy

9064/3 Germinoma

9070/3 Embryonal carcinoma

9071/3 Yolk sac tumour

9100/3 Choriocarcinoma

9085/3 Mixed germ cell tumour

Tumours of the sellar region

9351/1 Adamantinomatous craniopharyngioma

9352/1 Papillary craniopharyngioma

9432/1 Pituicytoma

9582/0 Granular cell tumour of the sellar region

8290/0 Spindle cell oncocytoma

8272/3 Pituitary adenoma / pituitary neuroendocrine tumour (PitNET)[†]

8273/3 Pituitary blastoma

These morphology codes are from the International Classification of Diseases for Oncology, third edition, second revision (ICD-O-3.2) [[International Association of Cancer Registries (IACR) [Internet]. Lyon (France): International Agency for Research on Cancer; 2021. International Classification of Diseases for Oncology (ICD-O) – ICD-O-3.2; updated 2021 Jan 25. Available from: http://www.iacr.com.fr/index.php? option=com_content&view=category&layout=blog&id=100&Itemid=577.]]. Behaviour is coded /0 for benign tumours; /1 for unspecified, borderline, or uncertain behaviour; /2 for carcinoma in situ and grade III intraepithelial neoplasia; /3 for malignant tumours, primary site; and /6 for malignant tumours, metastatic site. Behaviour code /6 is not generally used by cancer registries.

This classification is modified from the previous WHO classification, taking into account changes in our understanding of these lesions.

n/a, not available (provisional entity).

* Codes marked with an asterisk were approved by the IARC/WHO Committee for ICD-O at its meeting in May 2021.

[†] Labels marked with a dagger have undergone a change in terminology of a previous code.

© IARC 1965-2022 — All Rights Reserved (https://www.iarc.fr/copyright-notice/)