

**Thoracic tumours/ Foreword/ ICD-O coding of thoracic tumours**

## Headings

**ICD-O topographical coding of thoracic 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.]]:

**C33 Trachea****C33.9 Trachea****C34 Bronchus and lung****C34.0 Main bronchus****C34.1 Upper lobe, lung****C34.2 Middle lobe, lung****C34.3 Lower lobe, lung****C34.8 Overlapping lesion of lung****C34.9 Lung NOS****C37 Thymus****C37.9 Thymus****C38 Heart, mediastinum, and pleura****C38.0 Heart****C38.1 Anterior mediastinum****C38.2 Posterior mediastinum****C38.3 Mediastinum NOS****C38.4 Pleura NOS****C38.8 Overlapping lesion of heart, mediastinum, and pleura****C39 Other and ill-defined sites within respiratory system and intrathoracic organs****C39.0 Upper respiratory tract NOS****C39.8 Overlapping lesion of respiratory system and intrathoracic organs****C39.9 Ill-defined sites within respiratory system****C76 Other and ill-defined sites****C76.1 Thorax NOS****C77 Lymph nodes**

## C77.1 Intrathoracic lymph nodes

### 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 tumours of the lung

#### Epithelial tumours

##### *Papillomas*

8052/0 Squamous cell papilloma, NOS

8053/0 Squamous cell papilloma, inverted

8260/0 Glandular papilloma

8560/0 Mixed squamous cell and glandular papilloma

##### *Adenomas*

8832/0 Sclerosing pneumocytoma

8251/0 Alveolar adenoma

8260/0 Papillary adenoma

8140/0 Bronchiolar adenoma / ciliated muconodular papillary tumour<sup>†</sup>

8470/0 Mucinous cystadenoma

8480/0 Mucous gland adenoma

##### *Precursor glandular lesions*

8250/0 Atypical adenomatous hyperplasia

##### *Adenocarcinoma in situ*

8250/2 Adenocarcinoma in situ, non-mucinous

8253/2 Adenocarcinoma in situ, mucinous

##### *Adenocarcinomas*

##### *Minimally invasive adenocarcinoma*

8256/3 Minimally invasive adenocarcinoma, non-mucinous

8257/3 Minimally invasive adenocarcinoma, mucinous

*Invasive non-mucinous adenocarcinoma*

8250/3 Lepidic adenocarcinoma

8551/3 Acinar adenocarcinoma

8260/3 Papillary adenocarcinoma

8265/3 Micropapillary adenocarcinoma

8230/3 Solid adenocarcinoma

8253/3 Invasive mucinous adenocarcinoma

8254/3 Mixed invasive mucinous and non-mucinous adenocarcinoma

8480/3 Colloid adenocarcinoma

8333/3 Fetal adenocarcinoma

8144/3 Adenocarcinoma, enteric-type

8140/3 Adenocarcinoma, NOS

*Squamous precursor lesions*

8070/2 Squamous cell carcinoma in situ

8077/0 Mild squamous dysplasia

8077/2 Moderate squamous dysplasia

8077/2 Severe squamous dysplasia

*Squamous cell carcinomas*

8070/3 Squamous cell carcinoma, NOS

8071/3 Squamous cell carcinoma, keratinizing

8072/3 Squamous cell carcinoma, non-keratinizing

8083/3 Basaloid squamous cell carcinoma

8082/3 Lymphoepithelial carcinoma

*Large cell carcinomas*

8012/3 Large cell carcinoma

*Adenosquamous carcinomas*

8560/3 Adenosquamous carcinoma

*Sarcomatoid carcinomas*

8022/3 Pleomorphic carcinoma

8031/3 Giant cell carcinoma

8032/3 Spindle cell carcinoma

8972/3 Pulmonary blastoma

8980/3 Carcinosarcoma

*Other epithelial tumours*

8023/3 NUT carcinoma

8044/3 Thoracic SMARCA4-deficient undifferentiated tumour<sup>†</sup>

*Salivary gland-type tumours*

8940/0 Pleomorphic adenoma

8200/3 Adenoid cystic carcinoma

8562/3 Epithelial-myoepithelial carcinoma

8430/3 Mucoepidermoid carcinoma

8310/3 Hyalinizing clear cell carcinoma<sup>†</sup>

8982/0 Myoepithelioma

8982/3 Myoepithelial carcinoma

**Lung neuroendocrine neoplasms***Precursor lesion*

8040/0 Diffuse idiopathic neuroendocrine cell hyperplasia

*Neuroendocrine tumours*

8240/3 Carcinoid tumour, NOS / neuroendocrine tumour, NOS

8240/3 Typical carcinoid / neuroendocrine tumour, grade 1

8249/3 Atypical carcinoid / neuroendocrine tumour, grade 2

*Neuroendocrine carcinomas*

8041/3 Small cell carcinoma

8045/3 Combined small cell carcinoma

8013/3 Large cell neuroendocrine carcinoma

8013/3 Combined large cell neuroendocrine carcinoma

#### **Tumours of ectopic tissues**

8720/3 Melanoma

9530/0 Meningioma

#### **Mesenchymal tumours specific to the lung**

8992/0 Pulmonary hamartoma

9220/0 Chondroma

9170/3 Diffuse lymphangiomatosis<sup>†</sup>

8973/3 Pleuropulmonary blastoma

9137/3 Intimal sarcoma

8827/1 Congenital peribronchial myofibroblastic tumour

8842/3 Pulmonary myxoid sarcoma with *EWSR1-CREB1* fusion

#### ***PEComatous tumours***

9174/3\* Lymphangioliomyomatosis

8714/0 PEComa, benign

8714/3 PEComa, malignant

#### **Haematolymphoid tumours**

9699/3 MALT lymphoma

9680/3 Diffuse large B-cell lymphoma, NOS

9766/1 Lymphomatoid granulomatosis, NOS

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

9751/1 Langerhans cell histiocytosis

9749/3 Erdheim–Chester disease

#### **ICD-O coding of tumours of the pleura and pericardium**

##### **Mesothelial tumours**

##### ***Benign and preinvasive mesothelial tumours***

9054/0 Adenomatoid tumour

9052/1 Well-differentiated papillary mesothelial tumour<sup>†</sup>

9050/2\* Mesothelioma in situ

### *Mesothelioma*

9050/3 Localized mesothelioma<sup>†</sup>

9050/3 Diffuse mesothelioma, NOS<sup>†</sup>

9051/3 Sarcomatoid mesothelioma

9052/3 Epithelioid mesothelioma

9053/3 Mesothelioma, biphasic

### **Haematolymphoid tumours**

9678/3 Primary effusion lymphoma

9680/3 Diffuse large B-cell lymphoma associated with chronic inflammation

### **ICD-O coding of tumours of the heart**

#### **Benign tumours**

8820/0 Papillary fibroelastoma<sup>†</sup>

8840/0 Myxoma, NOS

8810/0 Fibroma, NOS

8900/0 Rhabdomyoma, NOS

8904/0 Adult cellular rhabdomyoma

8850/0 Lipoma, NOS

Lipomatous hamartoma of atrioventricular valve

Hamartoma of mature cardiac myocytes

Mesenchymal cardiac hamartoma

9120/0 Haemangioma, NOS

9122/0 Venous haemangioma

9131/0 Capillary haemangioma

9123/0 Arteriovenous haemangioma

9121/0 Cavernous haemangioma

Conduction system hamartoma

8454/0 Cystic tumour of atrioventricular node

#### **Malignant tumours**

9120/3 Angiosarcoma

8890/3 Leiomyosarcoma, NOS

8802/3 Pleomorphic sarcoma

**Haematolymphoid tumours**

9680/3 Diffuse large B-cell lymphoma, NOS

9680/3 Fibrin-associated diffuse large B-cell lymphoma<sup>†</sup>

**ICD-O coding of mesenchymal tumours of the thorax**

**Adipocytic tumours**

8850/0 Lipoma, NOS

8850/0 Thymolipoma

8850/3 Liposarcoma, NOS

8851/3 Liposarcoma, well differentiated

8852/3 Myxoid liposarcoma

8854/3 Pleomorphic liposarcoma

8858/3 Dedifferentiated liposarcoma

**Fibroblastic and myofibroblastic tumours**

8821/1 Desmoid-type fibromatosis

8815/1 Solitary fibrous tumour, NOS

8817/0 Calcifying fibrous tumour

8825/1 Inflammatory myofibroblastic tumour

8811/3 Myxofibrosarcoma

**Vascular tumours**

9120/0 Haemangioma, NOS

9121/0 Cavernous haemangioma

9122/0 Venous haemangioma

9132/0 Intramuscular haemangioma

9123/0 Arteriovenous haemangioma

9170/0 Lymphangioma, NOS

9173/0 Cystic lymphangioma

9133/3 Epithelioid haemangioendothelioma

9120/3 Angiosarcoma

**Skeletal muscle tumours**

8900/3 Rhabdomyosarcoma, NOS

8910/3 Embryonal rhabdomyosarcoma

8912/3 Spindle cell rhabdomyosarcoma

8920/3 Alveolar rhabdomyosarcoma

8901/3 Pleomorphic rhabdomyosarcoma

**Peripheral nerve sheath and neural tumours**

8693/3 Extra-adrenal paraganglioma

9580/0 Granular cell tumour

9580/3 Granular cell tumour, malignant

9560/0 Schwannoma

9540/3 Malignant peripheral nerve sheath tumour

9490/0 Ganglioneuroma

9490/3 Ganglioneuroblastoma

9500/3 Neuroblastoma

**Tumours of uncertain differentiation**

9040/3 Synovial sarcoma, NOS

9041/3 Synovial sarcoma, spindle cell

9042/3 Synovial sarcoma, epithelioid cell

9043/3 Synovial sarcoma, biphasic

9364/3 Ewing sarcoma

9367/3\* *CIC*-rearranged sarcoma

9368/3\* Sarcoma with *BCOR* genetic alterations

9366/3\* Round cell sarcoma with *EWSR1*-non-ETS fusions

**ICD-O coding of tumours of the thymus**

**Epithelial tumours**

*Thymomas*

8580/3 Thymoma, NOS

8581/3 Thymoma, type A

8582/3 Thymoma, type AB

8583/3 Thymoma, type B1

8584/3 Thymoma, type B2

8585/3 Thymoma, type B3

8580/1 Micronodular thymoma with lymphoid stroma



8580/3 Metaplastic thymoma

9010/0 Lipofibroadenoma

*Squamous carcinomas*

8070/3 Squamous cell carcinoma, NOS

8123/3 Basaloid carcinoma

8082/3 Lymphoepithelial carcinoma

*Adenocarcinomas*

8140/3 Adenocarcinoma, NOS

8260/3 Low-grade papillary adenocarcinoma<sup>†</sup>

8200/3 Thymic carcinoma with adenoid cystic carcinoma-like features

8144/3 Adenocarcinoma, enteric-type

*Adenosquamous carcinomas*

8560/3 Adenosquamous carcinoma

*NUT carcinomas*

8023/3 NUT carcinoma

*Salivary gland-like carcinomas*

8430/3 Mucoepidermoid carcinoma

8310/3 Clear cell carcinoma

8033/3 Sarcomatoid carcinoma

8980/3 Carcinosarcoma

*Undifferentiated carcinomas*

8020/3 Carcinoma, undifferentiated, NOS

*Thymic carcinomas*

8586/3 Thymic carcinoma, NOS

**Thymic neuroendocrine neoplasms**

*Neuroendocrine tumours*

8240/3 Carcinoid tumour, NOS / neuroendocrine tumour, NOS

8240/3 Typical carcinoid / neuroendocrine tumour, grade 1

8249/3 Atypical carcinoid / neuroendocrine tumour, grade 2

*Neuroendocrine carcinomas*

8041/3 Small cell carcinoma

8045/3 Combined small cell carcinoma

8013/3 Large cell neuroendocrine carcinoma

**ICD-O coding of germ cell tumours of the mediastinum**

9061/3 Seminoma

9070/3 Embryonal carcinoma

9071/3 Yolk sac tumour

9100/3 Choriocarcinoma

9080/0 Mature teratoma

9080/1 Immature teratoma of the thymus

9085/3 Mixed germ cell tumour

9084/3 Teratoma with somatic-type malignancies

9086/3 Germ cell tumour with associated haematological malignancy

**ICD-O coding of haematolymphoid tumours of the mediastinum**

9679/3 Mediastinal large B-cell lymphoma

9699/3 MALT lymphoma

9837/3 T-lymphoblastic leukaemia/lymphoma

9650/3 Classic Hodgkin lymphoma, NOS<sup>†</sup>

9663/3 Classic Hodgkin lymphoma, nodular sclerosis

9652/3 Classic Hodgkin lymphoma, mixed cellularity

9651/3 Classic Hodgkin lymphoma, lymphocyte-rich

9653/3 Classic Hodgkin lymphoma, lymphocyte depletion

9596/3 Grey zone lymphoma<sup>†</sup>

9758/3 Follicular dendritic cell sarcoma

9930/3 Myeloid sarcoma

**ICD-O coding of ectopic tumours of thyroid and parathyroid origin**

**Thyroid neoplasms**

8260/3 Papillary carcinoma of thyroid

8330/0 Follicular adenoma

8330/3 Follicular carcinoma

8345/3 Medullary thyroid carcinoma

**Parathyroid neoplasms**

8140/0 Parathyroid adenoma

8140/3 Parathyroid carcinoma

**Notes**

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; 2019. ICD-O-3.2; updated 2019 Apr 23. Available from: [http://www.iacr.com.fr/index.php?option=com\\_content&view=article&id=149:icd-o-3-2&catid=80&Itemid=545.](http://www.iacr.com.fr/index.php?option=com_content&view=article&id=149:icd-o-3-2&catid=80&Itemid=545.)]. 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.

Subtype labels are indented.

\* Codes marked with an asterisk were approved by the IARC/WHO Committee for ICD-O at its meeting in October 2020.

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

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