

Digestive system tumours/ Foreword**/ WHO classification of tumours of the digestive system: ICD-O coding**

Headings

WHO classification of tumours of the oesophagus

Benign epithelial tumours and precursors

8052/0 Squamous cell papilloma NOS

8060/0 Squamous papillomatosis

8148/0 Oesophageal glandular dysplasia (intraepithelial neoplasia), low grade

8148/2 Oesophageal glandular dysplasia (intraepithelial neoplasia), high grade

8077/0 Oesophageal squamous intraepithelial neoplasia (dysplasia), low grade

8077/2 Oesophageal squamous intraepithelial neoplasia (dysplasia), high grade

Malignant epithelial tumours

8140/3 Adenocarcinoma NOS

8200/3 Adenoid cystic carcinoma

8430/3 Mucoepidermoid carcinoma

8560/3 Adenosquamous carcinoma

8070/3 Squamous cell carcinoma NOS

8051/3 Verrucous squamous cell carcinoma

8074/3 Squamous cell carcinoma, spindle cell

8083/3 Basaloid squamous cell carcinoma

8020/3 Carcinoma, undifferentiated, NOS

8082/3 Lymphoepithelioma-like carcinoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

8045/3 Combined small cell–adenocarcinoma

8045/3 Combined small cell–squamous cell carcinoma

WHO classification of tumours of the stomach

Benign epithelial tumours and precursors

8148/0 Glandular intraepithelial neoplasia, low grade

8148/2 Glandular intraepithelial neoplasia, high grade

8213/0* Serrated dysplasia, low grade

8213/2* Serrated dysplasia, high grade

Intestinal-type dysplasia

Foveolar-type (gastric-type) dysplasia

Gastric pit/crypt dysplasia

8144/0* Intestinal-type adenoma, low grade

8144/2* Intestinal-type adenoma, high grade

Sporadic intestinal-type gastric adenoma

Syndromic intestinal-type gastric adenoma

8210/0* Adenomatous polyp, low-grade dysplasia

8210/2* Adenomatous polyp, high-grade dysplasia

Malignant epithelial tumours

8140/3 Adenocarcinoma NOS

8211/3 Tubular adenocarcinoma

8214/3 Parietal cell carcinoma

8255/3 Adenocarcinoma with mixed subtypes

8260/3 Papillary adenocarcinoma NOS

8265/3 Micropapillary carcinoma NOS

8430/3 Mucoepidermoid carcinoma

8480/3 Mucinous adenocarcinoma

8490/3 Signet-ring cell carcinoma

8490/3 Poorly cohesive carcinoma

8512/3 Medullary carcinoma with lymphoid stroma

8576/3 Hepatoid adenocarcinoma

Paneth cell carcinoma

8070/3 Squamous cell carcinoma NOS

8560/3 Adenosquamous carcinoma

8020/3 Carcinoma, undifferentiated, NOS

8014/3 Large cell carcinoma with rhabdoid phenotype

8022/3 Pleomorphic carcinoma

8033/3 Sarcomatoid carcinoma

8035/3 Carcinoma with osteoclast-like giant cells

8976/1* Gastroblastoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8153/3 Gastrinoma NOS

8156/3 Somatostatinoma NOS

8241/3 Enterochromaffin-cell carcinoid

8242/3 ECL-cell carcinoid, malignant

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the small intestine and ampulla

Benign epithelial tumours and precursors

8210/0* Adenomatous polyp, low-grade dysplasia

8210/2* Adenomatous polyp, high-grade dysplasia

8144/0* Intestinal-type adenoma, low grade

8144/2* Intestinal-type adenoma, high grade

8213/0* Serrated dysplasia, low grade

8213/2* Serrated dysplasia, high grade

8163/0 Non-invasive pancreatobiliary papillary neoplasm with low-grade dysplasia

8163/2 Non-invasive pancreatobiliary papillary neoplasm with high-grade dysplasia

Intra-ampullary papillary-tubular neoplasm

Malignant epithelial tumours

8140/3 Adenocarcinoma NOS

8480/3 Mucinous adenocarcinoma

8490/3 Signet-ring cell carcinoma

8510/3 Medullary carcinoma NOS

8144/3 Adenocarcinoma, intestinal type

8163/3 Pancreatobiliary-type carcinoma

8211/3 Tubular adenocarcinoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8153/3 Gastrinoma NOS

8156/3 Somatostatinoma NOS

8241/3 Enterochromaffin-cell carcinoid

8693/3 Extra-adrenal paraganglioma NOS

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the appendix

Epithelial tumours

Hyperplastic polyp

Sessile serrated lesion without dysplasia

8213/0* Serrated dysplasia, low grade

8213/2* Serrated dysplasia, high grade

8480/1 Low-grade appendiceal mucinous neoplasm

8480/2* High-grade appendiceal mucinous neoplasm

8140/3 Adenocarcinoma NOS

8480/3 Mucinous adenocarcinoma

8490/3 Signet-ring cell adenocarcinoma

8020/3 Carcinoma, undifferentiated, NOS

8243/3* Goblet cell adenocarcinoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8152/3 L-cell tumour

8152/3 Glucagon-like peptide-producing tumour

8152/3 PP/PYY-producing tumour

8241/3 Enterochromaffin-cell carcinoid

8241/3 Serotonin-producing carcinoid

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the colon and rectum

Benign epithelial tumours and precursors

8213/0* Serrated dysplasia, low grade

8213/2* Serrated dysplasia, high grade

8210/0* Adenomatous polyp, low-grade dysplasia

8210/2* Adenomatous polyp, high-grade dysplasia

8211/0* Tubular adenoma, low grade

8211/2* Tubular adenoma, high grade

8261/0* Villous adenoma, low grade

8261/2* Villous adenoma, high grade

8263/0* Tubulovillous adenoma, low grade

8263/2* Tubulovillous adenoma, high grade

Advanced adenoma

8148/0 Glandular intraepithelial neoplasia, low grade

8148/2 Glandular intraepithelial neoplasia, high grade

Malignant epithelial tumours

8140/3 Adenocarcinoma NOS

8213/3 Serrated adenocarcinoma

8262/3* Adenoma-like adenocarcinoma

8265/3 Micropapillary adenocarcinoma

8480/3 Mucinous adenocarcinoma

8490/3 Poorly cohesive carcinoma

8490/3 Signet-ring cell carcinoma

8510/3 Medullary adenocarcinoma

8560/3 Adenosquamous carcinoma

8020/3 Carcinoma, undifferentiated, NOS

8033/3* Carcinoma with sarcomatoid component

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8152/3 L-cell tumour

8152/3 Glucagon-like peptide-producing tumour

8152/3 PP/PYY-producing tumour

8241/3 Enterochromaffin-cell carcinoid

8241/3 Serotonin-producing tumour

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the anal canal

Benign epithelial tumours and precursors

8077/0 Squamous intraepithelial neoplasia, low grade

8077/2 Squamous intraepithelial neoplasia, high grade

Malignant epithelial tumours

8070/3 Squamous cell carcinoma NOS

8051/3 Verrucous squamous cell carcinoma

8140/3 Adenocarcinoma NOS

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the liver and intrahepatic bile ducts

Benign hepatocellular tumours

8170/0 Hepatocellular adenoma

HNF1A-inactivated hepatocellular adenoma

Inflammatory hepatocellular adenoma

β -Catenin–activated hepatocellular adenoma

β -Catenin–activated inflammatory hepatocellular adenoma

Malignant hepatocellular tumours and precursors

8170/3 Hepatocellular carcinoma NOS

8171/3 Hepatocellular carcinoma, fibrolamellar

8172/3 Hepatocellular carcinoma, scirrhous

8174/3 Hepatocellular carcinoma, clear cell type

Hepatocellular carcinoma, steatohepatic

Hepatocellular carcinoma, macrotrabecular massive

Hepatocellular carcinoma, chromophobe

Hepatocellular carcinoma, neutrophil-rich

Hepatocellular carcinoma, lymphocyte-rich

8970/3 Hepatoblastoma NOS

Benign biliary tumours and precursors

8160/0 Bile duct adenoma

9013/0 Adenofibroma NOS

8148/0 Biliary intraepithelial neoplasia, low grade

8148/2 Biliary intraepithelial neoplasia, high grade

8503/0 Intraductal papillary neoplasm with low-grade intraepithelial neoplasia

8503/2 Intraductal papillary neoplasm with high-grade intraepithelial neoplasia

8503/3 Intraductal papillary neoplasm with associated invasive carcinoma

8470/0 Mucinous cystic neoplasm with low-grade intraepithelial neoplasia

8470/2 Mucinous cystic neoplasm with high-grade intraepithelial neoplasia

8470/3 Mucinous cystic neoplasm with associated invasive carcinoma

Malignant biliary tumours

8160/3 Cholangiocarcinoma

Large duct intrahepatic cholangiocarcinoma

Small duct intrahepatic cholangiocarcinoma

8020/3 Carcinoma, undifferentiated, NOS

8180/3 Combined hepatocellular carcinoma and cholangiocarcinoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the gallbladder and extrahepatic bile ducts

Benign epithelial tumours and precursors

8140/0 Adenoma NOS

8148/0 Biliary intraepithelial neoplasia, low grade

8148/2 Biliary intraepithelial neoplasia, high grade

8503/0 Intracystic papillary neoplasm with low-grade intraepithelial neoplasia

8503/2 Intracystic papillary neoplasm with high-grade intraepithelial neoplasia

8503/3 Intracystic papillary neoplasm with associated invasive carcinoma

8503/0 Intraductal papillary neoplasm with low-grade intraepithelial neoplasia

8503/2 Intraductal papillary neoplasm with high-grade intraepithelial neoplasia

8503/3 Intraductal papillary neoplasm with associated invasive carcinoma

Malignant epithelial tumours

8140/3 Adenocarcinoma NOS

8144/3 Adenocarcinoma, intestinal type

8310/3 Clear cell adenocarcinoma NOS

8470/3 Mucinous cystic neoplasm with associated invasive carcinoma

8480/3 Mucinous adenocarcinoma

8490/3 Poorly cohesive carcinoma

8503/3 Intracystic papillary neoplasm with associated invasive carcinoma

8070/3 Squamous cell carcinoma NOS

8020/3 Carcinoma, undifferentiated, NOS

8560/3 Adenosquamous carcinoma

8160/3 Cholangiocarcinoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

WHO classification of tumours of the pancreas

Benign epithelial tumours and precursors

8441/0 Serous cystadenoma NOS

Macrocystic (oligocystic) serous cystadenoma

Solid serous adenoma

Von Hippel–Lindau syndrome–associated serous cystic neoplasm

Mixed serous-neuroendocrine neoplasm

8441/3 Serous cystadenocarcinoma NOS

8148/0 Glandular intraepithelial neoplasia, low grade

8148/2 Glandular intraepithelial neoplasia, high grade

8453/0 Intraductal papillary mucinous neoplasm with low-grade dysplasia

8453/2 Intraductal papillary mucinous neoplasm with high-grade dysplasia

8453/3 Intraductal papillary mucinous neoplasm with associated invasive carcinoma

8455/2* Intraductal oncocytic papillary neoplasm NOS

8455/3* Intraductal oncocytic papillary neoplasm with associated invasive carcinoma

8503/2 Intraductal tubulopapillary neoplasm

8503/3 Intraductal papillary neoplasm with associated invasive carcinoma

8470/0 Mucinous cystic neoplasm with low-grade dysplasia

8470/2 Mucinous cystic neoplasm with high-grade dysplasia

8470/3 Mucinous cystic neoplasm with associated invasive carcinoma

Malignant epithelial tumours

8500/3 Duct adenocarcinoma NOS

8480/3 Colloid carcinoma

8490/3 Poorly cohesive carcinoma

8490/3 Signet-ring cell carcinoma

8510/3 Medullary carcinoma NOS

8560/3 Adenosquamous carcinoma

8576/3 Hepatoid carcinoma

8014/3 Large cell carcinoma with rhabdoid phenotype

8020/3 Carcinoma, undifferentiated, NOS

8035/3 Undifferentiated carcinoma with osteoclast-like giant cells

8550/3 Acinar cell carcinoma

8551/3 Acinar cell cystadenocarcinoma

8154/3 Mixed acinar-neuroendocrine carcinoma

8154/3 Mixed acinar-endocrine-ductal carcinoma

8552/3 Mixed acinar-ductal carcinoma

8971/3 Pancreatoblastoma

8452/3 Solid pseudopapillary neoplasm of the pancreas

Solid pseudopapillary neoplasm with high-grade carcinoma

Pancreatic neuroendocrine neoplasms

8150/0 Pancreatic neuroendocrine microadenoma

8240/3 Neuroendocrine tumour NOS

8240/3 Neuroendocrine tumour, grade 1

8249/3 Neuroendocrine tumour, grade 2

8249/3 Neuroendocrine tumour, grade 3

8150/3 Pancreatic neuroendocrine tumour, non-functioning

Oncocytic neuroendocrine tumour, non-functioning pancreatic

Pleomorphic neuroendocrine tumour, non-functioning pancreatic

Clear cell neuroendocrine tumour, non-functioning pancreatic

Cystic neuroendocrine tumour, non-functioning pancreatic

Functioning pancreatic neuroendocrine tumours

8151/3* Insulinoma

8153/3* Gastrinoma

8155/3* VIPoma

8152/3* Glucagonoma

8156/3* Somatostatinoma

8158/3 ACTH-producing tumour

8241/3 Enterochromaffin-cell carcinoid

8241/3 Serotonin-producing tumour

8246/3 Neuroendocrine carcinoma NOS

8013/3 Large cell neuroendocrine carcinoma

8041/3 Small cell neuroendocrine carcinoma

8154/3 Mixed neuroendocrine–non-neuroendocrine neoplasm (MiNEN)

8154/3 Mixed acinar-endocrine carcinoma

8154/3 Mixed acinar-neuroendocrine carcinoma

8154/3 Mixed acinar-endocrine-ductal carcinoma

WHO classification of haematolymphoid tumours of the digestive system

Site-specific haematolymphoid tumours

9699/3 MALT lymphoma

9764/3 Immunoproliferative small intestinal disease

9695/3 Follicular lymphoma, duodenal type

9717/3 Enteropathy-associated T-cell lymphoma

9717/3 Monomorphic epitheliotropic intestinal T-cell lymphoma

9717/3 Intestinal T-cell lymphoma

9702/1 Indolent T-cell lymphoproliferative disorder of the gastrointestinal tract

9716/3 Hepatosplenic T-cell lymphoma

9758/3 Follicular dendritic cell sarcoma

Haematolymphoid tumours occurring with some frequency in the digestive system

9680/3 Diffuse large B-cell lymphoma NOS

9690/3 Follicular lymphoma NOS

9695/3 Follicular lymphoma, grade 1

9691/3 Follicular lymphoma, grade 2

9698/3 Follicular lymphoma, grade 3A

9698/3 Follicular lymphoma, grade 3B

9673/3 Mantle cell lymphoma

Conventional mantle cell lymphoma

Leukaemic non-nodal mantle cell lymphoma

9687/3 Burkitt lymphoma NOS

Endemic Burkitt lymphoma

Sporadic Burkitt lymphoma

Immunodeficiency-associated Burkitt lymphoma

9735/3 Plasmablastic lymphoma

9971/1 Posttransplant lymphoproliferative disorder NOS

Non-destructive posttransplant lymphoproliferative disorder

Polymorphic posttransplant lymphoproliferative disorder

Monomorphic posttransplant lymphoproliferative disorder

Classic Hodgkin lymphoma posttransplant lymphoproliferative disorder

Mucocutaneous ulcer posttransplant lymphoproliferative disorder

9719/3 Extranodal NK/T-cell lymphoma, nasal type

9740/3 Mast cell sarcoma

9741/1 Indolent systemic mastocytosis

9741/3 Aggressive systemic mastocytosis

9741/3 Systemic mastocytosis with associated haematological clonal non-mast cell disorder

9742/3 Mast cell leukaemia

9751/1 Langerhans cell histiocytosis NOS

9751/3 Langerhans cell histiocytosis, disseminated

9758/3 Follicular dendritic cell sarcoma

9755/3 Histiocytic sarcoma

WHO classification of mesenchymal tumours of the digestive system

Gastrointestinal stromal tumour

8936/3 Gastrointestinal stromal tumour

Succinate dehydrogenase-deficient gastrointestinal stromal tumour

Adipose tissue and (myo)fibroblastic tumours

8825/1 Inflammatory myofibroblastic tumour

Epithelioid inflammatory myofibroblastic sarcoma

8821/1 Desmoid-type fibromatosis

8822/1 Abdominal fibromatosis

8815/1 Solitary fibrous tumour NOS

8815/3 Solitary fibrous tumour, malignant

Lipomatous solitary fibrous tumour

9160/0 Giant cell angiofibroma

8850/0 Lipoma NOS

8861/0 Angiolipoma NOS

8811/0 Plexiform fibromyxoma

Smooth muscle and skeletal muscle tumours

8890/0 Leiomyoma NOS

Seedling leiomyomas

8890/1 Leiomyomatosis NOS

8890/3 Leiomyosarcoma NOS

8910/3 Embryonal rhabdomyosarcoma NOS

8912/3 Rhabdomyosarcoma, spindle cell / sclerosing type

8920/3 Alveolar rhabdomyosarcoma

Vascular and perivascular tumours

9120/0 Haemangioma NOS

Dieulafoy lesion

Gastric antral vascular ectasia (GAVE)

Angiodysplasia

Anastomosing haemangioma

Infantile haemangioma

Diffuse hepatic haemangiomatosis

Hepatic small vessel neoplasm

9133/3 Epithelioid haemangioendothelioma NOS

9140/3 Kaposi sarcoma

9120/3 Angiosarcoma

Epithelioid angiosarcoma

8711/0 Glomus tumour NOS

8711/1 Glomangiomas

8711/1 Glomus tumour of uncertain malignant potential

8711/3 Glomus tumour, malignant

9170/0 Lymphangioma NOS

Neural tumours

9560/0 Schwannoma NOS

Microcystic/reticular schwannoma

Mucosal Schwann cell hamartoma

9580/0 Granular cell tumour NOS

9580/3 Granular cell tumour, malignant

9571/0 Perineurioma NOS

9490/0 Ganglioneuroma

9491/0 Ganglioneuromatosis

Tumours of uncertain differentiation

8714/0 PEComa, benign

Sclerosing PEComa

8860/0 Angiomyolipoma

Inflammatory subtype of angiomyolipoma

8714/3 PEComa, malignant

8975/1 Calcifying nested stromal-epithelial tumour

9040/3 Synovial sarcoma NOS

9041/3 Synovial sarcoma, monophasic fibrous

9043/3 Synovial sarcoma, biphasic

9044/3 Clear cell sarcoma NOS

8991/3 Embryonal sarcoma

WHO classification of other tumours of the digestive system

8720/3 Melanoma NOS

8721/3 Nodular melanoma

8746/3 Mucosal lentiginous melanoma

9064/3 Germinoma

9070/3 Embryonal carcinoma NOS

9071/3 Yolk sac tumour NOS

9080/0 Teratoma, benign

9080/3 Teratoma, malignant, NOS

9084/0 Dermoid cyst NOS

9085/3 Mixed germ cell tumour

8140/6 Adenocarcinoma, metastatic, NOS

8010/6 Carcinoma, metastatic, NOS

Notes

These morphology codes are from the International Classification of Diseases for Oncology, third edition, second revision (ICD-O-3.2), available from: 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 April 2019.

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