

Supplementary material has been published as submitted. It has not been copyedited or typeset by Acta Oncologica.

**Supplementary Table 1: Defining cancer groups**

<b>Organ group</b>	<b>Malignancies</b>	<b>ICD-10 included</b>	<b>ICD-10 excluded<sup>1</sup></b>
Head and neck	Cancers of the lip, tongue, mouth, salivary gland and pharynx	C00-C14, C46.2	-
Digestive organs	Cancers of the esophagus and stomach, colorectal cancer and cancer of the liver and pancreas	C15-C16, C18-C22, C25	C17, C23-C24, C26
Respiratory system	Cancers of the nasal cavity, middle ear and sinuses, laryngeal cancer and cancer of lung, bronchus, trachea and pleura.	C30-C34, C39, C38.4, C45.0	C37, C38.0-C38.3, C38.8
Bones and joints	Sarcomas	-	C40, C41
Skin	Malignant melanoma	C43	C44, C46.0
Connective tissues	Cancers of mesothelium, peripheral nerves and the peritoneum and retroperitoneum	-	C45.1-C45.9, C46.1, C46.3, C46.7-C46.9, C47, C48, B21.0
Breast	Breast cancer	C50	-
Female reproductive organs	Cancers of the cervix and corpus uteri, ovarian cancer and cancers of the fallopian tube and broad ligament	C53-C56, C57.0, C57.4, C58	C51-C52, C57.7-C57.9
Male reproductive organs	Prostate and testis cancers	C61-C62	C60, C63
Urinary tract	Cancers of kidney, renal pelvis and ureter. Bladder cancer.	C64-C67, D09.0, D30.1-D30.3, D41.1-D41.2, D41.4,	C68, D09.1, D30.4-D30.9, D41.3, D41.7-D41.9
Central nervous system	Cancers of brain and meninges	C70-C71, C75.1-C75.3, D32, D33.0-D33.2, D35.2-D35.4, D42, D43.0-D43.2, D44.3-D44.5	C69, C72, D33.3-D33.9, D43.3-D43.9
Endocrine glands	Thyroid cancer	C73	C74, C75.0, C75.4-C75.9
Blood and blood forming organs	Hodgkin lymphoma, non-Hodgkin lymphoma, multiple myeloma, lymphatic leukemias, myeloproliferative disease, myelodysplastic syndromes, monocytic leukemias, acute myeloid leukemia	C81-C86, C88.0-C88.9, C90-C91, C92.0-C92-8, C93-C96, D45-D46, D47.0-D47.5	C95, C96
Other	Ill-defined and unspecified cancers	-	C76-C80

<b>Organ group</b>	<b>ICD-10</b>	<b>N (%)</b>
Head and neck	C00 Malignant neoplasm of lip	61 (2.7)
	C01 Malignant neoplasm of base of tongue	140 (6.2)
	C02 Malignant neoplasm of other or unspecified part of tongue	277 (12.3)
	C03 Malignant neoplasm of gum	58 (2.6)
	C04 Malignant neoplasm of floor of mouth	133 (5.9)
	C05 Malignant neoplasm of palate	79 (3.5)
	C06 Malignant neoplasm of other or unspecified part of mouth	268 (11.9)
	C07 Malignant neoplasm of parotid gland	100 (4.5)
	C08 Malignant neoplasm of other or unspecified major salivary gland	27 (1.2)
	C09 Malignant neoplasm of tonsil	492 (21.9)
	C10 Malignant neoplasm of oropharynx	267 (11.9)
	C11 Malignant neoplasm of nasopharynx	69 (3.1)
	C12 Malignant neoplasm of piriform sinus	52 (2.3)
	C13 Malignant neoplasm of hypopharynx	222 (9.9)
	C14 Malignant neoplasm of other or ill-defined sites	SN
C46.2 Kaposi sarcoma of palate	SN	
Digestive organs	C15 Malignant neoplasm of oesophagus	1,179 (9.6)
	C16 Malignant neoplasm of stomach	1,228 (10.0)
	C18 Malignant neoplasm of colon	6,213 (50.4)
	C19 Malignant neoplasm of rectosigmoid junction	117 (0.9)
	C20 Malignant neoplasm of rectum	3,186 (25.8)
	C21 Malignant neoplasm of anus and anal canal	367 (3.0)
	C22 Malignant neoplasm of liver and intrahepatic bile ducts	1,066 (8.6)
	C25 Malignant neoplasm of pancreas	2,272 (18.4)
Respiratory system	C30 Malignant neoplasm of nasal cavity and middle ear	112 (1.1)
	C31 Malignant neoplasm of accessory sinuses	40 (0.4)
	C32 Malignant neoplasm of larynx	651 (6.1)
	C33 Malignant neoplasm of trachea	10 (0.09)
	C34 Malignant neoplasm of bronchus and lung	9,571 (90.4)
	C38.4 Malignant neoplasm of pleura	53 (0.5)
	C39 Malignant neoplasm of other and ill-defined sites in the respiratory or intrathoracic organs	7 (0.07)
	C45.0 Mesothelioma of pleura	147 (1.4)
Bones and joints	-	-
Skin	C43 Malignant melanoma of skin	5,154 (100)
Connective tissues	-	-
Breast	C50 Malignant neoplasm of breast	12,478 (100)
Female reproductive organs	C53 Malignant neoplasm of cervix uteri	1,207 (27.4)
	C54 Malignant neoplasm of corpus uteri	1,779 (40.3)
	C55 Malignant neoplasm of uterus, part unspecified	81 (1.8)
	C56 Malignant neoplasm of ovary	1,310 (29.7)
	C57.0 Malignant neoplasm of the fallopian tube	32 (0.7)
	C57.4 Malignant neoplasm of the uterine adnexa	SN
	C58 Malignant neoplasm of placenta	3 (0.07)
Male reproductive organs	C61 Malignant neoplasm of prostate	8,693 (99.7)
	C62 Malignant neoplasm of testis	12 (0.3)
Urinary tract	C64 Malignant neoplasm of kidney except renal pelvis	1,518 (24.0)
	C65 Malignant neoplasm of renal pelvis	158 (2.5)
	C66 Malignant neoplasm of ureter	45 (0.7)
	C67 Malignant neoplasm of bladder	1,981 (31.3)
	D09.0 Carcinoma in situ of bladder	1,067 (16.9)
	D30.1 Benign neoplasm of renal pelvis	33 (0.5)
	D30.2 Benign neoplasm of ureter	17 (0.27)
	D30.3 Benign neoplasm of bladder	854 (13.5)

	D41.1 Neoplasms of uncertain or unknown behavior: renal pelvis	50 (0.8)
	D41.2 Neoplasms of uncertain or unknown behavior: ureter	15 (0.2)
	D41.4 Neoplasms of uncertain or unknown behavior: bladder	582 (9.2)
Central nervous system	C70 Malignant neoplasm of meninges	7 (0.2)
	C71 Malignant neoplasm of brain	1,140 (37.5)
	C75.1 Malignant neoplasm of the pituitary gland	3 (0.1)
	C75.2 Malignant neoplasm of the craniopharyngeal duct	SN
	C75.3 Malignant neoplasm of the pineal gland	SN
	D32 Benign neoplasms of meninges	1,049 (34.5)
	D33.0 Benign neoplasm: brain, supratentorial	101 (3.3)
	D33.1 Benign neoplasm: brain, infratentorial	26 (0.9)
	D33.2 Benign neoplasm: brain, unspecified	58 (1.9)
	D35.2 Benign neoplasm: pituitary gland	411 (13.5)
	D35.3 Benign neoplasm: craniopharyngeal duct	4 (0.1)
	D35.4 Benign neoplasm: pineal gland	19 (0.6)
	D42 Neoplasms of uncertain or unknown behavior: meninges	21 (0.6)
	D43.0 Neoplasms of uncertain or unknown behavior: brain, supratentorial	80 (2.6)
	D43.1 Neoplasms of uncertain or unknown behavior: brain, infratentorial	35 (1.2)
	D43.2 Neoplasms of uncertain or unknown behavior: brain, unspecified	56 (1.8)
	D44.3 Neoplasms of uncertain or unknown behavior: pituitary gland	9 (0.3)
	D44.4 Neoplasms of uncertain or unknown behavior: craniopharyngeal duct	20 (0.7)
	D44.5 Neoplasms of uncertain or unknown behavior: pineal gland	4 (0.1)
	Endocrine glands	C73 Malignant neoplasm of thyroid gland
Blood and blood forming organs	C81 Hodgkin lymphoma	310 (4.6)
	C82 Follicular lymphoma	296 (4.3)
	C83 Non-follicular lymphoma	807 (11.9)
	C84 Mature T/NK-cell lymphoma	175 (2.6)
	C85 Other and unspecified types of non-Hodgkin lymphoma	659 (9.7)
	C86 Other specified types of T/NK-cell lymphoma	SN
	C88 Malignant immunoproliferative disease	131 (1.9)
	C90 Multiple myeloma and malignant plasma cell neoplasms	722 (10.6)
	C91 Lymphoid leukemia	1,117 (16.4)
	C92.0 Acute myeloblastic leukemia	317 (4.7)
	C92.1 Chronic myeloid leukemia	143 (2.1)
	C92.2 Atypical chronic myeloid leukemia	8 (0.1)
	C92.3 Myeloid sarcoma	5 (0.07)
	C92.4 Acute promyelocytic leukemia	22 (0.4)
	C92.5 Acute myelomonocytic leukemia	25 (0.3)
	C92.6 Acute myeloid leukemia with 11q23- abnormality	SN
	C92.7 Other myeloid leukemia	14 (0.02)
	C92.8 Acute myeloid leukemia with multilineage dysplasia	5 (0.07)
	C93 Monocytic leukemia	62 (0.9)
	C94 Other leukemias of unspecified cell type	26 (0.4)
	C95 Leukemia of unspecified cell type	SN
	C96 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	SN
	D45 Polycythemia vera	348 (5.1)
	D46 Myelodysplastic syndromes	514 (7.5)
	D47.0 Histocytic and mast cell tumors of uncertain and unknown behavior	17 (0.2)
	D47.1 Chronic myeloproliferative disease	239 (3.5)
	D47.2 Monoclonal gammopathy of undetermined potential	540 (7.9)

	D47.3 Essential thrombocythemia	390 (5.7)
	D47.4 Osteomyelofibrosis	39 (0.6)
	D47.5 Chronic eosinophilic leukemia	10 (0.1)
Other	-	

**Supplementary Table 2: Grouping of hematological malignancies and tumors of the central nervous system.**

<b>Hematological malignancies</b>	
<b>Disease group</b>	<b>ICD-10 diagnosis<sup>1</sup></b>
Lymphomas	C81 Hodgkin lymphoma C82 Follicular lymphoma C83 Non-follicular lymphoma C84 Mature T/NK-cell lymphomas C85 Other and unspecified types of non-Hodgkin lymphoma C88.3 Immunoproliferative small intestinal disease C88.4 Extranodal marginal zone B-cell lymphoma of mucosa associated lymphoid tissue (MALT-lymphoma) C88.7 Other malignant immunoproliferative diseases C88.9 Malignant immunoproliferative disease, unspecified C91.5 Adult T-cell lymphoma/leukemia [HTLV-1-associated]
M-component related diseases	C88.0 Waldenströms macroglobulinemia C88.2 Other heavy chain disease C90 Multiple myeloma and malignant plasma cell neoplasms D47.2 Monoclonal gammopathy of undetermined potential (MGUS)
Chronic lymphoid leukemia (CLL)	C91.1 Chronic lymphoid leukemia of B-cell type C91.3 Prolymphocytic leukemia of B-cell type C91.4 Hairy cell leukemia C91.6 Prolymphocytic leukemia of T-cell type C91.7 Other lymphoid leukemia C91.9 Lymphoid leukemia, unspecified C95.1 Chronic leukemia of unspecified cell type
Myeloproliferative neoplasia (MPN)	C92.1 Chronic myeloid leukemia, BCR/ABL-positive C92.2 Atypical chronic myeloid leukemia, BCR/ABL-negative D45 Polycythemia Vera D47.0 Histiocytic and mast cell tumors of uncertain or unknown behavior D47.1 Chronic myeloproliferative disease D47.3 Essential thrombocythemia D47.4 Osteomyelofibrosis D47.5 Chronic eosinophilic leukemia
Myelodysplastic syndromes (MDS)	D46 Myelodysplastic syndromes C93.1 Chronic myelomonocytic leukemia C93.2 Juvenile myelomonocytic leukemia C93.9 Monocytic leukemia, unspecified
Acute leukemia	C91.0 Acute lymphoblastic leukemia C91.8 Mature B-cell leukemia, Burkitt type C92.0 Acute myeloblastic leukemia C92.3 Myeloid sarcoma C92.4 Acute promyelocytic leukemia C92.5 Acute myelomonocytic leukemia C92.6 Acute leukemia with 11q23-abnormality C92.7 Other myeloid leukemia C92.8 Acute myeloid leukemia with multilineage dysplasia

C93.0 Acute monoblastic/monocytic leukemia  
 C94.0 Acute erythroid leukemia  
 C94.2 Acute megakaryoblastic leukemia  
 C94.3 Mast cell leukemia  
 C94.4 Acute panmyelosis with myelofibrosis  
 C94.6 Myelodysplastic and myeloproliferative disease, not elsewhere specified  
 C94.7 Other specified leukemias  
 C95.0 Acute leukemia of unspecified cell type  
 C95.7 Other leukemia of unspecified cell type  
 C95.9 Leukemia, unspecified  
 C96 Other and unspecified malignant neoplasms

**Tumors of the Central Nervous System**

<b>Disease group</b>	<b>ICD-10 diagnosis<sup>1</sup></b>
Malignant tumors of the brain and meninges	C70 Malignant neoplasm of meninges C71 Malignant neoplasm of brain C75.1 Malignant neoplasm: pituitary gland C75.2 Malignant neoplasm: craniopharyngeal duct C75.3 Malignant neoplasm: pineal duct
Benign tumors of the brain and meninges	D32.0 Benign neoplasm: cerebral meninges D33.0 Benign neoplasm: brain, supratentorial D33.1 Benign neoplasm: brain, infratentorial D33.2 Benign neoplasm: brain, unspecified
Benign tumors of the endocrine glands in the brain	D35.2 Benign neoplasm: pituitary gland D35.3 Benign neoplasm: craniopharyngeal duct D35.4 Benign neoplasm: pineal gland
CNS tumors of unknown behavior	D42 Neoplasms of uncertain or unknown behavior: cerebral meninges D43.0 Neoplasms of uncertain or unknown behavior: brain, supratentorial D43.1 Neoplasms of uncertain or unknown behavior: brain, infratentorial D43.2 Neoplasms of uncertain or unknown behavior: brain, unspecified D44.3 Neoplasms of uncertain or unknown behavior: pituitary gland D44.4 Neoplasms of uncertain or unknown behavior: craniopharyngeal duct D44.5 Neoplasms of uncertain or unknown behavior: pineal gland