Supplementary Table 12: Case definition based on Internation Classification for Diseases, Tenth Revision (ICD-10) codes for solid cancers

(ICD-10) codes for solid cancers	
ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C000	Malignant neoplasm of external upper lip
C001	Malignant neoplasm of external lower lip
C002	Malignant neoplasm of external lip, unspecified
C003	Malignant neoplasm of upper lip, inner aspect
C004	Malignant neoplasm of lower lip, inner aspect
C005	Malignant neoplasm of lip, unspecified, inner aspect
C006	Malignant neoplasm of commissure of lip, unspecified
C008	Malignant neoplasm of overlapping sites of lip
C009	Malignant neoplasm of lip, unspecified
C01	Malignant neoplasm of base of tongue
C020	Malignant neoplasm of dorsal surface of tongue
C021	Malignant neoplasm of border of tongue
C022	Malignant neoplasm of ventral surface of tongue
C023	Malignant neoplasm of anterior two-thirds of tongue, part unspecified
C024	Malignant neoplasm of lingual tonsil
C028	Malignant neoplasm of overlapping sites of tongue
C029	Malignant neoplasm of tongue, unspecified
C030	Malignant neoplasm of upper gum
C031	Malignant neoplasm of lower gum
C039	Malignant neoplasm of gum, unspecified
C040	Malignant neoplasm of anterior floor of mouth
C041	Malignant neoplasm of lateral floor of mouth
C048	Malignant neoplasm of overlapping sites of floor of mouth
C049	Malignant neoplasm of floor of mouth, unspecified
C050	Malignant neoplasm of hard palate
C051	Malignant neoplasm of soft palate
C052	Malignant neoplasm of uvula
C058	Malignant neoplasm of overlapping sites of palate
C059	Malignant neoplasm of palate, unspecified
C060	Malignant neoplasm of cheek mucosa
C061	Malignant neoplasm of vestibule of mouth
C062	Malignant neoplasm of retromolar area
C0680	Malignant neoplasm of overlapping sites of unspecified parts of mouth
C0689	Malignant neoplasm of overlapping sites of other parts of mouth
C069	Malignant neoplasm of mouth, unspecified
C07	Malignant neoplasm of parotid gland
C080	Malignant neoplasm of submandibular gland
C081	Malignant neoplasm of sublingual gland
C089	Malignant neoplasm of major salivary gland, unspecified
C090	Malignant neoplasm of tonsillar fossa
C091	Malignant neoplasm of tonsillar pillar (anterior) (posterior)
C098	Malignant neoplasm of overlapping sites of tonsil
C099	Malignant neoplasm of tonsil, unspecified
C100	Malignant neoplasm of vallecula
C101	Malignant neoplasm of anterior surface of epiglottis
C102	Malignant neoplasm of lateral wall of oropharynx
C103	Malignant neoplasm of posterior wall of oropharynx
C104	Malignant neoplasm of branchial cleft
C108	Malignant neoplasm of overlapping sites of oropharynx
C109	Malignant neoplasm of oropharynx, unspecified
C110	Malignant neoplasm of superior wall of nasopharynx
C111	Malignant neoplasm of posterior wall of nasopharynx
C112	Malignant neoplasm of lateral wall of nasopharynx
C113	Malignant neoplasm of anterior wall of nasopharynx
C118	Malignant neoplasm of overlapping sites of nasopharynx

Supplementary Table 12. Contu	
ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C119	Malignant neoplasm of nasopharynx, unspecified
C12	Malignant neoplasm of pyriform sinus
C130	Malignant neoplasm of postcricoid region
C131	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect
C132	Malignant neoplasm of posterior wall of hypopharynx
C138	Malignant neoplasm of overlapping sites of hypopharynx
C139	Malignant neoplasm of hypopharynx, unspecified
C140	Malignant neoplasm of pharynx, unspecified
C142	Malignant neoplasm of Waldeyer's ring
C148	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx
C153	Malignant neoplasm of upper third of esophagus
C154	Malignant neoplasm of middle third of esophagus
C155	Malignant neoplasm of lower third of esophagus
C158	Malignant neoplasm of overlapping sites of esophagus
C159	Malignant neoplasm of esophagus, unspecified
C160	Malignant neoplasm of cardia
C161	Malignant neoplasm of fundus of stomach
C162	Malignant neoplasm of body of stomach
C163	Malignant neoplasm of pyloric antrum
C164	Malignant neoplasm of pylorus
C165	Malignant neoplasm of lesser curvature of stomach, unspecified
C166	Malignant neoplasm of greater curvature of stomach, unspecified
C168	Malignant neoplasm of overlapping sites of stomach
C169	Malignant neoplasm of stomach, unspecified
C170	Malignant neoplasm of duodenum
C171	Malignant neoplasm of jejunum
C172	Malignant neoplasm of jeunant
C173	Meckel's diverticulum, malignant
C178	Malignant neoplasm of overlapping sites of small intestine
C179	Malignant neoplasm of small intestine, unspecified
C180	Malignant neoplasm of small intestine, unspecified
C181	Malignant neoplasm of appendix
C182	Malignant neoplasm of ascending colon
C183	Malignant neoplasm of hepatic flexure
C184	Malignant neoplasm of transverse colon
	5
C185	Malignant neoplasm of splenic flexure
C186	Malignant neoplasm of descending colon
C187	Malignant neoplasm of sigmoid colon
C188	Malignant neoplasm of overlapping sites of colon
C189	Malignant neoplasm of colon, unspecified
C19	Malignant neoplasm of rectosigmoid junction
C20	Malignant neoplasm of rectum
C210	Malignant neoplasm of anus, unspecified
C211	Malignant neoplasm of anal canal
C212	Malignant neoplasm of cloacogenic zone
C218	Malignant neoplasm of overlapping sites of rectum, anus and anal canal
C220	Liver cell carcinoma
C221	Intrahepatic bile duct carcinoma
C222	Hepatoblastoma
C223	Angiosarcoma of liver
C224	Other sarcomas of liver
C227	Other specified carcinomas of liver
C228	Malignant neoplasm of liver, primary, unspecified as to type
C229	Malignant neoplasm of liver, not specified as primary or secondary
C23	Malignant neoplasm of gallbladder

CD-10-CM diagnosis of solid cappor	ICD-10-CM code description
ICD-10-CM diagnosis of solid cancer C240	ICD-10-CM code description Malignant neoplasm of extrahepatic bile duct
C240	Malignant neoplasm of ampulla of Vater
C241 C248	Malignant neoplasm of overlapping sites of biliary tract
C249	Malignant neoplasm of overlapping sites of billary tract
C250	Malignant neoplasm of head of pancreas
C251	Malignant neoplasm of body of pancreas
C252	Malignant neoplasm of tail of pancreas
C253	Malignant neoplasm of pancreatic duct
C254	Malignant neoplasm of participate duct
C257	Malignant neoplasm of other parts of pancreas
C258	Malignant neoplasm of overlapping sites of pancreas
C259	Malignant neoplasm of pancreas, unspecified
C260	Malignant neoplasm of intestinal tract, part unspecified
C261	Malignant neoplasm of spleen
C269	Malignant neoplasm of ill-defined sites within the digestive system
C300	Malignant neoplasm of nasal cavity
C301	Malignant neoplasm of middle ear
C310	Malignant neoplasm of maxillary sinus
C311	Malignant neoplasm of ethmoidal sinus
C312	Malignant neoplasm of frontal sinus
C313	Malignant neoplasm of sphenoid sinus
C318	Malignant neoplasm of overlapping sites of accessory sinuses
C319	Malignant neoplasm of accessory sinus, unspecified
C320	Malignant neoplasm of glottis
C321	Malignant neoplasm of supraglottis
C322	Malignant neoplasm of subglottis
C323	Malignant neoplasm of laryngeal cartilage
C328	Malignant neoplasm of overlapping sites of larynx
C329	Malignant neoplasm of larynx, unspecified
C33	Malignant neoplasm of trachea
C3400	Malignant neoplasm of unspecified main bronchus
C3401	Malignant neoplasm of right main bronchus
C3402	Malignant neoplasm of left main bronchus
C3410	Malignant neoplasm of upper lobe, unspecified bronchus or lung
C3411	Malignant neoplasm of upper lobe, right bronchus or lung
C3412	Malignant neoplasm of upper lobe, left bronchus or lung
C342	Malignant neoplasm of middle lobe, bronchus or lung
C3430	Malignant neoplasm of lower lobe, unspecified bronchus or lung
C3431	Malignant neoplasm of lower lobe, right bronchus or lung
C3432	Malignant neoplasm of lower lobe, left bronchus or lung
C3480	Malignant neoplasm of overlapping sites of unspecified bronchus and lung
C3481	Malignant neoplasm of overlapping sites of right bronchus and lung
C3482	Malignant neoplasm of overlapping sites of left bronchus and lung
C3490	Malignant neoplasm of unspecified part of unspecified bronchus or lung
C3491	Malignant neoplasm of unspecified part of right bronchus or lung
C3492	Malignant neoplasm of unspecified part of left bronchus or lung
C37	Malignant neoplasm of thymus
C380	Malignant neoplasm of heart
C381	Malignant neoplasm of anterior mediastinum
C382	Malignant neoplasm of posterior mediastinum
C383	Malignant neoplasm of mediastinum, part unspecified
C384	Malignant neoplasm of pleura
C388	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura
C390	and the second
C399	Malignant neoplasm of upper respiratory tract, part unspecified Malignant neoplasm of lower respiratory tract, part unspecified

-CM code description
ant neoplasm of scapula and long bones of unspecified upper limb
ant neoplasm of scapula and long bones of right upper limb
ant neoplasm of scapula and long bones of left upper limb
ant neoplasm of short bones of unspecified upper limb
ant neoplasm of short bones of right upper limb
ant neoplasm of short bones of left upper limb
ant neoplasm of long bones of unspecified lower limb
ant neoplasm of long bones of right lower limb
ant neoplasm of long bones of left lower limb
ant neoplasm of short bones of unspecified lower limb
ant neoplasm of short bones of right lower limb
ant neoplasm of short bones of left lower limb
ant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb
ant neoplasm of overlapping sites of bone and articular cartilage of right limb
ant neoplasm of overlapping sites of bone and articular cartilage of left limb
ant neoplasm of unspecified bones and articular cartilage of unspecified limb
ant neoplasm of unspecified bones and articular cartilage of right limb
ant neoplasm of unspecified bones and articular cartilage of left limb
ant neoplasm of bones of skull and face
ant neoplasm of mandible
ant neoplasm of vertebral column
ant neoplasm of ribs, sternum and clavicle
ant neoplasm of pelvic bones, sacrum and coccyx
ant neoplasm of bone and articular cartilage, unspecified
ant melanoma of lip
ant melanoma of unspecified eyelid, including canthus
ant melanoma of right eyelid, including canthus
ant melanoma of right upper eyelid, including canthus
ant melanoma of right lower eyelid, including canthus ant melanoma of left eyelid, including canthus
ant melanoma of left upper eyelid, including canthus
ant melanoma of left lower eyelid, including canthus
ant melanoma of unspecified ear and external auricular canal
ant melanoma of right ear and external auricular canal
ant melanoma of left ear and external auricular canal
ant melanoma of unspecified part of face
ant melanoma of nose
ant melanoma of other parts of face
ant melanoma of scalp and neck
ant melanoma of anal skin
ant melanoma of skin of breast
ant melanoma of other part of trunk
ant melanoma of unspecified upper limb, including shoulder
ant melanoma of right upper limb, including shoulder
ant melanoma of left upper limb, including shoulder
ant melanoma of unspecified lower limb, including hip
ant melanoma of right lower limb, including hip
ant melanoma of left lower limb, including hip
ant melanoma of overlapping sites of skin
ant melanoma of skin, unspecified
cified malignant neoplasm of skin of lip
specified malignant neoplasm of skin of lip
cified malignant neoplasm of skin of unspecified eyelid, including canthus
cified malignant neoplasm of skin of right eyelid, including canthus
cified malignant neoplasm of skin of right upper eyelid, including canthus

ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C441022	Unspecified malignant neoplasm of skin of right lower eyelid, including canthus
C44109	Unspecified malignant neoplasm of skin of left evelid, including canthus
C441091	Unspecified malignant neoplasm of skin of left upper eyelid, including canthus
C441092	Unspecified malignant neoplasm of skin of left lower eyelid, including canthus
C44131	Sebaceous cell carcinoma of skin of unspecified eyelid, including canthus
C441321	Sebaceous cell carcinoma of skin of right upper eyelid, including canthus
C441322	Sebaceous cell carcinoma of skin of right lower eyelid, including canthus
C441391	Sebaceous cell carcinoma of skin of left upper eyelid, including canthus
C441392	Sebaceous cell carcinoma of skin of left lower evelid, including canthus
C44191	Other specified malignant neoplasm of skin of unspecified eyelid, including canthus
C44192	Other specified malignant neoplasm of skin of right eyelid, including canthus
C441921	Other specified malignant neoplasm of skin of right upper eyelid, including canthus
C441922	Other specified malignant neoplasm of skin of right lower eyelid, including canthus
C44199	Other specified malignant neoplasm of skin of left eyelid, including canthus
C441991	Other specified malignant neoplasm of skin of left upper eyelid, including canthus
C441992	Other specified malignant neoplasm of skin of left lower eyelid, including canthus
C44201	Unspecified malignant neoplasm of skin of unspecified ear and external auricular canal
C44202	Unspecified malignant neoplasm of skin of right ear and external auricular canal
C44209	Unspecified malignant neoplasm of skin of left ear and external auricular canal
C44291	Other specified malignant neoplasm of skin of unspecified ear and external auricular canal
C44292	Other specified malignant neoplasm of skin of right ear and external auricular canal
C44299	Other specified malignant neoplasm of skin of left ear and external auricular canal
C44300	Unspecified malignant neoplasm of skin of unspecified part of face
C44301	Unspecified malignant neoplasm of skin of nose
C44309	Unspecified malignant neoplasm of skin of other parts of face
C44390	Other specified malignant neoplasm of skin of unspecified parts of face
C44391	Other specified malignant neoplasm of skin of nose
C44399	Other specified malignant neoplasm of skin of other parts of face
C4440	Unspecified malignant neoplasm of skin of scalp and neck
C4449	Other specified malignant neoplasm of skin of scalp and neck
C44500	Unspecified malignant neoplasm of anal skin
C44501	Unspecified malignant neoplasm of skin of breast
C44509	Unspecified malignant neoplasm of skin of other part of trunk
C44590	Other specified malignant neoplasm of anal skin
C44591	Other specified malignant neoplasm of skin of breast
C44599	Other specified malignant neoplasm of skin of other part of trunk
C44601	Unspecified malignant neoplasm of skin of unspecified upper limb, including shoulder
C44602	Unspecified malignant neoplasm of skin of right upper limb, including shoulder
C44609	Unspecified malignant neoplasm of skin of left upper limb, including shoulder
C44691	Other specified malignant neoplasm of skin of unspecified upper limb, including shoulder
C44692	Other specified malignant neoplasm of skin of right upper limb, including shoulder
C44699	Other specified malignant neoplasm of skin of left upper limb, including shoulder
C44701	Unspecified malignant neoplasm of skin of unspecified lower limb, including hip
C44702	Unspecified malignant neoplasm of skin of right lower limb, including hip
C44709	Unspecified malignant neoplasm of skin of left lower limb, including hip
C44791	Other specified malignant neoplasm of skin of unspecified lower limb, including hip
C44792	Other specified malignant neoplasm of skin of right lower limb, including hip
C44799	Other specified malignant neoplasm of skin of left lower limb, including hip
C4480	Unspecified malignant neoplasm of overlapping sites of skin
C4489	Other specified malignant neoplasm of overlapping sites of skin
C4490	Unspecified malignant neoplasm of skin, unspecified
C4499	Other specified malignant neoplasm of skin, unspecified
C450	Mesothelioma of pleura
C451	Mesothelioma of peritoneum
C452	Mesothelioma of pericardium

ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C457	Mesothelioma of other sites
C459	Mesothelioma, unspecified
C460	Kaposi's sarcoma of skin
C461	Kaposi's sarcoma of soft tissue
C462	Kaposi's sarcoma of palate
C463	Kaposi's sarcoma of lymph nodes
C464	Kaposi's sarcoma of gastrointestinal sites
C4650	Kaposi's sarcoma of unspecified lung
C4651	Kaposi's sarcoma of right lung
C4652	Kaposi's sarcoma of left lung
C467	Kaposi's sarcoma of other sites
C469	Kaposi's sarcoma, unspecified
C470	Malignant neoplasm of peripheral nerves of head, face and neck
C4710	Malignant neoplasm of peripheral nerves of unspecified upper limb, including shoulder
C4711	Malignant neoplasm of peripheral nerves of right upper limb, including shoulder
C4712	Malignant neoplasm of peripheral nerves of left upper limb, including shoulder
C4720	Malignant neoplasm of peripheral nerves of unspecified lower limb, including hip
C4721	Malignant neoplasm of peripheral nerves of right lower limb, including hip
C4722	Malignant neoplasm of peripheral nerves of left lower limb, including hip
C473	Malignant neoplasm of peripheral nerves of thorax
C474	Malignant neoplasm of peripheral nerves of abdomen
C475	Malignant neoplasm of peripheral nerves of pelvis
C476	Malignant neoplasm of peripheral nerves of trunk, unspecified
C478	Malignant neoplasm of overlapping sites of peripheral nerves and autonomic nervous system
C479	Malignant neoplasm of peripheral nerves and autonomic nervous system, unspecified
C480	Malignant neoplasm of retroperitoneum
C481	Malignant neoplasm of specified parts of peritoneum
C482	Malignant neoplasm of peritoneum, unspecified
C488	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum
C490	Malignant neoplasm of connective and soft tissue of head, face and neck
C4910	Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder
C4911	Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder
C4912	Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder
C4920	Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip
C4921	Malignant neoplasm of connective and soft tissue of right lower limb, including hip
C4922	Malignant neoplasm of connective and soft tissue of left lower limb, including hip
C493	Malignant neoplasm of connective and soft tissue of thorax
C494	Malignant neoplasm of connective and soft tissue of abdomen
C495	Malignant neoplasm of connective and soft tissue of pelvis
C496	Malignant neoplasm of connective and soft tissue of trunk, unspecified
C498	Malignant neoplasm of overlapping sites of connective and soft tissue
C499	Malignant neoplasm of connective and soft tissue, unspecified
C49A0	Gastrointestinal stromal tumor, unspecified site
C49A1	Gastrointestinal stromal tumor of esophagus
C49A2	Gastrointestinal stromal tumor of stomach
C49A3	Gastrointestinal stromal tumor of small intestine
C49A4	Gastrointestinal stromal tumor of large intestine
C49A5	Gastrointestinal stromal tumor of rectum
C49A9	Gastrointestinal stromal tumor of other sites
C4A0	Merkel cell carcinoma of lip
C4A10	Merkel cell carcinoma of unspecified eyelid, including canthus
C4A11	Merkel cell carcinoma of right eyelid, including canthus
C4A111	Merkel cell carcinoma of right upper eyelid, including canthus
C4A112	Merkel cell carcinoma of right lower eyelid, including canthus
C4A12	Merkel cell carcinoma of left eyelid, including canthus

ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C4A121	Merkel cell carcinoma of left upper eyelid, including canthus
C4A122	Merkel cell carcinoma of left lower eyelid, including canthus
C4A20	Merkel cell carcinoma of unspecified ear and external auricular canal
C4A21	Merkel cell carcinoma of right ear and external auricular canal
C4A22	Merkel cell carcinoma of left ear and external auricular canal
C4A30	Merkel cell carcinoma of unspecified part of face
C4A31	Merkel cell carcinoma of nose
C4A39	Merkel cell carcinoma of other parts of face
C4A4	Merkel cell carcinoma of scalp and neck
C4A51	Merkel cell carcinoma of anal skin
C4A52	Merkel cell carcinoma of skin of breast
C4A59	Merkel cell carcinoma of other part of trunk
C4A60	Merkel cell carcinoma of unspecified upper limb, including shoulder
C4A61	Merkel cell carcinoma of right upper limb, including shoulder
C4A62	Merkel cell carcinoma of left upper limb, including shoulder
C4A70	Merkel cell carcinoma of unspecified lower limb, including hip
C4A71	Merkel cell carcinoma of right lower limb, including hip
C4A72	Merkel cell carcinoma of left lower limb, including hip
C4A8	Merkel cell carcinoma of overlapping sites
C4A9	Merkel cell carcinoma, unspecified
C50011	Malignant neoplasm of nipple and areola, right female breast
C50012	Malignant neoplasm of nipple and areola, left female breast
C50019	Malignant neoplasm of nipple and areola, unspecified female breast
C50021	Malignant neoplasm of nipple and areola, right male breast
C50022	Malignant neoplasm of nipple and areola, left male breast
C50029	Malignant neoplasm of nipple and areola, unspecified male breast
C50111	Malignant neoplasm of central portion of right female breast
C50112	Malignant neoplasm of central portion of left female breast
C50119	Malignant neoplasm of central portion of unspecified female breast
C50121	Malignant neoplasm of central portion of right male breast
C50122	Malignant neoplasm of central portion of left male breast
C50129	Malignant neoplasm of central portion of unspecified male breast
C50211	Malignant neoplasm of upper-inner quadrant of right female breast
C50212	Malignant neoplasm of upper-inner quadrant of left female breast
C50219	Malignant neoplasm of upper-inner quadrant of unspecified female breast
C50221	Malignant neoplasm of upper-inner quadrant of right male breast
C50222	Malignant neoplasm of upper-inner quadrant of left male breast
C50229	Malignant neoplasm of upper-inner quadrant of unspecified male breast
C50311	Malignant neoplasm of lower-inner quadrant of right female breast
C50312	Malignant neoplasm of lower-inner quadrant of left female breast
C50319	Malignant neoplasm of lower-inner quadrant of unspecified female breast
C50321	Malignant neoplasm of lower-inner quadrant of right male breast
C50322	Malignant neoplasm of lower-inner quadrant of left male breast
C50329	Malignant neoplasm of lower-inner quadrant of unspecified male breast
C50411	Malignant neoplasm of upper-outer quadrant of right female breast
C50412	Malignant neoplasm of upper-outer quadrant of left female breast
C50419	Malignant neoplasm of upper-outer quadrant of unspecified female breast
C50421	Malignant neoplasm of upper-outer quadrant of right male breast Malignant neoplasm of upper-outer quadrant of left male breast
C50422	Malignant neoplasm of upper-outer quadrant of left male breast Malignant neoplasm of upper-outer quadrant of unspecified male breast
C50429 C50511	Malignant neoplasm of upper-outer quadrant of unspecified male breast Malignant neoplasm of lower-outer quadrant of right female breast
C50512	Malignant neoplasm of lower-outer quadrant of left female breast
C50512	Malignant neoplasm of lower-outer quadrant of unspecified female breast
C50519	Malignant neoplasm of lower-outer quadrant of unspecified remaie breast
C50521	Malignant neoplasm of lower-outer quadrant of left male breast
	אימויצויומיו וובטאומטוו טו וטאבו־טעובו עעמעומוו טו ובוו ווומוב טובמטנ

ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C50529	Malignant neoplasm of lower-outer quadrant of unspecified male breast
C50611	Malignant neoplasm of axillary tail of right female breast
C50612	Malignant neoplasm of axillary tail of left female breast
C50619	Malignant neoplasm of axillary tail of unspecified female breast
C50621	Malignant neoplasm of axillary tail of right male breast
C50622	Malignant neoplasm of axillary tail of left male breast
C50629	Malignant neoplasm of axillary tail of unspecified male breast
C50811	Malignant neoplasm of overlapping sites of right female breast
C50812	Malignant neoplasm of overlapping sites of left female breast
C50819	Malignant neoplasm of overlapping sites of unspecified female breast
C50821	Malignant neoplasm of overlapping sites of right male breast
C50822	Malignant neoplasm of overlapping sites of left male breast
C50829	Malignant neoplasm of overlapping sites of unspecified male breast
C50911	Malignant neoplasm of unspecified site of right female breast
C50912	Malignant neoplasm of unspecified site of left female breast
C50919	Malignant neoplasm of unspecified site of unspecified female breast
C50921	Malignant neoplasm of unspecified site of right male breast
C50922	Malignant neoplasm of unspecified site of left male breast
C50929	Malignant neoplasm of unspecified site of unspecified male breast
C510	Malignant neoplasm of labium majus
C511	Malignant neoplasm of labium minus
C512	Malignant neoplasm of clitoris
C518	Malignant neoplasm of overlapping sites of vulva
C519	Malignant neoplasm of vulva, unspecified
C52	Malignant neoplasm of vagina
C530	Malignant neoplasm of endocervix
C531	Malignant neoplasm of exocervix
C538 C539	Malignant neoplasm of overlapping sites of cervix uteri
C539 C540	Malignant neoplasm of cervix uteri, unspecified Malignant neoplasm of isthmus uteri
C541	Malignant neoplasm of endometrium
C542	Malignant neoplasm of myometrium
C543	Malignant neoplasm of fundus uteri
C548	Malignant neoplasm of overlapping sites of corpus uteri
C549	Malignant neoplasm of corpus uteri, unspecified
C55	Malignant neoplasm of uterus, part unspecified
C561	Malignant neoplasm of right ovary
C562	Malignant neoplasm of left ovary
C563	Malignant neoplasm of bilateral ovaries
C569	Malignant neoplasm of unspecified ovary
C5700	Malignant neoplasm of unspecified fallopian tube
C5701	Malignant neoplasm of right fallopian tube
C5702	Malignant neoplasm of left fallopian tube
C5710	Malignant neoplasm of unspecified broad ligament
C5711	Malignant neoplasm of right broad ligament
C5712	Malignant neoplasm of left broad ligament
C5720	Malignant neoplasm of unspecified round ligament
C5721	Malignant neoplasm of right round ligament
C5722	Malignant neoplasm of left round ligament
C573	Malignant neoplasm of parametrium
C574	Malignant neoplasm of uterine adnexa, unspecified
C577	Malignant neoplasm of other specified female genital organs
C578	Malignant neoplasm of overlapping sites of female genital organs
C579	Malignant neoplasm of female genital organ, unspecified
C58	Malignant neoplasm of placenta

Supplementary Table 12. Contu	
ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C600	Malignant neoplasm of prepuce
C601	Malignant neoplasm of glans penis
C602	Malignant neoplasm of body of penis
C608	Malignant neoplasm of overlapping sites of penis
C609	Malignant neoplasm of penis, unspecified
C61	Malignant neoplasm of prostate
C6200	Malignant neoplasm of unspecified undescended testis
C6201	Malignant neoplasm of undescended right testis
C6202	Malignant neoplasm of undescended left testis
C6210	Malignant neoplasm of unspecified descended testis
C6211	Malignant neoplasm of descended right testis
C6212	Malignant neoplasm of descended left testis
C6290	Malignant neoplasm of unspecified testis, unspecified whether descended or undescended
C6291	Malignant neoplasm of right testis, unspecified whether descended or undescended
C6292	Malignant neoplasm of left testis, unspecified whether descended or undescended
C6300	Malignant neoplasm of unspecified epididymis
C6301	Malignant neoplasm of right epididymis
C6302	Malignant neoplasm of left epididymis
C6310	Malignant neoplasm of unspecified spermatic cord
C6311	Malignant neoplasm of right spermatic cord
C6312	Malignant neoplasm of left spermatic cord
C632	Malignant neoplasm of scrotum
C637	Malignant neoplasm of other specified male genital organs
C638	Malignant neoplasm of overlapping sites of male genital organs
C639	Malignant neoplasm of male genital organ, unspecified
C641	Malignant neoplasm of right kidney, except renal pelvis
C642	Malignant neoplasm of left kidney, except renal pelvis
C649	Malignant neoplasm of unspecified kidney, except renal pelvis
C651	Malignant neoplasm of right renal pelvis
C652	Malignant neoplasm of left renal pelvis
C659	Malignant neoplasm of unspecified renal pelvis
C661	Malignant neoplasm of right ureter
C662	Malignant neoplasm of left ureter
C669	Malignant neoplasm of unspecified ureter
C670	Malignant neoplasm of trigone of bladder
C671	Malignant neoplasm of dome of bladder
C672	Malignant neoplasm of lateral wall of bladder
C673	Malignant neoplasm of anterior wall of bladder
C674	Malignant neoplasm of posterior wall of bladder
C675	Malignant neoplasm of bladder neck
C676	Malignant neoplasm of ureteric orifice
C677	Malignant neoplasm of urachus
C678	Malignant neoplasm of overlapping sites of bladder
C679	Malignant neoplasm of bladder, unspecified
C680	Malignant neoplasm of urethra
C681	Malignant neoplasm of paraurethral glands
C688	Malignant neoplasm of overlapping sites of urinary organs
C689	Malignant neoplasm of urinary organ, unspecified
C6900	Malignant neoplasm of unspecified conjunctiva
C6901	Malignant neoplasm of right conjunctiva
C6902	Malignant neoplasm of left conjunctiva
C6910	Malignant neoplasm of unspecified cornea
C6911	Malignant neoplasm of right cornea
C6912	Malignant neoplasm of left cornea

Supplementary Table 12. Contu	IOD 10 ON code decoriution
ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C6921	Malignant neoplasm of right retina
C6922	Malignant neoplasm of left retina
C6930	Malignant neoplasm of unspecified choroid
C6931	Malignant neoplasm of right choroid
C6932	Malignant neoplasm of left choroid
C6940	Malignant neoplasm of unspecified ciliary body
C6941	Malignant neoplasm of right ciliary body
C6942	Malignant neoplasm of left ciliary body
C6950	Malignant neoplasm of unspecified lacrimal gland and duct
C6951	Malignant neoplasm of right lacrimal gland and duct
C6952	Malignant neoplasm of left lacrimal gland and duct
C6960	Malignant neoplasm of unspecified orbit
C6961	Malignant neoplasm of right orbit
C6962	Malignant neoplasm of left orbit
C6980	Malignant neoplasm of overlapping sites of unspecified eye and adnexa
C6981	Malignant neoplasm of overlapping sites of right eye and adnexa
C6982	Malignant neoplasm of overlapping sites of left eye and adnexa
C6990 C6991	Malignant neoplasm of unspecified site of unspecified eye
C6992	Malignant neoplasm of unspecified site of right eye Malignant neoplasm of unspecified site of left eye
C700 C701	Malignant neoplasm of cerebral meninges Malignant neoplasm of spinal meninges
C709 C710	Malignant neoplasm of meninges, unspecified
C711	Malignant neoplasm of cerebrum, except lobes and ventricles Malignant neoplasm of frontal lobe
C712	Malignant neoplasm of temporal lobe
C713	Malignant neoplasm of parietal lobe
C714	Malignant neoplasm of occipital lobe
C715	
C716	Malignant neoplasm of cerebral ventricle Malignant neoplasm of cerebellum
C717	Malignant neoplasm of brain stem
C718	Malignant neoplasm of overlapping sites of brain
C719	Malignant neoplasm of brain, unspecified
C720	Malignant neoplasm of spinal cord
C721	Malignant neoplasm of cauda equina
C7220	Malignant neoplasm of unspecified olfactory nerve
C7221	Malignant neoplasm of right olfactory nerve
C7222	Malignant neoplasm of left olfactory nerve
C7230	Malignant neoplasm of unspecified optic nerve
C7231	Malignant neoplasm of right optic nerve
C7232	Malignant neoplasm of left optic nerve
C7240	Malignant neoplasm of unspecified acoustic nerve
C7241	Malignant neoplasm of right acoustic nerve
C7242	Malignant neoplasm of left acoustic nerve
C7250	Malignant neoplasm of unspecified cranial nerve
C7259	Malignant neoplasm of other cranial nerves
C729	Malignant neoplasm of central nervous system, unspecified
C73	Malignant neoplasm of thyroid gland
C7400	Malignant neoplasm of cortex of unspecified adrenal gland
C7401	Malignant neoplasm of cortex of right adrenal gland
C7402	Malignant neoplasm of cortex of left adrenal gland
C7410	Malignant neoplasm of medulla of unspecified adrenal gland
C7411	Malignant neoplasm of medulla of right adrenal gland
C7412	Malignant neoplasm of medulla of left adrenal gland
C7490	Malignant neoplasm of unspecified part of unspecified adrenal gland

oupplementary rubic 12: contain	
ICD-10-CM diagnosis of solid cancer	ICD-10-CM code description
C7491	Malignant neoplasm of unspecified part of right adrenal gland
C7492	Malignant neoplasm of unspecified part of left adrenal gland
C750	Malignant neoplasm of parathyroid gland
C751	Malignant neoplasm of pituitary gland
C752	Malignant neoplasm of craniopharyngeal duct
C753	Malignant neoplasm of pineal gland
C754	Malignant neoplasm of carotid body
C755	Malignant neoplasm of aortic body and other paraganglia
C758	Malignant neoplasm with pluriglandular involvement, unspecified
C759	Malignant neoplasm of endocrine gland, unspecified
C760	Malignant neoplasm of head, face and neck
C761	Malignant neoplasm of thorax
C762	Malignant neoplasm of abdomen
C763	Malignant neoplasm of pelvis
C7640	Malignant neoplasm of unspecified upper limb
C7641	Malignant neoplasm of right upper limb
C7642	Malignant neoplasm of left upper limb
C7650	Malignant neoplasm of unspecified lower limb
C7651	Malignant neoplasm of right lower limb
C7652	Malignant neoplasm of left lower limb
C768	Malignant neoplasm of other specified ill-defined sites
C7A00	Malignant carcinoid tumor of unspecified site
C7A010	Malignant carcinoid tumor of the duodenum
C7A011	Malignant carcinoid tumor of the jejunum
C7A012	Malignant carcinoid tumor of the ileum
C7A019	Malignant carcinoid tumor of the small intestine, unspecified portion
C7A020	Malignant carcinoid tumor of the appendix
C7A021	Malignant carcinoid tumor of the cecum
C7A022	Malignant carcinoid tumor of the ascending colon
C7A023	Malignant carcinoid tumor of the transverse colon
C7A024	Malignant carcinoid tumor of the descending colon
C7A025	Malignant carcinoid tumor of the sigmoid colon
C7A025	Malignant carcinoid tumor of the rectum
C7A029	Malignant carcinoid tumor of the large intestine, unspecified portion
C7A029	Malignant carcinoid tumor of the bronchus and lung
C7A090	Malignant carcinoid tumor of the thymus
C7A091 C7A092	Malignant carcinoid tumor of the stomach
C7A093	Malignant carcinoid tumor of the kidney Malignant carcinoid tumor of the foregut, unspecified
C7A094	
C7A095	Malignant carcinoid tumor of the midgut, unspecified
C7A096	Malignant carcinoid tumor of the hindgut, unspecified
C7A098	Malignant carcinoid tumors of other sites
C7A1	Malignant poorly differentiated neuroendocrine tumors
C7A8	Other malignant neuroendocrine tumors
D469	Myelodysplastic syndrome, unspecified
E3121	MEN type I
E3122	MEN type IIA
E3123	MEN type IIB
MEN=Multiple endocrine neoplasia, ICD-10-CM=	International Classification of Diseases, 10 th Edition Clinical Modification