

## Cancer Surgery Volume Methodology International Classification of Diseases-Clinical Modification Version 10 (ICD-10) and Current Procedural Terminology (CPT) Code Selection

## June 2018

To capture inpatient surgeries, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10) procedure and diagnostic codes (Table 1) were identified that corresponded to cancer-directed operations for the specified malignancies. These codes were then tested using actual data and subsequently vetted by experts.

- 1. The ICD-10 coding manual was examined to identify codes related to the malignancies of interest.
- 2. The codes were reviewed with specialists to ensure that codes reflected cancer-directed surgeries.
- 3. All the codes in the literature review document were assessed for inclusion. Some of these codes were included, but many of the codes included in prior research studies were determined by the research team to be inconsistent with the goals of this project.
- 4. California Office of Statewide Health Planning and Development (OSHPD) data were used to ensure that relevant ICD-10 procedure codes were not missed. First, we selected ICD-10 diagnosis codes for the malignancies of interest. Frequencies of the most common ICD-10 procedure codes associated with these diagnoses were then run to ensure that common ICD-10 procedure codes for these cancers were included in our lists.
- 5. The OSHPD data were used to ensure that relevant ICD-10 diagnosis codes were not missed. First, ICD-10 procedure codes were selected for the malignancies of interest. Then frequencies of the most common ICD-10 diagnosis codes associated with these surgeries were run to ensure that common ICD-10 diagnosis codes for these cancers were included in our lists.
- 6. Some additional decisions were made for classifying patients who had two cancer diagnoses and one common procedure or patients who had multiple cancer diagnoses and one sole robotic procedure.
  - a. If both a colon cancer diagnosis and rectum cancer diagnosis were present and the only procedure was resection of the sigmoid colon, this cancer procedure was classified as "colon".
  - b. If both an esophagus cancer diagnosis and a stomach cancer diagnosis were present and the only procedure was excision or resection of esophagogastric junction, this cancer procedure was be classified as "esophagus".
  - c. If both an esophagus cancer diagnosis and a stomach cancer diagnosis were present and the only procedure was resection of esophagogastric junction, this cancer procedure was classified as "esophagus".
  - d. If more than one of these seven cancer diagnoses (bladder, colon, lung, pancreas, prostate, rectum, and stomach) were present and a robotic procedure was the sole procedure, the procedure was attributed to the cancer associated with the primary diagnosis. If none of these cancer diagnoses was a primary diagnosis, the case will be deleted from the cohort.

To capture outpatient breast cancer surgeries, 2013 Current Procedure Technology (CPT) codes (Table 1) were identified that corresponded to cancer-directed operations for breast malignancies. These codes were then tested using actual data and subsequently vetted by experts.

- 1. The CPT coding manual was examined to identify codes related to the malignancies of interest.
- 2. The codes were reviewed with specialists to ensure that codes reflected cancer-directed surgeries.
- 3. All the codes in the literature review document were assessed for inclusion. Some of these codes were included, but many of the codes included in prior research studies were determined by the research team to be inconsistent with the goals of this project.



4. American College of Surgeons National Surgical Quality Improvement Program data were used to ensure that relevant CPT codes were not missed. ICD-10 diagnosis codes were selected for the malignancies of interest. Frequencies of the most common CPT codes coded were then run to ensure that common CPT codes for these cancers were included in our lists.

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Table 1: ICD-10 diagnosis, procedure and CPT procedure codes

Cancer	Code	Brief text
Bladder		
Diagnosis	C67.0	Malignant neoplasm of trigone of bladder
	C67.1	Malignant neoplasm of dome of bladder
	C67.2	Malignant neoplasm of lateral wall of bladder
	C67.3	Malignant neoplasm of anterior wall of bladder
	C67.4	Malignant neoplasm of posterior wall of bladder
	C67.5	Malignant neoplasm of bladder neck
	C67.6	Malignant neoplasm of ureteric orifice
	C67.7	Malignant neoplasm of urachus
	C67.8	Malignant neoplasm of overlapping sites of bladder
	C67.9	Malignant neoplasm of bladder, unspecified
Procedure	0DTN0ZZ	Resection of sigmoid colon, open approach
	0DTP0ZZ	Resection of rectum, open approach
	OTBB0ZZ	Excision of bladder, open approach
	OTBB3ZZ	Excision of bladder, percutaneous approach
	OTBB4ZZ	Excision of bladder, percutaneous endoscopic approach
	OTTB0ZZ	Resection of bladder, open approach
	OTTB4ZZ	Resection of bladder, percutaneous endoscopic approach
	OTTB7ZZ	Resection of bladder, via natural or artificial open
	OTTB8ZZ	Resection of bladder, via natural or artificial opening endoscopic
	0TTD0ZZ	Resection of urethra, open approach
	0TTD4ZZ	Resection of urethra, percutaneous endoscopic approach
	0TTD7ZZ	Resection of urethra, via natural or artificial opening
	0TTD8ZZ	Resection of urethra, via natural or artificial opening endoscopic
	0UT20ZZ	Resection of bilateral ovaries, open approach
	0UT70ZZ	Resection of bilateral fallopian tubes, open approach
	0UT90ZZ	Resection of uterus, open approach
	0UTC0ZZ	Resection of cervix, open approach
	0UTG0ZZ	Resection of vagina, open approach
	0VT00ZZ	Resection of prostate, open approach
	0VT04ZZ	Resection of prostate, percutaneous endoscopic approach
	0VT07ZZ	Resection of prostate, via natural or artificial opening
	0VT08ZZ	Resection of prostate, via natural or artificial opening endoscopic
	0VT30ZZ	Resection of bilateral seminal vesicles, open approach
	0VT34ZZ	Resection of bilateral seminal vesicles, percutaneous endoscopic approach

	8E0W0CZ	Robotic assisted procedure of trunk region, open approach
	8E0W4CZ	
Brain	8EUW4CZ	Robotic assisted procedure of trunk region, percutaneous endoscopic approach
	C71 0	Malignant nagalasm of carebrum except labor and ventricles
Diagnosis	C71.0	Malignant neoplasm of cerebrum, except lobes and ventricles
	C71.1	Malignant neoplasm of frontal lobe
	C71.2	Malignant neoplasm of temporal lobe
	C71.3	Malignant neoplasm of parietal lobe
	C71.4	Malignant neoplasm of occipital lobe
	C71.5	Malignant neoplasm of cerebral ventricle
	C71.6	Malignant neoplasm of cerebellum
	C71.7	Malignant neoplasm of brain stem
	C71.8	Malignant neoplasm of overlapping sites of brain
	C71.9	Malignant neoplasm of brain, unspecified
	C79.31	Secondary malignant neoplasm of brain
Procedure	00500ZZ	Destruction of brain, open approach
	00503ZZ	Destruction of brain, percutaneous approach
	00504ZZ	Destruction of brain, percutaneous endoscopic approach
	00B00ZX	Excision of brain, open approach, diagnostic
	00B00ZZ	Excision of brain, open approach
	00B04ZZ	Excision of brain, percutaneous endoscopic approach
	00B10ZX	Excision of cerebral meninges, open approach, diagnostic
	00B10ZZ	Excision of cerebral meninges, open approach
	00B20ZX	Excision of dura mater, open approach, diagnostic
	00B20ZZ	Excision of dura mater, open approach
	00B60ZX	Excision of cerebral ventricle, open approach, diagnostic
	00B60ZZ	Excision of cerebral ventricle, open approach
	00B70ZX	Excision of cerebral hemisphere, open approach, diagnostic
	00B70ZZ	Excision of cerebral hemisphere, open approach
	00B74ZZ	Excision of cerebral hemisphere, percutaneous endoscopic approach
	00BC0ZX	Excision of cerebellum, open approach, diagnostic
	00BC0ZZ	Excision of cerebellum, open approach
	00C70ZZ	Extirpation of matter from cerebral hemisphere, open approach
	00T70ZZ	Resection of cerebral hemisphere, open approach
	00T73ZZ	Resection of cerebral hemisphere, percutaneous approach
	00T74ZZ	Resection of cerebral hemisphere, percutaneous endoscopic approach
Breast		
Diagnosis	C50.011	Malignant neoplasm of nipple and areola, right female breast
	C50.012	Malignant neoplasm of nipple and areola, left female breast
	C50.019	Malignant neoplasm of nipple and areola, unspecified female breast
	C50.029	Malignant neoplasm of nipple and areola, unspecified male breast
	C50.111	Malignant neoplasm of central portion of right female breast
	C50.112	Malignant neoplasm of central portion of left female breast
	C50.119	Malignant neoplasm of central portion of unspecified female breast
	C50.129	Malignant neoplasm of central portion of unspecified male breast
	C50.211	Malignant neoplasm of upper-inner quadrant of right female breast
	C50.212	Malignant neoplasm of upper-inner quadrant of left female breast
	C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast

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	C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast
	C50.311	Malignant neoplasm of lower-inner quadrant of right female breast
	C50.312	Malignant neoplasm of lower-inner quadrant of left female breast
	C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast
	C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast
	C50.411	Malignant neoplasm of upper-outer quadrant of right female breast
	C50.412	Malignant neoplasm of upper-outer quadrant of left female breast
	C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast
	C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast
	C50.511	Malignant neoplasm of lower-outer quadrant of right female breast
	C50.512	Malignant neoplasm of lower-outer quadrant of left female breast
	C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast
	C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast
	C50.611	Malignant neoplasm of axillary tail of right female breast
	C50.612	Malignant neoplasm of axillary tail of left female breast
	C50.619	Malignant neoplasm of axillary tail of unspecified female breast
	C50.629	Malignant neoplasm of axillary tail of unspecified male breast
	C50.811	Malignant neoplasm of overlapping sites of right female breast
	C50.812	Malignant neoplasm of overlapping sites of left female breast
	C50.819	Malignant neoplasm of overlapping sites of unspecified female breast
	C50.829	Malignant neoplasm of overlapping sites of unspecified male breast
	C50.911	Malignant neoplasm of unspecified site of right female breast
	C50.912	Malignant neoplasm of unspecified site of left female breast
	C50.919	Malignant neoplasm of unspecified site of unspecified female breast
	C50.921	Malignant neoplasm of unspecified site of right male breast
	C50.929	Malignant neoplasm of unspecified site of unspecified male breast
	D05.00	Lobular carcinoma in situ of unspecified breast
	D05.01	Lobular carcinoma in situ of right breast
	D05.02	Lobular carcinoma in situ of left breast
	D05.10	Intraductal carcinoma in situ of unspecified breast
	D05.11	Intraductal carcinoma in situ of right breast
	D05.12	Intraductal carcinoma in situ of left breast
	D05.80	Other specified type of carcinoma in situ of unspecified breast
	D05.81	Other specified type of carcinoma in situ of right breast
	D05.82	Other specified type of carcinoma in situ of left breast
	D05.90	Unspecified type of carcinoma in situ of unspecified breast
	D05.91	Unspecified type of carcinoma in situ of right breast
	D05.92	Unspecified type of carcinoma in situ of left breast
Procedure	07T50ZZ	Resection of right axillary lymphatic, open approach
(ICD-10)	07T60ZZ	Resection of left axillary lymphatic, open approach
	07T70ZZ	Resection of thorax lymphatic, via natural or artificial opening
	07T80ZZ	Resection of right internal mammary lymphatic, open approach
	07T90ZZ	Resection of left internal mammary lymphatic, open approach
	0H5T0ZZ	Destruction of right breast, open approach
	0H5T3ZZ	Destruction of right breast, percutaneous approach
	0H5T7ZZ	Destruction of right breast, via natural or artificial opening
	0H5T8ZZ	Destruction of right breast, via natural or artificial opening endoscopic
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	0H5TXZZ	Destruction of right breast, external approach
	0H5U0ZZ	Destruction of left breast, open approach
	0H5U3ZZ	Destruction of left breast, percutaneous approach
	0H5U7ZZ	Destruction of left breast, via natural or artificial opening
	0H5U8ZZ	Destruction of left breast, via natural or artificial opening endoscopic
	0H5UXZZ	Destruction of left breast, external approach
	0H5V0ZZ	Destruction of bilateral breast, open approach
	0H5V3ZZ	Destruction of bilateral breast, percutaneous approach
	0H5V7ZZ	Destruction of bilateral breast, via natural or artificial opening
	0H5V8ZZ	Destruction of bilateral breast, via natural or artificial opening endoscopic
	0H5VXZZ	Destruction of bilateral breast, external approach
	OHBT0ZZ	Excision of right breast, open approach
	OHBT3ZZ	Excision of right breast, percutaneous approach
	OHBT7ZZ	Excision of right breast, via natural or artificial opening
	OHBT8ZZ	Excision of right breast, via natural or artificial opening endoscopic
	OHBTXZZ	Excision of right breast, external approach
	0HBU0ZZ	Excision of left breast, open approach
	0HBU3ZZ	Excision of left breast, percutaneous approach
	0HBU7ZZ	Excision of left breast, via natural or artificial opening
	0HBU8ZZ	Excision of left breast, via natural or artificial opening endoscopic
	OHBUXZZ	Excision of left breast, external approach
	OHBVOZZ	Excision of bilateral breast, open approach
	OHBV3ZZ	Excision of bilateral breast, open approach
	OHBV7ZZ	Excision of bilateral breast, via natural or artificial opening
	OHBV7ZZ OHBV8ZZ	Excision of bilateral breast, via natural or artificial opening endoscopic
	OHBVXZZ	Excision of bilateral breast, wa natural of artificial opening endoscopic  Excision of bilateral breast, external approach
	OHTTOZZ	Resection of right breast, open approach
	OHTUOZZ	
		Resection of left breast, open approach
	OHTVOZZ	Resection of bilateral breast, open approach
	OKTHOZZ	Resection of right thorax muscle, open approach
	0KTJ0ZZ	Resection of left thorax muscle, open approach
Procedure	19303	Simple mastectomy
(CPT)	19304	Subcutaneous mastectomy
	19305	Radical mastectomy
	19306	Radical mastectomy
	19307	Modified radical mastectomy
	19301	Partial mastectomy
	19302	Partial mastectomy with ALND
	19125	Needle-loc excision
Colon		
Diagnosis	C18.0	Malignant neoplasm of cecum
	C18.1	Malignant neoplasm of ascending colon
	C18.2	Malignant neoplasm of ascending colon
	C18.3	Malignant neoplasm of hepatic flexure
	C18.4	Malignant neoplasm of transverse colon
	C18.5	Malignant neoplasm of splenic flexure
	C18.6	Malignant neoplasm of descending colon

C18.7 C18.8 C18.9 Malignant neoplasm of overlapping sites of colon C18.9 D01.0 Carcinoma in situ of colon Procedure  ODBEOZZ ODBE3ZZ ODBE4ZZ ODBE4ZZ ODBE7ZZ Excision of large intestine, open approach ODBE7ZZ Excision of large intestine, via opening ODBE8ZZ ODBE7ZZ Excision of large intestine, via natural or artificial opening endoscopic Excision of right large intestine, percutaneous endoscopic approach ODBF6ZZ ODBF6ZZ Excision of right large intestine, via natural or artificial opening endoscopic ODBF6ZZ Excision of right large intestine, open approach ODBF6ZZ Excision of right large intestine, via natural or artificial opening endoscopic ODBF6ZZ Excision of right large intestine, open approach ODBG6ZZ Excision of left large intestine, open approach ODBG7Z Excision of left large intestine, open approach ODBH0ZZ Excision of cecum, open approach, diagnostic ODBH0ZZ Excision of cecum, open approach Excision of cecum, open approach Excision of ascending colon, open approach ODBK6ZZ Excision of ascending colon, open approach Excision of transverse colon, open approach Excision of transverse colon, open approach Excision of transverse colon, open approach, diagnostic Excision of transverse colon, open approach Excision of transverse colon, open approach, diagnostic Excision of transverse colon, open approach Excision of transverse colon, open approach, diagnostic Excision of transverse colon, open approach, diagnostic	
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ODBL8ZZ Excision of transverse colon, via natural or artificial opening endoscopic	
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ODBMOZX Excision of descending colon, open approach, diagnostic	
ODBMOZZ Excision of descending colon, open approach	
ODBM4ZZ Excision of descending colon, percutaneous endoscopic approach	
ODBM8ZZ Excision of descending colon, via natural or artificial opening endoscopic	
ODBNOZX Excision of sigmoid colon, open approach, diagnostic	
ODBNOZZ Excision of sigmoid colon, open approach	
ODBN4ZZ Excision of sigmoid colon, percutaneous endoscopic approach	
ODBN8ZZ Excision of sigmoid colon, via natural or artificial opening endoscopic	
0DNH4ZZ Release cecum, percutaneous endoscopic approach	
ODTCOZZ Resection of ileocecal valve, open approach	
ODTC4ZZ Resection of ileocecal valve, percutaneous endoscopic approach	
ODTC7ZZ Resection of ileocecal valve, via natural or artificial opening	
ODTC8ZZ Resection of ileocecal valve, via natural or artificial opening endoscopic	
ODTEOZZ Resection of large intestine, open approach	
ODTE4ZZ Resection of large intestine, percutaneous endoscopic approach	
ODTE7ZZ Resection of large intestine, via natural or artificial opening	
ODTE8ZZ Resection of large intestine, via natural or artificial opening endoscopic	
ODTFOZZ Resection of right large intestine, open approach	
ODTF4ZZ Resection of right large intestine, percutaneous endoscopic approach	
ODTF7ZZ Resection of right large intestine, via natural or artificial opening	
ODTF8ZZ Resection of right large intestine, via natural or artificial opening endoscop	oic
ODTGOZZ Resection of left large intestine, open approach	
0DTG4ZZ Resection of left large intestine, percutaneous endoscopic approach	
ODTG7ZZ Resection of left large intestine, via natural or artificial opening	

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	0DTG8ZZ	Resection of left large intestine, via natural or artificial opening endoscopic
	0DTH0ZZ	Resection of cecum, open approach
	0DTH0ZZ	Resection of cecum, open approach
	0DTH4ZZ	Resection of cecum, percutaneous endoscopic approach
	0DTH4ZZ	Resection of cecum, percutaneous endoscopic approach
	0DTH7ZZ	Resection of cecum, via natural or artificial opening
	0DTH8ZZ	Resection of cecum via natural or artificial opening endoscopic
	0DTK0ZZ	Resection of ascending colon, open approach
	0DTK4ZZ	Resection of ascending colon, percutaneous endoscopic approach
	0DTL0ZZ	Resection of transverse colon, open approach
	0DTL4ZZ	Resection of transverse colon, percutaneous endoscopic approach
	0DTL7ZZ	Resection of transverse colon, via natural or artificial opening
	0DTL8ZZ	Resection of transverse colon, via natural or artificial opening endoscopic
	0DTM0ZZ	Resection of descending colon, open approach
	0DTM4ZZ	Resection of descending colon, percutaneous endoscopic approach
	0DTN0ZZ	Resection of sigmoid colon, open approach
	0DTN4ZZ	Resection of sigmoid colon, percutaneous endoscopic approach
	0DTN7ZZ	Resection of sigmoid colon, via natural or artificial opening
	0DTN8ZZ	Resection of sigmoid colon, via natural or artificial opening endoscopic
	8E0W0CZ	Robotic assisted procedure of trunk region, open approach
	8E0W4CZ	Robotic assisted procedure of trunk region, percutaneous endoscopic approach
Esophagus		
Diagnosis	C15.3	Malignant neoplasm of upper third of esophagus
	C15.4	Malignant neoplasm of middle third of esophagus
	C15.5	Malignant neoplasm of lower third of esophagus
	C15.8	Malignant neoplasm of overlapping sites of esophagus
	C15.9	Malignant neoplasm of esophagus, unspecified
	C16.0	Malignant neoplasm of cardia
	D00.1	Carcinoma in situ of esophagus
Procedure	0D15074	Bypass esophagus to cutaneous with autologous tissue substitute, open approach
	0D15076	Bypass esophagus to stomach with autologous substitute, open approach
	0D15079	Bypass esophagus to duodenum with autologous substitute, open approach
	0D1507A	Bypass esophagus to jejunum with autologous substitute, open approach
	0D1507B	Bypass esophagus to ileum with autologous substitute, open approach
	0D150J4	Bypass esophagus to cutaneous with synth substitute, open approach
	0D150J6	Bypass esophagus to stomach with synth substitute, open approach
	0D150J9	Bypass esophagus to duodenum with synth substitute, open approach
	0D150JA	Bypass esophagus to jejunum with synth substitute, open approach
	0D150JB	Bypass esophagus to ileum with synth substitute, open approach
	0D150K4	Bypass esophagus to cutaneous with nonautologous tissue substitute, open approach
	0D150K6	Bypass esophagus to stomach with nonautologous tissue substitute, open approach
	0D150K9	Bypass esophagus to duodenum with nonautologous tissue substitute, open approach
	0D150KA	Bypass esophagus to jejunum with nonautologous tissue substitute, open approach
	0D150KB	Bypass esophagus to ileum with nonautologous tissue substitute, open approach
	0D150Z4	Bypass esophagus to cutaneous, open approach
	0D150Z6	Bypass esophagus to stomach, open approach
	0D150Z9	Bypass esophagus to duodenum, open approach

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0D150ZA	Bypass esophagus to jejunum, open approach
0D150ZB	Bypass esophagus to ileum, open approach
0D153J4	Bypass esophagus to cutaneous with synth sub, percutaneous approach
0D15474	Bypass esophagus to cutaneous with autologous substitute, percutaneous endoscopic
0D15476	Bypass esophagus to stomach with autologous substitute, percutaneous endoscopic
0D15479	Bypass esophagus to duodenum with autologous substitute, percutaneous endoscopic
0D1547A	Bypass esophagus to jejunum with autologous substitute, percutaneous endoscopic
0D1547B	Bypass esophagus to ileum with autologous substitute, percutaneous endoscopic
0D154J4	Bypass esophagus to cutaneous with synth sub, percutaneous endoscopic
0D154J6	Bypass esophagus to stomach with synth sub, percutaneous endoscopic
0D154J9	Bypass esophagus to duodenum with synth sub, percutaneous endoscopic
0D154JA	Bypass esophagus to jejunum with synth sub, percutaneous endoscopic
0D154JB	Bypass esophagus to ileum with synth sub, percutaneous endoscopic
0D154K4	Bypass esophagus to cutan with nonautologous substitute, percutaneous endoscopic
0D154K6	Bypass esophagus to stomach with nonautologous substitute, perc endo approach
0D154K9	Bypass esophagus to duodenum with nonaut sub, percutaneous endoscopic approach
0D154KA	Bypass esophagus to jejunum w nonaut sub, percutaneous endoscopic approach
0D154KB	Bypass esophagus to ileum with nonaut sub, percutaneous endoscopic approach
0D154Z4	Bypass esophagus to cutaneous, percutaneous endoscopic approach
0D154Z6	Bypass esophagus to stomach, percutaneous endoscopic approach
0D154Z9	Bypass esophagus to duodenum, percutaneous endoscopic approach
0D154ZA	Bypass esophagus to jejunum, percutaneous endoscopic approach
0D154ZB	Bypass esophagus to ileum, percutaneous endoscopic approach
0D15876	Bypass esophagus to stomach with autologous tissue substitute, endoscopic
0D15879	Bypass esophagus to duodenum with autologous tissue substitute, endoscopic
0D1587A	Bypass esophagus to jejunum with autologous tissue substitute, endoscopic
0D1587B	Bypass esophagus to ileum with autologous tissue substitute, endoscopic
0D158J6	Bypass esophagus to stomach with synthetic substitute
0D158J9	Bypass esophagus to duodenum with synthetic substitute
0D158JA	Bypass esophagus to jejunum with synthetic substitute
0D158JB	Bypass esophagus to ileum with synthetic substitute,
0D158K6	Bypass esophagus to stomach with nonautologous tissue substitute, endoscopic
0D158K9	Bypass esophagus to duodenum with nonautologous tissue substitute, endoscopic
0D158KA	Bypass esophagus to jejunum with nonautologous tissue substitute, endoscopic
0D158KB	Bypass esophagus to ileum with nonautologous tissue substitute, endoscopic
0D158Z6	Bypass esophagus to stomach, via natural or artificial opening endoscopic
0D158Z9	Bypass esophagus to duodenum, via natural or artificial opening endoscopic
0D158ZA	Bypass esophagus to jejunum, via natural or artificial opening endoscopic
0D158ZB	Bypass esophagus to ileum, via natural or artificial opening endoscopic
ODB10ZX	Excision of upper esophagus, open approach, diagnostic
ODB10ZZ	Excision of upper esophagus, open approach
ODB14ZZ	Excision of upper esophagus, percutaneous endoscopic approach
ODB18ZZ	Excision of upper esophagus, via natural or artificial opening endoscopic
ODB20ZX	Excision of middle esophagus, open approach, diagnostic
ODB20ZZ	Excision of middle esophagus, open approach
ODB24ZZ	Excision of middle esophagus, percutaneous endoscopic approach
ODB30ZZ	Excision of lower esophagus, open approach
 JUDGOLL	Licensian at the coopingso, open approach

	0DB34ZZ	Excision of lower esophagus, percutaneous endoscopic approach
	ODB38ZZ	Excision of lower esophagus, via natural or artificial opening endoscopic
	0DB40ZX	Excision of esophagogastric junction, open approach, diagnostic
	0DB40ZZ	Excision of esophagogastric junction, open approach
	0DB43ZZ	Excision of esophagogastric junction, percutaneous approach
	ODB44ZZ	Excision of esophagogastric junction, percutaneous endoscopic approach
	ODB47ZZ	Excision of esophagogastric junction, via natural or artificial opening
	ODB48ZZ	Excision of esophagogastric junction, via natural or artificial opening endoscopic
	ODB50ZZ	Excision of esophagus, open approach
	0DB50ZZ	Excision of esophagus, open approach
	0DB53ZZ	Excision of esophagus, percutaneous approach
	0DB53ZZ	Excision of esophagus, percutaneous approach
	0DB54ZZ	Excision of esophagus, percutaneous endoscopic approach
	ODB57ZZ	Excision of esophagus, via natural or artificial opening
	ODB57ZZ	Excision of esophagus, via natural or artificial opening
	ODB58ZZ	Excision of esophagus, via natural or artificial opening endoscopic
	ODT10ZZ	Resection of upper esophagus, open approach
	ODT14ZZ	Resection of upper esophagus, percutaneous endoscopic approach
	ODT20ZZ	Resection of middle esophagus, open approach
	ODT24ZZ	Resection of middle esophagus, percutaneous endoscopic approach
	ODT30ZZ	Resection of lower esophagus, open approach
	ODT34ZZ	Resection of lower esophagus, percutaneous endoscopic approach
	ODT34ZZ	Resection of lower esophagus, via natural or artificial opening endoscopic
	ODT38ZZ	Resection of esophagogastric junction, open approach
	0DT402Z 0DT44ZZ	Resection of esophagogastric junction, open approach
	ODT44ZZ	Resection of esophagogastric junction, via natural or artificial opening endoscopic
	0DT4822 0DT50ZZ	Resection of esophagus, open approach
	0DT502Z 0DT54ZZ	Resection of esophagus, percutaneous endoscopic approach
	0D13422 0DT57ZZ	Resection of esophagus, via natural or artificial opening
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	ODT58ZZ	Resection of esophagus, via natural or artificial opening endoscopic
	ODT60ZZ	Resection of stomach, open approach
	ODT64ZZ	Resection of stomach, percutaneous open approach
	ODT67ZZ	Resection of stomach, via natural or artificial opening
	ODT68ZZ	Resection of stomach, via natural or artificial opening endoscopic
	0DX60Z5	Transfer stomach to esophagus, open approach
	0DX64Z5	Transfer stomach to esophagus, percutaneous endoscopic approach
	0DX80Z5	Transfer small intestine to esophagus, open approach
	0DX84Z5	Transfer small intestine to esophagus, percutaneous endoscopic approach
	0DXE0Z5	Transfer large intestine to esophagus, open approach
	0DXE4Z5	Transfer large intestine to esophagus, percutaneous endoscopic approach
Liver		
Diagnosis	C22.0	Liver cell carcinoma
	C22.1	Intrahepatic bile duct carcinoma
	C22.2	Hepatoblastoma
	C22.3	Angiosarcoma of liver
	C22.4	Other sarcomas of liver
	C22.7	Other specified carcinomas of liver

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	C22.8	Malignant neoplasm of liver, primary, unspecified as to type
	C22.9	Malignant neoplasm of liver, not specified as primary or secondary
	C24.0	Malignant neoplasm of extrahepatic bile duct
	C24.1	Malignant neoplasm of ampulla of vater
	C24.8	Malignant neoplasm of overlapping sites of biliary tract
	C78.7	Secondary malignant neoplasm of liver and intrahepatic bile duct
	C7B.02	Secondary carcinoid tumors of liver
	C80.1	Malignant (primary) neoplasm, unspecified
	D01.5	Carcinoma in situ of liver, gallbladder and bile ducts
Procedure	0FB00ZX	Excision of liver, open approach, diagnostic
	0FB00ZZ	Excision of liver, open approach
	0FB03ZZ	Excision of liver, percutaneous approach
	0FB04ZZ	Excision of liver, percutaneous endoscopic approach
	0FB10ZX	Excision of right lobe liver, open approach, diagnostic
	0FB10ZZ	Excision of right lobe liver, open approach
	0FB14ZZ	Excision of right lobe liver, percutaneous endoscopic approach
	0FB20ZX	Excision of left lobe liver, open approach, diagnostic
	0FB20ZZ	Excision of left lobe liver, open approach
	0FB24ZZ	Excision of left lobe liver, percutaneous endoscopic approach
	0FT00ZZ	Resection of liver, open approach
	0FT10ZZ	Resection of right lobe liver, open approach
	0FT14ZZ	Resection of right lobe liver, percutaneous endoscopic approach
	0FT20ZZ	Resection of left lobe liver, open approach
	0FT24ZZ	Resection of left lobe liver, percutaneous endoscopic approach
Lung	0.12.22	The state of the
Diagnosis	C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung
	C34.11	Malignant neoplasm of upper lobe, right bronchus or lung
	C34.12	Malignant neoplasm of upper lobe, left bronchus or lung
	C34.2	Malignant neoplasm of middle lobe, bronchus or lung
	C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung
	C34.31	Malignant neoplasm of lower lobe, right bronchus or lung
	C34.32	Malignant neoplasm of lower lobe, left bronchus or lung
	C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung
	C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung
	C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung
	C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung
	C34.91	Malignant neoplasm of unspecified part of right bronchus or lung
	C34.91	Malignant neoplasm of unspecified part of left bronchus or lung
	D02.20	, ,
Procedure	01B30ZZ	Carcinoma in situ of unspecified bronchus and lung
Procedure		Excision of brachial plexus, open approach
	01BL0ZZ	Excision of thoracic sympathetic nerve, open approach
	OB5KOZZ	Destruction of right lung, open approach
	OB5K3ZZ	Destruction of right lung, percutaneous approach
	OB5K7ZZ	Destruction of right lung, via natural or artificial
	OB5LOZZ	Destruction of left lung, open approach
	OB5L3ZZ	Destruction of left lung, percutaneous approach
1	OB5L7ZZ	Destruction of left lung, via natural or artificial



0B5M0ZZ	Destruction of bilateral lungs, open approach
0B5M3ZZ	Destruction of bilateral lungs, percutaneous approach
0B5M7ZZ	Destruction of bilateral lungs, via natural or artificial opening
OBB38ZZ	Excision of right main bronchus, via natural or artificial opening endoscopic
OBB40ZZ	Excision of right upper lobe bronchus, open approach
OBB44ZZ	Excision of right upper lobe bronchus, percutaneous endoscopic approach
OBB64ZZ	Excision of right lower lobe bronchus, percutaneous endoscopic approach
OBB78ZZ	Excision of left main bronchus, via natural or artificial opening endoscopic
OBB80ZZ	Excision of left upper lobe bronchus, open approach
OBB84ZZ	Excision of left upper lobe bronchus, percutaneous endoscopic approach
OBBC0ZZ	Excision of right upper lung lobe, open approach
OBBC4ZZ	Excision of right upper lung lobe, percutaneous endoscopic approach
OBBD0ZZ	Excision of right middle lung lobe, open approach
OBBD4ZZ	Excision of right middle lung lobe, percutaneous endoscopic approach
OBBF0ZZ	Excision of right lower lung lobe, open approach
OBBF4ZZ	Excision of right lower lung lobe, percutaneous endoscopic approach
OBBG0ZZ	Excision of left upper lung lobe, open approach
OBBG4ZZ	Excision of left upper lung lobe, percutaneous endoscopic approach
OBBH4ZZ	Excision of lung lingula, percutaneous endoscopic approach
OBBJ0ZZ	Excision of left lower lung lobe, open approach
OBBJ4ZZ	Excision of left lower lung lobe, percutaneous endoscopic approach
OBBKOZZ	Excision of right lung, open approach
OBBK3ZZ	Excision of right lung, percutaneous approach
OBBK4ZZ	Excision of right lung, percutaneous endoscopic approach
OBBK7ZZ	Excision of right lung, via natural or artificial op
OBBLOZZ	Excision of left lung, open approach
OBBL3ZZ	Excision of left lung, percutaneous approach
OBBL4ZZ	Excision of left lung, percutaneous endoscopic approach
OBBL7ZZ	Excision of left lung, via natural or artificial opening
OBBMOZZ	Excision of bilateral lungs, open approach
OBBM3ZZ	Excision of bilateral lungs, percutaneous approach
OBBM7ZZ	Excision of bilateral lungs, via opening
OBT40ZZ	Resection of right upper lobe bronchus, open approach
OBT44ZZ	Resection of right upper lobe bronchus, percutaneous endoscopic approach
OBT54ZZ	Resection of right middle lobe bronchus, percutaneous endoscopic approach
OBT64ZZ	Resection of right lower lobe bronchus, percutaneous endoscopic approach
OBT84ZZ	Resection of left upper lobe bronchus, percutaneous endoscopic approach
OBTB4ZZ	Resection of left lower lobe bronchus, percutaneous endoscopic approach
OBTCOZZ	Resection of right upper lung lobe, open approach
OBTC0ZZ OBTC4ZZ	Resection of right upper lung lobe, open approach
OBTC4ZZ OBTD0ZZ	Resection of right middle lung lobe, open approach
OBTD02Z OBTD4ZZ	Resection of right middle lung lobe, percutaneous endoscopic approach
OBTE4ZZ OBTF0ZZ	Resection of right lower lung lobe, open approach
OBTF0ZZ OBTF4ZZ	Resection of right lower lung lobe, open approach
OBTG0ZZ	Resection of right lower lung lobe, percutaneous endoscopic approach
OBTG0ZZ OBTG4ZZ	
OBTG4ZZ OBTH0ZZ	Resection of left upper lung lobe, percutaneous endoscopic approach Resection of lung lingula, open approach
ODITIULL	nesection of funguia, open approach

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	OBTH4ZZ	Resection of lung lingula lobe, percutaneous endoscopic approach
	OBTH4ZZ	Resection of lung lingula, percutaneous endoscopic a
	OBTJ0ZZ	Resection of left lower lung lobe, open approach
	OBTJ4ZZ	Resection of left lower lung lobe, percutaneous endoscopic approach
	OBTK0ZZ	Resection of right lung, open approach
	OBTK4ZZ	Resection of right lung, percutaneous endoscopic app
	OBTLOZZ	Resection of left lung, open approach
	OBTL4ZZ	Resection of left lung, percutaneous endoscopic approach
	0BTM0ZZ	Resection of bilateral lungs, open approach
	OBTM4ZZ	Resection of bilateral lungs, percutaneous endoscopic approach
	OPB10ZZ	Excision of right rib, open approach
	OPB20ZZ	Excision of left rib, open approach
	8E0W4CZ	Robotic assisted procedure of trunk, percutaneous endoscopic approach
Pancreas		
Diagnosis	C25.0	Malignant neoplasm of head of pancreas
	C25.1	Malignant neoplasm of body of pancreas
	C25.2	Malignant neoplasm of tail of pancreas
	C25.3	Malignant neoplasm of pancreatic duct
	C25.4	Malignant neoplasm of endocrine pancreas
	C25.7	Malignant neoplasm of other parts of pancreas
	C25.8	Malignant neoplasm of overlapping sites of pancreas
	C25.9	Malignant neoplasm of pancreas, unspecified
Procedure	0D1607A	Bypass stomach to jejunum with autologous substitute, open approach
	0D160JA	Bypass stomach to jejunum with synth sub, open approach
	0D160KA	Bypass stomach to jejunum with nonautologous substitute, open approach
	0D160ZA	Bypass stomach to jejunum, open approach
	ODB90ZZ	Excision of duodenum, open approach
	ODB93ZZ	Excision of duodenum, percutaneous approach
	ODB94ZZ	Excision of duodenum, percutaneous endoscopic approach
	ODB97ZZ	Excision of duodenum, via natural or artificial open
	ODB98ZZ	Excision of duodenum, via natural or artificial opening endoscopic
	ODT90ZZ	Resection of duodenum, open approach
	ODT94ZZ	Resection of duodenum, percutaneous endoscopic approach
	ODT97ZZ	Resection of duodenum, via natural or artificial opening
	ODT98ZZ	Resection of duodenum, via natural or artificial opening endoscopic
	0F190Z3	Bypass common bile duct to duodenum, open approach
	0F1G0ZB	Bypass pancreas to small intestine, open approach
	0FB90ZZ	Excision of common bile duct, open approach
	0FBC8ZX	Excision of ampulla of vater, via natural or artificial opening endoscopic, diagnostic
	0FBG0ZX	Excision of pancreas, open approach, diagnostic
	0FBG0ZZ	Excision of pancreas, open approach
	0FBG3ZZ	Excision of pancreas, percutaneous approach
	0FBG4ZZ	Excision of pancreas, percutaneous endoscopic approach
	0FTG0ZZ	Resection of pancreas, open approach
	0FTG4ZZ	Resection of pancreas, percutaneous endoscopic approach
	8E0W0CZ	Robotic assisted procedure of trunk region, open approach
	8E0W4CZ	Robotic assisted procedure of trunk, percutaneous endoscopic approach
	OLUVV4CZ	Trobotic assisted procedure of trains, percutalieous endoscopic approach

Prostate		
Diagnosis	C61	Malignant neoplasm of prostate
J	D07.5	Carcinoma in situ of prostate
Procedure	OTTB0ZZ	Resection of bladder, open approach
	OTTB4ZZ	Resection of bladder, percutaneous endoscopic approach
	OTTB7ZZ	Resection of bladder, via natural or artificial open
	OTTB8ZZ	Resection of bladder, via natural or artificial opening endoscopic
	0TTD0ZZ	Resection of urethra, open approach
	0TTD4ZZ	Resection of urethra, percutaneous endoscopic approach
	0TTD7ZZ	Resection of urethra, via natural or artificial open
	0TTD8ZZ	Resection of urethra, via natural or artificial opening endoscopic
	0V508ZZ	Destruction of prostate, via natural or artificial opening endoscopic
	0VB00ZZ	Excision of prostate, open approach
	0VB04ZZ	Excision of prostate, percutaneous endoscopic approach
	0VB07ZZ	Excision of prostate, via natural or artificial opening
	0VB08ZZ	Excision of prostate, via natural or artificial opening endoscopic
	0VT00ZZ	Resection of prostate, open approach
	0VT04ZZ	Resection of prostate, percutaneous endoscopic approach
	0VT07ZZ	Resection of prostate, via natural or artificial opening
	0VT08ZZ	Resection of prostate, via natural or artificial opening endoscopic
	0VT30ZZ	Resection of bilateral seminal vesicles, open approach
	0VT34ZZ	Resection of bilateral seminal vesicles, percutaneous endoscopic approach
	8E0W0CZ	Robotic assisted procedure of trunk region, open approach
	8E0W4CZ	Robotic assisted procedure of trunk, percutaneous endoscopic approach
Rectum		, , , , , , , , , , , , , , , , , , ,
Diagnosis	C19	Malignant neoplasm of rectosigmoid junction
Ü	C20	Malignant neoplasm of rectum
	C21.8	Carcinoma in situ of rectum
	D01.2	Malignant neoplasm of overlapping sites of rectum, anus and anal canal
Procedure	0D1N0Z4	Bypass sigmoid colon to cutaneous, open approach
	0D1N4Z4	Bypass sigmoid colon to cutaneous, percutaneous endoscopic approach
	0DBP0ZX	Excision of rectum, open approach, diagnostic
	0DBP0ZZ	Excision of rectum, open approach
	ODBP4ZZ	Excision of rectum, percutaneous endoscopic approach
	ODBP7ZZ	Excision of rectum, via natural or artificial opening
	ODBP8ZX	Excision of rectum, via natural or artificial opening endoscopic, diagnostic
	ODBP8ZZ	Excision of rectum, via natural or artificial opening endoscopic
	0DTN0ZZ	Resection of sigmoid colon, open approach
	ODTN4ZZ	Resection of sigmoid colon, percutaneous endoscopic
	0DTP0ZZ	Resection of rectum, open approach
	ODTP4ZZ	Resection of rectum, percutaneous endoscopic approach
	ODTP7ZZ	Resection of rectum, via natural or artificial opening
	ODTP8ZZ	Resection of rectum, via natural or artificial opening endoscopic
	OTTBOZZ	Resection of bladder, open approach
	0TTD077	Resection of urethral open approach
	0TTD0ZZ 0UT20ZZ	Resection of urethra, open approach Resection of bilateral ovaries, open approach

	0UT90ZZ	Resection of uterus, open approach
	0UTC0ZZ	Resection of cervix, open approach
	0UTG0ZZ	Resection of vagina, open approach
	8E0W0CZ	Robotic assisted procedure of trunk region, open approach
	8E0W4CZ	Robotic assisted procedure of trunk, percutaneous endoscopic approach
Stomach		
Diagnosis	C16.0	Malignant neoplasm of cardia
	C16.1	Malignant neoplasm of fundus of stomach
	C16.2	Malignant neoplasm of body of stomach
	C16.3	Malignant neoplasm of pyloric antrum
	C16.4	Malignant neoplasm of pylorus
	C16.5	Malignant neoplasm of lesser curvature of stomach, unspecified
	C16.6	Malignant neoplasm of greater curvature of stomach, unspecified
	C16.8	Malignant neoplasm of overlapping sites of stomach
	C16.9	Malignant neoplasm of stomach, unspecified
	C7A.092	Malignant carcinoid tumor of the stomach
	D00.2	Carcinoma in situ of stomach
Procedure	0D13079	Bypass low esophagus to duodenum with autologous tissue substitute, open approach
roccaire	0D1307A	Bypass Low esophagus to jejunum with autologous tissue substitute, open approach
	0D1307B	Bypass Low esophagus to ileum with autologous tissue substitute, open approach
	0D160ZA	Bypass stomach to jejunum, open approach
	0D164ZA	Bypass stomach to jejunum, percutaneous endoscopic approach
	0D168ZA	Bypass Stomach to Jejunum, via natural or artificial opening endoscopic
	ODB40ZZ	Excision of esophagogastric junction, open approach
	ODB43ZZ	Excision of esophagogastric junction, percutaneous approach
	ODB43ZZ	Excision of esophagogastric junction, percutaneous endoscopic approach
	ODB47ZZ	Excision of esophagogastric junction, via natural or artificial opening
	ODB472Z ODB48ZZ	Excision of esophagogastric junction, via natural or artificial opening endoscopic
	ODB48ZZ ODB60ZZ	Excision of esophiagogastric junction, via natural of artificial opening endoscopic  Excision of stomach, open approach
	ODB63ZZ	Excision of stomach, percutaneous approach
	0DB0322 0DB64Z3	Excision of stomach, percutaneous approach  Excision of stomach, percutaneous endoscopic approach
	0DB0423 0DB64Z3	Excision of stomach, percutaneous endoscopic approach, vertical
	ODB04Z3	Excision of stomach, percutaneous endoscopic approach
	0DB0422 0DB67ZZ	Excision of stomach, via natural or artificial opening
	0DB6722 0DB68ZZ	· · · ·
	ODBOOZZ ODB70ZZ	Excision of stomach, via natural or artificial opening endoscopic
		Excision of stomach, pylorus, open approach
	ODB74ZZ	Excision of stomach, pylorus, percutaneous endoscopic approach
	ODB78ZX	Excision of stomach, pylorus, via natural or artificial opening endoscopic, diagnostic
	ODT40ZZ	Resection of esophagogastric junction, open approach
	ODT44ZZ	Resection of esophagogastric junction, percutaneous endoscopic approach
	0DT47ZZ	Resection of esophagogastric junction, via natural or artificial opening
	ODT48ZZ	Resection of esophagogastric junction, via natural or artificial opening endoscopic
	ODT60ZZ	Resection of stomach, open approach
	ODT64ZZ	Resection of stomach, percutaneous endoscopic approach
	ODT67ZZ	Resection of stomach, via natural or artificial opening
	ODT68ZZ	Resection of stomach, via natural or artificial opening endoscopic
	ODT70ZZ	Resection of stomach, pylorus, open approach



0DT74ZZ	Resection of stomach, pylorus, percutaneous endoscopic approach
0DT77ZZ	Resection of stomach, pylorus, via natural or artificial opening
0DT78ZZ	Resection of stomach, pylorus, via natural or artificial opening endoscopic
8E0W0CZ	Robotic assisted procedure of trunk region, open approach
8E0W4CZ	Robotic assisted procedure of trunk, percutaneous endoscopic approach