

## OP-10: ABDOMEN CT USE OF CONTRAST MATERIAL

### Description of Measure

This measure calculates the percentage of abdomen studies that are performed with and without contrast out of all abdomen studies performed (those with contrast, those without contrast, and those with both). The measure is calculated based on a one-year window of claims data.

*Technical Note: To reflect changes made to the CPT coding system, codes for combined abdomen/pelvis studies have been added to those contained within the numerator and denominator, beginning in July 2013, for claims data from 2011 and beyond.*

### Numerator Statement

The number of Abdomen CT studies with and without contrast (“combined studies”).

### Denominator Statement

The number of Abdomen CT studies performed (with contrast, without contrast, or both with and without contrast).

### Numerator Codes

#### CPT code

74170 Abdomen CT with and without Contrast Material  
74178 Abdomen and Pelvis CT with and without Contrast Material

### Denominator Codes

#### CPT codes

74150 Abdomen CT without Contrast Material  
74160 Abdomen CT with Contrast Material  
74170 Abdomen CT with and without Contrast Material  
74176 Abdomen and Pelvis CT without Contrast Material  
74177 Abdomen and Pelvis CT with Contrast Material  
74178 Abdomen and Pelvis CT with and without Contrast Material

### Denominator Exclusion Codes:

Indications for measure exclusion include any patients with the following procedures or diagnosis codes:

- Adrenal Mass:  
ICD-9 codes: 255.9 Unspecified disorder of adrenal glands; 194.xx Benign neoplasm of other endocrine glands and related structures; 227.xx Malignant neoplasm of other

endocrine glands and related structures; 237.xx Neoplasm of uncertain behavior of endocrine glands and nervous system

- Blunt Abdominal Trauma:

ICD-9 codes: 863 Injury to gastrointestinal tract; 864 Injury to liver; 865 Injury to spleen; 866 Injury to kidney; 867 Injury to pelvic organs; 868 Injury to other intra-abdominal organs; 869 Internal injury to unspecified or ill-defined organs; 902 Injury to blood vessels of abdomen and pelvis; 929 Crushing injury of multiple and unspecified sites

- Hematuria:

ICD-9 codes: 120.0 Schistosoma haematobium; 599.70 Hematuria, Unspecified; 599.71 Gross hematuria; 599.72 Microscopic hematuria

- Infections of Kidney:

ICD-9 codes: 590.1x Acute pyelonephritis; 590.8x Other pyelonephritis or pyonephrosis not specified as acute or chronic; 590.9 Infection of kidney, unspecified

- Jaundice

ICD-9 codes: 782.4 Jaundice, unspecified, not of newborn

- Liver Lesion (Mass or Neoplasm)

ICD-9 codes: 155; Malignant neoplasm of liver and intrahepatic bile ducts; 197.7 Malignant neoplasm of liver, secondary; 209.72 Secondary neuroendocrine tumor of liver; 211.5 Benign neoplasm of liver and biliary passages; 230.8 Carcinoma in situ of liver and biliary system; 235.3 Neoplasm of uncertain behavior of liver and biliary passages

- Malignant Neoplasm of Bladder

ICD-9 codes: 188 Malignant neoplasm of bladder; 233.7 Carcinoma in situ of bladder

- Malignant Neoplasm of Pancreas:

ICD-9 codes: 157.0 Head of Pancreas; 157.1 Body of Pancreas; 157.2 Tail of Pancreas; 157.3 Pancreatic Duct; 157.4 Islets of Langerhans; 157.8 Other specific sites of pancreas; 157.9 Pancreas, part unspecified; 189.0 Malignant Neoplasm of Kidney; 211.5 Benign neoplasm of liver and biliary passages; 211.6 Pancreas, except islets of Langerhans; 211.7 Islets of Langerhans; 223.0 Benign neoplasm of kidney except pelvis

- Diseases of Urinary System

ICD-9 codes: 599.0 Urinary tract infection, site not specified; 599.9 Unspecified disorder of urethra and urinary tract; 595 Cystitis; 597 Urethritis not sexually transmitted and urethral syndrome

- Pancreatic:

ICD-9 codes: 250.8x Diabetes with other specified manifestations; 251.0 Hypoglycemia with coma; 251.1 Other specified hypoglycemia; 251.2

Hypoglycemia, unspecified; 270.3 Disturbances of branched-chain amino-acid metabolism; 577.0 Acute pancreatitis; 577.1 Chronic pancreatitis

- Unspecified Disorder of Kidney and Ureter:

ICD-9 code: 593.9

**Technical Note:** *An exclusion diagnosis must be in one of the diagnoses fields on the CT abdomen claim. If the diagnosis code is a three-digit ICD-9 code, then all codes starting with the three digits are used in the measure calculation, that is, “all inclusive.” If the diagnosis code is specified as a four-digit ICD-9 code, then only the specific four-digit diagnosis code is used. If the diagnosis code is a five-digit code, the code used is either the specific five-digit diagnosis code if all five numeric digits are shown, or if the fifth digit is designated with an “x” then this is designating an “all inclusive” range to the fifth digit.*

## OP-10: ABDOMEN CT USE OF CONTRAST MATERIAL ICD-10 DRAFT SPECIFICATIONS

### Description of Measure

This measure calculates the percentage of abdomen studies that are performed with and without contrast out of all abdomen studies performed (those with contrast, those without contrast, and those with both). The measure is calculated based on a one-year window of claims data.

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Schistosomiasis due to Schistosoma haematobium [urinary schistosomiasis]

B65.0

Malignant neoplasm of liver and intrahepatic bile ducts

C22.0-C22.9

Malignant neoplasm of pancreas

C25.0-C25.9

Malignant neoplasm of kidney, except renal pelvis

C64.1-C64.9

Malignant neoplasm of bladder

C67.0-C67.9

Malignant neoplasm of adrenal gland

C74.00-C74.92

Malignant neoplasm of other endocrine glands and related structures

C75.0-C75.9

Secondary carcinoid tumors of liver

C7B.02

Secondary malignant neoplasm of liver and intrahepatic bile duct

C78.7

Carcinoma in situ of liver, gallbladder and bile ducts

D01.5

Carcinoma in situ of bladder

D09.0

Benign neoplasm of other and ill-defined parts of digestive system

D13.4-D13.7

Benign neoplasm of kidney

D30.00-D30.02

Benign neoplasm of other and unspecified endocrine glands

D35.00-D35.9

Neoplasm of uncertain behavior of liver, gallbladder and bile ducts

D37.6

Neoplasm of uncertain behavior of meninges

D42.0-D42.9

Neoplasm of uncertain behavior of brain and central nervous system

D43.0-D43.9

Neoplasm of uncertain behavior of endocrine glands

D44.0-D44.9

Other disorders of glucose regulation and pancreatic internal secretion

E08.641-E08.649, E09.641-E09.649, E10.641-E10.649, E11.641-E11.649,  
E13.641-E13.649, E15, E16.0-E16.2

Disorder of adrenal gland, unspecified

E27.9

Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism

E71.0-E71.2

Acute pancreatitis

K85.0-K85.9

Other diseases of pancreas

K86.0-K86.1

Renal tubulo-interstitial diseases

N10, N12, N15.9, N16

Other disorders of kidney and ureter

N28.9-N29

Cystitis

N30.00-N30.91

Urethritis and urethral syndrome

N34.0-N34.3

Urethral disorder, unspecified

N36.9

Other disorders of urinary system

N39.0, N39.9

Neurofibromatosis (nonmalignant)

Q85.00-Q85.09

Unspecified Jaundice

R17

Hematuria

R31.0-R31.9

Injuries to the abdomen, lower back, lumbar spine, pelvis and external genitals

S31.001\*, S31.011\*, S31.021\*, S31.031\*, S31.041\*, S31.051\*, S31.600\*-S31.659\*,  
S35.00X\*-S37.99X\*

Crushing injury of unspecified hip with thigh, initial encounter

S77.20X\*

**Technical Note:** An exclusion diagnosis must be in one of the diagnoses fields on the CT abdomen claim. Please note that an asterisk (\*) represents a wildcard for that digit.

**Technical Note:** The draft specifications included in this document represent a crosswalk of the ICD-9 specifications to ICD-10 specifications based on both a forward and backward crosswalk of the General Equivalence Mapping (GEM) file. The contractor made additional modifications to the ICD-10 specifications as a result of public comment and review by contractor clinicians and ICD-10 subject matter experts. Additional refinement of the ICD-10 specifications may occur as data comes available for testing.

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