

## **OP-14: SIMULTANEOUS USE OF BRAIN COMPUTED TOMOGRAPHY (CT) AND SINUS COMPUTED TOMOGRAPHY (CT)**

### **Description of Measure**

This measure calculates the percentage of Brain CT studies with a simultaneous Sinus CT (i.e., Brain and Sinus CT studies performed on the same day at the same facility).

### **Numerator Statement**

Of studies identified in the denominator, studies with a simultaneous Sinus CT study (i.e. on the same date, at the same facility as the Brain CT).

*Numerator Time Window: Same date as the imaging procedure counted in the denominator.*

### **Denominator Statement**

Brain CT studies

*Denominator Time Window: Any day within a one-year window of claims data.*

### **Numerator Codes**

- Brain CT:  
CPT Codes:  
70450 CT head or brain, without contrast material;  
70460 CT head or brain; with contrast material(s);  
70470 CT head or brain; without contrast material followed by contrast material(s) and further sections
- Sinus CT:  
CPT Codes:  
70486 CT maxillofacial area; without contrast material;  
70487 CT maxillofacial area; with contrast material(s)  
70488 CT maxillofacial area; without contrast material, followed by contrast material(s) and further sections

### **Denominator Codes**

- Brain CT:  
CPT Codes:  
70450 CT head or brain; without contrast material;  
70460 CT head or brain; with contrast material(s);  
70470 CT head or brain; without contrast material followed by contrast material(s) and further sections

## Denominator Exclusion Codes

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

- Neoplasms:  
ICD-9 codes: 140-239
- Trauma:  
ICD-9 codes: 800-839,850-854,860-869,905-909, 926.11, 926.12, 929, 952, 958-959
- Orbital Cellulitis:  
ICD-9 CM Code: 376.01
- Intracranial abscess:  
ICD-9-CM code: 324.0

**Technical Note:** An exclusion diagnosis must be in one of the diagnoses fields on the Brain CT 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-14: SIMULTANEOUS USE OF BRAIN COMPUTED TOMOGRAPHY (CT) AND  
SINUS COMPUTED TOMOGRAPHY (CT)  
ICD-10 DRAFT SPECIFICATIONS**

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Brain CT studies

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## **Denominator Exclusion Codes**

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

### Neoplasms

C00.0-C86.6, C88.2-C93.Z1, C93.9-C96.4, C96.A-C96.9, D00.00-D47.1, D47.3,  
D47.Z1-D49.9

### Intracranial abscess and granuloma

G06.0

### Cellulitis of orbit

H05.011-H05.019

### Polyp of stomach and duodenum

K31.7

### Polyp of colon

K63.5

### Disorder of the skin and subcutaneous tissue related to radiation, unspecified

L59.9

### Other spondylopathies

M48.40X\*-M48.58X\*

### Unspecified disorder of synovium and tendon, unspecified site

M67.90

### Osteoporosis with current pathological fracture

M80.00X\*-M80.88X\*

### Disorder of continuity of bone

M84.30X\*-M84.68X\*

### Subluxation complex (vertebral)

M99.10-M99.19

### Injuries to the head

S00.00X\*-S09.93X\*

Injuries to the neck

S10.0XX\*-S19.9XX\*

Injuries to the thorax

S20.00X\*-S29.9XX\*

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

S30.0XX\*-S32.811\*, S32.89X -S39.94X\*

Injuries to the shoulder and upper arm

S40.011\*-S49.92X\*

Injuries to the elbow and forearm

S50.00X\*-S59.919\*

Injuries to the wrist, hand and fingers

S60.00X\*-S69.92X\*

Injuries to the hip and thigh

S70.00X\*-S79.929\*

Injuries to the knee and lower leg

S80.00X\*-S89.92X\*

Injuries to the ankle and foot

S90.00X\*-S99.929\*

Injuries involving multiple body regions

T07

Injury of unspecified body region

T14.8-T14.90

Effects of foreign body entering through natural orifice

T15.00X\*- T19.9XX\*

Burns and corrosions of external body surface, specified by site

T20.00X\*- T25.799\*

Burns and corrosions confined to eye and internal organs

T26.00X\*-T28.99X\*

Frostbite

T33.011\*- T34.99X\*

Poisoning by, adverse effect of and underdosing of drugs, medicaments and biological substances

T36.0X1\*-T36.0X5\*, T36.1X1\*-T36.1X5\*, T36.2X1\*-T36.2X5\*, T36.3X1\*-T36.3X5\*,  
T36.4X1\*-T36.4X5\*, T36.5X1\*-T36.5X5\*, T36.6X1\*-T36.6X5\*, T36.7X1\*-T36.7X5\*,  
T36.8X1\*-T36.8X5\*, T36.91X\*-T36.95X\*, T37.0X1\*-T37.0X5\*, T37.1X1\*-T37.1X5\*,  
T37.2X1\*-T37.2X5\*, T37.3X1\*-T37.3X5\*, T37.4X1\*-T37.4X5\*, T37.5X1\*-T37.5X5\*,  
T37.8X1\*-T37.8X5\*, T37.91X\*-T37.95X\*, T38.0X1\*-T38.0X5\*, T38.1X1\*-T38.1X5\*,  
T38.2X1\*-T38.2X5\*, T38.3X1\*-T38.3X5\*, T38.4X1\*-T38.4X5\*, T38.5X1\*-T38.5X5\*,  
T38.6X1\*-T38.6X5\*, T38.7X1\*-T38.7X5\*, T38.801\*-T38.805\*, T38.811\*-T38.815\*,  
T38.891\*-T38.895\*, T38.901\*-T38.905\*, T38.991\*-T38.995\*, T39.011\*-T39.015\*,  
T39.091\*-T39.095\*, T39.1X1\*-T39.1X5\*, T39.2X1\*-T39.2X5\*, T39.311\*-T39.315\*,  
T39.391\*-T39.395\*, T39.4X1\*-T39.4X5\*, T39.8X1\*-T39.8X5\*, T39.91X\*-T39.95X\*,  
T40.0X1\*-T40.0X5\*, T40.1X1\*-T40.1X4\*, T40.2X1\*-T40.2X5\*, T40.3X1\*-T40.3X5\*,  
T40.4X1\*-T40.4X5\*, T40.5X1\*-T40.5X5\*, T40.601\*-T40.605\*, T40.691\*-T40.695\*,  
T40.7X1\*-T40.7X5\*, T40.8X1\*-T40.8X4\*, T40.901\*-T40.905\*, T40.991\*-T40.995\*,  
T41.0X1\*-T41.0X5\*, T41.1X1\*-T41.1X5\*, T41.201\*-T41.205\*, T41.291\*-T41.295\*,  
T41.3X1\*-T41.3X5\*, T41.41X\*-T41.45X\*, T41.5X1\*-T41.5X5\*, T42.0X1\*-T42.0X5\*,  
T42.1X1\*-T42.1X5\*, T42.2X1\*-T42.2X5\*, T42.3X1\*-T42.3X5\*, T42.4X1\*-T42.4X5\*,  
T42.5X1\*-T42.5X5\*, T42.6X1\*-T42.6X5\*, T42.71X\*-T42.75X\*, T42.8X1\*-T42.8X5\*,  
T43.011\*-T43.015\*, T43.021\*-T43.025\*, T43.1X1\*-T43.1X5\*, T43.201\*-T43.205\*,  
T43.211\*-T43.215\*, T43.221\*-T43.225\*, T43.291\*-T43.295\*, T43.3X1\*-T43.3X5\*,  
T43.4X1\*-T43.4X5\*, T43.501\*-T43.505\*, T43.591\*-T43.595\*, T43.601\*-T43.605\*,  
T43.611\*-T43.615\*, T43.621\*-T43.625\*, T43.631\*-T43.635\*, T43.691\*-T43.695\*,  
T43.8X1\*-T43.8X5\*, T43.91X\*-T43.95X\*, T44.0X1\*-T44.0X5\*, T44.1X1\*-T44.1X5\*,  
T44.2X1\*-T44.2X5\*, T44.3X1\*-T44.3X5\*, T44.4X1\*-T44.4X5\*, T44.5X1\*-T44.5X5\*,  
T44.6X1\*-T44.6X5\*, T44.7X1\*-T44.7X5\*, T44.8X1\*-T44.8X5\*, T44.901\*-T44.906\*,  
T44.991\*-T44.995\*, T45.0X1\*-T45.0X5\*, T45.1X1\*-T45.1X5\*, T45.2X1\*-T45.2X5\*,  
T45.3X1\*-T45.3X5\*, T45.4X1\*-T45.4X5\*, T45.511\*-T45.515\*, T45.521\*-T45.525\*,  
T45.601\*-T45.605\*, T45.611\*-T45.615\*, T45.621\*-T45.625\*, T45.691\*-T45.695\*,  
T45.7X1\*-T45.7X5\*, T45.8X1\*-T45.8X5\*, T45.91X\*-T45.95X\*, T46.0X1\*-T46.0X5\*,  
T46.1X1\*-T46.1X5\*, T46.2X1\*-T46.2X5\*, T46.3X1\*-T46.3X5\*, T46.4X1\*-T46.4X5\*,  
T46.5X1\*-T46.5X5\*, T46.6X1\*-T46.6X5\*, T46.7X1\*-T46.7X5\*, T46.8X1\*-T46.8X5\*,  
T46.901\*-T46.905\*, T46.991\*-T46.995\*, T47.0X1\*-T47.0X5\*, T47.1X1\*-T47.1X5\*,  
T47.2X1\*-T47.2X5\*, T47.3X1\*-T47.3X5\*, T47.4X1\*-T47.4X5\*, T47.5X1\*-T47.5X5\*,  
T47.6X1\*-T47.6X5\*, T47.7X1\*-T47.7X5\*, T47.8X1\*-T47.8X5\*, T47.91X\*-T47.95X\*,  
T48.0X1\*-T48.0X5\*, T48.1X1\*-T48.1X5\*, T48.201\*-T48.205\*, T48.291\*-T48.295\*,  
T48.3X1\*-T48.3X5\*, T48.4X1\*-T48.4X5\*, T48.5X1\*-T48.5X5\*, T48.6X1\*-T48.6X5\*,  
T48.901\*-T48.905\*, T48.991\*-T48.995\*, T49.0X1\*-T49.0X5\*, T49.1X1\*-T49.1X5\*,  
T49.2X1\*-T49.2X5\*, T49.3X1\*-T49.3X5\*, T49.4X1\*-T49.4X5\*, T49.5X1\*-T49.5X5\*,  
T49.6X1\*-T49.6X5\*, T49.7X1\*-T49.7X5\*, T49.8X1\*-T49.8X5\*, T49.91X\*-T49.95X\*,  
T50.0X1\*-T50.0X5\*, T50.1X1\*-T50.1X5\*, T50.2X1\*-T50.2X5\*, T50.3X1\*-T50.3X5\*,

*OP-14: Simultaneous Use of Brain Computed Tomography (CT)  
and Sinus Computed Tomography (CT)*

T50.4X1\*-T50.4X5\*, T50.5X1\*-T50.5X5\*, T50.6X1\*-T50.6X5\*, T50.7X1\*-T50.7X5\*,  
T50.8X1\*-T50.8X5\*, T50.901\*-T50.905\*, T50.991\*-T50.995\*, T50.A11\*-T50.A15\*,  
T50.A21\*-T50.A25\*, T50.A91\*-T50.A95\*, T50.B11\*-T50.B15\*, T50.B91\*-T50.B95\*,  
T50.Z11\*-T50.Z15\*, T50.Z91\*-T50.Z95\*, T50.OX1\*-T51.94X\*

Toxic effects of substances chiefly nonmedicinal as to source

T52.0X1\*- T65.94X\*

Other and unspecified effects of external causes

T66.XXX\*-T78.8XX\*

Certain early complications of trauma

T79.0XX\*-T79.9XX\*

Complications of surgical and medical care, not elsewhere classified

T80.0XX\*-T80.1XX\*, T80.29X\*-T80.92X\*, T81.30X\*-T81.9XX\*, T82.01X\*-T82.9XX\*,  
T83.010\*-T83.6XX\*, T83.81X\*-T83.99X\*, T84.010\*-T84.099\*, T84.110\*-T84.199\*,  
T84.210\*-T84.298\*, T84.310\*-T84.398\*, T84.410\*-T84.498\*, T84.50X\*-T84.59X\*,  
T84.60X\*-T84.69X\*, T84.7XX\*, T84.81X\*-T84.89X\*, T84.9XX\*, T85.01X\*-T85.9XX\*,  
T88.0XX\*-T88.9XX\*

Neurofibromatosis (nonmalignant)

Q85.00-Q85.09

**Technical Note:** An exclusion diagnosis must be in one of the diagnoses fields on the Brain CT 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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