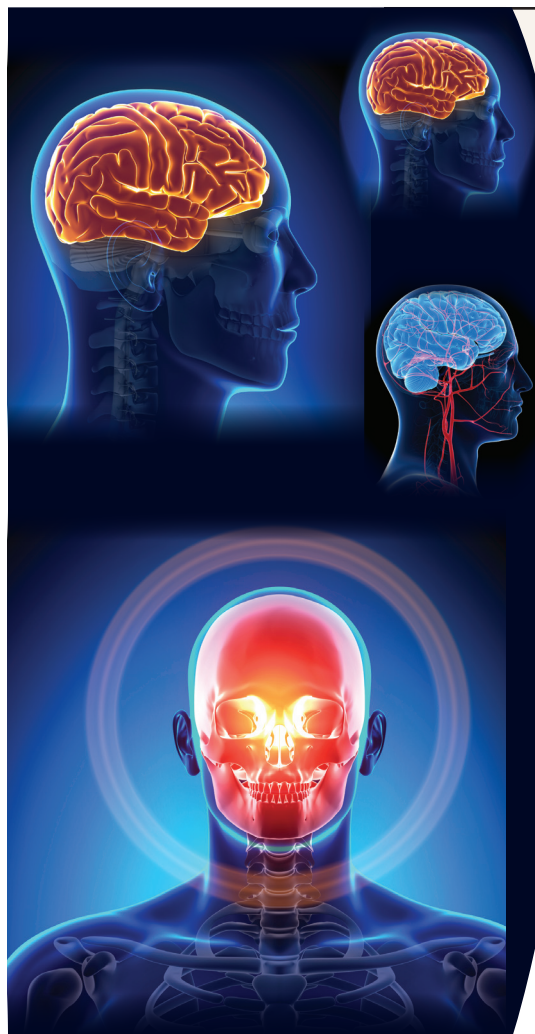


COMPUTED TOMOGRAPHY (CT) SCANS

Exam Reference / Protocol Guidelines

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AREA OF INTEREST HEAD



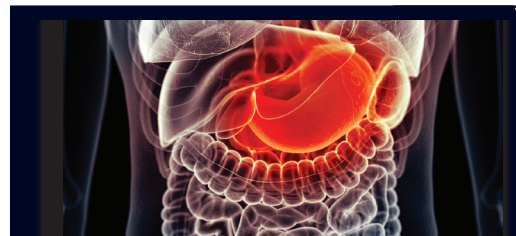

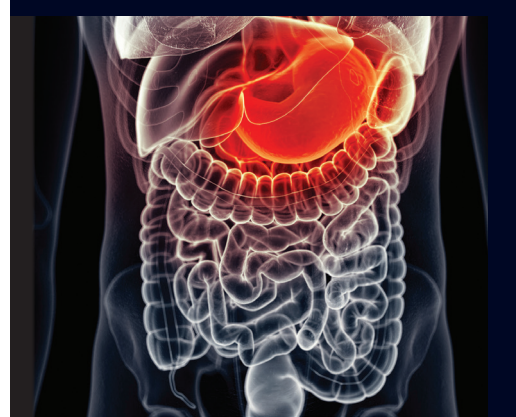

| AREA OF INTEREST | BODY PART EXAM | REASON FOR EXAM | ORAL CONTRAST | IV CONTRAST | PROCEDURES TO PRE-CERT | CODES |
|------------------|------------------|--|---------------|-------------|---------------------------|--------------|
| HEAD | BRAIN | Bleed, trauma, headaches | NO | NO | CT Brain without | 70450 |
| | | Mass, tumor, infection, melanoma, HIV, meningioma, mets staging | NO | YES | CT Brain with and without | 70470 |
| | CTA HEAD | Aneurysm | NO | YES | CTA Head | 70496 |
| | CTA NECK | Carotid Occlusion | NO | YES | CTA Neck | 70498 |
| | ORBITS | Trauma, fracture, foreign body | NO | NO | CT Orbits without | 70480 |
| | | Mass, abcess, pain, swelling, Graves disease, cellulitis | NO | YES | CT Orbits with | 70481 |
| | SINUS | Sinusitis, mass, pain, polyps, deviated septum, congestion, foreign body | NO | NO | CT Sinus without | 70486 |
| | FACE | Trauma, fracture | NO | NO | CT Maxillofacial | 70486 |
| | TEMPORAL BONES | Cholestatoma, tinnitus, congenital hearing loss | NO | NO | CT Temporal Bones without | 70480 |
| | SOFT TISSUE NECK | Palpable neck mass, stone, neoplasm | NO | YES | CT Neck with and without | 70492 |
| | | Lymphoma, lymphadenopathy | NO | YES | CT Neck with and without | 70492 |
| | | Parotid swelling, vocal chord paralysis | NO | NO | CT Neck without | 70490 |

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AREA OF INTEREST ABDOMEN

| AREA OF INTEREST ABDOMEN | BODY PART EXAM | REASON FOR EXAM | ORAL CONTRAST | IV CONTRAST | PROCEDURES TO PRE-CERT | CODES |
|---|--|---|---|-------------|--|----------------------------------|
|     | ABDOMEN: <i>from lung base to iliac crest</i> | Pain | YES | NO | CT Abdomen Pelvis without | 74176 |
| | PELVIS: <i>from iliac crest to pubis</i> | Pain, fracture, arthritis, mets, bone lesion | NO | NO | CT Pelvis without | 72192 |
| | | Soft tissue mass, tumor, abscess, infection, cellulitis | YES | YES | CT Pelvis with | 72193 |
| | ABDOMEN AND PELVIS GENERAL: <i>from lung base to pubis</i> | Mass, hernia, diverticulitis, appendicitis, restaging CA, nausea, vomiting | YES | YES | CT Pelvis with and without | 74178 |
| | ABDOMEN/ PELVIS: <i>Enterography</i> | Crohn's disease, small bowel obstruction | YES <i>Arrive 1 hour prior to appt. time, patient must drink oral contrast in the office</i> | YES | 35 years of age or older: CT Abdomen with and without Pelvis with 35 years of age or younger: CT Abdomen and Pelvis with only | 74178 74176 |
| | LIVER | Increase LFTs, RUQ pain, jaundice, liver cancer, cirrhosis, hepatoma, hemangioma, hepatitis | YES | YES | CT Abdomen with and without CT Pelvis with | 74178 |

COMPUTED TOMOGRAPHY (CT) SCANS

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AREA OF INTEREST

RENAL



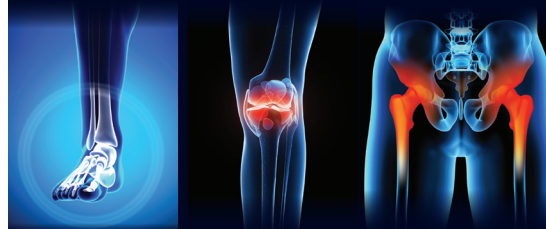
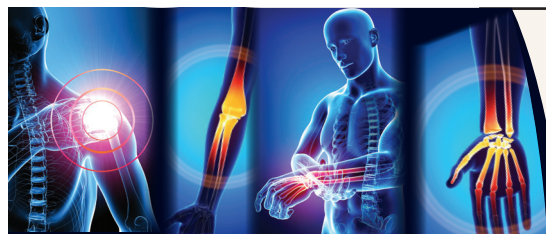
| BODY PART EXAM | REASON FOR EXAM | ORAL CONTRAST | IV CONTRAST | PROCEDURES TO PRE-CERT | CODES |
|------------------------|--|---------------|-------------|--|--------------|
| RENAL | Renal stone | NO | NO | CT Abdomen without Pelvis without | 74176 |
| | Mass | NO | YES | CT Abdomen with and without CT Pelvis with | 74178 |
| URINARY SYSTEM | Hematuria | NO | YES | CT Abdomen with and without CT Pelvis with and without | 74178 |
| WITH 3D | | | | | 76377 |
| CTA ABDOMEN | AAA, renal artery stenosis, dissection, hypertension | NO | YES | CTA Abdomen | 74175 |
| CTA ABDOMEN AND PELVIS | AAA, renal artery stenosis, dissection, hypertension | NO | YES | CTA Abdomen and Pelvis | 74174 |
| CTA RUNOFF | (PAD) Peripheral Artery Disease | NO | YES | CTA Abdomen Aorta Runoff | 75635 |
| CHEST | Nodule, opacities seen | NO | NO | CT Chest without | 71250 |
| | Hilar adenopathy, lung cancer | NO | YES | CT Chest with | 71260 |
| CTA CHEST | Pulmonary embolism Aneurysm | NO | YES | CTA Chest | 71275 |
| HIGH RESOLUTION | Interstitial lung disease | NO | NO | CT Chest high resolution without | 70490 |

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AREA OF INTEREST EXTREMITIES



| AREA OF INTEREST | BODY PART EXAM | REASON FOR EXAM | ORAL CONTRAST | IV CONTRAST | PROCEDURES TO PRE-CERT | CODES |
|---|----------------|--|---------------|-------------|-------------------------------------|--------------|
| UPPER EXTREMITIES: <i>hand, wrist, elbow, forearm, humerus, shoulder</i> | | Pain, arthritis, fracture, fusion, malunion | NO | NO | CT Upper Extremity without contrast | 73200 |
| | | Infection, tumor, mass, cancer, mets (MRI is more sensitive) | NO | YES | CT Upper Extremity with contrast | 73201 |
| LOWER EXTREMITIES: <i>foot, ankle, knee, hip, tibia, fibula, femur</i> | | Pain, arthritis, fracture, fusion, malunion | NO | NO | CT Lower Extremity without contrast | 73700 |
| | | Infection, tumor, mass, cancer, mets (MRI is more sensitive) | NO | YES | CT Lower Extremity with contrast | 73701 |
| CERVICAL SPINE | | Immediate Post-op | NO | YES | CT Cervical Spine with | 72126 |
| | | Neck pain, fracture, eval hardware | NO | NO | CT Cervical Spine without | 72125 |
| THORACIC SPINE | | Immediate Post-op | NO | YES | CT Thoracic Spine with | 72129 |
| | | Pain, fracture, eval hardware | NO | NO | CT Thoracic Spine without | 72128 |
| LUMBAR SPINE | | Immediate Post-op | NO | YES | CT Lumbar Spine with | 72132 |
| | | Pain, fracture, eval hardware | NO | NO | CT Lumbar Spine without | 72131 |



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COMPUTED TOMOGRAPHY (CT) SCANS Exam Reference / Protocol Guidelines

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Reducing the Risk of Contrast Induced Nephrotoxicity

Some patients receiving intravenous contrast require bloodwork prior to contrast injection

THE FOLLOWING PATIENTS SHOULD HAVE A RECENT EGFR (Estimated Glomular Filtration Rate):

- Age 70 or older
- History of renal disease - (*note - kidney stones/renal cysts do not require eGFR)
 - Dialysis
 - Kidney surgery
 - Kidney transplant
 - Kidney cancer
 - Single kidney
- History of hypertension requiring medical therapy (patients on high blood pressure medication)
- History of diabetes mellitus (including patients on metformin)

ACCEPTABLE BLOOD WORK GUIDELINES:

- eGFR should be within 90 days of imaging
- eGFR should be within 30 days if the patient had a recent hospitalization

DOSING GUIDELINES:

- **eGFR > 45** - Technologists can proceed with the contrast injection
- **eGFR is between 30-44** - Radiologist approval is needed prior to injection. Clinical judgement required and oral and/or IV hydration should be considered if patient can tolerate it.
- **eGFR < 30** - Radiologist should speak with the ordering clinician for clearance before proceeding with contrast injection or if alternative tests may be useful for diagnosis

DIALYSIS GUIDELINES:

Defer to Nephrologist for course of treatment