

Cigna Medical Coverage Policies – Radiology Musculoskeletal Imaging Guidelines

Effective February 01, 2024



Instructions for use

The following coverage policy applies to health benefit plans administered by Cigna. Coverage policies are intended to provide guidance in interpreting certain standard Cigna benefit plans and are used by medical directors and other health care professionals in making medical necessity and other coverage determinations. Please note the terms of a customer's particular benefit plan document may differ significantly from the standard benefit plans upon which these coverage policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a coverage policy.

In the event of a conflict, a customer's benefit plan document always supersedes the information in the coverage policy. In the absence of federal or state coverage mandates, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of:

1. The terms of the applicable benefit plan document in effect on the date of service
2. Any applicable laws and regulations
3. Any relevant collateral source materials including coverage policies
4. The specific facts of the particular situation

Coverage policies relate exclusively to the administration of health benefit plans. Coverage policies are not recommendations for treatment and should never be used as treatment guidelines.

This evidence-based medical coverage policy has been developed by eviCore, Inc. Some information in this coverage policy may not apply to all benefit plans administered by Cigna.

These guidelines include procedures eviCore does not review for Cigna. Please refer to the [Cigna CPT code list](#) for the current list of high-tech imaging procedures that eviCore reviews for Cigna.

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Procedure Codes Associated with Musculoskeletal Imaging	
MRI/MRA	CPT®
MRI Upper Extremity, other than joint, without contrast	73218
MRI Upper Extremity, other than joint, with contrast	73219
MRI Upper Extremity, other than joint, without and with contrast	73220
MRI Upper Extremity, any joint, without contrast	73221
MRI Upper Extremity, any joint, with contrast	73222
MRI Upper Extremity, any joint, without and with contrast	73223
MR Angiography Upper Extremity without or with contrast	73225
MRI Lower Extremity, other than joint, without contrast	73718
MRI Lower Extremity, other than joint, with contrast	73719
MRI Lower Extremity, other than joint, without and with contrast	73720
MRI Lower Extremity, any joint, without contrast	73721
MRI Lower Extremity, any joint, with contrast	73722
MRI Lower Extremity, any joint, without and with contrast	73723
MR Angiography Lower Extremity without or with contrast	73725
MRI Pelvis without contrast	72195
MRI Pelvis with contrast	72196
MRI Pelvis without and with contrast	72197
CT/CTA	CPT®
CT Upper Extremity without contrast	73200
CT Upper Extremity with contrast	73201
CT Upper Extremity without and with contrast	73202
CT Angiography Upper Extremity without and with contrast	73206
CT Lower Extremity without contrast	73700
CT Lower Extremity with contrast	73701
CT Lower Extremity without and with contrast	73702
CT Angiography Lower Extremity without and with contrast	73706
CT Pelvis without contrast	72192
CT Pelvis with contrast	72193
CT Pelvis without and with contrast	72194
Bone Mineral Density CT, one or more sites, axial skeleton	77078
Ultrasound	CPT®
Ultrasound, complete joint (ie, joint space and peri-articular soft tissue structures) real-time with image documentation	76881
Ultrasound, limited, joint or other nonvascular extremity structure(s) (e.g., joint space, peri-articular tendon[s], muscle[s], nerve[s], other soft tissue structure[s], or soft tissue mass[es]), real-time with image documentation	76882
Ultrasound, pelvic (nonobstetric), real time with image documentation	76857

General Guidelines (MS-1)

- Before advanced diagnostic imaging can be considered, there must be an in-person clinical evaluation as well as a clinical re-evaluation after a trial of failed conservative treatment; the clinical re-evaluation may consist of an in-person evaluation or other meaningful contact with the provider's office such as email, web or telephone communications.
- An in-person clinical evaluation for the current episode of the condition is required to have been performed before advanced imaging can be considered. This may have been either the initial clinical evaluation or the clinical re-evaluation.
- The in-person clinical evaluation should include a relevant history and physical examination, appropriate laboratory studies, and non-advanced imaging modalities. Other forms of meaningful contact (e.g., telephone call, electronic mail, telemedicine, or messaging) are not acceptable as an in-person evaluation.
- Prior to advanced imaging consideration, the results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider of the advanced imaging study for all musculoskeletal conditions, unless otherwise noted in the guidelines.
 - ◆ Initial plain x-ray can rule out those situations that do not often require advanced imaging, such as osteoarthritis, acute/healing fracture, dislocation, osteomyelitis, acquired/congenital deformities, and tumors of bone amenable to biopsy or radiation therapy (in known metastatic disease), etc.
 - ◆ X-ray may provide complementary clinical information regarding detailed bony anatomy, and may assist with preoperative planning when surgery is being contemplated.
 - ◆ X-ray may provide clinically significant details for soft tissue masses, such as soft tissue calcification, presence or absence of phleboliths, radiographic density, and effect on adjacent bone.
 - ◆ X-ray often has a larger field of view than MRI or CT and has the potential to identify more proximal or distal pathology in an extremity.
- Clinical re-evaluation is required prior to consideration of advanced diagnostic imaging to document failure of significant clinical improvement following a recent (within 3 months) six week trial of provider-directed conservative treatment. Clinical re-evaluation can include documentation of an in-person encounter or documentation of other meaningful contact with the requesting provider's office by the individual (e.g. telephone call, electronic mail, telemedicine, or messaging).
- Provider-directed conservative treatment may include rest, ice, compression, and elevation (R.I.C.E.), non-steroidal anti-inflammatories (NSAIDs), narcotic and non-narcotic analgesic medications, oral or injectable corticosteroids, viscosupplementation injections, a provider-directed home exercise program, cross-training, and/or physical/occupational therapy or immobilization by splinting/casting/bracing.
- Orthopedic specialist evaluation can be helpful in determining the need for advanced imaging.

- ◆ The need for repeat advanced imaging should be carefully considered and may not be indicated if prior imaging has been performed.
- ◆ Serial advanced imaging, whether CT or MRI, for surveillance of healing or recovery from musculoskeletal disease is not supported by the medical evidence in the majority of musculoskeletal conditions.

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Plain X-Ray (MS-2.1)

- The results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider of the advanced imaging study for all musculoskeletal conditions, unless otherwise noted in the guidelines, to rule out those situations that do not often require advanced imaging, such as: osteoarthritis, acute/healing fracture, dislocation, osteomyelitis, acquired/congenital deformities, and tumors of bone amenable to biopsy or radiation therapy (in known metastatic disease), etc.

MRI or CT (MS-2.2)

- Magnetic Resonance Imaging (MRI) is often the preferred advanced imaging modality in musculoskeletal conditions because it is superior in imaging the soft tissues and can also define physiological processes in some instances [e.g. edema, loss of circulation (AVN), and increased vascularity (tumors)].
- Computed Tomography (CT) is preferred for imaging cortical bone anatomy; thus, it is useful for studying complex fractures (particularly of the joints), dislocations, and assessing delayed union or non-union of fractures, if plain x-rays are equivocal. CT may be the procedure of choice in individuals who cannot undergo an MRI, such as those with pacemakers.

Positional MRI

- Positional MRI is also referred to as dynamic, standing, weight-bearing, or kinetic MRI. Currently, there is inadequate scientific evidence to support the medical necessity of this study. As such, it should be considered experimental or investigational.

Positional CT

- Positional CT, also referred to as weight-bearing or cone beam CT, may be useful in imaging of the foot and ankle.
 - ◆ If a request for foot or ankle imaging with positional CT meets medical necessity criteria for standard CT imaging (as defined in the condition-specific guidelines), the request may be approved.
 - Positional CT of anatomic areas other than the foot and ankle are considered experimental or investigational.

dGEMRIC Evaluation of Cartilage

- Delayed gadolinium enhanced Magnetic Resonance Imaging of Cartilage (dGEMRIC) is a technique where an MRI estimates joint cartilage glycosaminoglycan content after penetration of the contrast agent in order to detect cartilage breakdown. Currently, there is inadequate scientific evidence to support the medical necessity of this study. As such, it should be considered experimental or investigational for the diagnosis and surveillance of, or preoperative planning related to chondral pathology.

Ultrasound (MS-2.3)

- Ultrasound (US) uses sound waves to produce images that can be used to evaluate a variety of musculoskeletal disorders. As with US in general, musculoskeletal US is highly operator-dependent, and proper training and experience are required to perform consistent, high quality evaluations.

Contrast Issues (MS-2.4)

- Most musculoskeletal imaging (MRI or CT) is without contrast; however, the following examples may be considered with contrast:
 - ◆ Tumors, osteomyelitis, and soft tissue infection (without and with contrast)
 - ◆ MRI arthrography (with contrast only)
 - ◆ MRI for rheumatoid arthritis and inflammatory arthritis (contrast as requested)
 - ◆ For individuals with a contrast contraindication, if the advanced imaging recommendation specifically includes contrast, the corresponding advanced imaging study without contrast may be approved as an alternative, although the non-contrast study may not provide an adequate evaluation of the condition of concern.

Positron Emission Tomography (PET) (MS-2.5)

- PET/CT is a nuclear medicine/computed tomography (CT) fusion study that uses a positron emitting radiotracer to create cross-sectional and volumetric images based on tissue metabolism. PET imaging fusion with CT allows for better anatomic localization of the areas of abnormal increased tissue activity seen on PET.
- PET/CT is indicated for imaging of certain musculoskeletal conditions when MRI or CT is equivocal or cannot be performed. See condition-specific guidelines for specific indications.
 - ◆ At this time, FDG is the only indicated radiotracer for use with PET/CT in the imaging of musculoskeletal conditions.

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3D Rendering (MS-3)

- Indications for musculoskeletal 3-D image post-processing for preoperative planning when conventional imaging is insufficient for:
 - ◆ Complex fractures (comminuted or displaced)/dislocations of any joint.
 - ◆ Spine fractures, pelvic/acetabulum fractures, intra-articular fractures.
 - ◆ Preoperative planning for other complex surgical cases.
- The code assignment for 3-D rendering depends upon whether the 3-D post-processing is performed on the scanner workstation (CPT® 76376) or on an independent workstation (CPT® 76377).
 - ◆ 2-D reconstruction (i.e. reformatting axial images into the coronal plane) is considered part of the tomography procedure, is not separately reportable, and does not meet the definition of 3-D rendering.
 - ◆ It is not appropriate to report 3-D rendering in conjunction with CTA and MRA because those procedure codes already include the post-processing.
 - ◆ In addition to the term “3-D,” the following terms may also be used to describe 3-D post-processing:
 - Maximum intensity projection (MIP)
 - Shaded surface rendering
 - Volume rendering
- Additionally - If multiple CPT codes are performed for the same indication on the same day, one 3D rendering code is required. If they are performed on separate days, 3D rendering codes are required for each study on each day.
- The 3-D rendering codes require concurrent supervision of image post-processing 3-D manipulation of volumetric data set and image rendering.

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Avascular Necrosis (AVN)/Osteonecrosis (MS-4)

- MRI without contrast, MRI without and with contrast, or CT without contrast of the area of interest can be performed when plain x-ray findings are non-confirmatory or equivocal and clinical symptoms warrant further investigation for suspected avascular necrosis.
- Advanced imaging for AVN confirmed by plain x-ray is appropriate for treatment planning in the following situations:
 - ◆ Femoral head:
 - MRI Hip without contrast (CPT® 73721) or CT Hip without contrast (CPT® 73700)
 - ◆ Distal Femur:
 - MRI Knee without contrast (CPT® 73721) or CT Knee without contrast (CPT® 73700)
 - ◆ Talus:
 - MRI Ankle without contrast (CPT® 73721) or CT Ankle without contrast (CPT® 73700)
 - ◆ Tarsal navicular (Kohler Disease):
 - MRI Foot without contrast (CPT® 73718) or CT Foot without contrast (CPT® 73700)
 - ◆ Metatarsal head (Frieberg's Infraction):
 - MRI Foot without contrast (CPT® 73718) or CT Foot without contrast (CPT® 73700)
 - ◆ Humeral head:
 - MRI Shoulder without contrast (CPT® 73221) or CT Shoulder without contrast (CPT® 73200)
 - ◆ Lunate (Kienbock's Disease)/Scaphoid (Preiser's Disease):
 - CT Wrist without contrast (CPT® 73200) or MRI Wrist without contrast (CPT® 73221).
- Individuals with acute lymphoblastic leukemia and known or suspected osteonecrosis should be imaged according to guidelines in **Acute Lymphoblastic Leukemia (ALL) (PEDONC-3.2)** in the Pediatric Oncology Imaging Guidelines
- Known or suspected osteonecrosis in long-term cancer survivors should be imaged according to guidelines in **Osteonecrosis in Long Term Cancer Survivors (PEDONC-19.4)** in the Pediatric Oncology Imaging Guidelines

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Fractures (MS-5)

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Acute Fracture (MS-5.1)

- CT or MRI without contrast if ANY of the following:
 - ◆ Complex (comminuted or displaced) fracture with or without dislocation on plain x-ray.
 - CT is preferred unless it is associated with neoplastic disease when MRI without/with contrast is preferred unless MRI contraindicated.
 - ◆ Individual presents initially to the requesting provider with a documented history of an acute traumatic event at least two weeks prior with a negative plain x-ray at the time of this face-to-face encounter and a clinical suspicion for an occult/stress/insufficiency fracture see: **Suspected Occult/Stress/Insufficiency Fracture/Stress Reaction and Shin Splints (MS-5.2)**.
 - ◆ For osteochondral fracture or osteochondral injury. see: **Chondral/Osteochondral Lesions, Including Osteochondritis Dissecans and Fractures (MS-13.1)**

Suspected Occult/Stress/Insufficiency Fracture/Stress Reaction and Shin Splints (MS-5.2)

- MRI without contrast for suspected hip/femoral neck, tibia, pelvis/sacrum, tarsal navicular, proximal fifth metatarsal, or scaphoid occult/stress/insufficiency fractures, and suspected atypical femoral shaft fractures related to bisphosphonate use if initial evaluation of history, physical exam, and plain x-ray fail to establish a definitive diagnosis.
 - ◆ CT without contrast can be performed as an alternative to MRI for suspected occult/insufficiency fractures of the pelvis/hip and suspected atypical femoral shaft fractures related to bisphosphonate see: **Pelvis (MS-23)** and **Hip (MS-24)**, and suspected occult fractures of the scaphoid See **Wrist (MS-21)**.
- MRI or CT without contrast for all other suspected occult/stress/insufficiency fractures with EITHER of the following:
 - ◆ Repeat plain x-rays remain non-diagnostic for fracture after a minimum of 10 days of provider-directed conservative treatment, OR
 - ◆ Initial plain x-rays obtained a minimum of 14 days after the onset of symptoms are non-diagnostic for fracture
- MRI Lower Leg without contrast (CPT[®] 73718) for suspected shin splints when ALL of the following:
 - ◆ Initial plain x-ray
 - ◆ Failure of a 6-week trial of provider-directed conservative treatment
- For stress reaction, advanced imaging is not medically necessary for surveillance or “return to play” decisions regarding a stress reaction identified on an initial imaging study.
- MRI without contrast of the area of interest for stress fracture follow-up imaging for “return to play” evaluation at least 3 months after the initial imaging study for stress fracture.

- For periprosthetic fractures related to joint replacement see: **Post-Operative Joint Replacement Surgery (MS-16.1)**, **Shoulder (MS-19)**, **Elbow (MS-20)**, **Hip (MS-24)**, **Knee (MS-25)**, and **Ankle (MS-26)**.

Other Indications (MS-5.3)

- CT or MRI without contrast after recent (within 30 days) plain x-ray if **ONE** of the following:
 - ◆ Concern for delayed union or non-union of fracture, osteotomy, or joint fusions.
 - ◆ Part of preoperative evaluation for a planned surgery of a complex fracture with or without dislocation.

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Foreign Body (MS-6)

- Ultrasound (CPT® 76881 or CPT® 76882) or CT without contrast or MRI without and with contrast or MRI without contrast of the area of interest after plain x-rays rule out the presence of radiopaque foreign bodies.
 - ◆ Ultrasound (CPT® 76881 or CPT® 76882) is the preferred imaging modality for radiolucent (non-radiopaque) foreign bodies (e.g. wood, plastic).
 - ◆ CT without contrast is recommended when plain x-rays are negative and a radiopaque foreign body is still suspected, as CT is favored over MRI for the identification of foreign bodies.
 - ◆ MRI without and with contrast is an alternative to US and CT for assessing the extent of infection associated with a suspected foreign body.

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Ganglion Cysts (MS-7)

- Plain x-ray is the initial imaging study for ganglion cysts.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI without contrast or MRI without and with contrast or US (CPT® 76881 or CPT® 76882) is appropriate for surgical planning.
- Advanced imaging is not indicated for ganglions that can be diagnosed by history and physical examination.

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Gout/Calcium Pyrophosphate Deposition Disease (CPPD)/ Pseudogout/Chondrocalcinosis (MS-8)

Gout-General (MS-8.1)	21
CPPD (Pseudogout /Chondrocalcinosis) – General (MS-8.2)	21

Gout-General (MS-8.1)

- CT without contrast, MRI without contrast, or MRI without and with contrast of the area of interest is indicated when **BOTH** of the following are met:
 - ◆ Initial plain x-ray to rule out other potential disease processes
 - ◆ Infection or neoplasm is in the differential diagnosis for soft tissue tophi.

Background and Supporting Information

- Early stages of gout can be diagnosed clinically since radiographic findings are not present early in the disease course

CPPD (Pseudogout/Chondrocalcinosis)-General (MS-8.2)

- Calcium pyrophosphate deposition disease (CPPD), also called pseudogout, can often be diagnosed from plain x-rays; advanced diagnostic imaging is generally not medically necessary.

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Infection/Osteomyelitis (MS-9)	
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Septic Joint (MS-9.2)	23

Infection – General (MS-9.1)

- MRI without contrast, MRI without and with contrast, CT without contrast, CT with contrast, or Ultrasound (CPT® 76881 or 76882) of the affected area is appropriate after plain x-ray(s) in the following scenarios:
 - ◆ Plain x-ray(s) do not demonstrate infection, AND
 - ◆ Plain x-ray(s) do not suggest alternative diagnoses such as neuropathic arthropathy or fracture, AND
 - ◆ Soft tissue or bone infection (osteomyelitis) is suspected
 - ◆ **OR** Plain x-ray(s) are positive for infection, AND
 - ◆ The extent of infection into the soft tissues and any skip lesions require evaluation.
- If MRI or CT cannot be done, and when infection is multifocal, or when the infection is associated with orthopedic hardware or chronic bone alterations from trauma or surgery:
 - ◆ FDG PET/CT (CPT® 78815 for multifocal infection, or CPT® 78811 for unifocal/limited area of interest)
 - ◆ At this time, FDG is the only indicated radiotracer for use with PET/CT in the imaging of musculoskeletal conditions.
- Individuals with suspected spinal infections
 - ◆ See: **Red Flag Indications (SP-1.2)** for advanced imaging guidelines
- Individuals with diabetic foot infections after plain x-ray(s)
 - ◆ See: **Foot (MS-27)** for advanced imaging guidelines

Septic Joint (MS-9.2)

- MRI without and with contrast, MRI without contrast, CT without contrast, CT with contrast, or Ultrasound (CPT® 76881 or 76882) of the affected joint is appropriate when standard or image-guided arthrocentesis is contraindicated, unsuccessful, or non-diagnostic, and the clinical documentation satisfies ALL of the following criteria:
 - ◆ History and physical examination findings [ONE of the following]:
 - Development of an acutely hot and swollen joint (<2 weeks)
 - Decreased range of motion due to pain
 - Documented fever
 - ◆ Laboratory tests [ONE of the following]:
 - Leukocytosis
 - Elevated ESR or C-reactive protein
 - Analysis of the joint fluid is non-diagnostic
 - ◆ Plain x-ray of the joint
 - Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI without and with contrast, MRI without contrast, CT without contrast, or CT with contrast of the affected joint is appropriate after plain x-rays if the arthrocentesis is diagnostic and if there is a confirmed septic joint, to evaluate the extent of infection into the soft tissues and any skip lesions that would require evaluation.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider

Background and Supporting Information

- Analysis of joint fluid is most often sufficient to diagnose a septic joint.

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Soft Tissue Mass or Lesion of Bone (MS-10)	
Soft Tissue Mass (MS-10.1)	26
Lesion of Bone (MS-10.2)	26

Soft Tissue Mass (MS-10.1)

- History and physical exam should include documentation of: location, size, duration, growing or stable, solid/cystic, fixed/not fixed to the bone, discrete or ill-defined, and an association with pain.
- Plain x-ray is indicated as the initial imaging study, with the exception of individuals with cancer predisposition syndrome.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI without and with contrast or without contrast or US of the area of interest (CPT® 76881 or 76882) is appropriate when ANY of the following are met after plain x-ray:
 - ◆ Soft tissue mass(es)
 - ◆ Surgical planning
- Known or suspected soft tissue mass in an individual with a cancer predisposition syndrome, see **Screening Imaging in Cancer Predisposition Syndromes (PEDONC-2)** in the Pediatric and Special Populations Oncology Imaging Guidelines.
- CT with contrast or CT without and with contrast is appropriate when MRI is contraindicated or after a metal limiting MRI evaluation.
- Advanced imaging is not indicated for:
 - ◆ Subcutaneous lipoma with no surgery planned
 - ◆ Ganglia, see: **Ganglion Cysts (MS-7)**
 - ◆ Sebaceous cyst

Background and Supporting Information

- Plain x-rays can determine if an advanced imaging procedure is indicated, and if so, which modality is most appropriate. If non-diagnostic, these initial plain x-rays can provide complementary information if advanced imaging is indicated.

Lesion of Bone (MS-10.2)

- History and physical exam should include documentation of: location, size, duration, growing or stable, discrete or poorly defined, and an association with pain.
- Complete radiograph of the entire bone containing the lesion of bone is required prior to consideration of advanced imaging. Many benign bone tumors have a characteristic appearance on plain x-ray and advanced imaging is not necessary.
- MRI without and with contrast, MRI without contrast, or CT without contrast may be indicated if ONE of the following applies:
 - ◆ Diagnosis uncertain based on plain x-ray appearance.
 - ◆ Imaging requested for preoperative planning.
- MRI without and with contrast or without contrast is appropriate when plain x-ray reveals an osteochondroma with clinical concern of malignant transformation.

- For Paget's Disease:
 - ◆ Bone scan OR
 - ◆ MRI (contrast as requested) can be considered if the diagnosis (based on plain x-rays and laboratory studies) is in doubt OR
 - ◆ MRI (contrast as requested) can be considered if malignant degeneration, which occurs in up to 10% of cases, is suspected.

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Muscle/Tendon Unit Injuries/Diseases (MS-11)	
Muscle/Tendon Unit Injuries/Diseases (MS-11.1)	29
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Chronic Exertional Compartment Syndrome (MS-11.3)	29

Muscle/Tendon Unit Injuries/Diseases (MS-11.1)

- Plain x-ray is the initial imaging study for muscle/tendon unit injuries.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI without contrast or US (CPT® 76881 or CPT® 76882) for **EITHER** of the following:
 - ◆ Suspected partial tendon rupture of a specific (named) tendon.
 - ◆ Complete tendon rupture of a specific named tendon for preoperative planning.
- MRI is not medically necessary for muscle belly strains/muscle tears.
- See: **Shoulder (MS-19)** for clinical suspicion of a partial or complete rotator cuff tear.
- See: **Inflammatory Muscle Diseases (PN-6.2)** in the Peripheral Nerve Disorders Imaging Guidelines and **Inflammatory Muscle Diseases (PEDMS-10.3)** in the Pediatric Musculoskeletal Imaging Guidelines.

Acute Compartment Syndrome (MS-11.2)

- Advanced imaging is not indicated. Diagnosis is made clinically and by direct measurement of compartment pressure and is a surgical emergency.

Background and Supporting Information

- Noninvasive methods of measuring compartment pressures and diagnosing acute compartment syndrome are under study, but are currently experimental, investigational, and unproven.

Chronic Exertional Compartment Syndrome (MS-11.3)

- Advanced imaging should only be considered when ruling out other potential causes of extremity pain following a plain x-ray and conservative treatment as indicated.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider

Background and Supporting Information

- Direct measurement of compartment pressure remains the diagnostic standard. Noninvasive methods of measuring compartment pressures and diagnosing chronic exertional compartment syndrome are under study, but are currently experimental, investigational, and unproven.

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Osteoarthritis (MS-12)	
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Treatment Planning (Non-Surgical and Surgical, Other Than Joint Replacement) (MS-12.2)	32
Imaging Prior to Non-Customized-to-Patient Joint Replacement Surgery/Not for intraoperative Navigation (MS-12.3)	32
Customized-to-Patient Joint Replacement Surgery/Intraoperative Navigation (MS-12.4)	33

Osteoarthritis (MS-12.1)

- Plain x-ray is the initial imaging study for osteoarthritis
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider

Background and Supporting Information

- Plain x-rays are performed initially and will reveal characteristic joint space narrowing, osteophyte formation, cyst formation, and subchondral sclerosis.

Treatment Planning (Non-Surgical and Surgical, Other Than Joint Replacement) (MS-12.2)

- Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider, unless otherwise specified below.
- CT without contrast is appropriate when ALL of the following apply:
 - ◆ Requested for treatment planning, AND
 - ◆ Congenital or significant atypical post-traumatic arthritic deformities are identified on plain x-ray, AND
 - ◆ The aforementioned deformities require further evaluation of their clinical significance, AND
 - ◆ The request is related to the shoulder, elbow, wrist, hip, knee, or ankle
- MRI Knee without contrast (CPT® 73721) is appropriate in an individual with osteoarthritis for clinical suspicion of a symptomatic degenerative meniscus tear following plain x-rays and conservative treatment. See: **Knee (MS-25)**
- MRI arthrogram or CT arthrogram is appropriate when joint sparing/salvage reconstructive surgery is planned for the following:
 - ◆ Suspected concomitant rotator cuff tear of the shoulder – See: **Shoulder (MS-19)**
 - ◆ Suspected concomitant labral tear of the shoulder – See: **Shoulder (MS-19)**
 - ◆ Suspected concomitant labral tear of the hip – See: **Hip (MS-24)**
 - ◆ Suspected concomitant internal derangement of the knee – See: **Knee (MS-25)**

Imaging Prior to Non-Customized-to-Patient Joint Replacement Surgery/Not for Intraoperative Navigation (MS-12.3)

- The following imaging studies are appropriate per the listed criteria after plain x-ray has been performed
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
 - CT without contrast is appropriate when ALL of the following apply:
 - Requested for treatment planning, AND
 - Congenital or significant atypical post-traumatic arthritic deformities are identified on plain x-ray, AND
 - The aforementioned deformities require further evaluation of their clinical significance, AND
 - The request is related to the shoulder, elbow, wrist, hip, knee, or ankle

- CT Shoulder without contrast (CPT® 73200) and/or MRI Shoulder without contrast (CPT® 73221) are considered medically necessary for preoperative planning prior to shoulder replacement

For the clinical imaging criteria regarding preoperative joint replacement surgery for each anatomic area, refer to the anatomic area tables:

- ◆ **Shoulder (MS-19)**
- ◆ **Elbow (MS-20)**
- ◆ **Wrist (MS-21)**
- ◆ **Hip (MS-24)**
- ◆ **Knee (MS-25)**
- ◆ **Ankle (MS-26)**

Customized-to-Patient Joint Replacement Surgery/Intraoperative Navigation (MS-12.4)

- The following imaging studies are appropriate per the listed criteria after plain x-ray has been performed
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
 - CT without contrast or MRI without contrast of the shoulder, elbow, wrist, hip, knee, or ankle is appropriate* when the request is for:
 - ◆ Treatment planning for customized-to-patient joint replacement surgery, OR
 - ◆ Surgical planning using intraoperative navigation for joint replacement surgery (e.g. MAKOplasty)
- AND
- ◆ The joint replacement surgery has been approved or does not require prior authorization
- *The preoperative imaging listed above is considered **not medically necessary** if any of the following are deemed not medically necessary, not a covered benefit, or experimental, investigational, or unproven by the health plan:
 - ◆ Joint replacement surgery
 - ◆ Customized-to-patient implant
 - ◆ Computer assisted surgical navigation (e.g. MAKOplasty)

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Chondral/Osteochondral Lesions (MS-13)

- MRI without contrast, MRI with contrast (arthrogram), or CT with contrast (arthrogram) of the area of interest with **EITHER** of the following:
 - ◆ Plain x-rays are negative and an osteochondral fracture is still suspected
 - ◆ Plain x-ray and clinical exam suggest an unstable osteochondral injury
- If plain x-rays show a non-displaced osteochondral fragment, follow-up imaging should be with plain x-rays. Advanced imaging is not necessary.
- MRI without contrast or CT without contrast is indicated when healing (including post-operative fixation) cannot be adequately assessed on follow-up plain x-rays.
- See anatomical table sections for recommendations on anatomy-specific osteochondral injuries
 - ◆ See: **Ankle (MS-26)** for suspected osteochondral injury of the ankle
 - ◆ See: **Elbow (MS-20)** for suspected osteochondral injury of the elbow

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Osteoporosis (MS-14)

- Plain x-ray is not required
 - Quantitative CT (CPT® 77078) can be approved for screening when DXA scanner is unavailable or known to be inaccurate for ANY of the following populations:
 - ◆ Women age ≥65 years
 - ◆ Postmenopausal women younger than 65 years who are at increased risk of osteoporosis, as determined by a formal clinical risk assessment tool (e.g., FRAX*)
 - ◆ Man, age >50 years with at least one factor related to an increased risk of osteoporosis (i.e., age >70, low body weight, weight loss >10%, physical inactivity, corticosteroid use, androgen deprivation therapy, hypogonadism and previous fragility fracture)
- *Fracture Risk Assessment (FRAX) tool, developed by the World Health Organization (Sheffield, United Kingdom)

Note: Repeat screening quantitative computed tomography (QCT) can be approved no sooner than every two years

- Quantitative CT scan (CPT® 77078) can be approved for non-screening/monitoring when DXA scanner is unavailable or known to be inaccurate for ANY of the following circumstances:
 - ◆ Follow-up in cases where QCT was the original study
 - ◆ Multiple healed vertebral compression fractures
 - ◆ Significant scoliosis
 - ◆ Advanced arthritis of the spine due to increased cortical sclerosis often with large marginal osteophytes.
 - ◆ Obese individual over the weight limit of the dual-energy x-ray absorptiometry (DXA) exam table
 - ◆ Severely obese individuals (BMI >35kg/m²)
 - ◆ Extremes in body height (i.e. very large and very small individuals)
 - ◆ Individuals with extensive degenerative disease of the spine
 - ◆ A clinical scenario that requires sensitivity to small changes in trabecular bone density (parathyroid hormone and glucocorticoid treatment monitoring).

Note: Repeat non-screening/monitoring QCT can be approved no earlier than one year following a change in treatment regimen, and only when the results will directly impact a treatment decision.

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Rheumatoid Arthritis (RA) and Inflammatory Arthritis (MS-15)

Rheumatoid Arthritis (RA) and Inflammatory Arthritis (MS-15.1)	39
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Rheumatoid Arthritis (RA) and Inflammatory Arthritis (MS-15.1)

- Plain x-ray, physical exam and appropriate laboratory studies* are required prior to advanced imaging
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI without contrast or MRI without and with contrast or US (CPT® 76881 or CPT® 76882) is appropriate for the most symptomatic joint, or of the dominant hand or wrist, in **ALL** the following situations:
 - ◆ When diagnosis is uncertain prior to initiation of drug therapy.
 - ◆ To study the effects of treatment with disease modifying anti-rheumatic drug (DMARD) therapy.
 - ◆ To identify seronegative RA individuals that might benefit from early DMARD therapy.
 - ◆ To determine change in treatment, such as:
 - Switching from standard DMARD therapy to tumor necrosis factor (TNF) therapy.
 - Changing to a different TNF drug therapy, then one MRI (contrast as requested) of a single joint can be performed.
 - Addition of other treatments, including joint injections
- MRI or US should NOT be considered for routine follow-up of treatment.

Background and Supporting Information

- *Examples of appropriate laboratory studies may include Lyme titers, rheumatoid factor (RF), anti-cyclic citrullinated peptide (anti-CCP), sedimentation rate (ESR), C-reactive protein (CRP), and antinuclear antibody (ANA)], joint fluid analysis

Pigmented Villonodular Synovitis (PVNS) (MS-15.2)

- MRI of the affected joint without contrast, or CT of the affected joint with contrast (arthrogram) if MRI contraindicated following plain x-rays.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider

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Post-Operative Joint Replacement Surgery (MS-16)

- CT without contrast or MRI without contrast with **ALL** of the following:
 - ◆ Recent plain x-ray is nondiagnostic
 - ◆ Suspected aseptic loosening of orthopaedic joint replacements
 - CT Shoulder without contrast (CPT® 73200) can be performed as additional imaging following plain x-rays regardless of plain x-ray findings. See: **Shoulder (MS-19)**
 - Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- CT without contrast or MRI without contrast with **ALL** of the following:
 - ◆ Negative plain x-ray
 - ◆ High suspicion for a periprosthetic fracture
 - CT Shoulder without contrast (CPT® 73200) can be performed as additional imaging following plain x-rays regardless of plain x-ray findings. See: **Shoulder (MS-19)**
 - Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- Joint aspiration is the initial evaluation after plain x-ray for a painful joint replacement when periprosthetic infection is suspected.
 - ◆ Results of plain x-rays performed after the current episode of symptoms started or changed need to be available to the requesting provider
- MRI Hip without contrast (CPT® 73721) or Ultrasound (CPT® 76881 or CPT® 76882) for **EITHER** of the following:
 - ◆ Diagnosis of ALVAL (aseptic lymphocytic-dominated vasculitis-associated lesion) pseudotumors surrounding metal-on-metal (MoM) hip prostheses. One of these two imaging modalities can be approved but not both. See: **Soft Tissue Mass or Lesion of Bone (MS-10)**
 - ◆ Metal-On-Metal (MoM) Hip Prostheses that are considered high risk for implant performance issues from THA (Total hip arthroplasty) cup-neck impingement and subsequent ALTR (adverse local tissue reaction) with Co and Cr ion levels greater than 10 ppb.
- CT Hip without contrast (CPT® 73700) or MRI Hip without contrast (CPT® 73721):
 - ◆ Evaluate suspected particle disease (aggressive granulomatous disease) of the hip when infection has been excluded.
- For specific joints post-operative from replacement surgery:
 - ◆ See: **Shoulder (MS-19)**
 - ◆ See: **Elbow (MS-20)**
 - ◆ See: **Hip (MS-24)**
 - ◆ See: **Knee (MS-25)**
 - ◆ See: **Ankle (MS-26)**

Background and Supporting Information

- Complications following joint replacement surgery include (not limited to) periprosthetic fracture, infection, aseptic loosening, failure of fixation/component malposition, and wear.

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Limb Length Discrepancy (MS-17)

- Either plain radiographic or “CT scanogram,” both reported with CPT® 77073, is appropriate to radiographically evaluate limb length discrepancy due to congenital anomalies, acquired deformities, growth plate (physeal injuries or surgery), or inborn errors of metabolism.
 - ◆ A diagnostic advanced imaging CPT code (e.g., CPT® 73700, CPT® 73701, or CPT® 73702) is not indicated for evaluation of limb length discrepancy.

Reference

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Anatomical Area Tables – General Information (MS-18)

The imaging guidelines for each anatomical area are presented in table format. The table below includes a description of how each column header should be utilized for each guideline **Shoulder (MS-19)** through **Foot (MS-27)**.

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's Condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments Additional comments related to the condition.

Shoulder (MS-19)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in [General Guidelines \(MS-1.0\)](#))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Shoulder Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221) OR ➤ US Shoulder (CPT® 76881 or CPT® 76882) OR ➤ CT Shoulder with contrast (arthrogram) (CPT® 73201) if MRI contraindicated 	
Symptomatic Loose Bodies	No	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221) 	
Impingement	Yes	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221) OR ➤ MRI Shoulder with contrast (arthrogram) (CPT® 73222) OR ➤ US Shoulder (CPT® 76881 or CPT® 76882) ➤ CT Shoulder with contrast (CPT® 73201) if MRI is contraindicated 	
Tendonitis/ Bursitis	Yes	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221) OR ➤ US Shoulder (CPT® 76881 or CPT® 76882) 	
Tendon Rupture (Biceps Long Head)	No	<ul style="list-style-type: none"> ➤ When clinical exam is inconclusive due to inability to visualize a "Popeye" sign clinically, or for preoperative planning: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ US Shoulder (CPT® 76881 or CPT® 76882) 	
Tendon Rupture (Pectoralis Major/Minor)	No	<ul style="list-style-type: none"> ➤ When clinical exam is inconclusive or for preoperative planning: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ MRI Chest without contrast (CPT® 71550) OR ◆ US Shoulder (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Shoulder Rotator Cuff Tear (Complete and Partial)	Yes*	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221) OR ➤ MRI Shoulder with contrast (arthrogram) (CPT® 73222) OR ➤ US Shoulder (CPT® 76881 or CPT® 76882) OR ➤ CT Shoulder with contrast (arthrogram) (CPT® 73201) if MRI is contraindicated 	*Conservative treatment is not required with an acute shoulder injury prior to the onset of symptoms and consideration of surgery. If surgery is being considered, MRI without contrast, MRI with contrast (arthrogram), or CT arthrogram are required per <u>CMM-315: Shoulder Surgery- Arthroscopic and Open Procedures.</u>
Partial Tendon Rupture (Excluding Partial Rotator Cuff Tears)	No	<ul style="list-style-type: none"> ➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ US Shoulder (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.

After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in [General Guidelines \(MS-1.0\)](#))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Complete Rupture – Tear of a Specific Named Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ US Shoulder (CPT® 76881 or 76882) 	
Shoulder Labral Tear (e.g., SLAP, ALPSA, HAGL)	Yes	<ul style="list-style-type: none"> ➤ MRI Shoulder with contrast (arthrogram) (CPT® 73222) OR ➤ MRI Shoulder without contrast (CPT® 73221) OR ➤ CT Shoulder with contrast (arthrogram) (CPT® 73201) 	For surgery criteria, see: <u>CMM-315: Shoulder Surgery- Arthroscopic and Open Procedures.</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Shoulder Dislocation/ Subluxation/ Instability, or Bankart/ Hill-Sachs lesions	Yes*	<ul style="list-style-type: none"> ➤ Individuals 40 years of age or younger with a first time dislocation, and in individuals with recurrent dislocations, conservative treatment not required: <ul style="list-style-type: none"> ◆ MRI Shoulder with contrast (arthrogram) (CPT® 73222) OR ◆ MRI Shoulder without contrast (CPT® 73221) ➤ CT Shoulder with contrast (arthrogram) (CPT® 73201) or CT Shoulder without contrast (CPT® 73200) if MRI is contraindicated 	*Conservative treatment is required in individuals over age 40 with a first time dislocation. For surgery criteria, see: <u>CMM-315: Shoulder Surgery-Arthroscopic and Open Procedures.</u>
Frozen Shoulder/ Adhesive Capsulitis	Yes	<ul style="list-style-type: none"> ➤ MRI Shoulder without contrast (CPT® 73221). 	For surgery criteria, see: <u>CMM-310: Manipulation Under Anesthesia</u> and <u>CMM-315: Shoulder Surgery-Arthroscopic</u>

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in General Guidelines (MS-1.0))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Avascular Necrosis (AVN) of the Humeral Head	No	➤ See: <u>AVN (MS-4.1)</u>	
Acromio-clavicular (AC) Separation	No	➤ MRI Shoulder without contrast (CPT® 73221) to rule out possible rotator cuff tear following AC separation	
Sterno-clavicular (SC) Dislocation	No	➤ CT Chest without contrast (CPT® 71250) if posterior SC dislocation is evident or suspected	
Post-Operative Shoulder Surgery for Impingement, Rotator Cuff Tear, and/or Labral Tear	Yes	➤ In symptomatic individuals: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ MRI Shoulder with contrast (arthrogram) (CPT® 73222) ➤ US Shoulder (CPT® 76881 or CPT® 76882) is also appropriate in symptomatic individuals following rotator cuff repair ➤ CT Shoulder with contrast (arthrogram) (CPT® 73201) if MRI contraindicated	

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in General Guidelines (MS-1.0))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Preoperative Shoulder (Glenohumeral) Replacement Surgery	Yes	➤ CT Shoulder without contrast (CPT® 73200) and/or MRI Shoulder without contrast (CPT® 73221) for preoperative planning prior to shoulder replacement	See: <u>Osteoarthritis (MS-12)</u> For joint surgery criteria, see: <u>CMM-318: Shoulder Arthroplasty/ Arthrodesis</u>

<p>Post-Operative Shoulder (Glenohumeral) Replacement Surgery</p>	<p>No</p>	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening or fracture as additional imaging following plain x-rays: <ul style="list-style-type: none"> ◆ CT Shoulder without contrast (CPT® 73200) OR ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ US Shoulder (CPT® 76881 or 76882) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73321) OR ◆ MRI Shoulder without and with contrast (CPT® 73223) OR ◆ CT Shoulder with contrast (CPT® 73201) OR ◆ US Shoulder (CPT® 76881 or 76882) ➤ For possible rotator cuff tear: <ul style="list-style-type: none"> ◆ CT Shoulder with contrast (arthrogram) (CPT® 73201) OR ◆ MRI Shoulder without contrast (CPT® 73221) OR 	<p>See: Post-Operative Joint Replacement Surgery (MS-16)</p>
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After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in General Guidelines (MS-1.0))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
		<ul style="list-style-type: none"> ◆ US Shoulder (CPT® 76881 or CPT® 76882) ➤ For possible nerve injury: <ul style="list-style-type: none"> ◆ MRI Shoulder without contrast (CPT® 73221) OR ◆ US Shoulder (CPT® 76881 or CPT® 76882) 	

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Elbow (MS-20)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Elbow Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Elbow without contrast (CPT® 73221) OR ➤ US Elbow (CPT® 76881 or 76882) 	
Symptomatic Loose Bodies	No	<ul style="list-style-type: none"> ➤ MRI Elbow without contrast (CPT® 73221) OR ➤ MRI Elbow with contrast (arthrogram) (CPT® 73222) OR ➤ CT Elbow without contrast (CPT® 73200) OR ➤ CT Elbow with contrast (arthrogram) (CPT® 73201) 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ MRI Elbow without contrast (CPT® 73221) OR ➤ US Elbow (CPT® 76881 or CPT® 76882) 	
Bursitis	Yes	<ul style="list-style-type: none"> ➤ MRI Elbow without and with contrast (CPT® 73223) OR ➤ MRI Elbow without contrast (CPT® 73221) OR ➤ US Elbow (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Lateral (tennis elbow) or Medial (golfer's elbow) Epicondylitis	Yes	➤ To confirm clinical diagnosis of epicondylitis if symptoms persist for longer than 6 months despite at least 6 weeks conservative treatment in the last 3 months: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or CPT® 76882) 	Epicondylitis, caused by tendon degeneration and tear of the common extensor tendon laterally or of the common flexor tendon medially, is a common clinical diagnosis for which imaging is not medically necessary except as noted.

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Suspected Osteochondral Injury	No	<ul style="list-style-type: none"> ➤ If plain x-rays are negative and an osteochondral fracture is still suspected: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ MRI Elbow with contrast (arthrogram) (CPT® 73222) OR ◆ CT Elbow without contrast (CPT® 73200) OR ◆ CT Elbow with contrast (arthrogram) (CPT® 73201) 	See: <u>Chondral/Osteochondral Lesions (MS-13)</u> for other osteochondral injury scenarios
Ruptured Biceps Insertion at Elbow	No	<ul style="list-style-type: none"> ➤ When clinical exam is inconclusive or for preoperative planning: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or CPT® 76882) 	
Ruptured Triceps Insertion at Elbow	No	<ul style="list-style-type: none"> ➤ When clinical exam is inconclusive or for preoperative planning: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in General Guidelines (MS-1.0))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Partial Tendon Rupture	No	➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Complete Rupture – Tear of a Specific Named Tendon	No	➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or 76882) 	
Trauma	No	➤ When surgery is being considered: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ CT Elbow without contrast (CPT® 73200) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Ulnar Collateral Ligament (UCL) Tear	No	<ul style="list-style-type: none"> ➤ Following acute or repetitive (including overhead throwing athletes) elbow trauma: <ul style="list-style-type: none"> ◆ MRI Elbow with contrast (arthrogram) (CPT® 73222) OR ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ US Elbow (CPT® 76881 or CPT® 76882) OR ◆ CT Elbow with contrast (arthrogram) (CPT® 73201) 	
Suspected Nerve Abnormality	NA	<ul style="list-style-type: none"> ➤ This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See: <u>Focal Neuropathy (PN-2)</u> in the Peripheral Nerve Disorders Imaging Guidelines 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Post-Operative	Yes	<ul style="list-style-type: none"> ➤ CT Elbow without contrast (CPT® 73200) in symptomatic post-operative individuals following surgical treatment of complex fractures; OR ➤ MRI Elbow without contrast (CPT® 73221) in symptomatic post-operative individuals following soft-tissue surgery 	
Preoperative Elbow Replacement Surgery	Yes	<ul style="list-style-type: none"> ➤ CT Elbow without contrast (CPT® 73200) for preoperative planning prior to elbow replacement when congenital or post-traumatic deformities exist 	See: <u>Osteoarthritis (MS-12)</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Post-Operative Elbow Replacement Surgery	No	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Elbow without contrast (CPT® 73200) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Elbow without contrast (CPT® 73221) OR ◆ MRI Elbow without and with contrast (CPT® 73223) OR ◆ CT Elbow with contrast (CPT® 73201) ◆ US Elbow (CPT® 76881 or 76882) 	

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Wrist (MS-21)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Wrist Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Wrist without contrast (CPT® 73221) OR ➤ US Wrist (CPT® 76881 or CPT® 76882) 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ MRI Wrist without contrast (CPT® 73221) OR ➤ US Wrist (CPT® 76881 or CPT® 76882) 	
Kienbock's Disease (Avascular Necrosis (AVN) of the Lunate)/ Preiser's Disease (Avascular Necrosis (AVN) of the Scaphoid)	No	<ul style="list-style-type: none"> ➤ See: <u>AVN (MS-4.1)</u> 	
Suspected Navicular/ Scaphoid Fracture	No	<ul style="list-style-type: none"> ➤ When suspected based on history and physical exam: <ul style="list-style-type: none"> ◆ MRI Wrist without contrast (CPT® 73221) OR ◆ CT Wrist without contrast (CPT® 73200) 	See: <u>Suspected Occult/ Stress/ Insufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2)</u>
Distal Radioulnar Joint (DRUJ) Instability	No	<ul style="list-style-type: none"> ➤ CT Both Wrists without contrast (CPT® 73200) (should include wrists in supination and pronation) 	
Complex Distal Radius/ Ulna Fracture	No	<ul style="list-style-type: none"> ➤ CT Wrist without contrast (CPT® 73200) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Carpal Tunnel Syndrome/ Ulnar Tunnel Syndrome	NA	<ul style="list-style-type: none"> ➤ This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See: <u>Focal Neuropathy (PN-2)</u> in the Peripheral Nerve Disorders Imaging Guidelines 	
Intrinsic Ligament (e.g. scapholunate)/Triangular Fibrocartilage Complex (TFCC) Injuries	Yes	<ul style="list-style-type: none"> ➤ MRI Wrist with contrast (arthrogram) (CPT® 73222) OR ➤ CT Wrist with contrast (arthrogram) (CPT® 73201) 	
Complete Rupture – Tear of a Specific Named Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Wrist without contrast (CPT® 73221) OR ◆ US Wrist (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Partial Tendon Rupture	No	➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Wrist without contrast (CPT® 73221) OR ◆ US Wrist (CPT® 76881 or CPT® 76882) 	MRI is NOT needed for muscle belly strains/muscle tears.

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Post-Operative	Yes	<ul style="list-style-type: none"> ➤ CT Wrist without contrast (CPT® 73200) in symptomatic individuals following surgery for navicular/scaphoid fractures and complex distal radius/ulna fractures; OR ➤ MRI Wrist with contrast (arthrogram) (CPT® 73222) in symptomatic individuals following DRUJ or TFCC surgery 	
Preoperative Wrist Replacement Surgery	Yes	<ul style="list-style-type: none"> ➤ CT Wrist without contrast (CPT® 73200) for preoperative planning prior to wrist replacement when congenital or post-traumatic deformities exist 	See: <u>Osteoarthritis (MS-12)</u>

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Post-Operative Wrist Replacement Surgery	No	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Wrist without contrast (CPT® 73200) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Wrist without contrast (CPT® 73221) OR ◆ MRI Wrist without and with contrast (CPT® 73223) OR ◆ CT Wrist with contrast (CPT® 73201) ◆ US Wrist (CPT® 76881 or 76882) 	

One Study/Area Only

In hand and wrist advanced imaging, studies are frequently ordered of both areas. This is unnecessary since wrist MRI will image from above the wrist to the mid-metacarpal area. **Only one CPT® code should be reported.**

References

1. Bruno MA, Weissman BN, Kransdorf MJ, et al. Expert Panel on Musculoskeletal Imaging. ACR Appropriateness Criteria® Acute Hand and Wrist Trauma. *Am Coll Radiol (ACR)*; Date of Origin: 1995. Revised: 2018. <https://acsearch.acr.org/docs/69418/Narrative/>.
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Hand (MS-22)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Hand Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Hand or Finger without contrast (CPT® 73218) OR ➤ US Hand (CPT® 76881 or CPT® 76882) 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ MRI Hand or Finger without contrast (CPT® 73218) OR ➤ US Hand or Finger (CPT® 76881 or CPT® 76882) 	
Occult Fracture	No	➤ Advanced imaging guided by: <u>Suspected Occult/Stress/ Insufficiency Fracture/Stress Reaction and Shin Splints (MS-5.2)</u>	
Complex Fracture	No	➤ CT Hand or Finger without contrast (CPT® 73200) when plain x-ray shows a complex fracture	
Ulnar Collateral Ligament (UCL) Thumb Injury	No	<ul style="list-style-type: none"> ➤ If rule out for Stener lesion or complete tear of UCL of the thumb MCP joint: <ul style="list-style-type: none"> ◆ MRI Thumb without contrast (CPT® 73218) OR ◆ US Thumb (CPT® 76881 or CPT® 76882) 	Also called "Gamekeeper's Thumb" or "Skier's Thumb"
Complete Rupture – Tear of a Specific Named Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Hand or Finger without contrast (CPT® 73218) OR ◆ US Hand or Finger (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Partial Tendon Rupture	No	➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Hand or Finger without contrast (CPT® 73218) OR ◆ US Hand or Finger (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Post-Operative	Yes	➤ In symptomatic post-operative individuals following surgical treatment for complex hand or finger fractures or following soft-tissue surgery: <ul style="list-style-type: none"> ◆ CT Hand or Finger without contrast (CPT® 73200) OR ◆ MRI Hand or Finger without contrast (CPT® 73218) 	

One Study/Area Only

In hand and wrist advanced imaging, studies are frequently ordered of both areas. This is unnecessary since wrist MRI will image from above the wrist to the mid-metacarpal area. **Only one CPT® code should be reported.**

References

1. Bruno MA, Weissman BN, Kransdorf MJ, et. al. Expert Panel on Musculoskeletal Imaging. ACR Appropriateness Criteria® Acute Hand and Wrist Trauma. *Am Coll Radiol (ACR)*; Date of Origin: 1995. Revised: 2018. <https://acsearch.acr.org/docs/69418/Narrative/>.
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Pelvis (MS-23)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Pain - Pelvis	Yes	<ul style="list-style-type: none"> ➤ MRI Pelvis without contrast (CPT® 72195) OR ➤ MRI RT and/or LT Hip without contrast (CPT® 73721) 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ MRI Pelvis without contrast (CPT® 72195) OR ➤ MRI RT and/or LT Hip without contrast (CPT® 73721) 	
Occult/ Insufficiency Fracture	No	<ul style="list-style-type: none"> ➤ MRI Pelvis without contrast (CPT® 72195) OR ➤ CT Pelvis without contrast (CPT® 72192) 	See: <u>Suspected Occult/ Stress/ Insufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2)</u> for occult and stress fractures of the pelvis
Complex Fracture/ Dislocation - Pelvis, Sacrum and Acetabulum	No	<ul style="list-style-type: none"> ➤ CT Pelvis without contrast (CPT® 72192) 	Additionally, 3D rendering may be appropriate for preoperative planning. See: <u>3D Rendering (MS-3)</u>
Sacro-iliac (SI) Joint Pain, Sacroiliitis, Coccydynia	Yes	<ul style="list-style-type: none"> ➤ Advanced imaging guided by: <ul style="list-style-type: none"> ◆ <u>Sacroiliac (SI) Joint Pain/Sacroiliitis (SP-10.1)</u> in the Spine Imaging Guidelines ◆ <u>Coccydynia without Neurological Features (SP-5.2)</u> in the Spine Imaging Guidelines 	
Piriformis Syndrome	NA	<ul style="list-style-type: none"> ➤ This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See: <u>Focal Neuropathy (PN-2)</u> in the Peripheral Nerve Disorders Imaging Guidelines 	

<p>After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)</p>			
<p>Condition (Individual's condition)</p>	<p>Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)</p>	<p>Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)</p>	<p>Comments (Additional comments related to the condition.)</p>
<p>Partial Tendon Rupture</p>	<p>No</p>	<p>➤ MRI Pelvis without contrast (CPT® 72195) for a suspected partial tendon rupture of a specific named tendon not otherwise specified</p>	<p>MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.</p>
<p>Osteitis Pubis/Symphysis Pubis Diastasis</p>	<p>Yes</p>	<p>➤ MRI Pelvis without contrast (CPT® 72195)</p>	
<p>Athletic Pubalgia (Sports Hernia)</p>	<p>Yes</p>	<p>➤ To evaluate for the cause of suspected athletic pubalgia: ◆ MRI Pelvis without contrast (athletic pubalgia protocol) (CPT® 72195) OR ◆ Dynamic pelvic ultrasound (CPT® 76857)</p>	
<p>Post-Operative</p>	<p>Yes</p>	<p>➤ CT Pelvis without contrast (CPT® 72192) in symptomatic individuals following surgery for complex pelvic ring/acetabular fractures</p>	

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Hip (MS-24)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Hip Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Hip without contrast (CPT® 73721) OR ➤ US Hip (CPT® 76881 or CPT® 76882) 	
Symptomatic Loose Bodies	No	<ul style="list-style-type: none"> ➤ MRI Hip without contrast (CPT® 73721) 	
Tendonitis/ Bursitis	Yes	<ul style="list-style-type: none"> ➤ MRI Hip without contrast (CPT® 73721) OR ➤ US Hip (CPT® 76881 or CPT® 76882) 	
Hip Abductor Tendon Tear/Avulsion	No	<ul style="list-style-type: none"> ➤ MRI Hip without contrast (CPT® 73721) OR ➤ US Hip (CPT® 76881 or CPT® 76882) 	
Complete Rupture – Tear of a Specific Named Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) OR ◆ US Hip (CPT® 76881 or CPT® 76882) 	
Partial Tendon Rupture	No	<ul style="list-style-type: none"> ➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) OR ◆ US Hip (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Occult/ Insufficiency Fracture	No	<ul style="list-style-type: none"> ➤ MRI Hip without contrast (CPT® 73721) OR ➤ CT Hip without contrast (CPT® 73700) 	See: <u>Suspected Occult/Stress/Insufficiency Fracture/Stress Reaction and Shin Splints (MS-5.2)</u> for occult and stress fractures of the hip

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Avascular Necrosis (AVN) of the Femoral Head	No	➤ See: <u>AVN (MS-4.1)</u>	
Labral Tear	Yes	<ul style="list-style-type: none"> ➤ MRI Hip with contrast (arthrogram) (CPT® 73722) OR ➤ CT Hip with contrast (arthrogram) (CPT® 73701) OR ➤ MRI Hip without contrast (CPT® 73721) 	For surgery criteria, see: <u>CMM-314: Hip Surgery-Arthroscopic and Open Procedures</u>
Femoroacetabular Impingement	Yes	<ul style="list-style-type: none"> ➤ For preoperative planning for femoroacetabular impingement: <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) OR ◆ MRI Hip with contrast (arthrogram) (CPT® 73722) IN ADDITION TO: ➤ CT Hip without contrast (CPT® 73700) OR ➤ CT Pelvis without contrast (CPT® 72192) 	For surgery criteria, see: <u>CMM-314: Hip Surgery-Arthroscopic and Open Procedures</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Piriformis Syndrome	NA	<ul style="list-style-type: none"> ➤ This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See: <u>Focal Neuropathy (PN-2)</u> in the Peripheral Nerve Disorders Imaging Guidelines 	
Post-Operative	Yes	<ul style="list-style-type: none"> ➤ Symptomatic individuals following surgery for labral tears and femoroacetabular impingement: <ul style="list-style-type: none"> ◆ MRI Hip with contrast (arthrogram) (CPT® 73722) ➤ Symptomatic individuals following surgery for hip fracture and/or hip avascular necrosis: <ul style="list-style-type: none"> ◆ CT Hip without contrast (CPT® 73700) OR ◆ MRI Hip without contrast (CPT® 73721) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Preoperative Hip Replacement Surgery	Yes	➤ CT Hip without contrast (CPT® 73700) or CT Pelvis without contrast (CPT® 72192) for preoperative planning prior to hip replacement when congenital or post-traumatic deformities exist	See: <u>Osteoarthritis (MS-12)</u> For surgery criteria, See <u>CMM-313: Hip Arthroplasty-Total and Partial</u>

<p>Post-Operative Hip Replacement Surgery</p>	<p>No*</p>	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening of hip replacement when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Hip without contrast (CPT® 73700) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) OR ◆ MRI Hip without and with contrast (CPT® 73723) OR ◆ CT Hip with contrast (CPT® 73701) ◆ US Hip (CPT® 76881 or 76882) ➤ For suspicion of a periprosthetic fracture when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Hip without contrast (CPT® 73700) ➤ To evaluate component malposition or heterotopic bone after plain x-ray: <ul style="list-style-type: none"> ◆ CT Hip without contrast (CPT® 73700) ➤ For possible nerve injury: <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) ➤ For suspected tendinitis/bursitis, abductor injury, or other soft tissue abnormality (*requires conservative treatment): <ul style="list-style-type: none"> ◆ MRI Hip without contrast (CPT® 73721) OR 	<p>See: <u>Post-Operative Joint Replacement Surgery (MS-16)</u></p>
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After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
		◆ US Hip (CPT® 76881 or CPT® 76882)	

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Knee (MS-25)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Knee Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Knee without contrast (CPT® 73721) OR ➤ US Knee (CPT® 76881 or CPT® 76882) 	
Symptomatic Loose Bodies	No	<ul style="list-style-type: none"> ➤ MRI Knee without contrast (CPT® 73721) ➤ CT Knee with contrast (arthrogram) (CPT® 73701) if MRI cannot be performed 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ MRI Knee without contrast (CPT® 73721) OR ➤ US Knee (CPT® 76881 or CPT® 76882) 	
Complex Knee Fracture	No	<ul style="list-style-type: none"> ➤ MRI knee without contrast (CPT® 73721) OR ➤ CT Knee without contrast (CPT® 73700) 	See: <u>Fractures (MS-5)</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Meniscus Tear	Yes*	<ul style="list-style-type: none"> ➤ MRI Knee without contrast (CPT® 73721) ➤ CT Knee with contrast (arthrogram) (CPT® 73701) if MRI cannot be performed <p>*Conservative treatment is not required if at least 2 of following 4 criteria are met:</p> <ol style="list-style-type: none"> 1) Positive McMurray's, positive Thessaly, or positive Apley's Compression Test 2) twisting or acute injury of the knee 3) locked knee/inability to fully extend the knee on exam in comparison to the opposite knee 4) knee effusion <ul style="list-style-type: none"> ➤ MRI Knee without contrast (CPT® 73721) for clinical suspicion of a symptomatic degenerative meniscus tear in an individual with osteoarthritis following conservative treatment 	For surgery criteria, See <u>CMM-312: Knee Surgery-Arthroscopic and Open Procedures</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Ligament Tear	Yes*	➤ MRI Knee without contrast (CPT® 73721) *Conservative treatment is not required if any of the following signs are positive in comparison to the opposite knee: <ul style="list-style-type: none"> ◆ Anterior drawer ◆ Lachman ◆ Pivot shift ◆ Posterior drawer ◆ Posterior sag ◆ Valgus stress ◆ Varus stress 	For surgery criteria, See <u>CMM-312: Knee Surgery-Arthroscopic and Open Procedures</u>
Knee Joint Dislocation	No	➤ Following significant trauma to evaluate for ligament and vascular injury: <ul style="list-style-type: none"> ◆ MRI Knee without contrast (CPT® 73721) AND EITHER ◆ MR Angiography lower extremity without and with contrast (CPT® 73725) OR ◆ CT Angiography lower extremity without and with contrast (CPT® 73706) 	
Patellar Dislocation/Subluxation	No	➤ MRI Knee without contrast (CPT® 73721) or CT Knee without contrast (CPT® 73700) when there is an acute knee injury, consideration of surgery AND concern for osteochondral fracture or loose osteochondral fracture fragment	For surgery criteria, See <u>CMM-312: Knee Surgery-Arthroscopic and Open Procedures</u>

After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in General Guidelines (MS-1.0))

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Recurrent Patellar Instability	Yes	➤ MRI Knee without contrast (CPT® 73721) or CT Knee without contrast (CPT® 73700) if consideration for surgery	For surgery criteria, See <u>CMM-312: Knee Surgery-Arthroscopic and Open Procedures</u>
Patellofemoral Pain Syndrome/ Anterior Knee Pain/ Tracking Disorder	Yes	➤ MRI Knee without contrast (CPT® 73721) or CT Knee without contrast (CPT® 73700) if consideration for surgery	
Suspected Osteochondral Injury	No	➤ If plain x-rays are negative and an osteochondral fracture is still suspected: <ul style="list-style-type: none"> ◆ MRI Knee without contrast (CPT® 73721) OR ◆ MRI Knee with contrast (arthrogram) (CPT® 73722) OR ◆ CT Knee with contrast (arthrogram) (CPT® 73701) 	See: <u>Chondral Osteochondral Lesions (MS-13)</u> for other osteochondral injury scenarios. For surgery criteria, see: <u>CMM-312: Knee Surgery-Arthroscopic and Open Procedures</u>
Avascular Necrosis (AVN) of the Distal Femur	No	➤ See: <u>AVN (MS-4.1)</u>	
Baker's Cyst (Popliteal Cyst)	Yes	➤ US Knee (CPT® 76881 or CPT® 76882) is the initial imaging study ➤ MRI Knee without contrast (CPT® 73721) for preoperative planning	See: <u>Acute Limb Swelling (PVD-12)</u> in the Peripheral Vascular Disease Imaging Guidelines

Musculoskeletal Imaging Guidelines

<p>After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)</p>			
<p>Condition (Individual's condition)</p>	<p>Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)</p>	<p>Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)</p>	<p>Comments (Additional comments related to the condition.)</p>
<p>Plica (Symptomatic Synovial Plica/Medial Synovial Shelf)</p>	<p>Yes</p>	<p>➤ MRI Knee without contrast (CPT® 73721)</p>	
<p>Hemarthrosis</p>	<p>No</p>	<p>➤ MRI Knee without contrast (CPT® 73721) for clinical suspicion of cruciate ligament tear (requires a positive objective sign for ACL/PCL tear) or patellar dislocation (requires a positive apprehension sign) ➤ CT Knee without contrast (CPT® 73700) for clinical suspicion of non-displaced intra-articular fracture</p>	
<p>Complete Rupture of the Distal Quadriceps Tendon or Patellar Ligament/ Tendon</p>	<p>No</p>	<p>➤ For preoperative planning: ◆ MRI Knee without contrast (CPT® 73721) OR ◆ US Knee (CPT® 76881 or CPT® 76882)</p>	
<p>Partial Tendon Rupture</p>	<p>No</p>	<p>➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: ◆ MRI Knee without contrast (CPT® 73721) OR ◆ US Knee (CPT® 76881 or CPT® 76882)</p>	<p>MRI is NOT needed for muscle belly strains/muscle tears.</p>
<p>Complete Rupture – Tear of a Specific Named</p>	<p>No</p>	<p>➤ For preoperative planning: ◆ MRI Knee without contrast (CPT® 73721) OR</p>	

<p>After an initial plain x-ray has been obtained, and results are available to the provider, the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)</p>			
<p>Condition (Individual's condition)</p>	<p>Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)</p>	<p>Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)</p>	<p>Comments (Additional comments related to the condition.)</p>
<p>Tendon</p>		<ul style="list-style-type: none"> ◆ US Knee (CPT® 76881 or 76882) 	
<p>Post-Operative</p>	<p>Yes</p>	<ul style="list-style-type: none"> ➤ In symptomatic individuals following surgery for meniscus tears and reconstruction of the anterior cruciate ligament: <ul style="list-style-type: none"> ◆ MRI Knee with contrast (arthrogram) (CPT® 73722) OR ◆ MRI Knee without contrast (CPT® 73721) ➤ In symptomatic individuals following surgery for fracture/dislocation: <ul style="list-style-type: none"> ◆ CT Knee without contrast (CPT® 73700) 	
<p>Preoperative Knee Replacement Surgery</p>	<p>Yes</p>	<ul style="list-style-type: none"> ➤ CT Knee without contrast (CPT® 73700) for preoperative planning prior to knee replacement when congenital or post-traumatic deformities exist of the patella, distal femur and/or proximal tibia 	<p>See: <u>Osteoarthritis (MS-12)</u> For surgery criteria, see: <u>CMM-311: Knee Arthroplasty-Total and Partial</u></p>

<p>Post-Operative Knee Replacement Surgery</p>	<p>No*</p>	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Knee without contrast (CPT® 73700) OR ◆ MRI Knee without contrast (CPT® 73721) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Knee without contrast (CPT® 73721) OR ◆ MRI Knee without and with contrast (CPT® 73723) OR ◆ CT Knee with contrast (CPT® 73701) OR ◆ US Knee (CPT® 76881 or 76882) ➤ Following plain x-ray for suspected periprosthetic fracture: <ul style="list-style-type: none"> ◆ CT Knee without contrast (CPT® 73700) OR ◆ MRI Knee without contrast (CPT® 73721) ➤ For suspected osteolysis or component instability, rotation, or wear: <ul style="list-style-type: none"> ◆ CT Knee without contrast (CPT® 73700) OR ◆ MRI Knee without contrast (CPT® 73721) ➤ For suspected periprosthetic soft tissue abnormality unrelated to infection (e.g., tendinopathy, arthrofibrosis, patellar clunk syndrome, impingement of nerves or other soft tissue) *requires conservative treatment: <ul style="list-style-type: none"> ◆ MRI Knee without contrast (CPT® 73721) OR 	<p>See: <u>Post-Operative Joint Replacement Surgery (MS-16)</u></p>
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After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
		♦ US Knee (CPT® 76881 or CPT® 76882)	

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Ankle (MS-26)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Ankle Pain	Yes	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) OR ➤ US Ankle (CPT® 76881 or CPT® 76882) 	
Symptomatic Loose Bodies	No	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) 	
Complex Fracture	No	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) OR ➤ CT Ankle without contrast (CPT® 73700) 	
Ankle Sprain, Including Avulsion Fracture	Yes	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) OR ➤ CT Ankle without contrast (CPT® 73700) 	
High Ankle Sprain (Syndesmosis Injury)	No	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) OR ➤ CT Ankle without contrast (CPT® 73700) 	
Suspected Osteochondral Injury	No	<ul style="list-style-type: none"> ➤ If plain x-rays are negative and an osteochondral fracture is still suspected, ONE of the following: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) ◆ CT Ankle without contrast (CPT® 73700) 	See: <u>Chondral/Osteochondral Lesions (MS-13)</u> for other osteochondral injury scenarios
Avascular Necrosis (AVN) of the Talus	No	<ul style="list-style-type: none"> ➤ See: <u>AVN (MS-4.1)</u> 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Anterior Impingement Anterior-Lateral Impingement Posterior Impingement (e.g., Os Trigonum Syndrome)	Yes	<ul style="list-style-type: none"> ➤ MRI Ankle with contrast (arthrogram) (CPT® 73722) OR ➤ CT Ankle with contrast (arthrogram) (CPT® 73701) OR ➤ MRI Ankle without contrast (CPT® 73721) 	
Tendonitis	Yes	<ul style="list-style-type: none"> ➤ For suspected posterior tibial dysfunction, peroneal tendon or subluxation, Achilles tendonitis: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ US Ankle (CPT® 76881 or CPT® 76882) 	
Complete Rupture of Achilles Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative evaluation: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ US Ankle (CPT® 76881 or CPT® 76882) 	
Complete Rupture -Tear of a Specific Named Tendon	No	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ US Ankle (CPT® 76881 or CPT® 76882) 	
Partial Tendon Rupture	No	<ul style="list-style-type: none"> ➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ US Ankle (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Instability	Yes	<ul style="list-style-type: none"> ➤ For preoperative evaluation: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ MRI Ankle with contrast (arthrogram) (CPT® 73722) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Charcot Ankle	Yes	➤ MRI Ankle without contrast (CPT® 73721)	
Post-Operative	Yes	➤ In symptomatic individuals following surgery for ligament/tendon injuries, one of the following: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ US Ankle (CPT® 76881 or CPT® 76882) ➤ For symptomatic individuals following surgery for complex fractures: <ul style="list-style-type: none"> ◆ CT Ankle without contrast (CPT® 73700) 	
Preoperative Ankle Replacement Surgery	Yes	➤ CT Ankle without contrast (CPT® 73700) for preoperative planning prior to ankle replacement when congenital or post-traumatic deformities exist	See: <u>Osteoarthritis (MS-12)</u>

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Post-Operative Ankle Replacement Surgery	No	<ul style="list-style-type: none"> ➤ For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic: <ul style="list-style-type: none"> ◆ CT Ankle without contrast (CPT® 73700) ➤ For suspected infection with negative or inconclusive joint aspiration culture: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ MRI Ankle without and with contrast (CPT® 73723) OR ◆ CT Ankle with contrast (CPT® 73701) OR ◆ US Ankle (CPT® 76881 or 76882) 	See: <u>Post-Operative Joint Replacement Surgery (MS-16)</u>

One Study/Area Only

In foot and ankle advanced imaging, studies are frequently ordered of both areas. This is unnecessary since ankle MRI will image from above the ankle to the mid- metatarsal area. Only one CPT® code should be reported.

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Foot (MS-27)

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
General Foot Pain	Yes	➤ MRI Foot without contrast (CPT® 73718)	
Complex Fractures	No	➤ CT Foot without contrast (CPT® 73700)	
Plantar Plate Disorders, Including Turf Toe Injuries	Yes	➤ MRI Foot without contrast (CPT® 73718)	
Sesamoid Disorders	Yes	➤ MRI Foot without contrast (CPT® 73718) OR ➤ CT Foot without contrast (CPT® 73700)	
Lisfranc Tarsometatarsal Fracture or Dislocation	No	➤ MRI Foot without contrast (CPT® 73718) OR ➤ CT Foot without contrast (CPT® 73700)	
Tarsal Navicular Stress/Occult Fracture	No	➤ MRI Foot without contrast (CPT® 73718) ➤ CT Foot without contrast (CPT® 73700) for follow-up of healing fractures	See: <u>Suspected Occult/Stress/Insufficiency Fracture/Stress Reaction and Shin Splints (MS-5.2)</u>
Avascular Necrosis (AVN) of the Tarsal Navicular (Kohler Disease) or Metatarsal Head (Frieberg's Infracture)	No	➤ See: <u>AVN (MS-4.1)</u>	
Tendonitis	Yes	➤ MRI Foot without contrast (CPT® 73718) OR ➤ US Foot (CPT® 76881 or CPT® 76882)	
Complete Rupture – Tear of a Specific Named Tendon	No	➤ For preoperative planning: ◆ MRI Foot without contrast (CPT® 73718) OR ◆ US Foot (CPT® 76881 or CPT® 76882)	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Partial Tendon Rupture	No	➤ For a suspected partial tendon rupture of a specific named tendon not otherwise specified: <ul style="list-style-type: none"> ◆ MRI Foot without contrast (CPT® 73718) OR ◆ US Foot (CPT® 76881 or CPT® 76882) 	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Morton's Neuroma	Yes	➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Foot without contrast (CPT® 73718) OR ◆ MRI Foot without and with contrast (CPT® 73720) OR ◆ US Foot (CPT® 76881 or CPT® 76882) 	

After an initial plain x-ray has been obtained , and results are available to the provider , the following advanced imaging is indicated (as described in <u>General Guidelines (MS-1.0)</u>)			
Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Plantar Fasciitis	Yes*	➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Foot without contrast (CPT® 73718) OR ◆ US Foot (CPT® 76881 or CPT® 76882) 	*Provider-directed conservative treatment must be for 6 months or more.
Suspected Plantar Fascia Rupture or Tear	Yes	➤ MRI Foot without contrast (CPT® 73718) OR ➤ US Foot (CPT® 76881 or CPT® 76882)	

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
Diabetic Foot Infection	No	<ul style="list-style-type: none"> ➤ For suspected osteomyelitis or soft tissue infection as a complement to plain x-ray (both plain x-ray and MRI are indicated): <ul style="list-style-type: none"> ◆ MRI Foot without and with contrast (CPT® 73720) OR ◆ MRI Foot without contrast (CPT® 73718) 	See: <u>Infection - General (MS-9.1)</u>
Tarsal Tunnel Syndrome including Baxter's Neuropathy	Yes	<ul style="list-style-type: none"> ➤ For preoperative planning if mass/lesion is suspected as etiology of entrapment: <ul style="list-style-type: none"> ◆ MRI Foot without contrast (CPT® 73718) OR ◆ US Foot (CPT® 76881 or CPT® 76882) 	
Tarsal Coalition	Yes	<ul style="list-style-type: none"> ➤ For preoperative planning: <ul style="list-style-type: none"> ◆ MRI Ankle without contrast (CPT® 73721) OR ◆ CT Ankle without contrast (CPT® 73700) 	
Sinus Tarsi Syndrome	Yes	<ul style="list-style-type: none"> ➤ MRI Ankle without contrast (CPT® 73721) if diagnosis is unclear or for preoperative evaluation 	
Charcot Foot	Yes	<ul style="list-style-type: none"> ➤ MRI Foot without contrast (CPT® 73718) OR ➤ MRI Foot without and with contrast (CPT® 73720) 	

After an **initial plain x-ray has been obtained**, and **results are available to the provider**, the following advanced imaging is indicated (as described in **General Guidelines (MS-1.0)**)

Condition (Individual's condition)	Conservative Treatment (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?) (Yes or No)	Advanced Imaging (The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	Comments (Additional comments related to the condition.)
CRPS Type I	Yes	<ul style="list-style-type: none"> ➤ Triple phase bone scan (CPT® 78315) OR ➤ MRI Foot without contrast (CPT® 73718) 	

<p>Post-Operative</p>	<p>Yes</p>	<ul style="list-style-type: none"> ➤ In symptomatic individuals following surgery for conditions including the tendons, ligaments, and plantar plate, ONE of the following: <ul style="list-style-type: none"> ◆ MRI Foot without contrast (CPT® 73718) OR ◆ US Foot (CPT® 76881 or CPT® 76882) ➤ In symptomatic individuals following surgery for complex fractures, sesamoid fractures, and subtalar arthrodesis: <ul style="list-style-type: none"> ◆ CT Foot without contrast (CPT® 73700) 	
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One Study/Area Only

In foot and ankle advanced imaging, studies are frequently ordered of both areas. This is unnecessary since ankle MRI will image from above the ankle to the mid- metatarsal area. Only one CPT® code should be reported.

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