### 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 <u>Cigna CPT</u> <u>code list</u> for the current list of high-tech imaging procedures that eviCore reviews for Cigna.

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### General Guidelines (MS-1)

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### Procedure Codes associated with Musculoskeletal Imaging (MS)

MS.GG.ProcedureCodes.C

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/CTA	CPT®
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-1.0)**

MS.GG.0001.0.A

- Before advanced diagnostic imaging can be considered, there must be an inperson 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 nonnarcotic analgesic medications, oral or injectable corticosteroids, viscosupplementation injections, a provider-directed home exercise program, crosstraining, 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.

### References (MS-1)

### References (MS-1)

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### Imaging Techniques (MS-2)

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### Plain X-Ray (MS-2.1)

### Plain X-Ray (MS-2.1)

MS.IM.0002.1.A

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 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)

### **MRI or CT (MS-2.2)**

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- 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.

### Jitrasound (MS-2.3)

### **Ultrasound (MS-2.3)**

MS.IM.0002.3.A

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 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)

### **Contrast Issues (MS-2.4)**

MS.IM.0002.4.A

- Most musculoskeletal imaging (MRI or CT) is without contrast; however, the following examples may be considered with contrast:
  - o 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)

MS.IM.0002.5.C

- 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.

### References (MS-2)

### References (MS-2)

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### 3D Rendering (MS-3)

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### 3D Rendering (MS-3)

### 3D Rendering (MS-3)

MS.TD.0003.C

- 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.
  - o 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.

### Reference (MS-3)

### Reference (MS-3)

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

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### **AVN (MS-4.1)**

### **AVN (MS-4.1)**

MS.AN.0004.1.C

- 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)
  - o 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 <u>Acute Lymphoblastic</u> <u>Leukemia (PEDONC-3.2)</u> in the Pediatric Oncology Imaging Guidelines
- Known or suspected osteonecrosis in long-term cancer survivors should be imaged according to guidelines in <u>Osteonecrosis in Long Term Cancer Survivors</u> (<u>PEDONC-19.4</u>) in the Pediatric Oncology Imaging Guidelines

### References (MS-4)

### References (MS-4)

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### Fractures (MS-5)

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## Acute Fracture (MS-5.1)

### **Acute Fracture (MS-5.1)**

MS.FX.0005.1.A

- 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: <u>Suspected Occult/ Stress/</u>
    <u>Insufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2)</u>.
- For osteochondral fracture or osteochondral injury, see: <u>Chondral/Osteochondral</u> <u>Lesions, Including Osteochondritis Dissecans and Fractures (MS-13.1)</u>

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

MS.FX.0005.2.C

- MRI without contrast can be performed 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 the initial evaluation of history, physical exam and plain x-ray fails 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: <u>Pelvis (MS-23)</u> and <u>Hip (MS-24)</u> , and suspected occult fractures of the scaphoid see: <u>Wrist (MS-21)</u>.
- MRI or CT without contrast can be performed 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 of the lower leg without contrast (CPT® 73718) for suspected shin splints when BOTH of the following are met:
  - Initial plain x-ray
  - o 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: <u>Post-Operative Joint Replacement Surgery (MS-16.1)</u>, <u>Shoulder (MS-19)</u>, <u>Elbow (MS-20)</u>, <u>Hip (MS-24)</u>, <u>Knee (MS-25)</u>, and <u>Ankle (MS-26)</u>.

# Other Indications (MS-5.3)

### **Other Indications (MS-5.3)**

MS.FX.0005.3.A

- CT or MRI without contrast after recent (within 30 days) plain x-ray if ONE of the following is present:
  - o 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.

### References (MS-5)

### References (MS-5)

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### Foreign Body (MS-6)

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# oreign Body - General (MS-6.1)

### Foreign Body – General (MS-6.1)

MS.FB.0006.1.A

- 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 can be approved 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

### References (MS-6)

### References (MS-6)

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### Ganglion Cysts (MS-7)

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# anglion Cysts – General (MS-7.1)

### **Ganglion Cysts – General (MS-7.1)**

MS.GC.0007.1.A

- 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.

### References (MS-7)

### References (MS-7)

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

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## Gout - General (MS-8.1)

### Gout – General (MS-8.1)

MS.GD.0008.1.A

v1.0.2024

- 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
  - o 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)

MS.GD.0008.2.A

v1.0.2024

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

## References (MS-8)

## References (MS-8)

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## Infection/Osteomyelitis (MS-9)

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## Infection – General (MS-9.1)

## **Infection – General (MS-9.1)**

MS.OI.0009.1.C

- MRI without contrast, MRI without and with contrast, CT without contrast, CT with contrast, or Ultrasound (CPT® 76881 or CPT® 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: <u>Foot (MS-27)</u> for advanced imaging guidelines

## Septic Joint (MS-9.2)

## Septic Joint (MS-9.2)

MS.OI.0009.2.A

v1.0.2024

- MRI without and with contrast, MRI without contrast, CT without contrast, or Ultrasound (CPT® 76881 or CPT® 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)</li>
    - 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.

## References (MS-9)

## References (MS-9)

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## Soft Tissue Mass or Lesion of Bone (MS-10)

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## **Soft Tissue Mass (MS-10.1)**

MS.ST.0010.1.A

v1.0.2024

- 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 <u>Screening Imaging in Cancer Predisposition Syndromes</u> (<u>PEDONC-2</u>)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:
  - o Subcutaneous lipoma with no surgery planned
  - Ganglia, see: <u>Ganglion Cysts (MS-7)</u>
  - 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.

## esion of Bone (MS-10.2)

## **Lesion of Bone (MS-10.2)**

MS.ST.0010.2.C

- 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:
  - o Diagnosis uncertain based on plain x-ray appearance.
  - o 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:
  - o Bone scan OR
  - MRI (contrast as requested) can be considered if the diagnosis (based on plain x-rays and laboratory studies) is in doubt.
  - MRI (contrast as requested) can be considered if malignant degeneration, which occurs in up to 10% of cases, is suspected.

## References (MS-10)

## References (MS-10)

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## Muscle/Tendon Unit Injuries/Diseases (MS-11)

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

MS.MI.0011.1.A

- 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) is supported for EITHER
  of the following:
  - Suspected partial tendon rupture of a specific (named) tendon
  - o Complete tendon rupture of a specific named tendon for preoperative planning
- MRI is not medically necessary for muscle belly strains/muscle tears
- See: <u>Shoulder (MS-19)</u> for clinical suspicion of a partial or complete rotator cuff tear
- See: <u>Inflammatory Muscle Diseases (PN-6.2</u>) in the Peripheral Nerve Disorders Imaging Guidelines and <u>Inflammatory Muscle Diseases (PEDMS-10.3</u>) in the Pediatric Musculoskeletal Imaging Guidelines

# Acute Compartment Syndrome (MS-11.2)

## Acute Compartment Syndrome (MS-11.2)

MS.MI.0011.2.A

v1.0.2024

 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)**

MS.MI.0011.3.A

v1.0.2024

- 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.

## References (MS-11)

### References (MS-11)

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## Osteoarthritis (MS-12)

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## Osteoarthritis (MS-12.1)

## **Osteoarthritis (MS-12.1)**

MS.OT.0012.1.A

v1.0.2024

- 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)

MS.OT.0012.2.A

- 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
  - o 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: <u>Shoulder (MS-19)</u>
  - o Suspected concomitant labral tear of the shoulder See: Shoulder (MS-19)
  - Suspected concomitant labral tear of the hip See: <u>Hip (MS-24)</u>
  - 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)

MS.OT.0012.3.C

- 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)
      - <u>Hip (MS-24 )</u>
      - Knee (MS-25)
      - Ankle (MS-26)

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

MS.OT.0012.4.C

- 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
  - o Customized-to-patient implant
  - Computer assisted surgical navigation (e.g. MAKOplasty)

## References (MS-12)

## References (MS-12)

- Mintz DN, Roberts CC, Bencardino JT, et al. Expert Panel on Musculoskeletal Imaging. ACR Appropriateness Criteria<sup>®</sup> Chronic Hip Pain. Am Coll Radiol (ACR); Revised: 2016. https://acsearch.acr.org/docs/69425/Narrative/.
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## Chondral/Osteochondral Lesions (MS-13)

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## Chondral/Osteochondral Lesions, Including Osteochondritis Dissecans and Fractures (MS-13.1)

MS.OD.0013.1.A

- MRI without contrast, MRI with contrast (arthrogram), or CT with contrast (arthrogram) of the joint or area of interest is indicated when EITHER of the following are met:
  - 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

## References (MS-13)

## References (MS-13)

- 1. Bridges MD, Berland LL, Cernigliaro JG, et al. ACR Practice Guideline. ACR-SSR Practice Guideline for the Performance and Interpretation of Magnetic Resonance Imaging (MRI). *Am Coll Radiol (ACR)*. 2017. ht tps://www.acr.org/-/media/ACR/Files/Practice-Parameters/mr-perf-interpret.pdf?la=en.
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## Osteoporosis (MS-14)

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## Osteoporosis (MS-14)

## **Osteoporosis (MS-14)**

MS.OP.0014.C

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- 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:
  - o 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:
  - o 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)
  - o 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.

## References (MS-14)

## References (MS-14)

- American Association of Clinical Endocrinologists (AACE) Menopause Guidelines Revision Task Force. American Association of Clinical Endocrinologists medical guidelines for clinical practice for the diagnosis and treatment of postmenopausal osteoporosis. *Endocr Pract.* 2016;22(Suppl 4):1-42. https://www. aace.com/files/postmenopausal-guidelines.pdf.
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## Rheumatoid Arthritis (RA) and Inflammatory Arthritis (MS-15)

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

MS.RA.0015.1.A

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- 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 of 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), Creactive protein (CRP), and antinuclear antibody (ANA)], joint fluid analysis

## Pigmented Villonodular Synovitis (PVNS) (MS-15.2)

MS.RA.0015.2.A

- MRI of the affected joint without contrast or CT of the affected joint with contrast (arthrogram) if MRI contraindicated is supported 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

## References (MS-15)

### References (MS-15)

- Rubin DA, Roberts CC, Bencardino JT, et. al. Expert Panel on Musculoskeletal Imaging. ACR Appropriateness Criteria<sup>®</sup> Chronic Wrist Pain. Am Coll Radiol (ACR); Revised: 2017. https://acsearch.acr.org/docs/69427/Narrative/.
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- 13. Cohen SB, Potter H, Deodhar A, et al. Extremity magnetic resonance imaging in rheumatoid arthritis: updated literature review. Arthritis Care & Research. 2011;63(5):660-665. doi:10.1002/acr.20413.
- 14. Singh JA, Furst DE, Bharat A, et al. 2012 update of the 2008 American College of Rheumatology recommendations for the use of disease-modifying antirheumatic drugs and biologic agents in the treatment of rheumatoid arthritis. *Arthritis Care & Research*. 2012;64(5):625-639. doi:10.1002/acr.21641.
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## Post-Operative Joint Replacement Surgery (MS-16)

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## Post-Operative Joint Replacement Surgery – General (MS-16.1)

MS.PS.0016.1.C

- 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) are both appropriate 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: <u>Soft Tissue</u> 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.

## References (MS-16)

## References (MS-16)

- Mintz DN, Roberts CC, Bencardino JT, et al. Expert Panel on Musculoskeletal Imaging. ACR Appropriateness Criteria<sup>®</sup> Chronic Hip Pain. Am Coll Radiol (ACR); Revised: 2016. https://acsearch.acr.org/docs/69425/Narrative/.
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## Limb Length Discrepancy (MS-17)

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# imb Length Discrepancy (MS-17)

## **Limb Length Discrepancy (MS-17)**

MS.LL.0017.1.A

- 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<sup>®</sup> 73700, CPT<sup>®</sup> 73701, or CPT<sup>®</sup> 73702) is not indicated for evaluation of limb length discrepancy.

# Reference (MS-17)

## Reference (MS-17)

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1. Leitzes A, Potter HG, Amaral T, et al. Reliability and accuracy of MRI scanogram in the evaluation of limb length discrepancy. *J Pediatr Orthop*. 2005;25(6):747-749.

# Anatomical Area Tables – General Information (MS-18)

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# **Anatomical Area Tables – General Information (MS-18)**

MS.AA.0018.A

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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)**.

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

# Shoulder (MS-19)

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# Shoulder (MS-19)

### **Shoulder (MS-19)**

MS.SH.0019.C

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Condition	Conservative	Advanced Imaging	Comments
(Individual's condition)	Treatment  (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?)  (Yes or No)	(The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	(Additional comments related to the condition.)
General Shoulder Pain	Yes	<ul><li>73221) OR</li><li>US shoulder (CPT 76882) OR</li><li>CT shoulder with</li></ul>	out contrast (CPT®  76881 or CPT®  contrast (arthrogram) RI contraindicated
Symptomatic Loose Bodies	No	MRI shoulder with 73221)	out contrast (CPT®
Impingement	Yes	<ul> <li>MRI shoulder with 73221) OR</li> <li>MRI shoulder with (arthrogram) (CPT 76882)</li> <li>CT shoulder with 73201) if MRI is c</li> </ul>	T <sup>®</sup> 73222) OR T <sup>®</sup> 76881 or CPT <sup>®</sup> contrast (CPT <sup>®</sup>
Tendonitis/ Bursitis	Yes	<ul> <li>MRI shoulder with 73221) OR</li> <li>US shoulder (CPT 76882)</li> </ul>	out contrast (CPT®

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?)	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.)
Tendon Rupture (Biceps Long Head)	(Yes or No) No	to inability to visual clinically, or for pro  • MRI shoulder (CPT® 73221)	m is inconclusive due alize a "Popeye" sign eoperative planning: without contrast OR
Tendon Rupture (Pectoralis Major/Minor)	No	for preoperative p  • MRI Shoulder (CPT® 73221)  • MRI Chest with 71550) OR	without contrast

Guidelines [MS-1.0] Condition **Advanced Imaging** Conservative Comments **Treatment** (Additional (Individual's (The appropriate condition) (Is failure of 6 weeks advanced imaging comments related to of provider-directed indicated for this the condition.) conservative condition. In some treatment within the scenarios, advanced past 12 weeks with imaging may not be clinical re-evaluation indicated.) required?) (Yes or No) **Shoulder Rotator** Yes\* \*Conservative MRI shoulder **Cuff Tear** treatment is not without contrast (Complete and (CPT® 73221) required with an Partial) acute shoulder OR injury prior to the MRI shoulder onset of symptoms with contrast and consideration of (arthrogram) surgery. (CPT® 73222) OR If surgery is being US shoulder considered, MRI (CPT® 76881 or without contrast. CPT® 76882) OR MRI with contrast (arthrogram), or CT CT shoulder with arthrogram are

contrast

MRI is

(arthrogram) (CPT® 73201) if

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

required per

(CMM-315)

Shoulder Surgery-Arthroscopic and

Open Procedures

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 (Excluding Partial Rotator Cuff Tears)	No No	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Shoulder without contrast (CPT® 73221) OR</li> <li>US Shoulder (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/ muscle tears.
Complete Rupture  – Tear of a Specific  Named Tendon	No	(CPT® 73221)	without contrast

Guidelines [MS-1.0]	)	ig is mulcated (as de	Schoed III <u>Scherar</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?)	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.)
	(Yes or No)		
Shoulder Labral Tear (e.g., SLAP, ALPSA, HAGL)	Yes	<ul> <li>MRI shoulder with contrast (arthrogram) (CPT® 73222) OR</li> <li>MRI shoulder without contrast (CPT® 73221) OR</li> <li>CT shoulder with contrast (arthrogram) (CPT® 73201)</li> </ul>	For surgery criteria, see: Shoulder Surgery- Arthroscopic and Open Procedures (CMM-315)

	-/		
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> <li>Individuals 40 years of age or younger with a first time dislocation, and in individuals with recurrent dislocations, conservative treatment not required:</li> <li>MRI Shoulder with contrast (arthrogram) (CPT® 73222) or</li> <li>MRI Shoulder without contrast (CPT® 73221)</li> <li>CT Shoulder with contrast (arthrogram) (CPT® 73201) or CT Shoulder without contrast (CPT® 73200) if MRI is contraindicated</li> </ul>	*Conservative treatment is required in individuals over age 40 with a first time dislocation.  For surgery criteria, see: Shoulder Surgery- Arthroscopic and Open Procedures (CMM-315)

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.)
Frozen Shoulder/ Adhesive Capsulitis	Yes	MRI Shoulder without contrast (CPT® 73221)	For surgery criteria, see: Manipulation Under Anesthesia (CMM-310) and Shoulder Surgery- Arthroscopic (CMM-315)
Avascular Necrosis (AVN) of the Humeral Head	No	• See: AVN (MS-4.	1)
Acromio-clavicular (AC) Separation	No	MRI Shoulder without contrast (CPT® 73221) to rule out possible rotator cuftear following AC separation	
Sterno-clavicular (SC) Dislocation	No	CT Chest without 71250) if posterio evident or suspec	r SC dislocation is

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 Shoulder Surgery for Impingement, Rotator Cuff Tear, and/or Labral Tear	Yes	<ul> <li>(CPT® 73221)</li> <li>MRI Shoulder (arthrogram) (continuous continuous carthrogram) (continuous carthrogram) (continuous carthrogram)</li> <li>US Shoulder (CP 76882) is also appropriate carthrogram car</li></ul>	without contrast OR with contrast CPT® 73222) T® 76881 or CPT® propriate in
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 also:  Osteoarthritis (MS-12)  For joint surgery criteria, see: Shoulder Arthroplasty/ Arthrodesis (CMM-318)

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 Shoulder (Glenohumeral) Replacement Surgery	No	<ul> <li>For suspected aseptic loosening or fracture as additional imaging following plain x-rays:</li> <li>CT Shoulder without contrast (CPT® 73200) OR</li> <li>MRI Shoulder without contrast (CPT® 73221) OR</li> <li>US Shoulder (CPT® 76881 or CPT® 76882)</li> <li>For suspected infection with negative or inconclusive joint aspiration culture:</li> <li>MRI Shoulder without contrast (CPT® 73321)</li> </ul>	See also:  Post-Operative Joint Replacement (MS-16)

# References (MS-19)

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# Elbow (MS-20)

## **Elbow (MS-20)**

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	- <b>/</b>		
Condition	Conservative	Advanced Imaging	Comments
(Individual's Condition)	(Is failure of 6 weeks advanced imaging		(Additional comments related to the condition.)
General Elbow Pain	Yes		<ul> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>
Symptomatic Loose Bodies	No		<ul> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>MRI Elbow with contrast (arthrogram) (CPT® 73222) OR</li> <li>CT Elbow without contrast (CPT® 73200) OR</li> <li>CT Elbow with contrast (CPT® 73200) OR</li> <li>CT Elbow with contrast (arthrogram) (CPT® 73201)</li> </ul>

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 <b>General Guidelines [MS-1.0]</b> )				
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.)	
Tendonitis	Yes		MRI Elbow without contrast (CPT® 73221) or US Elbow (CPT® 76881 or CPT® 76882)	
Bursitis	Yes		MRI Elbow     without and with     contrast (CPT®     73223) or MRI     Elbow without     contrast (CPT®	

73221) or US Elbow (CPT<sup>®</sup> 76881 or CPT<sup>®</sup>

76882)

provider, the following advanced imaging is indicated (as described in <u>General</u> <u>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:  MRI Elbow without		

After an initial plain x-ray has been obtained, and results are available to the

contrast (CPT® 73221)

US Elbow (CPT® 76881 or CPT®

76882)

OR

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 <a href="General-Buildenings">General-Buildenings</a> [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> <li>If plain x-rays are negative and an osteochondral fracture is still suspected:</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>MRI Elbow with contrast (arthrogram) (CPT® 73222) OR</li> <li>CT Elbow without contrast (CPT® 73200) OR</li> <li>CT Elbow with contrast (CPT® 73200) OR</li> <li>CT Elbow with contrast (arthrogram) (CPT® 73201)</li> </ul>

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 <b>General</b>
Guidelines [MS-1.0]

Salucinies [MO-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.)
Ruptured Biceps Insertion at Elbow	No		<ul> <li>When clinical exam is inconclusive or for preoperative planning:</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>
Ruptured Triceps Insertion at Elbow	No		<ul> <li>When clinical exam is inconclusive or for preoperative planning:</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>

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		<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>
Complete Rupture  – Tear of a Specific Named Tendon	No		<ul> <li>For preoperative planning:</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>

Condition	Conservative	Advanced Imaging	Comments
(Individual's Condition)	Treatment  (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?)  (Yes or No)	(The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	(Additional comments related to the condition.)
Trauma	No		When surgery is being considered:  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 <b>General</b>								
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.)
Ulnar Collateral Ligament (UCL) Tear	No		<ul> <li>Following acute or repetitive (including overhead throwing athletes) elbow trauma:</li> <li>MRI Elbow with contrast (arthrogram) (CPT® 73222) OR</li> <li>MRI Elbow without contrast (CPT® 73221) OR</li> <li>US Elbow (CPT® 76881 or CPT® 76882) OR</li> <li>CT Elbow with contrast (arthrogram) (CPT® 73201)</li> </ul>

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 <b>General Guidelines [MS-1.0]</b> )					
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 Nerve Abnormality	NA NA		This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See: Focal Neuropathy (PN-2) 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 <a href="General-Buildenings">General-Buildenings</a> [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	Yes		<ul> <li>CT Elbow without contrast (CPT® 73200) in symptomatic post-operative individuals following surgical treatment of complex fractures; OR</li> <li>MRI Elbow without contrast (CPT® 73221) in symptomatic post-operative individuals following soft-tissue surgery</li> </ul>
Preoperative Elbow Replacement Surgery	Yes		CT Elbow     without contrast     (CPT® 73200) for     preoperative     planning prior to     elbow     replacement     when congenital     or post-traumatic     deformities exist

provider, the following advanced imaging is indicated (as described in <u>General</u> <u>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> <li>For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic:</li> <li>CT Elbow without contrast (CPT® 73200)</li> <li>For suspected infection with negative or inconclusive joint aspiration culture</li> <li>MRI Elbow without contrast (CPT 73221) OR</li> <li>MRI Elbow without and with contrast (CPT® 73223) OR</li> <li>CT Elbow with contrast (CPT® 73201)</li> <li>US Elbow (CPT® 76881 or CPT® 76882)</li> </ul>		

After an initial plain x-ray has been obtained, and results are available to the

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# Wrist (MS-21)

## **Wrist (MS-21)**

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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> <li>MRI Wrist without contrast (CPT® 73221) OR</li> <li>US Wrist (CPT® 76881 or CPT® 76882)</li> </ul>	
Tendonitis	Yes	<ul> <li>MRI Wrist without 73221) OR</li> <li>US Wrist (CPT® 7</li> </ul>	contrast (CPT® 6881 or CPT® 76882)
Kienbock's Disease (Avascular Necrosis (AVN) of the Lunate)/ Preiser's Disease (Avascular Necrosis (AVN) of the Scaphoid)	No	See <u>AVN (MS-4.1)</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.)
Suspected Navicular/ Scaphoid Fracture	No	<ul> <li>When suspected based on history and physical exam:</li> <li>MRI Wrist without contrast (CPT® 73221) OR</li> <li>CT Wrist without contrast (CPT® 73200)</li> </ul>
Distal Radioulnar Joint (DRUJ) Instability	No	CT of both wrists without contrast (CPT® 73200) (should include wrists in supination and pronation)
Complex Distal Radius/ Ulna Fracture	No	CT Wrist without contrast (CPT® 73200)
Carpal Tunnel Syndrome/ Ulnar Tunnel Syndrome	NA	<ul> <li>This condition is imaged according to the criteria found in the Peripheral Nerve Disorder Guidelines. See <u>Focal</u> <u>Neuropathy (PN-2)</u> in the Peripheral Nerve Disorders Imaging Guidelines</li> </ul>

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 <a href="General-Buildenings">General-Buildenings</a> [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.)
Intrinsic Ligament (e.g. scapholunate)/ Triangular Fibrocartilage Complex (TFCC) Injuries	Yes	<ul> <li>MRI Wrist with core (CPT® 73222) OR</li> <li>CT Wrist with core (CPT® 73201)</li> </ul>	ntrast (arthrogram) trast (arthrogram)
Complete Rupture of a Specific Named Tendon Not Otherwise Specified	No	<ul> <li>For preoperative planning:</li> <li>MRI Wrist without contrast (CPT® 73221) OR</li> <li>US Wrist (CPT® 76881 or CPT® 76882)</li> </ul>	
Partial Tendon Rupture	No	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Wrist without contrast (CPT® 73221) OR</li> <li>US Wrist (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/muscle tears.

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	OR  MRI Wrist with co (CPT® 73222) in	matic individuals for d fractures and lius/ulna fractures; ntrast (arthrogram)
Preoperative Wrist Replacement Surgery	Yes	CT Wrist without contrast (CPT® 73200) for preoperative planning prior to wrist replacement when congenital or post-traumatic deformities exist	See: Osteoarthritis (MS-12)

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 <b>General Guidelines [MS-1.0]</b> )			
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> <li>For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic:</li> <li>CT Wrist without contrast (CPT® 73200)</li> <li>For suspected infection with negative or inconclusive joint aspiration culture:</li> <li>MRI Wrist without contrast (CPT® 73221) OR</li> <li>MRI Wrist without and with contrast (CPT® 73223) OR</li> <li>CT Wrist with contrast (CPT® 73201)</li> <li>US Wrist (CPT® 76881 or CPT® 76882)</li> </ul>	

### 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** <sup>®</sup> **code should be reported**.

# References (MS-21)

### References (MS-21)

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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> <li>MRI Hand or Finger without contrast (CPT® 73218) <b>OR</b></li> <li>US Hand (CPT® 76881 or CPT® 76882)</li> </ul>	
Tendonitis	Yes	<ul> <li>MRI Hand or Finger without contrast (CPT® 73218) OR</li> <li>US Hand or Finger (CPT® 76881 or CPT® 76882)</li> </ul>	
Occult Fracture	No	Advanced imaging guided by: <u>Suspected Occult/ Stress/</u> <u>Insufficiency Fracture/ Stress</u> <u>Reaction and Shin Splints (MS-5.2)</u>	
Complex Fracture	No	CT Hand or Finge (CPT® 73200) whe a complex fracture	en plain x-ray shows

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) Thumb Injury	No	If rule out for Stener lesion or complete tear of UCL of the thumb MCP joint:  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> <li>For preoperative preparation of the contrast (CPT)</li> <li>US Hand or Fice CPT 76882)</li> </ul>	inger without

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	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Hand or Finger without contrast (CPT® 73218)         OR     </li> <li>US Hand or Finger (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/muscle tears.
Post-Operative	Yes	for complex hand following soft-tissu	ng surgical treatment or finger fractures or ue surgery: nger without contrast <b>OR</b> Finger without

### 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 <sup>®</sup> code should be reported.

# References (MS-22)

### References (MS-22)

v1.0.2024

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## Pelvis (MS-23)

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## Pelvis (MS-23)

### Pelvis (MS-23)

MS.PE.0023.A

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Condition	Conservative	Advanced Imaging	Comments
(Individual's condition)	Treatment  (Is failure of 6 weeks of provider-directed conservative treatment within the past 12 weeks with clinical re-evaluation required?)  (Yes or No)	(The appropriate advanced imaging indicated for this condition. In some scenarios, advanced imaging may not be indicated.)	(Additional comments related to the condition.)
General Pain- Pelvis	Yes	<ul> <li>MRI Pelvis withou 72195) OR</li> <li>MRI RT and/or LT (CPT® 73721)</li> </ul>	it contrast (CPT®
Tendonitis	Yes	<ul> <li>MRI Pelvis without contrast (CPT® 72195) OR</li> <li>MRI RT and/or LT Hip without contrast (CPT® 73721)</li> </ul>	
Occult/ Insufficiency Fracture	No	MRI Pelvis     without contrast     (CPT® 72195)     OR     CT Pelvis     without contrast     (CPT® 72192)	See also:  Suspected Occult/ Stress/ Insufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2) for occult and stress fractures of the pelvis

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.)
Complex Fracture/ Dislocation - Pelvis, Sacrum and Acetabulum	No	CT Pelvis     without contrast     (CPT® 72192)	Additionally, 3D rendering may be appropriate for preoperative planning.  See: 3D Rendering (MS-3)
Sacro-iliac (SI) Joint Pain, Sacroiliitis, Coccydynia	Yes	Imaging Guide • Coccydynia v	) Joint Pain/ P-10.1) in the Spine elines vithout Neurological (5.2) in the Spine
Piriformis Syndrome	NA	the criteria found Nerve Disorder G Neuropathy (PN-	maged according to in the Peripheral uidelines. See: Focal 2) in the Peripheral maging Guidelines

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	MRI Pelvis     without contrast     (CPT® 72195) for     a suspected     partial tendon     rupture of a     specific named     tendon not     otherwise     specified	MRI is <i>NOT</i> needed for muscle belly strains/muscle tears.
Osteitis Pubis/ Symphysis Pubis Diastasis	Yes	MRI Pelvis withou 72195)	t contrast (CPT®
Athletic Pubalgia (Sports Hernia)	Yes	athletic pubalgia:  • MRI Pelvis wit (athletic pubal) 72195) <b>OR</b>	e cause of suspected hout contrast gia protocol) (CPT® c ultrasound (CPT®
Post-Operative	Yes	CT Pelvis without 72192) in symptom following surgery ring/acetabular fra	matic individuals for complex pelvic

# References (MS-23)

### References (MS-23)

v1.0.2024

- Bencardino JT, Stone TJ, Roberts CC, et. al. Expert Panel on Musculoskeletal Imaging. ACR
   Appropriateness Criteria® Stress (Fatigue/Insufficiency) Fracture, Including Sacrum, Excluding Other
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## Hip (MS-24)

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## Hip (MS-24)

### Hip (MS-24)

MS.HI.0024.C

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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> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>US Hip (CPT® 76881 or CPT® 76882)</li> </ul>
Symptomatic Loose Bodies	No	MRI Hip without contrast (CPT® 73721)
Tendonitis/ Bursitis	Yes	<ul> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>US Hip (CPT® 76881 or CPT® 76882)</li> </ul>
Hip Abductor Tendon Tear/ Avulsion	No	<ul> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>US Hip (CPT® 76881 or CPT® 76882)</li> </ul>
Complete Rupture  – Tear of a Specific  Named Tendon	No	<ul> <li>For preoperative planning:</li> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>US Hip (CPT® 76881 or CPT® 76882)</li> </ul>

Guidennes [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	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>US Hip (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/ muscle tears.
Occult/ Insufficiency Fracture	No	<ul> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>CT Hip without contrast (CPT® 73700)</li> </ul>	See also:  Suspected Occult/ Stress/ Insufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2) for occult and stress fractures of the hip
Avascular Necrosis (AVN) of the Femoral Head	No	• See: <u>AVN (MS-4.</u>	1)

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 <b>General Guidelines [MS-1.0]</b> )			
Condition		Advanced Imaging	Comments
(Individual's condition)	Treatment (Is failure of 6 weeks	(The appropriate advanced imaging	(Additional comments related to

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.)	(Additional comments related to the condition.)
Labral Tear	Yes	<ul> <li>MRI Hip with contrast (arthrogram) (CPT® 73722) OR</li> <li>CT Hip with contrast (arthrogram) (CPT® 73701) OR</li> <li>MRI Hip without contrast (CPT® 73721)</li> </ul>	For surgery criteria, see: Hip Surgery-Arthroscopic and Open Procedures (CMM-314)

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 <a href="General-Buildenings">General-Buildenings</a> [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.)
Femoroacetabular Impingement	Yes	For preoperative planning for femoroacetabula r impingement:         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: Hip Surgery-Arthroscopic and Open Procedures (CMM-314)
Piriformis Syndrome	NA	the criteria found i Nerve Disorder G <b>Neuropathy (PN</b> -	maged according to in the Peripheral uidelines. See <u>Focal</u> <b>2</b> ) in the Peripheral maging Guidelines

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> <li>(CPT® 73722)</li> <li>Symptomatic individual surgery for hip fra avascular necrosi</li> <li>CT Hip without 73700) OR</li> </ul>	tears and impingement: contrast (arthrogram) viduals following cture and/or hip
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: Osteoarthritis (MS-12) For surgery criteria, see: Hip Arthroplasty-Total and Partial (CMM- 313)

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 Hip Replacement Surgery	No*	<ul> <li>For suspected aseptic loosening of hip replacement when recent plain x-ray is nondiagnostic:</li> <li>CT Hip without contrast (CPT® 73700)</li> <li>For suspected infection with negative or inconclusive joint aspiration culture:</li> <li>MRI Hip without contrast (CPT® 73721) OR</li> <li>MRI Hip without and with contrast (CPT® 73723) OR</li> <li>CT Hip with contrast (CPT® 73723) OR</li> <li>CT Hip with contrast (CPT® 73701)</li> </ul>	See: Post- Operative Joint Replacement Surgery (MS-16) See: Post- Operative Joint Replacement Surgery (MS-16)

# References (MS-24)

### References (MS-24)

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## Knee (MS-25)

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## Knee (MS-25)

### **Knee (MS-25)**

MS.KN.0025.C

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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?)	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.)
	(Yes or No)		
General Knee Pain	Yes	<ul> <li>MRI Knee without contrast (CPT<sup>®</sup> 73721) OR</li> <li>US Knee (CPT<sup>®</sup> 76881 or CPT<sup>®</sup> 76882)</li> </ul>	
Symptomatic Loose Bodies	No	<ul> <li>MRI Knee without contrast (CPT® 73721)</li> <li>CT Knee with contrast (arthrogram) (CPT® 73701) if MRI cannot be performed</li> </ul>	
Tendonitis	Yes	<ul> <li>MRI Knee without contrast (CPT® 73721) OR</li> <li>US Knee (CPT® 76881 or CPT® 76882)</li> </ul>	
Complex Knee Fracture	No	<ul> <li>MRI Knee         without contrast         (CPT® 73721)         OR</li> <li>CT Knee without         contrast (CPT®         73700)</li> </ul>	See: Fractures (MS-5)

Guidennes [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.)	(Additional comments related to the condition.)
Meniscus Tear	Yes*	MRI Knee without contrast (CPT® 73721) CT Knee with contrast (arthrogram) (CPT® 73701) if MRI cannot be performed  *Conservative treatment is not required if at least 2 of following 4 criteria are met:  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  MRI Knee	For surgery criteria, see: Knee Surgery-Arthroscopic and Open Procedures (CMM-312)

•	provider, the following advanced imaging is indicated (as described in <u>General</u> <u>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?)	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.)	
	(Yes or No)			
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:  Anterior drawer  Lachman  Pivot shift	For surgery criteria, see: Knee Surgery-Arthroscopic and Open Procedures (CMM-312)	

Posterior drawer Posterior sag Valgus stress Varus stress

After an initial plain x-ray has been obtained, and results are available to the

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 Advanced imaging Conservative Comments **Treatment** (Additional (Individual's (The appropriate condition) (Is failure of 6 weeks advanced imaging comments related to of provider-directed indicated for this the condition.) conservative condition. In some treatment within the scenarios, advanced past 12 weeks with imaging may not be clinical re-evaluation indicated.) required?) (Yes or No) **Knee Joint** No Following significant trauma to **Dislocation** evaluate for ligament and vascular injury: 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** No For surgery criteria, MRI Knee Dislocation/ see: Knee Surgerywithout contrast **Subluxation** Arthroscopic and (CPT® 73721) or Open Procedures CT Knee without

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(CMM-312)

contrast (CPT® 73700) when there is an acute

knee injury, consideration of

surgery, AND concern for osteochondral fracture or loose osteochondral fracture fragment

**Patellofemoral** 

**Anterior Knee** 

Pain/ Tracking

Disorder

Pain Syndrome/

Yes

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 Advanced imaging Conservative Comments **Treatment** (Individual's (Additional (The appropriate condition) (Is failure of 6 weeks advanced imaging comments related to indicated for this of provider-directed the condition.) conservative condition. In some treatment within the scenarios, advanced past 12 weeks with imaging may not be clinical re-evaluation indicated.) required?) (Yes or No) **Recurrent Patellar** Yes For surgery criteria, MRI Knee see: Knee Surgery-Instability without contrast Arthroscopic and (CPT® 73721) or Open Procedures CT Knee without (CMM-312) contrast (CPT® 73700) if

consideration for

MRI Knee without contrast (CPT®

(CPT® 73700) if consideration for

73721) or CT Knee without contrast

surgery

surgery

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> <li>If plain x-rays are negative and an osteochondral fracture is still suspected:</li> <li>MRI Knee without contrast (CPT® 73721) OR</li> <li>MRI Knee with contrast (arthrogram) (CPT® 73722) OR</li> <li>CT Knee with contrast (arthrogram) (CPT® 73701)</li> </ul>	See:  Chondral/ Osteochondral Lesions (MS-13) for other osteochondral injury scenarios.  For surgery criteria, see:  Knee Surgery- Arthroscopic and Open Procedures (CMM-312)
Avascular Necrosis (AVN) of the Distal Femur	No	• See: <u>AVN (MS-4.</u>	1)

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.)
Baker's Cyst (Popliteal Cyst)	Yes	<ul> <li>US Knee (CPT® 76881 or CPT® 76882) is the initial imaging study</li> <li>MRI Knee without contrast (CPT® 73721) for preoperative planning</li> </ul>	See also:  Acute Limb Swelling (PVD-12) in the Peripheral Vascular Disease Imaging Guidelines
Plica (Symptomatic Synovial Plica/ Medial Synovial Shelf)	Yes	MRI Knee without contrast (CPT® 73721)	
Hemarthrosis	No	ligament tear (req objective sign for a patellar dislocation apprehension sign  CT Knee without of	suspicion of cruciate uires a positive ACL/PCL tear) or n (requires a positive n) contrast (CPT® suspicion of non-

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 of the Distal Quadriceps Tendon or Patellar Ligament/ Tendon	No	73721) OR	olanning: out contrast (CPT® -® 76881 or CPT®
Partial Tendon Rupture	No	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Knee without contrast (CPT® 73721) OR</li> <li>US Knee (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/ muscle tears.
Complete Rupture  – Tear of a Specific  Named Tendon	No	73721) OR	olanning: lout contrast (CPT® -® 76881 or CPT®

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	surgery for menisoreconstruction of the ligament:  • MRI Knee with (arthrogram) (000 • MRI Knee with 73721)  • In symptomatic insurgery for fracture	the anterior cruciate  n contrast CPT® 73722) OR nout contrast (CPT®  dividuals following
Preoperative Knee Replacement Surgery	Yes	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	See: Osteoarthritis (MS-12) For surgery criteria, see: Knee Arthroplasty-Total and Partial (CMM-311)

Joint F	onal ents related to ndition.)
negative or inconclusive joint aspiration culture:  • MRI Knee without contrast (CPT® 73721) OR  • MRI Knee without and with contrast (CPT® 73723) OR  • CT Knee with	SO:  Dperative Replacement ry (MS-16)

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### References (MS-25)

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## Ankle (MS-26)

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## Ankle (MS-26)

### Ankle (MS-26)

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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> <li>MRI Ankle without 73721) OR</li> <li>US Ankle (CPT® 7 76882)</li> </ul>	
Symptomatic Loose Bodies	No	MRI Ankle without contrast (CPT® 73721)	
Complex Fracture	No	<ul> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>CT Ankle without contrast (CPT® 73700)</li> </ul>	
Ankle Sprain, Including Avulsion Fracture	Yes	<ul> <li>MRI Ankle Without Contrast (CPT® 73721) OR</li> <li>CT Ankle without contrast (CPT® 73700)</li> </ul>	
High Ankle Sprain (Syndesmosis Injury)	No	<ul> <li>MRI Ankle without 73721) OR</li> <li>CT Ankle without 73700)</li> </ul>	·

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> <li>If plain x-rays are negative and an osteochondral fracture is still suspected, ONE of the following:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>CT Ankle without contrast (CPT® 73700)</li> </ul>	See:  Chondral/ Osteochondral Lesions (MS-13) for other osteochondral injury scenarios
Avascular Necrosis (AVN) of the Talus	No	• See: <u>AVN (MS-4.</u>	1)
Anterior Impingement  Anterior-Lateral Impingement  Posterior Impingement (e.g., Os Trigonum Syndrome)	Yes	<ul> <li>MRI Ankle with contrast (arthrogram) (CPT® 73722) OR</li> <li>CT Ankle with contrast (arthrogram) (CPT® 73701) OR</li> <li>MRI Ankle without contrast (CPT® 73721)</li> </ul>	

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.)
Tendonitis	Yes	73721) OR	neal tendon or
Complete Rupture of Achilles Tendon	No	<ul> <li>For preoperative evaluation:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>US Ankle (CPT® 76881 or CPT® 76882)</li> </ul>	
Complete Rupture -Tear of a Specific Named Tendon	No	73721) OR	olanning: nout contrast (CPT <sup>®</sup> Γ <sup>®</sup> 76881 or CPT <sup>®</sup>

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	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>US Ankle (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/ muscle tears.
Instability	Yes	<ul> <li>For preoperative evaluation:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>MRI Ankle with contrast (arthrogram) (CPT® 73722)</li> </ul>	
Charcot Ankle	Yes	MRI Ankle without 73721)	t contrast (CPT®

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	surgery for ligame one of the followir  • MRI Ankle with 73721) OR  • US Ankle (CP-76882)  • For symptomatic is surgery for complete.	nout contrast (CPT <sup>®</sup> Γ <sup>®</sup> 76881 or CPT <sup>®</sup> ndividuals following
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: Osteoarthritis (MS-12)

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> <li>For suspected aseptic loosening or periprosthetic fracture when recent plain x-ray is nondiagnostic:</li> <li>CT Ankle without contrast (CPT® 73700)</li> <li>For suspected infection with negative or inconclusive joint aspiration culture:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>MRI Ankle without and with contrast (CPT® 73723) OR</li> <li>CT Ankle with contrast (CPT® 73723) OR</li> <li>CT Ankle with contrast (CPT® 73701) OR</li> </ul>	See: Post-Operative Joint Replacement Surgery (MS-16)

### 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 <sup>®</sup> code should be reported.

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### **Foot (MS-27)**

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<u>Salasimos (m.s. 1.6)</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.)
General Foot Pain	Yes	• MRI Foot without 73718)	contrast (CPT®
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	<ul> <li>MRI Foot without contrast (CPT<sup>®</sup> 73718) <b>OR</b></li> <li>CT Foot without contrast (CPT<sup>®</sup> 73700)</li> </ul>	
Lisfranc Tarsometatarsal Fracture or Dislocation	No	<ul> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>CT Foot without contrast (CPT® 73700</li> </ul>	
Tarsal Navicular Stress/Occult Fracture	No	<ul> <li>MRI Foot without contrast (CPT® 73718)</li> <li>CT Foot without contrast (CPT® 73700) for follow-up of healing fractures</li> </ul>	See also:  Suspected Occult/ Stress/ In- sufficiency Fracture/ Stress Reaction and Shin Splints (MS-5.2)

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 <b>General Guidelines [MS-1.01</b> )			
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 Tarsal Navicular (Kohler Disease) or Metatarsal Head (Frieberg's Infraction)	No	• See: AVN (MS-4.	1)
Tendonitis	Yes	<ul> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul>	
Complete Rupture  – Tear of a Specific  Named Tendon	No	<ul> <li>For preoperative planning:</li> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>US Foot (CPT® 76881 or CPT®</li> </ul>	

76882)

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	<ul> <li>For a suspected partial tendon rupture of a specific named tendon not otherwise specified:</li> <li>MRI Foot without contrast (CPT® 73718)         OR     </li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul>	MRI is NOT needed for muscle belly strains/muscle tears.
Morton's Neuroma	Yes	<ul> <li>For preoperative planning:</li> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>MRI Foot without and with contrast (CPT® 73720) OR</li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul>	

Tear

provider, the following advanced imaging is indicated (as described in <u>General</u> <u>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*	<ul> <li>For preoperative planning:</li> <li>MRI Foot without contrast (CPT® 73718)</li> <li>OR</li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul>	*Provider-directed conservative treatment must be for 6 months or more.
Suspected Plantar Fascia Rupture or	Yes	MRI Foot without 73718) <b>OR</b>	contrast (CPT®

After an initial plain x-ray has been obtained, and results are available to the

US Foot (CPT® 76881 or CPT® 76882)

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> <li>For suspected osteomyelitis or soft tissue infection as a complement to plain x-ray (both plain x-ray and MRI are indicated):</li> <li>MRI Foot without and with contrast (CPT® 73720) OR</li> <li>MRI Foot without contrast (CPT® 73718)</li> </ul>	See also: Infection-General (MS 9.1)
Tarsal Tunnel Syndrome including Baxter's Neuropathy	Yes	<ul> <li>For preoperative planning if mass/lesion is suspected as etiology of entrapment:</li> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul>	

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.)
Tarsal Coalition	Yes	<ul> <li>For preoperative planning:</li> <li>MRI Ankle without contrast (CPT® 73721) OR</li> <li>CT Ankle without contrast (CPT® 73700)</li> </ul>	
Sinus Tarsi Syndrome	Yes	MRI Ankle without contrast (CPT® 73721) if diagnosis is unclear or for preoperative evaluation	
Charcot Foot	Yes	<ul> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>MRI Foot without and with contrast (CPT® 73720)</li> </ul>	
CRPS Type I	Yes	<ul> <li>Triple phase bone OR</li> <li>MRI Foot without 73718)</li> </ul>	e scan (CPT® 78315) contrast (CPT®

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> <li>In symptomatic individuals following surgery for conditions including the tendons, ligaments, and plantar plate ONE of the following:         <ul> <li>MRI Foot without contrast (CPT® 73718) OR</li> <li>US Foot (CPT® 76881 or CPT® 76882)</li> </ul> </li> <li>In symptomatic individuals following surgery for complex fractures, sesamoid fractures, and subtalar arthrodesis:         <ul> <li>CT Foot without contrast (CPT® 73700)</li> </ul> </li> </ul>	

After an initial plain x-ray has been obtained, and results are available to the

### 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 <sup>®</sup> code should be reported.

# References (MS-27)

### References (MS-27)

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