

**Medical Review Guidelines  
Magnetic Resonance Imaging  
Upper and Lower Extremities**

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**Medical Guideline Number: MRG2005-02**

**Effective Date: 5/18/2005**

**Revised Effective Date: 1/1/2008**

**OHCA Reference OAC 317:30-5-24.** Radiology. (f) *Magnetic Resonance Imaging. MRI /MRA scans are covered when medically necessary. Documentation in the progress notes must reflect medical necessity for the MRI.*

**Description:**

MRI is a noninvasive diagnostic scanning technique of representing the distribution of water and other hydrogen-rich molecules in the body in the absence of ionizing radiation and in the presence of a powerful, highly uniform, static magnetic field.

**HCPCS CODES**

73218	MRI upper extremity
73219	MRI upper extremity with contrast
73220	MRI upper extremity with and without contrast
73718	MRI lower extremity
73719	MRI lower extremity with contrast
73720	MRI lower extremity with and without contrast

**COVERED ICD-9 CODES**

003.24	Salmonella Osteomyelitis
170.4	Malignant neoplasm of scapula and long bones of upper limb
170.5	Malignant neoplasm of short bones of upper limb
170.7	Malignant neoplasm of long bones of lower limb
170.8	Malignant neoplasm of short bones of lower limb
171.2	Malignant neoplasm of upper limb, including shoulder
171.3	Malignant neoplasm of lower limb, including hip
171.6	Malignant neoplasm of pelvis
195.4	Malignant neoplasm of upper limb
195.5	Malignant neoplasm of lower limb
198.5	Secondary malignant neoplasm of bone and bone marrow
200.04	Reticulosarcoma - lymph nodes of axilla and upper limb
200.05	lymph nodes of inguinal region and lower limb
200.06	intrapelvic lymph nodes
200.14	Lymphosarcoma - lymph nodes of axilla and upper limb
200.15	lymph nodes of inguinal region and lower limb
200.16	intrapelvic lymph nodes
200.24	Burkitt's tumor or lymphoma - lymph nodes of axilla and upper limb
200.25	lymph nodes of inguinal region and lower limb
200.26	intrapelvic lymph nodes
200.84	Lymphosarcoma and reticulosarcoma, other named variants - lymph nodes of axilla and upper limb
200.85	lymph nodes of inguinal region and lower limb
200.86	intrapelvic lymph nodes
201.04	Hodgkin's paragranuloma - lymph nodes of axilla and upper limb

201.05	lymph nodes of inguinal region and lower limb
201.06	intrapelvic lymph nodes
201.14	Hodgkin's granuloma - lymph nodes of axilla and upper limb
201.15	lymph nodes of inguinal region and lower limb
201.16	intrapelvic lymph nodes
201.24	Hodgkin's sarcoma - lymph nodes of axilla and upper limb
201.25	lymph nodes of inguinal region and lower limb
201.26	intrapelvic lymph nodes
201.44	Hodgkin's-Lymphocytic-histiocytic predominance - lymph nodes of axilla and upper limb
201.45	lymph nodes of inguinal region and lower limb
201.46	intrapelvic lymph nodes
201.54	Hodgkin's - Nodular sclerosis - lymph nodes of axilla and upper limb
201.55	lymph nodes of inguinal region and lower limb
201.56	intrapelvic lymph nodes
201.64	Hodgkin's - Mixed cellularity - lymph nodes of axilla and upper limb
201.65	lymph nodes of inguinal region and lower limb
201.66	intrapelvic lymph nodes
201.74	Hodgkin's - Lymphocytic depletion - lymph nodes of axilla and upper limb
201.75	lymph nodes of inguinal region and lower limb
201.76	intrapelvic lymph nodes
202.04	Nodular lymphoma - lymph nodes of axilla and upper limb
202.05	lymph nodes of inguinal region and lower limb
202.06	intrapelvic lymph nodes
202.14	Mycosis fungoides - lymph nodes of axilla and upper limb
202.15	lymph nodes of inguinal region and lower limb
202.16	intrapelvic lymph nodes
202.24	Sezary's disease - lymph nodes of axilla and upper limb
202.25	lymph nodes of inguinal region and lower limb
202.26	intrapelvic lymph nodes
202.34	Malignant histiocytosis - lymph nodes of axilla and upper limb
202.35	lymph nodes of inguinal region and lower limb
202.36	intrapelvic lymph nodes
202.44	Leukemic reticuloendotheliosis - lymph nodes of axilla and upper limb
202.45	lymph nodes of inguinal region and lower limb
202.46	intrapelvic lymph nodes
202.64	Malignant mast cell tumors - lymph nodes of axilla and upper limb
202.65	lymph nodes of inguinal region and lower limb
202.66	intrapelvic lymph nodes
353.0	Brachial plexus lesions
353.1	Nerve root and plexus disorders, lumbosacral plexus lesions
441.4	Abdominal aneurysm, without mention of rupture
444.21	Arterial embolism and thrombosis, upper extremity
445.01	Artheroembolism of upper extremity
716.05	Kaschin-Beck disease, pelvic region and thigh
716.06	Kaschin-Beck disease, lower leg
716.07	Kaschin-Beck disease, ankle and foot
717.1	Derangement of anterior horn of medial meniscus
717.2	Derangement of posterior horn of medial meniscus
717.40	Derangement of lateral meniscus, unspecified
717.41	Bucket handle tear of lateral meniscus
717.42	Derangement of anterior horn of lateral meniscus

717.43	Derangement of posterior horn of lateral meniscus
717.5	Derangement of meniscus, not elsewhere classified
717.6	Loose body in knee
718.11	Loose body in joint, shoulder region
718.12	Loose body in joint, upper arm
718.13	Loose body in joint, forearm
718.14	Loose body in joint, hand
718.15	Loose body in joint, pelvic region and thigh
718.17	Loose body in joint, ankle and foot
718.21	Pathological dislocation, shoulder region
718.22	Pathological dislocation, upper arm
718.23	Pathological dislocation, forearm
718.24	Pathological dislocation, hand
718.25	Pathological dislocation, pelvic region and thigh
718.26	Pathological dislocation, lower leg
718.27	Pathological dislocation, ankle and foot
718.31	Recurrent dislocation of joint, shoulder region
718.32	Recurrent dislocation of joint, upper arm
718.33	Recurrent dislocation of joint, forearm
718.34	Recurrent dislocation of joint, hand
718.35	Recurrent dislocation of joint, pelvic region and thigh
718.36	Recurrent dislocation of joint, lower leg
718.37	Recurrent dislocation of joint, ankle and foot
718.41	Contracture of joint, shoulder region
718.42	Contracture of joint, upper arm
718.43	Contracture of joint, forearm
719.11	Hemarthrosis, shoulder region
719.12	Hemarthrosis, upper arm
719.13	Hemarthrosis, forearm
719.14	Hemarthrosis, hand
719.15	Hemarthrosis, pelvic region and thigh
719.17	Hemarthrosis, ankle and foot
719.21	Villondular synovitis, shoulder region
719.22	Villondular synovitis, upper arm
719.23	Villondular synovitis, forearm
719.24	Villondular synovitis, hand
719.25	Villondular synovitis, pelvic region and thigh
719.26	Villondular synovitis, lower leg
719.27	Villondular synovitis, ankle and foot
726.11	Calcifying tendinitis of shoulder
726.4	Enthesopathy of wrist and carpus
726.5	Enthesopathy of hip region
727.02	Giant cell tumor of tendon sheath
727.61	Complete rupture of rotator cuff
727.62	Nontraumatic rupture of tendons of biceps (long head)
727.63	Nontraumatic rupture of extensor tendons of hand and wrist
727.64	Nontraumatic rupture of flexor tendons of hand and wrist
727.65	Nontraumatic rupture of quadriceps tendon
727.66	Nontraumatic rupture of patellar tendon
727.67	Nontraumatic rupture of achilles tendon
728.11	Progressive myositis ossificans

728.12	Traumatic myositis ossificans
728.83	Rupture of muscle, nontraumatic
728.86	Necrotizing fasciitis
729.6	Residual foreign body in soft tissue
730.01	Acute osteomyelitis, shoulder region
730.02	Acute osteomyelitis, upper arm
730.03	Acute osteomyelitis, forearm
730.04	Acute osteomyelitis, hand
730.05	Acute osteomyelitis, pelvic region and thigh
730.06	Acute osteomyelitis, lower limb
730.07	Acute osteomyelitis, ankle and foot
730.11	Chronic osteomyelitis, shoulder region
730.12	Chronic osteomyelitis, upper arm
730.13	Chronic osteomyelitis, forearm
730.14	Chronic osteomyelitis, hand
730.15	Chronic osteomyelitis, pelvic region and thigh
730.16	Chronic osteomyelitis, lower leg
730.17	Chronic osteomyelitis, ankle and foot
730.31	Periostitis without mention of osteomyelitis, shoulder region
730.32	Periostitis without mention of osteomyelitis, upper arm
730.33	Periostitis without mention of osteomyelitis, forearm
730.34	Periostitis without mention of osteomyelitis, hand
730.35	Periostitis without mention of osteomyelitis, pelvic region and thigh
730.36	Periostitis without mention of osteomyelitis, lower leg
730.37	Periostitis without mention of osteomyelitis, ankle and foot
730.75	Osteopathy resulting from poliomyelitis, pelvic region and thigh
730.76	Osteopathy resulting from poliomyelitis, lower leg
730.77	Osteopathy resulting from poliomyelitis, ankle and foot
731.0	Osteitis deformans without mention of bone tumor
732.1	Juvenile osteochondrosis of hip and pelvis
732.2	Nontraumatic slipped upper femoral epiphysis
732.3	Juvenile osteochondrosis of upper extremity
732.4	Juvenile osteochondrosis of lower extremity, excluding foot
732.5	Juvenile osteochondrosis of foot
732.7	Osteochondrosis dissecans
733.11	Pathologic fracture of humerus
733.12	Pathologic fracture of distal radius and ulna
733.14	Pathologic fracture of neck of femur
733.15	Pathologic fracture of other specified part of femur
733.16	Pathologic fracture of tibia or fibula
733.19	Pathologic fracture of other specified site
733.41	Aseptic necrosis of bone, head of humerus
733.42	Aseptic necrosis of bone, head and neck of femur
733.43	Aseptic necrosis of bone, medial femoral condyle
733.44	Aseptic necrosis of bone, talus
733.5	Osteitis condensans
733.7	Algoneurodystrophy
733.81	Malunion of fracture
733.82	Nonunion of fracture
755.25	Longitudinal deficiency, radioulnar, complete or partial (with or without distal deficiencies, incomplete)

755.26	Longitudinal deficiency, radial, complete or partial (with or without distal deficiencies, incomplete)
755.27	Longitudinal deficiency, ulnar, complete or partial (with or without distal deficiencies, incomplete)
755.28	Longitudinal deficiency, carpals or metacarpals, complete or partial (w/wo incomplete phalangeal deficiency)
755.29	Longitudinal deficiency, phalanges, complete or partial
755.33	Longitudinal deficiency, combined, involving femur, tibia and fibula (complete or incomplete)
755.34	Longitudinal deficiency, femoral, complete or partial (with or without distal deficiencies, incomplete)
755.35	Longitudinal deficiency, tibiofibular, complete or partial (with or without distal deficiencies, incomplete)
755.36	Longitudinal deficiency, tibia, complete or partial (with or without distal deficiencies, incomplete)
755.37	Longitudinal deficiency, fibular, complete or partial (with or without distal deficiencies, incomplete)
755.38	Longitudinal deficiency, tarsals or metatarsals , complete or partial (w/wo incomplete phalangeal deficiency)
755.39	Longitudinal deficiency, phalanges, complete or partial
755.51	Congenital deformity of clavicle
755.52	Congenital elevation of scapula
755.53	Radioulnar synostosis
755.54	Madelung's deformity
755.55	Acrocephalosyndactyly
755.56	Accessory carpal bones
755.57	Macrodactylia (fingers)
755.58	Cleft hand, congenital
755.61	Coxa valga, congenital
755.62	Coxa vara, congenital
755.64	Congenital deformity of knee (joint)
755.65	Macroductylia of toes
831.01	Closed dislocation of shoulder, anterior dislocation of humerus
831.02	Closed dislocation of shoulder, posterior dislocation of humerus
831.03	Closed dislocation of shoulder, inferior dislocation of humerus
831.04	Closed dislocation of shoulder, acromioclavicular (joint)
831.11	Open dislocation of shoulder, anterior dislocation of humerus
831.12	Open dislocation of shoulder, posterior dislocation of humerus
831.13	Open dislocation of shoulder, inferior dislocation of humerus
831.14	Open dislocation of shoulder, acromioclavicular (joint)
832.01	Closed dislocation of elbow, anterior
832.02	Closed dislocation of elbow, posterior
832.03	Closed dislocation of elbow, medial
832.04	Closed dislocation of elbow, lateral
832.11	Open dislocation of elbow, anterior
832.12	Open dislocation of elbow, posterior
832.13	Open dislocation of elbow, medial
832.14	Open dislocation of elbow, lateral
833.01	Closed dislocation of wrist, radioulnar (joint), distal
833.02	Closed dislocation of wrist, radiocarpal (joint)
833.03	Closed dislocation of wrist, midcarpal (joint)
833.04	Closed dislocation of wrist, carpometacarpal (joint)
833.05	Closed dislocation of wrist, metacarpal (bone), proximal end
833.11	Open dislocation of wrist, radioulnar (joint), distal
833.12	Open dislocation of wrist, radiocarpal (joint)

833.13	Open dislocation of wrist, midcarpal (joint)
833.14	Open dislocation of wrist, carpometacarpal (joint)
833.15	Open dislocation of wrist, metacarpal (bone), proximal end
834.01	Closed dislocation of finger, metacarpophalangeal (joint)
834.02	Closed dislocation of finger, interphalangeal (joint), hand
834.11	Open dislocation of finger, metacarpophalangeal (joint)
834.12	Open dislocation of finger, interphalangeal (joint), hand
835.01	Closed dislocation of hip, posterior
835.02	Closed dislocation of hip, obtruator
835.03	Closed dislocation of hip, other anterior
835.11	Open dislocation of hip, posterior
835.12	Open dislocation of hip, obtruator
835.13	Open dislocation of hip, other anterior
836.0	Tear of medial cartilage or meniscus of knee, current
836.1	Tear of lateral cartilage or meniscus of knee, current
836.2	Other tear of cartilage or meniscus of knee, current
836.3	Dislocation of patella, closed
836.4	Dislocation of patella, open
836.51	Other dislocation of knee, closed, anterior dislocation of tibia, proximal end
836.52	Other dislocation of knee, closed, posterior dislocation of tibia, proximal end
836.53	Other dislocation of knee, closed, medial dislocation of tibia, proximal end
836.54	Other dislocation of knee, closed, lateral dislocation of tibia, proximal end
836.61	Other dislocation of knee, open, anterior dislocation of tibia, proximal end
836.62	Other dislocation of knee, open, posterior dislocation of tibia, proximal end
836.63	Other dislocation of knee, open, medial dislocation of tibia, proximal end
836.64	Other dislocation of knee, open, lateral dislocation of tibia, proximal end
837.0	Dislocation of ankle, closed
837.1	Dislocation of ankle, open
838.02	Closed dislocation of foot, midtarsal (joint)
838.03	Closed dislocation of foot, tarsometatarsal (joint)
838.05	Closed dislocation of foot, metatarsophangeal (joint)
838.06	Closed dislocation of foot, interphalangeal (joint), foot
838.12	Open dislocation of foot, midtarsal (joint)
838.13	Open dislocation of foot, tarsometatarsal (joint)
838.15	Open dislocation of foot, metatarsophangeal (joint)
838.16	Open dislocation of foot, interphalangeal (joint), foot
996.91	Complications of reattached extremity or body part, forearm
996.92	Complications of reattached extremity or body part, hand
996.93	Complications of reattached extremity or body part, finger(s)
996.95	Complications of reattached extremity or body part, foot and toe(s)

**Contraindications:**

1. Patients with cardiac pacemakers or metallic clips on vascular aneurysms or other metallic implants.
2. Patients requiring life support systems and monitoring devices which employ Ferro magnetic materials (metal that could be magnetized).
3. Patients who have claustrophobia.
4. Patients who have ferrous ocular foreign bodies, imbedded shrapnel fragments or cochlear implants.

**Coding Guidelines:**

Diagnosis codes other than those listed above will require review for medical necessity and prior authorization .

### **Documentation Requirements**

The ordering physician is responsible for certifying the medical necessity of the procedure. The physician must have documentation in the medical record to support the referral.

Documentation in the progress notes must reflect medical necessity for the MRI.

Medical records can be used in any post-payment review and must include the information necessary to substantiate the need for the procedure.