

MRI REFERENCE CHART: What to Order and How



Clinical Indications	MR Arthrogram	Without IV Contrast	With & Without IV Contrast	What to Order	Optima MR450w 1.5T MRI Scanner
MRI TMJ					
TMJ, clicking/popping, TMJ joint		✓		MRI TMJ Bilateral Without Contrast	✓
MRI EXTREMITIES					
Osteomyelitis for ANY Extremity; Spine or General Infection			✓	MRI (indicate area of interest) With AND Without Contrast	✓
Soft Tissue Mass of any Extremity or Join			✓	MRI (indicate area of interest) With AND Without Contrast	✓
UPPER EXTREMITIES – JOINTS: (Shoulder/ Elbow/ Wrist/ Hand/ Fingers)					
Evaluate Injury, Ligament Tear, Occult Fracture or Pain of Shoulder, Elbow, Wrist, Hand or Fingers		✓		MRI (indicate area of interest: Shoulder, Elbow, Wrist, Hand or Fingers) Without Contrast	✓
Slap Lesion, Labral Tear, TFCC Tear, Shoulder Instability	✓			MR Arthrogram* (indicate area of interest)	✓
UPPER EXTREMITIES – SOFT TISSUE					
Pain of Humerus or Forearm		✓		MRI (indicate area of interest: Humerus or Forearm) Without Contrast	✓
Palpable Mass, Ganglian Cyst, Neuroma, Tumor			✓	MRI (indicate area of interest) With AND Without Contrast	✓
LOWER EXTREMITIES/JOINTS: (Hip/ Knee/ Ankle/ foot/ toes)					
Evaluate for Meniscal Injury, Ligament Tear, Occult Fracture or Pain of Hip, Knee, Ankle, Foot or Toes		✓		MRI (indicate area of interest: Hip, Knee, Ankle, Foot or Toes) With Contrast	✓
Hip Labral Tear	✓			MR Arthrogram* (indicate area of interest)	✓
LOWER EXTREMITIES – SOFT TISSUE EXAMS: Femur/ Tibia/ Fibula/ Calf					
Pain of Femur/ Tibia/ Fibula/ Calf		✓		MRI (indicate area of interest: Femur/ Tibia/ Fibula/ Calf) Without Contrast	✓
Palpable Mass, Ganglian Cyst, Neuroma, Tumor			✓	MRI (indicate area of interest) With AND Without Contrast	✓

*If Contrast is specifically requested by the physician, this contrast will be administered Intraarticularly (a needle is guided into the joint and contrast is injected into the joint.) This will require the patient to have a fluoroscopy study first during which the injection will take place, followed by an MRI of the area in question.

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Clinical Indications	Without IV Contrast	With and Without IV Contrast	What to Order	450w*
MRI BRAIN				
Vertigo, Dementia, Memory Loss, MS, Seizures, Strokes, Weakness, HA, TIA	✓		MRI Brain without Contrast	✓
R/O Tumor, History of CA, Bell's Palsy, Epilepsy		✓	MRI Brain with and without Contrast	✓
MRI IACS				
R/O Acoustic Neuroma	✓		MRI Brain & IAC's both with and without Contrast	✓
Hearing Loss, History of Vertigo, Tinnitus		✓	MRI Brain & IAC's both with and without Contrast	✓
MRI PITUITARY				
R/O Pituitary Adenoma, Tumour, Abnormal Prolactin, Galactorrhea, Amenorrhea		✓	MRI Brain and Pituitary both with and without Contrast	✓
MRI ORBITS				
History of Visual Disturbances, Proptosis, Optic Nerve		✓	MRI Brain and Orbits both with and without Contrast	✓
MRI SOFT TISSUE NECK				
Soft Tissue Neck Mass		✓	MRI Base of Skull to Neck Mass	✓
MRA EXAMS – NEURO				
MRA BRAIN				
For Circle of Willis (COW): R/O or History of Aneurysm, History of TIA's	✓		MRI Head and COW	✓
Venous study (MRV) Brain	✓		MRV (usually ordered with MRI Brain)	✓
MRA NECK				
Carotid Bifurcation only	✓		MRA Neck without Contrast	✓
R/O or History of Aneurysm, Vertigo, Bilateral Blood pressure Differences, History of Carotid Stenosis, History of TIS's, Aortic Arch Eval, Vertebral Stroke, Subclavian Steal, Abnormal Ultrasound		✓	MRA Neck with and without Contrast	✓
SPINE				
MRI SPINE				
Cervical Spine: Neck Pain, Radiculopathy, Previous surgery within last 5 years	✓		MRI C-Spine without Contrast	✓
Cervical Spine: Myelopathy, MS, Spinal Tumor, Infection, Syrinx		✓	MRI C-Spine with & without Contrast	✓
Thoracic Spine: Mid-Back Pain, Radiculopathy	✓		MRI T-Spine without Contrast	✓
Thoracic Spine: Myelopathy, MS, Spinal tumor, Infection, Syrinx, Previous surgery within last 5 years		✓	MRI T-Spine with & without Contrast	✓
Lumbar Spine: Low-Back Pain, Radiculopathy	✓		MRI L-Spine without Contrast	✓
Lumbar Spine: Myelopathy, MS, Spinal tumor, Infection, Syrinx, Post-op Spinal Surgery, Bowel & Bladder Dysfunction		✓	MRI L-Spine with & without Contrast	✓

*450w= Optima MR450w 1.5T MRI Scanner
 Ortho Exams On Reverse.

**Exams may vary depending on patients' history.

Clinical Indications	Without IV Contrast	With and Without IV Contrast	What to Order	450w*
BODY				
MRI CHEST				
Evaluate Mass or Pain, Rib Cartilage, Diaphragm		✓	MRI Chest with and without Contrast	✓
MRI BRAHIAL PLEXUS				
Brachial Plexus Neropathy		✓	MRI Brachial Plexus with & without Contrast	✓
BONEY CHEST				
AC Joint Pain, SC Joint Pain, Sternum, Scalpula	✓		MRI (Indicate area of interest) without Contrast	✓
MRI ABDOMEN				
Tumor, Liver or Pancreas Evaluation		✓	MRI Liver with and without Contrast	✓
Bile Duct and Pancreatic Duct Evaluation, R/O Stone, or Obstruction	✓		MRCP without Contrast (usually done with MRI Liver)	✓
Liver Pancreas, Kidney (Renals)		✓	MRI Abdomen with and without Contrast	✓
MRI PELVIS				
Pelvic pain, Mass, Surgical planning		✓	MRI Pelvis with and without Contrast	✓
Pelvic pain, Mass, Surgical planning, Gyn Abnormalitis		✓	MRI Pelvis Gyn with and without Contrast	✓
MSK PELVIS				
Sacral Fracture, Coccyx fracture, SI Joint Pain, Muscle Strain	✓		MRI Pelvis without Contrast	✓
MRI RENAL				
R/O Renal Tumor, Kidney Tumor or Mass		✓	MRI Renal with and without Contrast	✓
MRA EXAMS – BODY				
MRA RENAL				
Renal Artery Hypertnetion		✓	MRA Renal with and without Contrast	✓
MRI MAMMOGRAPHY (BREAST)				
MRI (BREAST)				
History of Breast Cancer, Abnomal Diagonotic Mammogram, Abnormal Diagnosits Ultrasound (Requires recent mammography study)		✓	MRI Breast with AND without Contrast (call to discuss with Radiologist, if necessary)	✓

Questions? Call and ask to speak to a radiologist.

403.777.4MRI (4674) or toll-free 1.877.4CT.4MRI www.mayfairdiagnostics.com