

MRI & CT

INDICATION GUIDELINES

COMPLIMENTS OF PREMIER RADIOLOGY

Premier
Radiology



Saint Thomas
Health

www.PremierRadiology.com

{TOP 20} PREMIER RADIOLOGY FAST FACTS

DID YOU KNOW?

1. Premier offers an Online Portal for easy patient scheduling.
2. We have Same-Day Scheduling available at all centers.
3. Premier provides Same-Day Breast Biopsies.
4. We offer Sedation MRIs at our Belle Meade location.
5. Our Upright MRI is located on Charlotte Avenue [convenient for patients to stand or sit].
6. We have Open MRIs at Belle Meade, Hermitage, Cool Springs and Smyrna.
7. Premier offers Breast MRIs at Midtown and Murfreesboro.
8. As a service to you, we will retrieve patient records for comparison studies.
9. Premier offers 3D Breast Tomosynthesis at multiple centers with ongoing expansion.
10. We have the PET [Positron Emission Tomography] Scanner at Midtown.
11. At Briarville, we perform Kyphoplasty and Atherectomy procedures.
12. Briarville also provides complimentary evaluation of pain management patients.
13. Our Belle Meade location has an accredited Pain Management and Interventional Radiology Surgery Center.
14. Saturday MRIs are available by appointment at Belle Meade, Brentwood, Clarksville, Cool Springs, Hendersonville, Hermitage, Murfreesboro and Smyrna.
15. MammoNOW: Mammograms while you wait or schedule any time at any center.
16. Mammograms are available every Saturday in Hendersonville and Murfreesboro and also by appointment once a month in Hermitage.
17. Patients may schedule their own Screening Mammogram—no physician order required.
18. Insurance estimates are provided before patient appointments.
19. Premier offers Wellness Imaging Studies at all centers.
20. Outpatient Imaging Centers are 60-70% cheaper than a hospital.

DID YOU *also* KNOW?
Patients who have their
MAMMOGRAM
receive *a free T-shirt!*

if not now, when?
**MAMMO
NOW.**



ABDOMEN & PELVIS

MRI & CT Indication Guidelines

Clinical Problem (ABDOMEN & PELVIS)	Preferred Study	Contrast	Comments
Non-focal Pain	CT Abdomen	IV contrast	IV needed for solid organ disease
Appendicitis, Diverticulitis	CT Abdomen and Pelvis	IV contrast	IV contrast helpful if patient is thin
Painful Hematuria, r/o Kidney Stone	CT Abdomen and Pelvis	No	Evaluation for renal stone
Painless Hematuria Renal Mass	CT Abdomen, consider MR w and w/o contrast if CT indeterminate	IV contrast; w & w/o	Useful for indeterminate renal cysts/lesions on Ultrasound
Liver Mass	MR	w & w/o	Eovist contrast
Bile Duct Stone or Obstruction	MR	w/o	Request MR Cholangiopancreatography (MRCP)
Aortic Aneurysm	CT	Yes	

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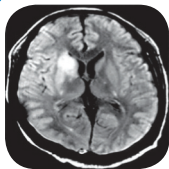
ABDOMEN & PELVIS



MRI & CT Indication Guidelines

Clinical Problem (ABDOMEN & PELVIS)	Preferred Study	Contrast	Comments
Cancer Patient	CT Abdomen and Pelvis with contrast	IV contrast	
Adrenal Gland	CT Abdomen w/o contrast if needed after non- contrast CT per radiologist	Non- contrast may be sufficient. no oral contrast	Contrast only if non-contrast CT is inconclusive
Pelvis-Female	Ultrasound, then MR>CT	CT: IV contrast	MRI w & w/o if contrast is indicated
Pelvis-Male	CT or MR	CT: IV contrast	MRI w & w/o if contrast is indicated

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MRI & CT Indication Guidelines

Clinical Problem (BRAIN)	Preferred Study	Contrast	Comments
CVA	CT (0-24hrs) MR	No No	If less than 6 hours, also consider CTA or MRA of neck and brain. If less than 24 hours, referral to ER/Acute care facility for imaging is usually preferred
Acute Bleed	CT>>MR	No	
Subarachnoid Bleed	CT	No	
Brain Tumor, Metastases	MR>>CT MR	w & w/o	CT better for tumor calcification
Seizure	MR	w & w/o	Contrast for adults first time seizure, especially if over 40
CNS infection, Abscess, Meningitis	MR	w & w/o	
AIDS	MR	w & w/o	
Headache	MR	w & w/o	Contrast for meningeal/dural disease, mass, meningioma
Dementia	MR>CT	No	MR gives superior evaluation of white matter changes, patterns of atrophy
Neurodegenerative Disorder	MR	No	Parkinson's disease, etc.
Carotid Stenosis	CTA	w & w/o	

> recommended over other study
>> strongly recommended over other study

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MRI & CT Indication Guidelines

Clinical Problem (BRAIN)	Preferred Study	Contrast	Comments
Subdural Hematoma	CT=MR	No No	MR detects smaller non-surgical acute SDH and Sub-acute to chronic SDH
MS	MR	w & w/o	Contrast helpful if non-contrast is abnormal
Posterior Fossa, Brainstem Lesion	MR	w & w/o	MR far superior in this region
Acoustic Neuroma, Sensorineural Hearing Loss	MR	w & w/o	CT not sensitive for small IAC lesions but may be needed for otic capsule disease
Pituitary Tumor	MR	w & w/o	MR far superior in this region
Pulsatile Tinnitus	MR>CT	w & w/o	MRA neck can be ordered w only or w & w/o. MRA brain w/o contrast (dye not needed)
Aneurysm	MRA or CTA	Possibly Yes	MRA for screening especially at high field CTA for greater detail
Venous Sinus Thrombosis	CTA MR/MRV	Yes No	Usually can avoid conventional Venography

= comparable studies
> Recommended over other study

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MRI & CT Indication Guidelines

Clinical Problem (CHEST)	Preferred Study	Contrast	Comments
Pulmonary Embolus	CTA	Yes	Evaluation of acute chest pain and SOB
Nodule, Mass, Infiltrate	CT	Yes or No	Peripheral nodules remote from hilum can be imaged without contrast. Contrast helpful for hilar disease
Interstitial Lung Disease	High Resolution CT	No	1 or 2 mm slices at 5 or 10 mm increments
Coronary Artery Disease	CT of Heart	Yes	Detailed visualization of coronary arteries
Coronary Calcium Screening		No	Screening for people with low to moderate risk of CAD
Aortic Aneurysm Diseases	CT	Yes	

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NECK, SKULL, BASE & ORBIT



MRI & CT Indication Guidelines

Clinical Problem (NECK, SKULL, BASE & ORBIT)	Preferred Study	Contrast	Comments
Sinusitis	CT	No	CT defines ostial obstruction Bone changes
Neck Mass	CT	Yes	Adenopathy better on CT; Tongue and perineural skull base disease better on MR
	MR	w & w/o	MR=w/o if contrast needed
Conductive Hearing Loss- Sensorineural Hearing Loss	CT	No	Mastoid, middle ear, ossicles
	MR	w & w/o	IAC, brainstem/CPA, Labyrinth
Skull Base	MR=CT	w & w/o	CT sometimes necessary to better show bony detail
Squamous CA	CT>MR	w & w/o	Skull base to thoracic inlet
Vocal Cord Paralysis	CT>>MR	w & w/o	Skull base to carina
Orbit-Proptosis	CT	Yes	No contrast for Graves' disease
	MR	w & w/o	
Optic Nerves	CT	Yes	MR - optic neuritis, high field works best.
	MR	w & w/o	MR orbits w & w/o CT - Meningioma, calcification
Cavernous Sinus	MR	w & w/o	MR brain/sella
Cranial Nerves	MR	w & w/o	
Facial Trauma	CT	No	
Salivary Gland	CT	Yes	

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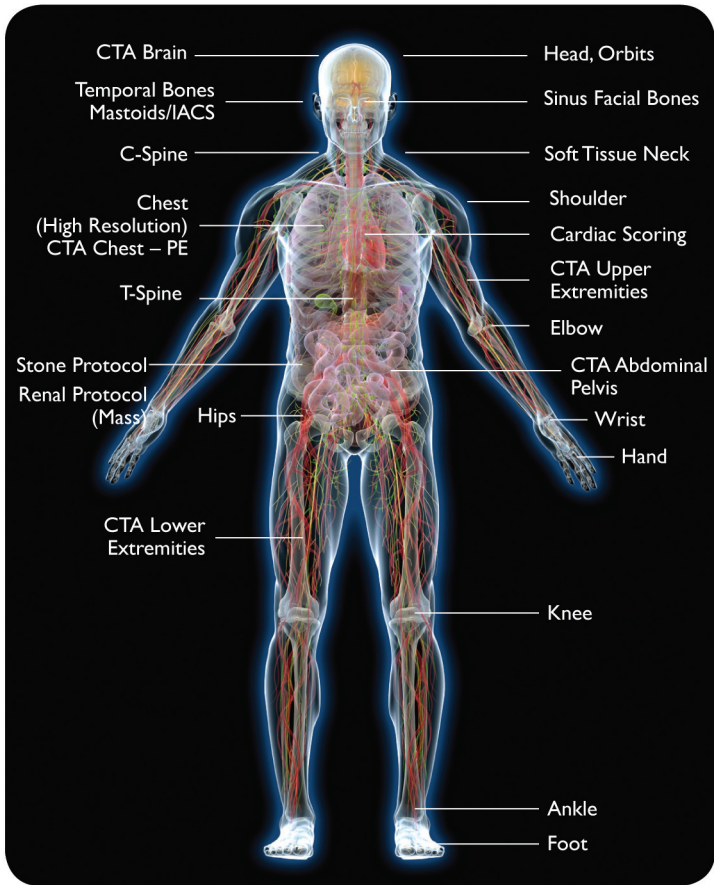
MRI & CT Indication Guidelines

Clinical Problem (SPINE)	Preferred Study	Contrast	Comments
Herniated Disc, Cervical or Thoracic, Lumbar	MR>>CT	If previous surgery, contrast	Contrast essential to distinguish scar from disc after surgery MR=w & w/o
Stenosis	MR>>CT	No	Helical CT with Reconstructions can be adequate especially if MR contraindication
Discitis/ Osteomyelitis	MR	w & w/o	
Metastasis: Bone	MR	w & w/o	Non-contrast for bone metastasis
Epidural or Intraspinal	MR	w & w/o	Contrast for epidural or intrathecal tumor
Compression Fracture, Bone Metastasis	MR Focal CT	No No	MRI allows evaluation of bone marrow, Focal CT for operative planning
Cord Disease	MR	w & w/o	Demyelination, syrinx
Cord Tumor	MR	w & w/o	

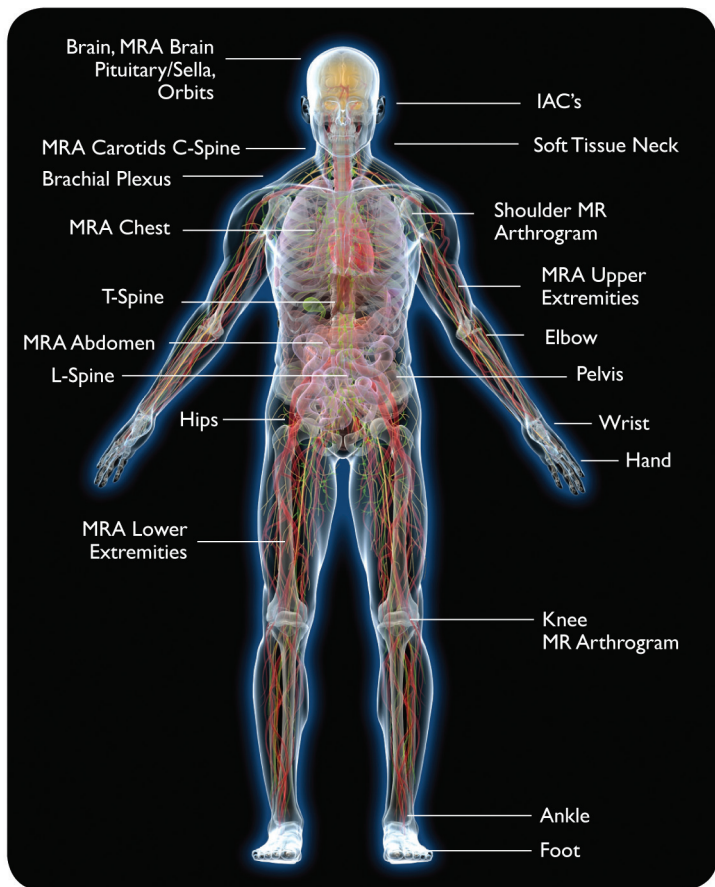
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CT



Fields of Expertise



Fields of Expertise

LOCATIONS

BELLE MEADE

28 White Bridge Pike | Suite 111
Nashville, TN 37205
615.356.3999 | fax: 615.353.0462

BELLEVUE

5700 Temple Road | Suite 102
Nashville, TN 37221
615.986.5993 | fax: 615.234.1522

BRENTWOOD

789 Old Hickory Boulevard
Brentwood, TN 37027
615.832.9551 | fax: 615.234.1509

BRIARVILLE

1210 Briarville Road | Suite 602F
Madison, TN 37115
615.986.6411 | fax: 615.234.1506

CLARKSVILLE

980 Professional Park Drive | Suite E
Clarksville, TN 37040
931.436.9307 | fax: 931.436.9308

COOL SPRINGS

3310 Aspen Grove Drive | Suite 201
Franklin, TN 37067
615.771.0171 | fax: 615.234.1501

GALLATIN

110 St. Blaise Road | Suite 102
Gallatin, TN 37066
615.467.4640 | fax: 615.467.4641

HENDERSONVILLE

262 New Shackle Island Road
Suite 206
Hendersonville, TN 37075
615.986.6050 | fax: 615.234.1529

HERMITAGE

5045 Old Hickory Boulevard | Suite 100
Hermitage, TN 37076
615.884.7674 | fax: 615.234.1507

LENOX VILLAGE

6130 Nolensville Pike | Suite 102
Nashville, TN 37211
615.986.7026 | fax: 615.234.1510

MT. JULIET

5002 Crossings Circle | Suite 140
Mt. Juliet, TN 37122
615.773.7237 | fax: 615.773.1250

MURFREESBORO

1840 Medical Center Pkwy.
SETON BUILDING | Suite 101
Murfreesboro, TN 37129
615.896.1234 | fax: 615.896.7171
efax: 615.234.1504

Center for Breast Health

615.396.5600 | fax: 615.396.5612

NASHVILLE | Charlotte

1800 Charlotte Avenue
Nashville, TN 37203
615.329.4840 | fax: 615.846.0859

NEW SALEM

2723 New Salem Highway | Suite 103
Murfreesboro, TN 37128
615.986.6055 | fax: 615.234.1505

SAINT THOMAS | MIDTOWN

300 20th Avenue North | Suite 202
Nashville, TN 37203
615.986.6047 | fax: 615.986.6048

SAINT THOMAS | WEST

4230 Harding Pike | Suite 220
Nashville, TN 37205
615.467.1050 | fax: 615.234.1533

SMYRNA

741 President Place | Suite 100
Smyrna, TN 37167
615.220.0674 | fax: 615.355.4348

SOUTH NASHVILLE | Antioch

3754 Murfreesboro Pike | Suite 102
Antioch, TN 37013
615.467.4642 | fax: 615.467.4643

UPRIGHT MRI

1718 Charlotte Avenue | Suite B
Nashville, TN 37203
615.620.5480 | fax: 615.321.8409

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