

# MRI & CT

INDICATION GUIDELINES

COMPLIMENTS OF PREMIER RADIOLOGY



Premier  
Radiology

[www.PremierRadiology.com](http://www.PremierRadiology.com)

# {TOP 20} PREMIER RADIOLOGY FAST FACTS

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## 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
<b>Non-focal Pain</b>	CT Abdomen	IV contrast	IV needed for solid organ disease
<b>Appendicitis, Diverticulitis</b>	CT Abdomen and Pelvis	IV contrast	IV contrast helpful if patient is thin
<b>Painful Hematuria, r/o Kidney Stone</b>	CT Abdomen and Pelvis	No	Evaluation for renal stone
<b>Painless Hematuria Renal Mass</b>	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
<b>Liver Mass</b>	MR	w & w/o	Eovist contrast
<b>Bile Duct Stone or Obstruction</b>	MR	w/o	Request MR Cholangiopancreatography (MRCP)
<b>Aortic Aneurysm</b>	CT	Yes	

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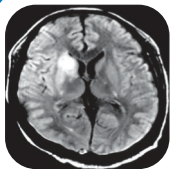
# ABDOMEN & PELVIS



## MRI & CT Indication Guidelines

Clinical Problem (ABDOMEN & PELVIS)	Preferred Study	Contrast	Comments
<b>Cancer Patient</b>	CT Abdomen and Pelvis with contrast	IV contrast	
<b>Adrenal Gland</b>	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
<b>Pelvis-Female</b>	Ultrasound, then MR>CT	CT: IV contrast	MRI w & w/o if contrast is indicated
<b>Pelvis-Male</b>	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
<b>CVA</b>	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
<b>Acute Bleed</b>	CT>>MR	No	
<b>Subarachnoid Bleed</b>	CT	No	
<b>Brain Tumor, Metastases</b>	MR>>CT MR	w & w/o	CT better for tumor calcification
<b>Seizure</b>	MR	w & w/o	Contrast for adults first time seizure, especially if over 40
<b>CNS infection, Abscess, Meningitis</b>	MR	w & w/o	
<b>AIDS</b>	MR	w & w/o	
<b>Headache</b>	MR	w & w/o	Contrast for meningeal/dural disease, mass, meningioma
<b>Dementia</b>	MR>CT	No	MR gives superior evaluation of white matter changes, patterns of atrophy
<b>Neurodegenerative Disorder</b>	MR	No	Parkinson's disease, etc.
<b>Carotid Stenosis</b>	CTA	w & w/o	

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

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# BRAIN



## MRI & CT Indication Guidelines

Clinical Problem (BRAIN)	Preferred Study	Contrast	Comments
<b>Subdural Hematoma</b>	CT=MR	No No	MR detects smaller non-surgical acute SDH and Sub-acute to chronic SDH
<b>MS</b>	MR	w & w/o	Contrast helpful if non-contrast is abnormal
<b>Posterior Fossa, Brainstem Lesion</b>	MR	w & w/o	MR far superior in this region
<b>Acoustic Neuroma, Sensorineural Hearing Loss</b>	MR	w & w/o	CT not sensitive for small IAC lesions but may be needed for otic capsule disease
<b>Pituitary Tumor</b>	MR	w & w/o	MR far superior in this region
<b>Pulsatile Tinnitus</b>	MR>CT	w & w/o	MRA neck can be ordered w only or w & w/o. MRA brain w/o contrast (dye not needed)
<b>Aneurysm</b>	MRA or CTA	Possibly Yes	MRA for screening especially at high field CTA for greater detail
<b>Venous Sinus Thrombosis</b>	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
<b>Pulmonary Embolus</b>	CTA	Yes	Evaluation of acute chest pain and SOB
<b>Nodule, Mass, Infiltrate</b>	CT	Yes or No	Peripheral nodules remote from hilum can be imaged without contrast. Contrast helpful for hilar disease
<b>Interstitial Lung Disease</b>	High Resolution CT	No	1 or 2 mm slices at 5 or 10 mm increments
<b>Coronary Artery Disease</b>	CT of Heart	Yes	Detailed visualization of coronary arteries
<b>Coronary Calcium Screening</b>		No	Screening for people with low to moderate risk of CAD
<b>Aortic Aneurysm Diseases</b>	CT	Yes	

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# NECK, SKULL, BASE & ORBIT



## MRI & CT Indication Guidelines

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

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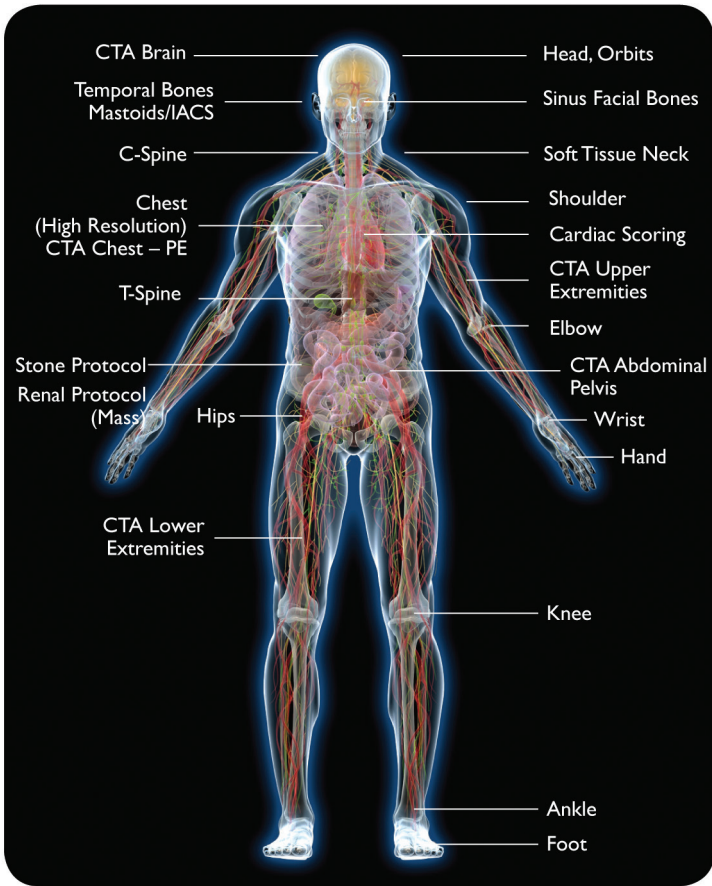


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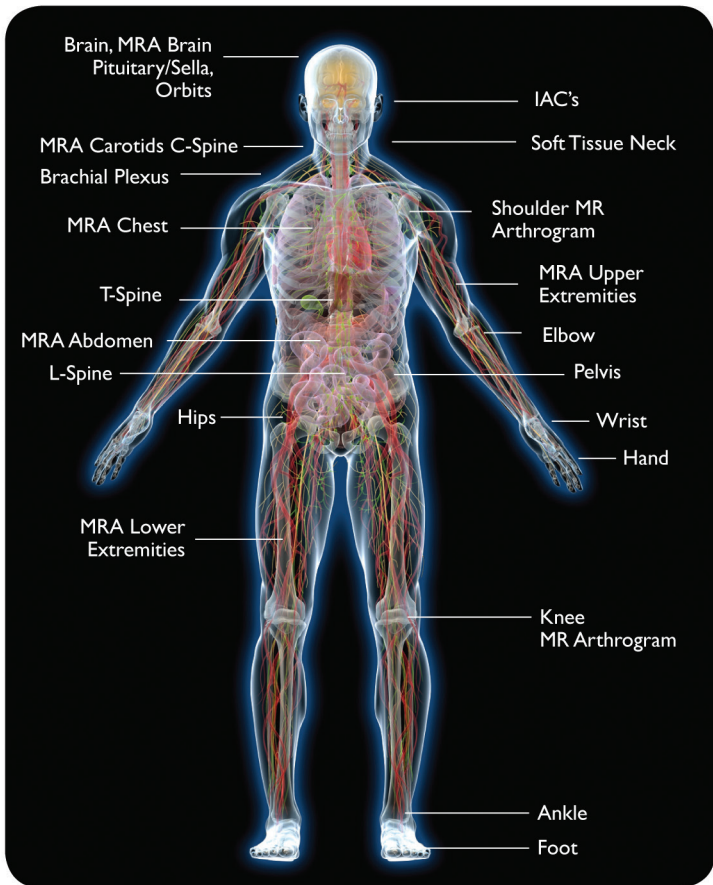
Clinical Problem (SPINE)	Preferred Study	Contrast	Comments
<b>Herniated Disc, Cervical or Thoracic, Lumbar</b>	MR>>CT	If previous surgery, contrast	Contrast essential to distinguish scar from disc after surgery MR=w & w/o
<b>Stenosis</b>	MR>>CT	No	Helical CT with Reconstructions can be adequate especially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

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## 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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