RADIOLOGY ASSOCIATES OF NORTH TEXAS, P.A.

MR Brain Routine w/o

Last Updated: 12/16/2025

Name	Plane	Sequence	Slice	Gap	FOV	Scan Range
3-Plane Localizer	Ax, Sag, Cor				21-25 cm	
SAG T1	Sagittal	T1 FLAIR	4 mm	0.4 mm	21-25 cm	Scalp to Scalp
AX DWI AX ADC	Axial	Epi DWI	4 mm	0.4 mm	21-25 cm	Scalp to Odontoid
AX T1	Axial	T1 FLAIR or FSE	4 mm	0.4 mm	21-25 cm	Scalp to Odontoid
AX T2	Axial	T2 FSE	4 mm	0.4 mm	21-25 cm	Scalp to Odontoid
AX FLAIR	Axial	T2 FLAIR	4 mm	0.4 mm	21-25 cm	Scalp to Odontoid
AX GRE/SWI	Axial	T2* FGRE or SWAN	4 mm	0.4 mm	21-25 cm	Scalp to Odontoid

Notes:

- Use Propeller/BLADE if excessive motion
- T1 FLAIR preferred over T1 FSE especially at 3T and when using Propeller. - Orient DWI axial slices parallel to glabella and foramen magnum to reduce air-bone interface artifacts from sinuses and temporal bones. In cases of excessive susceptibility artifact, use coronal or Propeller DWI.
- Use SWI instead of GRE when available. Include filtered phase and mIP SWI.
- Enable ARC/GRAPPA if available for parallel imaging to reduced scan times. - For Open magnets use slice/gap- 5mm/5mm.

Images:

- AXIAL- Plan on sagittal plane, angle parallel to genu and splenium of corpus callosum, cover from odontoid to vertex (see Figures 1,2,3)
- SAGITTAL- Plan on axial plane, angle parallel to midline, cover temporal bone to temporal bone (see Figures 4,5,6)
- AX for DWI- Plan on sagittal plane, angle parallel to line from glabella to the foramen magnum (see Figure 7)

Figure 1:

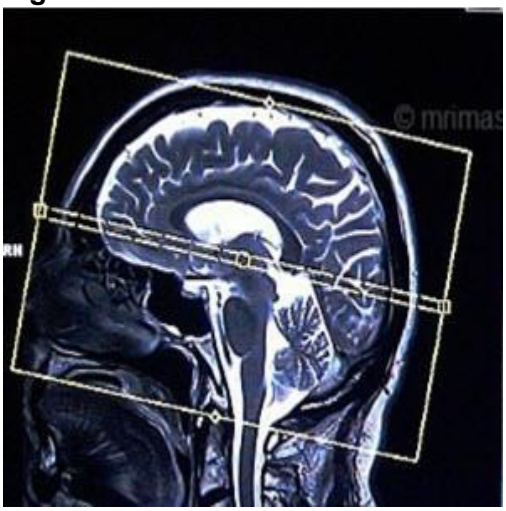

Figure 3:

Figure 2:

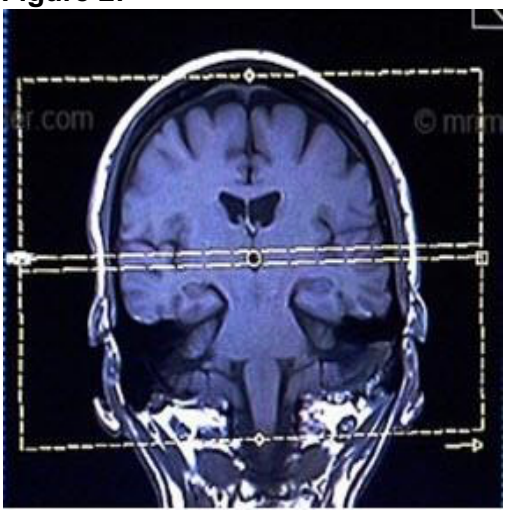

Figure 4:

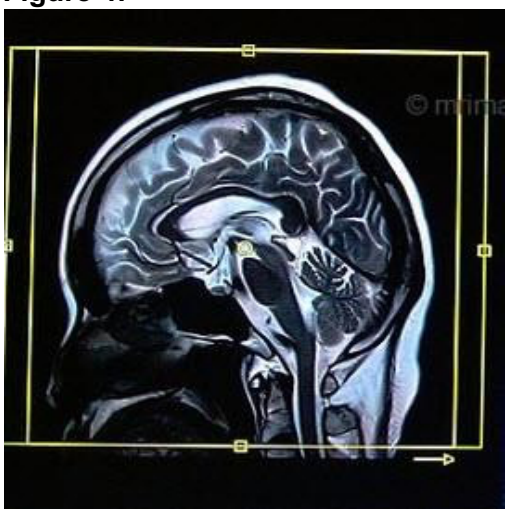

Figure 5:

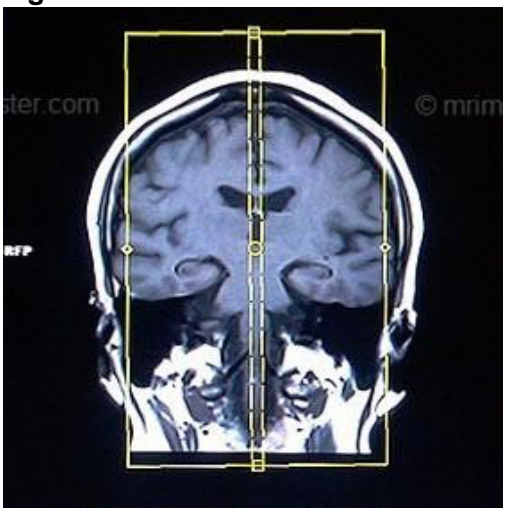

Figure 6:

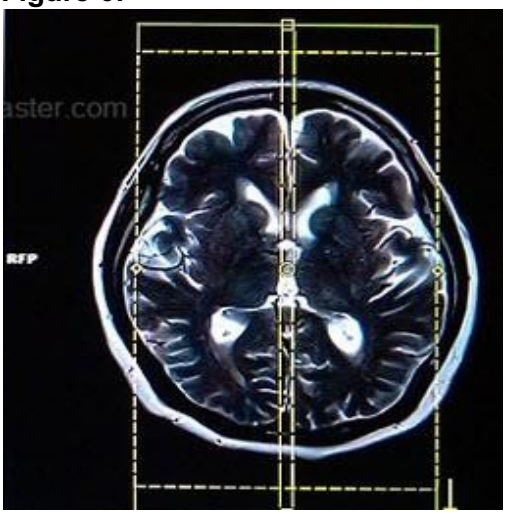

Figure 7: