UT Southwestern Department of Radiology

Anatomy: ***Brain*** | **Coil:** **HEAD MATRIX**

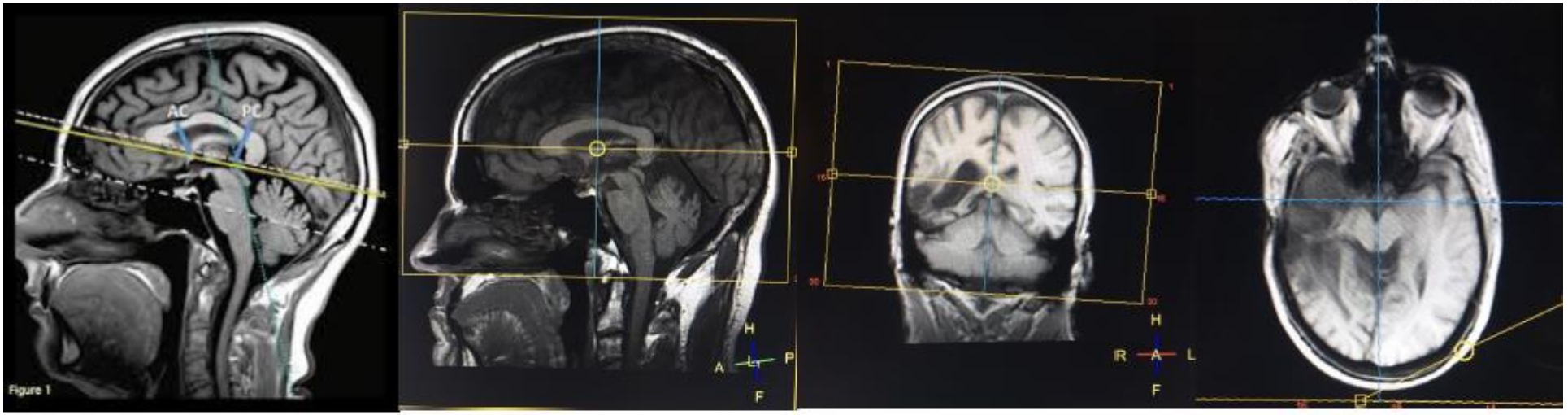
Image Acquisition Protocol: ***(2G) Routine Brain*** | UTSW ORDERABLE: **MR BRAIN W AND WO IV CONTRAST**

Last Edited: **1/14/2025** Review Date: **6/18/2020** | Allotted Scan Time: **45 min**

SEQUENCE - BASICS

PLANE	SEQUENCE ROUTINE	Coverage	Slice Thickness/ Gap (mm)	Pixel Size (F X P) (mm)	FOV (F X P) (mm)	TR (ms)	TE (ms)	Misc./Comments
3 Plane	**Scout**							Only send SAG Scout
SAG	**2D T1W TSE**	SKIN TO SKIN	5/0.5	0.7 X 0.9	230 X 230	400 - 800	10 or LESS	
AX	**2D DWI-EPI FS**	Instructions listed below for positioning	5/0.5	1.7 X 1.7	220 X 220	1500	50	ADC, B0, B1000 send separate
AX	**2D T2W FLAIR TSE FS**	Instructions listed below for positioning	5/0.5	0.7 X 0.7	230 X 180	8000 - 10000	120 - 150	
AX	**2D T1W TSE (1.5T)**	Instructions listed below for positioning	5/0.5	0.7 X 0.7	230 X 180	400 - 800	10 or LESS	
	2D T1W FLAIR TSE (3T)					SHORTEST	SHORTEST	
AX	**3D SWI FFE / T2* GRE**	Instructions listed below for positioning	2/0.2	0.7 X 0.7	230 X 180	31	7.2	ONLY send separated Pha, mIP, SWI phases
AX	**2D T2W TSE POST**	Instructions listed below for positioning	5/0.5	0.7 X 0.7	230 X 180	2500 - 5000	85 - 120	
AX	**2D T1W TSE FS POST (1.5T)**	Instructions listed below for positioning	5/0.5	0.7 X 0.7	230 X 180	400 - 800	10 or LESS	
	2D T1W FLAIR TSE FS POST (3T)					SHORTEST	SHORTEST	
SAG	**3D T1W MPRAGE/TFE**	Instructions listed below for positioning	0.9/0	0.9 X 0.9	240 X 240	SHORTEST	SHORTEST	AX/COR RECONS

SPECIAL INSTRUCTIONS:	IN CASE OF MOTION ARTIFACT, RUN **MULTIVANE** (PHILIPS) OR **BLADE** (SIEMENS)
LARGE SUBJECT:	ADJUST PHASE FOV TO FIT PATIENTS HEAD



Axial Sequence:

- Plot on sagittal plane
- Parallel to line through anterior and posterior commissure
- From the foramen magnum to end of skull