

 University Health™	Policy #: Rad Proc 14.14.1
SUBJECT: : MRI ADULT ROUTINE BRAIN	Effective: 10/1/2013 Reviewed:
APPROVED BY: Eduardo Gonzalez-Toledo, MD PhD	Page 1 of 2

Purpose: To provide MRI staff with approved protocol for performing a routine head MR.

EXAM: ADULT ROUTINE BRAIN ORIENTATION: HEAD FIRST/SUPINE

Coil: HNS HEAD/STANDARD HEAD

PLANE	3 PLN LOC	CALI B.	SAG T1	AX DWI ASSET	TENSO R ASSET (AX)	SAG FLAIR CUBE	AX 3D SWAN	AX FSPGR BRAVO	AX PD/T2	AX FSPGR BRAVO C+	**AX FSPGR 3D PRE/POST
SEQ	GRE	GRE	FSE XL	SE	SE	CUBE T2 FLAIR	SWAN	BRAVO	FSE XL	BRAVO	FSPGR
MODE	2D	2D	2D	2D	2D	3D	3D	3D	2D	3D	3D
IMAGIN G OPTIONS	SEQ/ FAS T	FAST/ CALI B	NONE	EPI/DI FF/ ASSET	EPI/DIF F/ASSE T	EDR/FA ST/ Irp/Z512 / Z2/ARC	FC/FAST/ ZIP2/ASS ET	FAST/Irp/ ASSET	FC/TRF/ FAST	FAST/Ir p/ ASSET	EDR/FAST /Irp/ZIP2
TE			MIN FULL	MIN	MIN	MIN	50 ms		MIN FULL/ 90 ms+		MIN FULL
TR			400- 600 ms	6000 ms	6000 ms	8000 ms	78.3 ms		2850 ms		
TI								450 ms		450 ms	
FLIP ANGLE							15	13		13	12
ETL			2			130			12-18		
BW			31.25			25.00	41.67	25.00	31.25	25.00	31.25
FOV	24	30	24	28	28	24	24	24	24	24	24
SLICE THICKN ESS	10	6	4	5	5	1.8	3	1.2	4	1.2	1.2
SLICE SPACING	5	0	1.5	1	1	LOCS/S L 120	LOCS/SL 48	LOCS/SL 154	1.5	LOCS/S L 154	LOCS/SL 128
Frequency	256		320	128	132	224	288	256	320	256	256
Phase	128		224	128	160	224	224	256	224	256	128
NEX	1		2					1	2	1	1
PHASE FOV	1		1	1	1	0.9	1	1	0.75	1	0.75
FREQ DIR	UNS WAP	R/L	UNS WAP	UNSW AP	R/L	S/I	UNSWAP	UNSWAP	A/P	UNSWA P	A/P
FLOW COMP DIR									FREQ		
SHIM	AUT O	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORREC T	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF

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Note: Additional sequences may be requested at the discretion of the Radiologist monitoring the exam.

1. NOTES: Please acquire the cor t2 thin, ax bravo, and ax swan first, per Dr. GT. Please acquire the non-brain wave on adult patients, per Dr. GT.
2. The SAG T2 FALIR CUBE is acquired in the sagittal plane and reconstructed into the axial and coronal planes. **Note, the AX FSPGR BRAVO PRE/POST cannot be acquired when utilizing the standard head coil. If this coil must be utilized, the **AX FSPGR 3DPRE/POST must be included in place of the BRAVO. The BRAVO/FSPGR 3D is acquired in the axial plane and reconstructed into the sagittal and coronal planes.
3. If the patient is unable hold still for the sag flair cube and ax pd/t2, the optional t2 flair propeller and ax t2 propeller sequences are included in the protocol on the MR system (not displayed on page 1) if needed.