

 University Health™						Policy #: Rad Proc 14. 14. .17					
SUBJECT: POST OP BRAIN						Effective: 10/1/2013 Reviewed: 2/2015: 2/2017					
APPROVED BY: Eduardo Gonzalez-Toledo, MD PhD						Page 1 of 2					

Purpose: To provide MRI staff with approved protocol for performing a Post op brain MR.

ORIENTATION: HEAD FIRST/SUPINE

Coil: HNS HEAD/STANDARD HEAD

EXAM: POST OP BRAIN

PLANE	3 PLN LOC	CALIB .	SAG T1	AX DWI ASSETT	TENSOR ASSET (AX)	AX 3D SWAN	AX FSPGR BRAVO	AX PD/T2	AX T2 FLAIR	AX FSPGR BRAVO C+	**AX FSPGR 3D PRE/POST
SEQ	GRE	GRE	FSE XL	SE	SE	SWAN	BRAVO	FSE XL	T2 FLAIR	BRAVO	FSPGR
MODE	2D	2D	2D	2D	2D	3D	3D	2D	2D	2D	3D
									EDR	TFR/FAST	
IMAGING OPTIONS	SEQ/FAST	FAST / CALIB	NONE	EPI/DIFF/ASSET	EPI/DIFF/ASSET	FC/FAST/ZIP2 ASSET	FAST/Irp/ASSET	FC/TRF/FAST	TRF/FAST	FAST/Irp/ASSET	EDR/FAST /Irp/ZIP2
TE			MIN FULL	MIN	MIN	50 MS		MIN FULL/90MS	120 ms		MIN FULL
TR			400-600 ms	6000 ms	6000 ms	78.3		2850 ms	9000 ms		
TI							450 MS		2200 ms	450	
FLIP ANGLE						15	13			13	12
ETL			2					12 - 18			
BW			31.25			41.67	25	31.25	31.25	25	31.25
FOV	24	30	24	28	28	24	24	24	24	24	24
SLICE THICKNESS	10	6	4	5	5	3	1.2	4	4	1.2	1.2
SLICE SPACING	5	0	1.5	1	1	LOCS/SL 48	LOCS/SL 154	1.56	1.5	LOCS/SL 154	LOCS/SL 128
Frequency	256		320	128	132	288	256	320	320	256	256
Phase	128		224	128	160	224	256	224	224	256	128
NEX	1		2				1	2	1	1	1
PHASE FOV	1		1	1	1	1	1	0.75		1	0.75
FREQ DIR	UNSWAP	R/L	UNSWAP	UNSWAP	R/L	UNSWAP	UNSWAP	A/P	A/P	UNSWAP	A/P
FLOW COMP DIR								FREQ			
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF

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

NOTES: **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.

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.