University Health™	Policy #: Rad Proc 14. 14. 16
SUBJECT: FOLLOW UP-TUMOR BRAIN	Effective: 10/1/2013 Reviewed: 2/2015: 2/2017
APPROVED BY: Eduardo Gonzalez-Toledo, MD PhD	Page 1 of 3

Purpose: To provide MRI staff with approved protocol for performing an MR.

EXAM: FOLLOW UP TUMOR BRAIN ORIENTATION: HEAD FIRST/SUPINE COIL: HNS HEAD/STANDARD HEAD

PLANE	3 PLN LOC	CALI B.	SAG T1	AX DWI ASSETT	TENSOR ASSET (AX)	SAG FLAIR CUBE	AX 3D SWAN	AX FSPGR BRAVO	AX PD/T2	PROB E-SV 35	(ax) DYNA MIC SUSCEP . OF C+ (perfus ion)	AX FSPGR BRAVO C+	**AX FSPGR 3D PRE/POST
SEQ	GRE	GRE	FSE XL	SE	SE	CUBE 2	SWAN	BRAVO	FSE XL	PROB E P	GRE	T2	FSPGR
MODE	2D	2D	2D	2D	2D	3D	3D	3D	2D	MRS	2D	3D	3D
INIODE	20	20	20	20	20	טט	30	30	20	IVINS	Mph/	30	טנ
										EDR	EPI	TFR/FAST	
IMAGI		FAS					FC/			LDI	E111	1111/17131	
NG		T/					FAST/Z	FAST/Irp/	FC/TRF/				EDR/TRF/FAST/I
OPTIO	SEQ/F	CALI	NONE	EPI/DIFF/	EPI/DIFF/	EDR/FAST/Irp/z51	IP2	ASSET	FAST		Mph/	FAST/Irp/	rp/ZIP2
NS	AST	В		ASSET	ASSET	2/72/arc	ASSET			EDR	EPI	ASSET	
			MIN	MIN					MIN				MIN FULL
TE			FULL	IVIIIN	MIN	MIN	50 MS		FULL	MIN	MIN		IVIIIN FOLL
			400-										
			600	600 ms					2850 ms	1500	2000		
TR			ms		6000 ms	8000 MS	78.3			ms	ms		
TI								450				450	
FLIP								13					
ANGLE							15			13	60	13	12
ETL			2			130	23.00	13	12 - 18				
BW			31.25			25	41.67	25	31-Jan	24		25	31.25
FOV	24	30	24	28	28	24	24	24	24	20	22	24	24

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SLICE													
THICKN			4	5				1.2	4				
ESS	10	6			5	1.8	3			7	7	1.2	1.2
SLICE							1	LOCS/SL					
SPACIN	_	_	1.5	1			LOCS/	154	1.5			LOCS/SL	
G	5	0			1	LOCS/SL 120	SL 48				0	154	LOCS/SL 128
Freque			320	128	400			256	320				276
ncy	256				132	224	320			1	96	256	256
Phase	128		224	128	160	224	320	256	224	1	128	256	128
NEX	1		2					1	2	8	1	1	1
PHASE			1					1	0.75				
FOV	1		1	1	1	1	1	1	0.73		1	1	0.75
FREQ	UNSW		UNS	UNSWA				UNSWAP	A/P	UNS			
DIR	AP	R/L	WAP	Р	R/L	S/I	A/P	ONSWAF	Ауг	WAP	R/L	UNSWAP	A/P
FLOW													
COMP									FREQ				
DIR							SLICE						
		AUT											
SHIM	AUTO	0	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO		AUTO	AUTO	AUTO	AUTO
PHASE													
CORRE			ON					OFF	AUTO				
СТ	OFF	OFF		ON	OFF	OFF	ON			OFF	OFF	OFF	OFF

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NOTES: 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.

DYNAMIC SUSCEP. OF C+ (PERFUSION): Slices should be I to S. Cover the entire brain. Angle to the corpus callosum as in other axials as per applications and Dr. Toledo. There should be 60 phases at one second intervals as per Dr. Toledo. Inject at a rate of 3 -5 ml/sec as per Dr. Toledo. Start the injection 10 seconds after scanning or after acquiring 10 phases as per Dr. Toledo.

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.