 <b>University Health™</b>	<b>Policy #: Rad Proc 14. 14. 15</b>
<b>SUBJECT: MS BRAIN</b>	<b>Effective: 10/1/2013</b> <b>Reviewed: 2/2015: 2/2017</b>
<b>APPROVED BY: Eduardo Gonzalez-Toledo, MD PhD</b>	<b>Page 1 of 2</b>


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

**ORIENTATION: HEAD FIRST/SUPINE**

**Coil: HNS HEAD/STANDARD HEAD**

**EXAM: MS BRAIN**

SEQ MODE	GRE 2D	FIESTA-C 3D	DW PROPELLER 2D	FSE XL 2D	FSE XL 2D	FSE XL 2D
IMAGING OPTIONS	SEQ/FAST	FAST/ZIP 2 MIN FULL	NONE	FC/NPW/EDR/FAST MIN FULL 400-600 ms	FC/NPW/EDR/FAST MIN FULL 400-600 ms	FC/NPW/EDR/FAST MIN FULL 400-600 ms
TE						
TR						
FLIP						
ANGLE		45	90			
ETL			16	2	2	2
BW		62.5	83.33	15.63	15.63	15.63
FOV	24	24	22	22	22	22
SLICE THICKNESS	10	2	0.5	2	2	2
SLICE SPACING	5	LOCS/SL 32I	0	0.2	0.2	0.2
Frequency	256	512	128	256	256	256
Phase	128	192	16	192	192	192
NEX	1	1	1.5	3	3	3
PHASE FOV	1	0.75	22			
FREQ DIR	UNSWAP	UNSWAP		A/P	A/P	A/P
FLOW						
COMP DIR				FREQ	FREQ	FREQ
SHIM	AUTO	AUTO		AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF		ON	ON	ON

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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.

\*\*Note: The SAG T2 FLAIR CUBE is acquired in the sagittal plane and reconstructed into the axial 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. Utilize dotamrem for this protocol, per Dr. GT