

 University Health™	Policy #: Rad Proc 14. 14. 35
SUBJECT: DBS PROTOCOL POST	Effective: 10/1/2013 Reviewed: 2/2015: 2/2017
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Purpose: To provide MRI staff with approved protocol for performing an DB protocol postMR.

EXAM: DBS PROTOCOL POST

ORIENTATION: HEAD FIRST/SUPINE COIL: HEAD (T/R COIL ONLY)

PLANE	3 PLN LOC	T2-WEIGHTED FSE (5 mm Slice Thickness)	3-dimensional GRE (1.5 mm Slice Thickness)
SEQ	GRE	FSE XL	
MODE	2D	2D	
IMAGING OPTIONS	SEQ/FAST	FC/NPW/TRF/FAST	
TE		90 ms	9 ms
TR		4700 ms+	33 ms
TI			
FLIP ANGLE			35
ETL		10	
BW		15.63	15.63
FOV	24	26	26
SLICE THICKNESS	10	5	1.6
SLICE SPACING	5	1	LOCS/SL 114
Frequency	256	384	256
Phase	128	224	160
NEX	1		0.75
PHASE FOV	1	4	1
FREQ DIR	UNSWAP	A/P	A/P
FLOW COMP DIR		FREQ	
SHIM	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	ON	OFF

NOTES: Order: “MR brain” (no contrast) with “DBS Protocol to view lead placement.”

USE ONLY A TRANSMIT-RECEIVE HEAD COIL APPLIED SAR CAN ONLY BE UP TO 1/10 (0.1) W/kg. LIMIT GRADIENT Db/Dt to 20 TESLA PER SECOND OR LESS. IF DBS UNIT IS ON, IT MUST BE TURNED OFF PRIOR TO MR EXAM.

Contraindication: Do not scan using a full body transmit radio-frequency (RF) coil, a receive-only head coil, or a head transmit coil that extends over the chest area. Performing MRI with this equipment can cause tissue lesions from component heating, especially at the lead electrodes, resulting in serious and permanent injury including coma, paralysis, or death

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