

 University Health™	Policy #: Rad Proc 14. 14. 34
SUBJECT: DBS PROTOCOL SCREENING & PRE SURGERY PLANNING	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 an DBS Protocol screening & pre surgery planning MR.

EXAM: DBS PROTOCOL SCREENING & PRE SURGERY PLANNING

PLANE	3 PLN LOC	CALIB.	SAG T2 CUBE	FSPGR BRAVO (AXIAL 1.2 mm Slice Thickness)	AX PD/T2 (AXIAL, 1.2 mm Slice Thickness) SEE NOTE	FSPGR BRAVO C+ (AXIAL 1.2 mm Slice Thickness)	3D FSPGR C+ (AXIAL)
SEQ	GRE	GRE	T2 CUBE	BRAVO	FSE XL	BRAVO	SPGR
MODE	2D	2D	3D	3D	2D	3D	3D
IMAGING OPTIONS	SEQ/FAST	FAST/CALIB	EDR/FAST/Z2/FR/ARC	FAST/Irp/ASSET	FC/TRF/FAST	FAST/Irp/ASSET	EDR/FAST/IRP/ASSET
TE					MIN FULL		MIN FULL
TR			3000 ms		3617 ms		
PREP TIME				450 ms		450 ms	400 ms
FLIP ANGLE				13		13	12
ETL			100		16		
BW			62.50	25.00	31.25	25.00	31.25
FOV	24	30	24	24	24	24	24
SLICE THICKNESS	10	6	1.8	1.2	1.2	1.2	1.4
SLICE SPACING	5	0	LOCS/SL 120	LOCS/SL 154	0	LOCS/SL 154	LOCS/SL 124
Frequency	256		288	256	320	256	288
Phase	128		288	256	224	256	288
NEX	1			1		1	1
PHASE FOV	1		1.0	1	0.75	1	0.90
FREQ DIR	UNSWAP	R/L	S/I	UNSWAP		UNSWAP	A/P
FLOW COMP DIR					SLICE		
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF	OFF	OFF	OFF	OFF	OFF

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**COIL:
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HEAD**

**NOTE
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Order:
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brain
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with
“DBS
Protoc
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screen
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and surgery planning” in the order notes.

ACQUIRE AXIALS TRUE AXIAL, NO OBLIQUES.

AX PD/T2 (AXIAL 1.2 mm Slice Thickness) SEE NOTE: Only cover the midbrain on this sequence. Need just above and below the thalamus per Chris.

Please make a CD of the entire exam.

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Use Dotarem for this exam, Use 0.2 mL/kg body weight for age 2 and older per Dr. Gonzalez Toledo ; under age 2 consult Radiologist

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