


SERIES 1. 3 Plane Localizer

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	3-PLANE	Frequency	256
Gradient Mode	WHOLE	Mode	2D	Phase	128
Scan Timing		Pulse sequence	Gradient Echo	NEX	1.00
		Imaging Options	Seq, Fast	phase field of view	1.00
		Additional Parameters		phase correct	No
				swap phase & frequency	Unswap
				autoshim	On
				Range / Prescription	
				field of view	26.0
				slice thickness	5.0
				slice spacing	5.0



SERIES 2. Sag IR-FSPGR

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	SAGITTAL	Frequency	256
Gradient Mode	ZOOM	Mode	3D	Phase	256
Scan Timing		Pulse sequence	SPGR	NEX	1.00
TE	Min Full	Imaging Options	EDR, Fast, IrP	phase field of view	1.00
TI	400	Additional Parameters		phase correct	No
Flip angle	11	User CVs		swap phase & frequency	S/I
BW1	31.25	CV4	0.00	autoshim	On
		CV5	0.00	Range / Prescription	
		CV6	1.00	slices per slab	200
		CV23	100.00	field of view	26.0
				slice thickness	1.2
				number of slices	1



SERIES 3. Calibration Scan

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	phase correct	No
Gradient Mode	WHOLE	Mode	2D	swap phase & frequency	R/L
Scan Timing		Pulse sequence	Gradient Echo	autoshim	Auto
		Imaging Options	Fast, Calib	Range / Prescription	
		Additional Parameters		field of view	30.0
				slice thickness	5.0
				slice spacing	0.0
				number of slices	60

SERIES 4. Accelerated SAG IR-FSPGR

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	SAGITTAL	Frequency	256
Gradient Mode	ZOOM	Mode	3D	Phase	256
Scan Timing		Pulse sequence	SPGR	NEX	1.00
TE	Min Full	Imaging Options	EDR, Fast, IrP, Asset	phase field of view	1.00
TI	400	Additional Parameters 		phase correct	No
Flip angle	11	User CVs		swap phase & frequency	S/I
BW1	31.25	CV4	0.00	autoshim	On
		CV5	0.00	Range / Prescription	
		CV6	1.00	slices per slab	200
		CV23	100.00	field of view	27.0
				slice thickness	1.2
				number of slices	1




SERIES 5. Axial FLAIR

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	256
Gradient Mode	ZOOM	Mode	2D	Phase	256
Scan Timing		Pulse sequence	T2flair	NEX	1.00
TE	147.0	Imaging Options	EDR, Fast	phase correct	No
TR	11000.0	Additional Parameters 		swap phase & frequency	A/P
TI	2250	User CVs		autoshim	Auto
BW1	31.25	CV3	3.00	Range / Prescription	
		CV21	0.00	field of view	22.0
		CV22	0.00	slice thickness	5.0
				slice spacing	0.0
				number of slices	42


SERIES 6. Axial T2 Star

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	256
Gradient Mode	ZOOM	Mode	2D	Phase	192
Scan Timing		Pulse sequence	Gradient Echo	NEX	1.00
Number of echoes	1	Imaging Options	FC, EDR	phase field of view	1.00
TE	20.0	Additional Parameters		phase correct	No
TR	650.0			swap phase & frequency	A/P
Flip angle	20			autoshim	Auto
BW1	25.00			Range / Prescription	
				field of view	20.0
				slice thickness	4.0
				slice spacing	0.0
				number of slices	44

SERIES 7. Axial DTI

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	128
Gradient Mode	ZOOM	Mode	2D	Phase	128
Scan Timing		Pulse sequence	Spin Echo	phase field of view	0.66
TE	Minimum	Imaging Options	EPI, DIFF, Asset 	phase correct	Yes
TR	12300.0	Additional Parameters		swap phase & frequency	R/L
		User CVs		autoshim	Auto
		CV5	1.00	Range / Prescription	
		CV10	0.00	field of view	35.0
		CV18	1.00	slice thickness	2.7
				slice spacing	0.0
				number of slices	59

SERIES 8. Axial T2-FSE with FAT SAT

Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	256
Gradient Mode	ZOOM	Mode	2D	Phase	256
Scan Timing		Pulse sequence	FRFSE-XL	NEX	1.00
Number of echoes	1	Imaging Options	Fast, FR	phase field of view	1.00
TE	80.0	Additional Parameters		phase correct	Yes
TR	4000.0	User CVs		swap phase & frequency	A/P
ETL	12	CV7	0.00	autoshim	Auto
BW1	15.63	CV8	0.00	Range / Prescription	
		CV19	1.00	field of view	24.0
		CV21	0.00	slice thickness	4.0
		CV22	1.00	slice spacing	0.0
				number of slices	42

Comments DO NOT Oblique the scan
DO NOT Decrease number of slices.
DO NOT Adjust protocol.

SERIES 9. Axial rsfMRI (Eyes Open) 10 min**Patient (RF)**

Coil 8HRBRAIN
 Gradient Mode ZOOM

Imaging

Scan plane AXIAL
 Mode 2D
 Pulse sequence Gradient Echo
 Imaging Options MPh, EPI

Acquisition Timing

Frequency 64
 Phase 64
 NEX 1.00
 phase field of view 1.00
 phase correct Yes
 swap phase & frequency R/L
 autoshim Auto

Scan Timing

TE 30.0
 TR 2925.0
 Flip angle 90

Additional Parameters**User CVs**

CV0 1.00

**Range / Prescription**

field of view 21.0
 slice thickness 3.3
 slice spacing 0.0
 number of slices 48

Comments # OF SLICES MUST BE 48. PLEASE DO NOT ADD/SUBTRACT # OF SLICES. Time= 10:00, TR=2925 @ 3.3 slice thickness.

ENSURE THAT THE SLAB IS POSITIONED INFERIOR TO SUPERIOR.

Instruct the patient to keep their eyes open during this scan and to focus on one spot. This is critical to the results.