0.0

SERIE	S 1. 3 Plane Local	izer			
Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane <mark>3-PLANE</mark>		Frequency	256
Scan	Timing	Mode	2D	Phase	128
J		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	Auto
				Range / Prescription	
				field of view	26.0
				slice thickness	5.0

slice spacing

SERIES 2. Sa	ng IR-FSPGR				
Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	SAGITTAL	Frequency	<mark>256</mark>
Scan Timing		Mode	3D	Phase	<mark>256</mark>
		Pulse sequence	SPGR	NEX	<mark>1.00</mark>
TE	Min Full	Imaging Options	EDR, Fast, IrP	phase field of view	<mark>1.00</mark>
TI	400	Additional Parameters		phase correct	No
Flip angle	11			swap phase & frequency 💭	S/I
BW1	<mark>31.25</mark>	User CVs	0.00	autoshim	<mark>On</mark>
		CV4	0.00	Range / Prescription	
		CV5	0.00	Range / Tresenption	
		CV6	1.00	slices per slab	<mark>200</mark>
		CV23	100.00	field of view	<mark>26.0</mark>
		\bigcirc		slice thickness	<mark>1.2</mark>
				number of slices	1

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

SERIES 3. Calibration Scan

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

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

SERIES 4. A	ccelerated Sag IR	-FSPGR			
Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	SAGITTAL	Frequency	256
Scan Timing		Mode	3D	Phase	256
TE		Pulse sequence	SPGR	NEX	1.00
. –	Min Full	Imaging Options	EDR, Fast, IrP, Asset	phase field of view	1.00
TI	400	Additional Parameter	S	phase correct	No
Flip angle	11		-	swap phase & frequency	S/I
BW1	<mark>31.25</mark>	User CVs		autoshim	On
		CV4	0.00	Range / Prescription	
		CV5	0.00	Range / Prescription	
		CV6	1.00	slices per slab	200
		CV23	100.00	field of view	27.0
		\square		slice thickness	1.2
				number of slices	1

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

Patien	t (RF)	Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	<mark>256</mark>
Scan T	Timing	Mode	<mark>2D</mark>	Phase	<mark>256</mark>
		Pulse sequence	T2flair	NEX	<mark>1.00</mark>
TE TD	147.0	Imaging Options	Fast	phase correct	No
'R 	11000.0	Additional Parameter	S	swap phase & frequency	A/P
TI BW1	2250 31.25	User CVs		autoshim A	
		CV3	3.00	Range / Prescription	
		CV8	<mark>0.00</mark>	field of view	22.0
		CV9	<mark>0.00</mark>	slice thickness	<mark>5.0</mark>
		CV11	<mark>0.00</mark>	slice spacing	<mark>0.0</mark>
		CV14	<mark>0.00</mark>	number of slices	<mark>42</mark>
		CV21	<mark>0.00</mark>		
		CV22	<mark>0.00</mark>		

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

SERIES 6. Axial T2	Star					
Patient (RF)		Imaging		Acquisition Timing	Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	<mark>256</mark>	
Scan Timing		Mode	2D	Phase	<mark>192</mark>	
_	4	Pulse sequence	Gradient Echo	NEX	<mark>1.00</mark>	
Number of echoes	1	Imaging Options	FC, EDR	phase field of view	<mark>1.00</mark>	
TE	20.0	Additional Param	eters	phase correct	No	
TR	<mark>650.0</mark>			swap phase & frequency	A/P	
Flip angle	<mark>20</mark>			autoshim	Auto	
BW1 25.00				Range / Prescription		
				field of view	<mark>20.0</mark>	
				slice thickness	<mark>4.0</mark>	
				slice spacing	<mark>0.0</mark>	
				number of slices	<mark>50</mark>	
	do not oblique. Pleas	se do not reduce the nu	mber of slices.			

Please do not adjust protocol values.

SERIE	S 7. Axial DTI				
Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	128
Scan ⁻	Fiming	Mode	2D	Phase	128
		Pulse sequence	Spin Echo	phase field of view	<mark>0.66</mark>
TE		Imaging Options	EPI, DIFF, Asset	phase correct	Yes
TR	9050.0		\bigcirc	swap phase & frequency	R/L
				autoshim	Auto
			1.00	Range / Prescription	
		CV9	0.00	field of view	<mark>35.0</mark>
		CV18	0.00	slice thickness	2.7
				slice spacing	0.0
				number of slices	<mark>59</mark>

Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values. If you notice that the slice thickness is changed from 2.7 to 2.9 you can fix this bug by turning fat sat off then turning it back on again. Comments



SERIES 8. Ax T2 FSE	with Fat Sat				
Patient (RF)		Imaging		Acquisition Timing	
Coil	8HRBRAIN	Scan plane	AXIAL	Frequency	<mark>256</mark>
Scan Timing		Mode	2D	Phase	<mark>256</mark>
		Pulse sequence	FRFSE-XL	NEX	1.00
Number of echoes	1	Imaging Options	FC, TRF, Fast, FR	phase field of view	1.00
TE	80.0	Additional Paramet		phase correct	Yes
TR	4000.0	Auditional Faramet	ers	Flow comp direction	Slice
ETL	12	User CVs		swap phase & frequency	A/P
BW1	19.23	CV7	0.00		
		CV8	0.00	autoshim	Auto
		CV14	0.00	Range / Prescription	
		CV19	1.00	field of view	24.0
		CV21	1.00	slice thickness	4.0
		CV22	1.00	slice spacing	Intleave
				number of slices	44

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

SERIES 9. Enhanced Axial DTI

Patient (RF)	Imaging		Acqui
Coil <mark>8HRBRAIN</mark>	Scan plane	AXIAL	Freque
Scan Timing	Mode	2D	Phase
TE <mark>Minimum</mark> TR 9050.0	Pulse sequence Imaging Options	Spin Echo EPI, DIFF, Asset 💭	phase f phase o
11 9030.0	Additional Parameters User CVs	\bigcirc	swap p autoshi
	CV5	1.00	Range
	CV9	0.00	field of
	CV18	0.00) 	slice thi slice sp number

isition Timing 128 iency 128 0.66 field of view Yes correct phase & frequency R/L him Auto e / Prescription 35.0 of view hickness 2.7 0.0 spacing er of slices 59

Comments Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

If you notice that the slice thickness is changed from 2.7 to 2.9 you can fix this bug by turning fat sat off then turning it back on again.