

McLeod Pavilion

Protocol: adult_upperExtremities_MSKElbow

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Flex Medium Array	Imaging Options	NPW, Seq, EDR, Fast, SS, ARC
Plane	3-PLANE	SCAN RANGE	
Series Description	3 Plane Localizer	FOV	48.0
SCAN TIMING		Slice Thickness	5.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	ACQ TIMING	
TR	Minimum	Freq	384
Receiver Bandwidth	83.33	Phase	256
IMAGE ENHANCE		Freq DIR	Unswap
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV2	240.00
# of Repetitions REST	0	User CV13	1.00
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	Off	CONTRAST	
		Contrast Yes/No	No

3 Plane Localizer

3 Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Flex Medium Array	Imaging Options	NPW, Seq, EDR, Fast, SS, ARC
Plane	3-PLANE		
Series Description	3 Plane Localizer SFOV		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	20.0
Number of Echoes	1	Slice Thickness	5.0
TR	Minimum	Slice Spacing	5.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	384
		Phase	256
		Freq DIR	Unswap
		# of Acq. Before Pause	0
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
		Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV2	240.00
View Order	Bottom/Up	User CV13	1.00
# of Repetitions REST	0		
# of Repetitions ACTIVE	0	MULTI-PHASE	
		Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

3 Plane Localizer SFOV

3 Plane Localizer SFOV

McLeod Pavilion

Protocol: adult_upperExtremities_MSK Elbow

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>SPGR</i>
Coil Configuration	<i>GEM Flex Medium Array</i>	Imaging Options	<i>EDR, Fast, ZIP2, Calib</i>
Plane	<i>AXIAL</i>	IMAGE ENHANCE	
Series Description	<i>Calibration</i>	Filter Choice	<i>None</i>
SCAN RANGE		GATING/TRIGGER	
FOV	<i>25.0</i>	Auto Trigger Type	<i>Off</i>
Slice Thickness	<i>10.0</i>	MULTI-PHASE	
ACQ TIMING		Seperate Series	<i>0</i>
Freq DIR	<i>A/P</i>	Mask Phase	<i>0</i>
Auto Shim	<i>Auto</i>	Mask Pause	<i>0</i>
Phase Correction	<i>No</i>	DIFFUSION	
FMRI		Recon All Images	<i>On</i>
PSD Trigger	<i>Internal</i>	CONTRAST	
Slice Order	<i>Interleaved</i>	Contrast Yes/No	<i>No</i>
View Order	<i>Bottom/Up</i>		
# of Repetitions REST	<i>0</i>		
# of Repetitions ACTIVE	<i>0</i>		
SAT			
Tag Type	<i>None</i>		
TRICKS			
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>Off</i>		

Calibration

Calibration

McLeod Pavilion

Protocol: adult_upperExtremities_MSK Elbow

Ax T1 FSE	PATIENT POSITION		IMAGING PARAMETERS		Ax T1 FSE
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>	
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>	
	Coil Configuration	<i>Extremity</i>	Imaging Options	<i>EDR, TRF, Fast</i>	
	Plane	<i>OBLIQUE</i>	SCAN RANGE		
	Series Description	<i>Ax T1 FSE</i>	FOV	<i>14.0</i>	
	SCAN TIMING		Slice Thickness	<i>4.0</i>	
	Flip Angle	<i>111</i>	Slice Spacing	<i>1.0</i>	
	TE	<i>Min Full</i>	ACQ TIMING		
	Number of Echoes	<i>1</i>	Freq	<i>320</i>	
	TR	<i>609.0</i>	Phase	<i>224</i>	
	Echo Train Length	<i>2</i>	Freq DIR	<i>A/P</i>	
	Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (A)</i>	
	IMAGE ENHANCE		NEX	<i>1.00</i>	
	Filter Choice	<i>B</i>	# of Acq. Before Pause	<i>0</i>	
	GATING/TRIGGER		Phase FOV	<i>0.80</i>	
	Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>	
	FMRI		Phase Correction	<i>Yes</i>	
	PSD Trigger	<i>Internal</i>	USER CVS		
	View Order	<i>Bottom/Up</i>	User CV8	<i>1.00</i>	
	# of Repetitions REST	<i>0</i>	User CV16	<i>1.00</i>	
	# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>400.0</i>	
	SAT		TR Max	<i>850.0</i>	
	Tag Type	<i>None</i>	MULTI-PHASE		
	TRICKS		Seperate Series	<i>0</i>	
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>		
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>		
Auto SCIC	<i>2</i>	DIFFUSION			
OTHERS		Recon All Images	<i>On</i>		
Protocol Notes	<i>MAKE SURE OPPOSITE FOOT IS AWAY FROM COIL TO AVOID WRAP.</i>	CONTRAST			
		Contrast Yes/No	<i>No</i>		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>Body</i>	Imaging Options	<i>NPW, Seq, TRF, Fast, IrP</i>
Plane	<i>OBLIQUE</i>	PSD Name	<i>fse-xl</i>
Series Description	<i>Axial FSE STIR</i>	SCAN RANGE	
SCAN TIMING		FOV	<i>14.0</i>
Flip Angle	<i>111</i>	Slice Thickness	<i>4.0</i>
TE	<i>50.0</i>	Slice Spacing	<i>1.0</i>
Number of Echoes	<i>1</i>	ACQ TIMING	
TR	<i>3327.0</i>	Freq	<i>320</i>
TI	<i>170</i>	Phase	<i>192</i>
Echo Train Length	<i>7</i>	Freq DIR	<i>Unswap</i>
Receiver Bandwidth	<i>15.63</i>	Fat Shift DIR	<i>Normal</i>
IMAGE ENHANCE		NEX	<i>2.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	USER CVS	
FMRI		User CV22	<i>1.00</i>
PSD Trigger	<i>Internal</i>	TR Min	<i>2000.0</i>
View Order	<i>Bottom/Up</i>	TR Max	<i>15000.0</i>
# of Repetitions REST	<i>0</i>	MULTI-PHASE	
# of Repetitions ACTIVE	<i>0</i>	Seperate Series	<i>0</i>
SAT		Mask Phase	<i>0</i>
Tag Type	<i>None</i>	Mask Pause	<i>0</i>
TRICKS		DIFFUSION	
Pause On/Off	<i>On</i>	Recon All Images	<i>On</i>
Auto Subtract	<i>0</i>	CONTRAST	
Auto SCIC	<i>Off</i>	Contrast Yes/No	<i>No</i>

Axial FSE STIR

Axial FSE STIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Medium Array	Imaging Options	NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	cor T1 FSE	FOV	13.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	416
TR	648.0	Phase	288
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	500.0
# of Repetitions ACTIVE	0	TR Max	850.0
SAT		MULTI-PHASE	
SAT Location	S	Seperate Series	0
SAT Location	I	Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	2	Contrast Yes/No	No

cor T1 FSE

cor T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>Extremity</i>	Imaging Options	<i>EDR, TRF, Fast, FR</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>Cor PD frFSE FS</i>	FOV	<i>13.0</i>
SCAN TIMING		Slice Thickness	<i>3.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>0.5</i>
TE	<i>35.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>2882.0</i>	Phase	<i>224</i>
Echo Train Length	<i>6</i>	Freq DIR	<i>Unswap</i>
Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal</i>
IMAGE ENHANCE		NEX	<i>2.00</i>
Filter Choice	<i>A</i>	Phase FOV	<i>0.80</i>
GATING/TRIGGER		Auto Shim	<i>Auto</i>
Auto Trigger Type	<i>Off</i>	Phase Correction	<i>Yes</i>
FMRI		USER CVS	
PSD Trigger	<i>Internal</i>	User CV8	<i>1.00</i>
View Order	<i>Bottom/Up</i>	User CV19	<i>0.80</i>
# of Repetitions REST	<i>0</i>	User CV21	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>1800.0</i>
SAT		TR Max	<i>6000.0</i>
Tag Type	<i>None</i>	MULTI-PHASE	
Fat/Water Saturation	<i>Fat Classic</i>	Seperate Series	<i>0</i>
TRICKS		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>
Auto Subtract	<i>0</i>	DIFFUSION	
Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

Cor PD frFSE FS

Cor PD frFSE FS

McLeod Pavilion

Protocol: adult_upperExtremities_MSK Elbow

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>SPGR</i>
Coil Configuration	<i>Head;Neck</i>	Imaging Options	<i>NPW, EDR, Fast, ZIP512</i>
Plane	<i>CORONAL</i>	SCAN RANGE	
Series Description	<i>3D cor T1 FSPGR</i>	FOV	<i>15.0</i>
SCAN TIMING		Slice Thickness	<i>1.5</i>
Flip Angle	<i>12</i>	Location per Slab	<i>32</i>
TE	<i>Min Full</i>	Overlap Locations	<i>0</i>
Number of Echoes	<i>1</i>	ACQ TIMING	
Receiver Bandwidth	<i>31.25</i>	Freq	<i>256</i>
IMAGE ENHANCE		Phase	<i>256</i>
Filter Choice	<i>G</i>	Freq DIR	<i>S/I</i>
GATING/TRIGGER		NEX	<i>2.00</i>
Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>
FMRI		Phase Correction	<i>No</i>
Initial State	<i>Control</i>	USER CVS	
PSD Trigger	<i>Internal</i>	User CV6	<i>2.00</i>
View Order	<i>Bottom/Up</i>	MULTI-PHASE	
# of Repetitions REST	<i>0</i>	Seperate Series	<i>0</i>
# of Repetitions ACTIVE	<i>0</i>	Trigger Delay without AV	<i>0</i>
SAT		Mask Phase	<i>0</i>
Tag Type	<i>None</i>	Mask Pause	<i>0</i>
Fat/Water Saturation	<i>Fat</i>	DIFFUSION	
TRICKS		Recon All Images	<i>On</i>
Pause On/Off	<i>On</i>	CONTRAST	
Auto Subtract	<i>0</i>	Contrast Yes/No	<i>No</i>
Auto SCIC	<i>2</i>		

3D cor T1 FSPGR

3D cor T1 FSPGR

McLeod Pavilion

Protocol: adult_upperExtremities_MSKElbow

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, Seq, EDR, TRF, Fast, ARC, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	Sag STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	142	FOV	13.0
TE	50.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	6936.0		
TI	170	ACQ TIMING	
Echo Train Length	11	Freq	320
Receiver Bandwidth	31.25	Phase	224
		Freq DIR	Unswap
		Fat Shift DIR	Normal
		NEX	2.00
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV7	1.00
		User CV8	1.00
		User CV17	1.00
		User CV22	1.00
		TR Min	2000.0
		TR Max	15000.0
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	Off	Seperate Series	0
		Mask Phase	0
		Mask Pause	0
FMRI		DIFFUSION	
PSD Trigger	Internal	Recon All Images	On
View Order	Bottom/Up		
# of Repetitions REST	0	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

Sag STIR

Sag STIR

McLeod Pavilion

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-IF CONTRAST-	PATIENT POSITION		IMAGING PARAMETERS		-IF CONTRAST-	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>		
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Gradient Echo</i>		
	Coil Configuration	<i>Extremity</i>	Imaging Options	<i>Seq, Fast</i>		
	Plane	<i>3-PLANE</i>	Acceleration Factor	<i>1.00</i>		
	Series Description	<i>-IF CONTRAST-</i>	IMAGE ENHANCE			
	SCAN RANGE		Filter Choice	<i>None</i>		
	FOV	<i>24.0</i>	GATING/TRIGGER			
	Slice Thickness	<i>10.0</i>	Auto Trigger Type	<i>Off</i>		
	Slice Spacing	<i>5.0</i>	MULTI-PHASE			
	ACQ TIMING		# of Acquisition	<i>0</i>		
	Freq	<i>256</i>	Seperate Series	<i>0</i>		
	Phase	<i>128</i>	Mask Phase	<i>0</i>		
	Freq DIR	<i>Unswap</i>	Mask Pause	<i>0</i>		
	NEX	<i>1.00</i>	ASSET			
	Phase FOV	<i>1.00</i>	Slice Acceleration Factor	<i>1.00</i>		
	Auto Shim	<i>Auto</i>	Phase Acceleration Factor	<i>1.00</i>		
	Phase Correction	<i>No</i>	CONTRAST			
	FMRI		Contrast Yes/No	<i>No</i>		
	PSD Trigger	<i>Internal</i>				
	Slice Order	<i>Interleaved</i>				
	View Order	<i>Bottom/Up</i>				
	# of Repetitions REST	<i>0</i>				
	# of Repetitions ACTIVE	<i>0</i>				
	SAT					
Tag Type	<i>None</i>					
TRICKS						
Pause On/Off	<i>On</i>					
Auto Subtract	<i>0</i>					
Auto SCIC	<i>Off</i>					

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>Extremity</i>	Imaging Options	<i>EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>+C Ax T1 FSE</i>	FOV	<i>14.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.0</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>427.0</i>	Phase	<i>224</i>
Echo Train Length	<i>2</i>	Freq DIR	<i>A/P</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (A)</i>
IMAGE ENHANCE		NEX	<i>1.00</i>
Filter Choice	<i>B</i>	# of Acq. Before Pause	<i>0</i>
GATING/TRIGGER		Phase FOV	<i>0.80</i>
Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>
FMRI		Phase Correction	<i>Yes</i>
PSD Trigger	<i>Internal</i>	USER CVS	
View Order	<i>Bottom/Up</i>	User CV8	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV16	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	User CV19	<i>1.00</i>
SAT		TR Min	<i>400.0</i>
Tag Type	<i>None</i>	TR Max	<i>850.0</i>
Fat/Water Saturation	<i>Fat</i>	MULTI-PHASE	
TRICKS		Seperate Series	<i>0</i>
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>
Auto SCIC	<i>2</i>	DIFFUSION	
OTHERS		Recon All Images	<i>On</i>
Protocol Notes	<i>MAKE SURE OPPOSITE FOOT IS AWAY FROM COIL TO AVOID WRAP.</i>	CONTRAST	
		Contrast Yes/No	<i>Yes</i>

+C Ax T1 FSE

+C Ax T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Medium Array	Imaging Options	NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	+C cor T1 FSE	FOV	13.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	416
TR	755.0	Phase	288
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	500.0
SAT		TR Max	850.0
SAT Location	S	MULTI-PHASE	
SAT Location	I	Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	2	Contrast Yes/No	Yes

+C cor T1 FSE

+C cor T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Medium Array	Imaging Options	NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	+C SAG T1 FSE	FOV	13.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	416
TR	755.0	Phase	288
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	500.0
SAT		TR Max	850.0
SAT Location	S	MULTI-PHASE	
SAT Location	I	Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	2	Contrast Yes/No	Yes

+C SAG T1 FSE

+C SAG T1 FSE