

Protocol: adult\_upperExtremities\_MSK Right Shoulder

3 Plane Localizer right	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		3 Plane Localizer right
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	Extremity	Imaging Options	Seq, EDR, Fast, SS	
	Plane	3-PLANE	<b>SCAN RANGE</b>		
	Series Description	3 Plane Localizer right	FOV	28.0	
	<b>SCAN TIMING</b>		Slice Thickness	10.0	
	TE	85.0	Slice Spacing	5.0	
	Number of Echoes	1	<b>ACQ TIMING</b>		
	TR	Minimum	Freq	256	
	Receiver Bandwidth	83.33	Phase	160	
	<b>IMAGE ENHANCE</b>		Freq DIR	Unswap	
	Filter Choice	None	# of Acq. Before Pause	0	
	<b>GATING/TRIGGER</b>		Phase FOV	1.00	
	Auto Trigger Type	Off	Auto Shim	Auto	
	<b>FMRI</b>		Phase Correction	No	
	PSD Trigger	Internal	<b>USER CVS</b>		
	View Order	Bottom/Up	User CV1	1.00	
	# of Repetitions REST	0	User CV2	240.00	
	# of Repetitions ACTIVE	0	User CV13	1.00	
<b>SAT</b>		<b>MULTI-PHASE</b>			
Tag Type	None	Seperate Series	0		
Fat/Water Saturation	Fat	Mask Phase	0		
<b>TRICKS</b>		Mask Pause	0		
Pause On/Off	On	<b>DIFFUSION</b>			
Auto Subtract	0	Recon All Images	On		
Auto SCIC	Off	<b>CONTRAST</b>			
<b>OTHERS</b>		Contrast Yes/No	No		
Protocol Notes	Please add this to the protocol now				

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	Extremity	Imaging Options	EDR, Fast, ZIP2, Calib
Plane	AXIAL	<b>SCAN RANGE</b>	
Series Description	Calibration	FOV	25.0
<b>SCAN TIMING</b>		Slice Thickness	10.0
Number of Echoes	1	<b>ACQ TIMING</b>	
<b>IMAGE ENHANCE</b>		Freq DIR	R/L
Filter Choice	None	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	No
Auto Trigger Type	Off	<b>FMRI</b>	
<b>MULTI-PHASE</b>		PSD Trigger	Internal
Seperate Series	0	Slice Order	Interleaved
Mask Phase	0	View Order	Bottom/Up
Mask Pause	0	# of Repetitions REST	0
<b>DIFFUSION</b>		# of Repetitions ACTIVE	0
Recon All Images	On	<b>SAT</b>	
<b>CONTRAST</b>		Tag Type	None
Contrast Yes/No	No	<b>TRICKS</b>	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off

Calibration

Calibration

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	Extremity	Imaging Options	NPW
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	Ax T2* GRE	FOV	13.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	20	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	416
TR	550.0	Phase	224
Receiver Bandwidth	20.83	Freq DIR	R/L
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	No
Auto Trigger Type	Off	<b>FMRI</b>	
<b>MULTI-PHASE</b>		PSD Trigger	Internal
Seperate Series	0	View Order	Bottom/Up
Mask Phase	0	# of Repetitions REST	0
Mask Pause	0	# of Repetitions ACTIVE	0
<b>DIFFUSION</b>		<b>SAT</b>	
Recon All Images	On	Tag Type	None
<b>CONTRAST</b>		<b>TRICKS</b>	
Contrast Yes/No	No	Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2

Ax T2\* GRE

Ax T2\* GRE

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<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast, FR
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	Ax PD frFSE FS	FOV	14.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	30.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	352
TR	2409.0	Phase	224
Echo Train Length	8	Freq DIR	R/L
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
<b>IMAGE ENHANCE</b>		NEX	3.00
Filter Choice	A	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	Yes
Auto Trigger Type	Off	<b>USER CVS</b>	
<b>FMRI</b>		User CV8	1.00
PSD Trigger	Internal	User CV19	1.00
Slice Order	Interleaved	User CV22	1.00
View Order	Bottom/Up	TR Min	2000.0
# of Repetitions REST	0	TR Max	11000.0
# of Repetitions ACTIVE	0	<b>MULTI-PHASE</b>	
<b>SAT</b>		Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat Classic	Mask Pause	0
<b>TRICKS</b>		<b>DIFFUSION</b>	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	<b>CONTRAST</b>	
Auto SCIC	2	Contrast Yes/No	No

Ax PD frFSE FS

Ax PD frFSE FS

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<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	Cor T2 FSE FS	FOV	14.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	68.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	320
TR	4716.0	Phase	224
Echo Train Length	18	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
<b>IMAGE ENHANCE</b>		NEX	3.00
Filter Choice	A	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	Yes
Auto Trigger Type	Off	<b>USER CVS</b>	
<b>FMRI</b>		User CV8	1.00
PSD Trigger	Internal	User CV19	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	3000.0
# of Repetitions ACTIVE	0	TR Max	10000.0
<b>SAT</b>		<b>MULTI-PHASE</b>	
SAT Location	L	Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat Classic	Mask Pause	0
<b>TRICKS</b>		<b>DIFFUSION</b>	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	<b>CONTRAST</b>	
Auto SCIC	2	Contrast Yes/No	No

Cor T2 FSE FS

Cor T2 FSE FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, Seq, EDR, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	Cor STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	142	FOV	16.0
TE	50.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	5799.0		
TI	170	ACQ TIMING	
Echo Train Length	11	Freq	320
Receiver Bandwidth	31.25	Phase	224
IMAGE ENHANCE		Freq DIR	Unswap
Filter Choice	None	Fat Shift DIR	Normal
GATING/TRIGGER		NEX	2.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV7	1.00
# of Repetitions REST	0	User CV8	1.00
# of Repetitions ACTIVE	0	User CV17	1.00
SAT		User CV22	1.00
SAT Location	S	TR Min	2000.0
SAT Location	I	TR Max	15000.0
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Cor STIR

Cor STIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	Sag T2 FSE FS	FOV	14.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	68.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	352
TR	4322.0	Phase	224
Echo Train Length	16	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
<b>IMAGE ENHANCE</b>		NEX	3.00
Filter Choice	A	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	Yes
Auto Trigger Type	Off	<b>USER CVS</b>	
<b>FMRI</b>		User CV8	1.00
PSD Trigger	Internal	User CV19	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	3000.0
# of Repetitions ACTIVE	0	TR Max	10000.0
<b>SAT</b>		<b>MULTI-PHASE</b>	
Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat Classic	Mask Phase	0
<b>TRICKS</b>		Mask Pause	0
Pause On/Off	On	<b>DIFFUSION</b>	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	<b>CONTRAST</b>	
		Contrast Yes/No	No

Sag T2 FSE FS

Sag T2 FSE FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	Sag T1 FSE	FOV	14.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	352
TR	693.0	Phase	256
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	Yes
Auto Trigger Type	Off	<b>USER CVS</b>	
<b>FMRI</b>		User CV8	1.00
PSD Trigger	Internal	User CV22	1.00
View Order	Bottom/Up	TR Min	400.0
# of Repetitions REST	0	TR Max	850.0
# of Repetitions ACTIVE	0	<b>MULTI-PHASE</b>	
<b>SAT</b>		Seperate Series	0
Tag Type	None	Mask Phase	0
<b>TRICKS</b>		Mask Pause	0
Pause On/Off	On	<b>DIFFUSION</b>	
Auto Subtract	0	Recon All Images	On
Auto SCIC	Off	<b>CONTRAST</b>	
		Contrast Yes/No	No

Sag T1 FSE

Sag T1 FSE



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

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

+C Ax T1 FSE

+C Ax T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	+C cor T1 FSE	FOV	13.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
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)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
<b>FMRI</b>		<b>USER CVS</b>	
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
<b>SAT</b>		TR Max	850.0
SAT Location	S	<b>MULTI-PHASE</b>	
SAT Location	I	Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat	Mask Pause	0
<b>TRICKS</b>		<b>DIFFUSION</b>	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	<b>CONTRAST</b>	
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	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Extremity	Imaging Options	NPW, EDR, TRF, Fast
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	+C SAG T1 FSE	FOV	13.0
<b>SCAN TIMING</b>		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
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)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
<b>FMRI</b>		<b>USER CVS</b>	
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
<b>SAT</b>		TR Max	850.0
SAT Location	S	<b>MULTI-PHASE</b>	
SAT Location	I	Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat	Mask Pause	0
<b>TRICKS</b>		<b>DIFFUSION</b>	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	<b>CONTRAST</b>	
Auto SCIC	2	Contrast Yes/No	Yes

+C SAG T1 FSE

+C SAG T1 FSE