

Protocol: adult\_upperExtremities\_SHOULDER LEFT 11-7-17

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE	<b>SCAN RANGE</b>	
Series Description	3-Plane Localizer Left	FOV	22.0
<b>SCAN TIMING</b>		Slice Thickness	7.0
TE	Minimum	Slice Spacing	0.0
Number of Echoes	1	<b>ACQ TIMING</b>	
TR	Minimum	Freq	192
Receiver Bandwidth	83.33	Phase	128
<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	Off
<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 CV16	1.00
# 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

3-Plane Localizer Left

3-Plane Localizer Left

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Ax T2W FSE FS	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	NPW, TRF, Fast, FR
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Ax T2W FSE FS	FOV	12.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.0
	TE	55.0	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	288
	TR	3144.0	Phase	224
	Echo Train Length	16	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	4.00
	Filter Choice	None	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	2500.0
	# of Repetitions ACTIVE	0	TR Max	6000.0
	<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	Off	<b>CONTRAST</b>		
		Contrast Yes/No	No	

Ax T2W FSE FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	NPW
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	AXIAL GRE	FOV	12.0
<b>SCAN TIMING</b>		Slice Thickness	4.0
Flip Angle	33	Slice Spacing	1.0
TE	15.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	320
TR	425.0	Phase	224
Receiver Bandwidth	22.73	Freq DIR	R/L
<b>IMAGE ENHANCE</b>		NEX	2.00
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	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	Off

AXIAL GRE

AXIAL GRE

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CORONAL T2W FAT SAT	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	NPW, EDR, TRF, Fast, FR
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	CORONAL T2W FAT SAT	FOV	12.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.0
	TE	56.0	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	288
	TR	2628.0	Phase	224
	Echo Train Length	16	Freq DIR	S/I
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (I)
	<b>IMAGE ENHANCE</b>		NEX	4.00
	Filter Choice	None	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 CV9	1.00
	View Order	Bottom/Up	User CV15	2.00
# of Repetitions REST	0	User CV19	1.00	
# of Repetitions ACTIVE	0	TR Min	2500.0	
<b>SAT</b>		TR Max	6000.0	
Tag Type	None	<b>MULTI-PHASE</b>		
Fat/Water Saturation	Fat Classic	Seperate Series	0	
<b>TRICKS</b>		Mask Phase	0	
Pause On/Off	On	Mask Pause	0	
Auto Subtract	0	<b>DIFFUSION</b>		
Auto SCIC	Off	Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

CORONAL T2W FAT SAT

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	NPW, EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAGITTAL T1W	FOV	12.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	1.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	384
TR	600.0	Phase	192
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Auto Shim	Auto
GATING/TRIGGER		Phase Correction	Yes
Auto Trigger Type	Off	USER CVS	
FMRI		User CV8	2.00
PSD Trigger	Internal	TR Min	450.0
View Order	Bottom/Up	TR Max	750.0
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	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

SAGITTAL T1W

SAGITTAL T1W

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	16ch GE Shoulder Coil by Invivo	Imaging Options	NPW, EDR, TRF, Fast, FR
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	SAGITTAL T2W FAT SAT	FOV	12.0
<b>SCAN TIMING</b>		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	1.5
TE	56.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	288
TR	2913.0	Phase	224
Echo Train Length	16	Freq DIR	S/I
Receiver Bandwidth	35.71	Fat Shift DIR	Normal (S)
<b>IMAGE ENHANCE</b>		NEX	4.00
Filter Choice	None	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 CV9	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	TR Min	2500.0
# of Repetitions ACTIVE	0	TR Max	6000.0
<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	Off	<b>CONTRAST</b>	
		Contrast Yes/No	No

SAGITTAL T2W FAT SAT

SAGITTAL T2W FAT SAT