

Protocol: adult_upperExtremities_SHOULDER

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	3Ch Shoulder Array by GE	Imaging Options	Seq, Fast
Plane	3-PLANE	SCAN RANGE	
Series Description	LOC	FOV	30.0
SCAN TIMING		Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	5.0
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
GATING/TRIGGER		Phase	128
Auto Trigger Type	Off	Freq DIR	Unswap
MULTI-PHASE		NEX	1.00
Seperate Series	0	Phase FOV	1.00
Mask Phase	0	Auto Shim	Auto
Mask Pause	0	Phase Correction	No
DIFFUSION		FMRI	
Recon All Images	On	PSD Trigger	Internal
CONTRAST		Slice Order	Interleaved
Contrast Yes/No	No	View Order	Bottom/Up
		# of Repetitions REST	0
		# of Repetitions ACTIVE	0
		SAT	
		Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off

LOC

LOC

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	3Ch Shoulder Array by GE	Imaging Options	NPW, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX PD FSE FS	FOV	16.0
SCAN TIMING		Slice Thickness	3.5
Flip Angle	120	Slice Spacing	0.5
TE	30.0	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	2166.0	Phase	224
Echo Train Length	8	Freq DIR	R/L
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
IMAGE ENHANCE		NEX	3.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	1.00
Slice Order	Interleaved	User CV19	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	2000.0
# of Repetitions ACTIVE	0	TR Max	4000.0
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	On	CONTRAST	
		Contrast Yes/No	No

AX PD FSE FS

AX PD FSE FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	MERGE
Coil Configuration	3Ch Shoulder Array by GE	Imaging Options	FC, NPW, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax GRE T2*	FOV	16.0
SCAN TIMING		Slice Thickness	3.5
Flip Angle	20	Slice Spacing	0.5
Number of Echoes	3	ACQ TIMING	
TR	600.0	Freq	288
Receiver Bandwidth	31.25	Phase	192
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	NEX	2.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	TR Min	600.0
View Order	Bottom/Up	TR Max	1000.0
# 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	On	Contrast Yes/No	No

Ax GRE T2*

Ax GRE T2*

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	3Ch Shoulder Array by GE	Imaging Options	FC, NPW, EDR, TRF, Fast, FR, MRF
Plane	OBLIQUE		
Series Description	Cor T2 frFSE FS		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	16.0
TE	75.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	4136.0		
Echo Train Length	16	ACQ TIMING	
Receiver Bandwidth	22.73	Freq	288
		Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (I)
		NEX	3.00
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	2500.0
		TR Max	5000.0
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
Slice Order	Interleaved		
View Order	Bottom/Up	CONTRAST	
# of Repetitions REST	0	Contrast Yes/No	No
# of Repetitions ACTIVE	0		
SAT			
Tag Type	None		
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	On		

Cor T2 frFSE FS

Cor T2 frFSE 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	3Ch Shoulder Array by GE	Imaging Options	NPW, Seq, Fast, MRF, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	Cor STIR	FOV	16.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	180	Slice Spacing	1.0
TE	35.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	5154.0	Phase	160
TI	140	Freq DIR	S/I
Echo Train Length	10	Fat Shift DIR	Normal (I)
Receiver Bandwidth	20.83	NEX	2.00
IMAGE ENHANCE		Phase FOV	1.00
Filter Choice	None	Auto Shim	Auto
GATING/TRIGGER		Phase Correction	No
Auto Trigger Type	Off	USER CVS	
FMRI		User CV22	1.00
PSD Trigger	Internal	TR Min	3000.0
Slice Order	Interleaved	TR Max	6000.0
View Order	Bottom/Up	MULTI-PHASE	
# of Repetitions REST	0	Seperate Series	0
# of Repetitions ACTIVE	0	Mask Phase	0
SAT		Mask Pause	0
SAT Location	I	DIFFUSION	
Tag Type	None	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	No
Auto Subtract	0		
Auto SCIC	On		

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	3Ch Shoulder Array by GE	Imaging Options	NPW, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1 FSE	FOV	16.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	1.0
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	513.0	Phase	224
Echo Train Length	2	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV22	1.00
Slice Order	Interleaved	TR Min	300.0
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	On	Contrast Yes/No	No

SAG T1 FSE

SAG 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	3Ch Shoulder Array by GE	Imaging Options	FC, NPW, EDR, TRF, Fast, FR, MRF
Plane	OBLIQUE		
Series Description	SAG T2 frFSE FS		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	16.0
TE	75.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	4317.0		
Echo Train Length	16	ACQ TIMING	
Receiver Bandwidth	20.83	Freq	288
		Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (S)
		NEX	3.00
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	2500.0
		TR Max	5000.0
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
Slice Order	Interleaved		
View Order	Bottom/Up	CONTRAST	
# of Repetitions REST	0	Contrast Yes/No	No
# of Repetitions ACTIVE	0		
SAT			
Tag Type	None		
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	On		

SAG T2 frFSE FS

SAG T2 frFSE FS