

Protocol: adult_upperExtremities_Wrist W/WO GAD(MASS/SYNOVITIS)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Fiesta
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	Seq, Fast
Plane	3-PLANE	SCAN RANGE	
Series Description	3-Plane Localizer	FOV	24.0
SCAN TIMING		Slice Thickness	5.0
Flip Angle	50	Slice Spacing	5.0
TE	Minimum	ACQ TIMING	
Number of Echoes	1	Freq	256
Receiver Bandwidth	62.50	Phase	128
IMAGE ENHANCE		Freq DIR	Unswap
Filter Choice	None	NEX	1.00
GATING/TRIGGER		# of Acq. Before Pause	0
Auto Trigger Type	Off	Phase FOV	1.00
MULTI-PHASE		Auto Shim	Auto
Seperate Series	0	Phase Correction	No
Mask Phase	0	FMRI	
Mask Pause	0	PSD Trigger	Internal
DIFFUSION		Slice Order	Interleaved
Recon All Images	On	View Order	Bottom/Up
CONTRAST		# of Repetitions REST	0
Contrast Yes/No	No	# of Repetitions ACTIVE	0
		SAT	
		Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off

3-Plane Localizer

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	Fast, Calib
Plane	AXIAL	PSD Name	cal2d
Series Description	2D Calibration	IMAGE ENHANCE	
SCAN RANGE		Filter Choice	None
FOV	30.0	GATING/TRIGGER	
Slice Thickness	7.0	Auto Trigger Type	Off
Slice Spacing	0.0	MULTI-PHASE	
ACQ TIMING		Seperate Series	0
Freq DIR	R/L	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		

2D Calibration

2D Calibration

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AX T1 FS	PATIENT POSITION		IMAGING PARAMETERS		AX T1 FS
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	AX T1 FS	FOV	12.0	
	SCAN TIMING		Slice Thickness	2.6	
	TE	Min Full	Slice Spacing	0.2	
	Number of Echoes	1	ACQ TIMING		
	TR	450.0	Freq	320	
	Receiver Bandwidth	27.78	Phase	224	
	IMAGE ENHANCE		Freq DIR	Unswap	
	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	User CV4	1.00	
	View Order	Bottom/Up	TR Min	450.0	
	# of Repetitions REST	0	TR Max	650.0	
# of Repetitions ACTIVE	0	MULTI-PHASE			
SAT		Seperate Series	0		
SAT Location	S	Mask Phase	0		
SAT Location	I	Mask Pause	0		
Tag Type	None	DIFFUSION			
Fat/Water Saturation	Fat	Recon All Images	On		
TRICKS		CONTRAST			
Pause On/Off	On	Contrast Yes/No	No		
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	HD Wrist Array by Invivo	Imaging Options	FC, Seq, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	AX STIR	SCAN RANGE	
SCAN TIMING		FOV	12.0
Flip Angle	160	Slice Thickness	2.6
TE	42.0	Slice Spacing	0.2
Number of Echoes	1	ACQ TIMING	
TR	3800.0	Freq	288
TI	110	Phase	160
Echo Train Length	6	Freq DIR	Unswap
Receiver Bandwidth	20.83	Fat Shift DIR	Normal
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		Flow Direction Compensation	Slice
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	TR Min	3000.0
View Order	Bottom/Up	TR Max	5000.0
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
SAT Location	S	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	Off		

AX STIR

AX STIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T1 SE	FOV	12.0
SCAN TIMING		Slice Thickness	2.6
TE	Min Full	Slice Spacing	0.2
Number of Echoes	1	ACQ TIMING	
TR	540.0	Freq	320
Receiver Bandwidth	27.78	Phase	224
IMAGE ENHANCE		Freq DIR	Unswap
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	User CV4	1.00
View Order	Bottom/Up	TR Min	450.0
# of Repetitions REST	0	TR Max	650.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
SAT Location	S	Mask Phase	0
SAT Location	I	Mask Pause	0
Tag Type	None	DIFFUSION	
TRICKS		Recon All Images	On
Pause On/Off	On	CONTRAST	
Auto Subtract	0	Contrast Yes/No	No
Auto SCIC	Off		

COR T1 SE

COR T1 SE

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COR STIR	PATIENT POSITION		IMAGING PARAMETERS		COR STIR
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	FSE-XL	
	Coil Configuration	HD Wrist Array by Invivo	Imaging Options	FC, Seq, TRF, Fast, IrP	
	Plane	OBLIQUE	PSD Name	fse-xl	
	Series Description	COR STIR	SCAN RANGE		
	SCAN TIMING		FOV	12.0	
	Flip Angle	160	Slice Thickness	2.6	
	TE	42.0	Slice Spacing	0.2	
	Number of Echoes	1	ACQ TIMING		
	TR	3800.0	Freq	288	
	TI	110	Phase	160	
	Echo Train Length	6	Freq DIR	Unswap	
	Receiver Bandwidth	20.83	Fat Shift DIR	Normal	
	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		Flow Direction Compensation	Slice	
	PSD Trigger	Internal	USER CVS		
	Slice Order	Interleaved	TR Min	3000.0	
	View Order	Bottom/Up	TR Max	5000.0	
	# of Repetitions REST	0	MULTI-PHASE		
	# of Repetitions ACTIVE	0	Seperate Series	0	
	SAT		Mask Phase	0	
SAT Location	S	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	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	HD Wrist Array by Invivo	Imaging Options	FC, Seq, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	SAG STIR	SCAN RANGE	
SCAN TIMING		FOV	12.0
Flip Angle	160	Slice Thickness	2.6
TE	42.0	Slice Spacing	0.2
Number of Echoes	1	ACQ TIMING	
TR	3800.0	Freq	288
TI	110	Phase	160
Echo Train Length	6	Freq DIR	Unswap
Receiver Bandwidth	20.83	Fat Shift DIR	Normal
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		Flow Direction Compensation	Slice
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV22	1.00
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	S	DIFFUSION	
SAT Location	I	Recon All Images	On
Tag Type	None	CONTRAST	
TRICKS		Contrast Yes/No	No
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

SAG STIR

SAG STIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1 FS	FOV	12.0
SCAN TIMING		Slice Thickness	2.6
TE	Min Full	Slice Spacing	0.2
Number of Echoes	1	ACQ TIMING	
TR	450.0	Freq	320
Receiver Bandwidth	27.78	Phase	224
IMAGE ENHANCE		Freq DIR	Unswap
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	User CV4	1.00
View Order	Bottom/Up	TR Min	450.0
# of Repetitions REST	0	TR Max	650.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
SAT Location	S	Mask Phase	0
SAT Location	I	Mask Pause	0
Tag Type	None	DIFFUSION	
Fat/Water Saturation	Fat	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	No
Auto Subtract	0		
Auto SCIC	Off		

SAG T1 FS

SAG T1 FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HD 8Ch High Res Brain Array by Invivo	Imaging Options	Fast, SS
Plane	OBLIQUE	SCAN RANGE	
Series Description	---CONTRAST---	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
TR	Minimum	ACQ TIMING	
Receiver Bandwidth	83.33	Freq	128
IMAGE ENHANCE		Phase	128
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	1.0
Auto Trigger Type	Off	# of Acq. Before Pause	0
FMRI		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV2	240.00
# of Repetitions ACTIVE	0	User CV13	1.00
SAT		TR Min	0.0
Tag Type	None	TR Max	0.0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	Off	Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

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+C AX T1 FS	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	+C AX T1 FS	FOV	12.0
	SCAN TIMING		Slice Thickness	2.6
	TE	Min Full	Slice Spacing	0.2
	Number of Echoes	1	ACQ TIMING	
	TR	450.0	Freq	320
	Receiver Bandwidth	27.78	Phase	224
	IMAGE ENHANCE		Freq DIR	Unswap
	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	User CV4	1.00
	View Order	Bottom/Up	TR Min	450.0
	# of Repetitions REST	0	TR Max	650.0
# of Repetitions ACTIVE	0	MULTI-PHASE		
SAT		Seperate Series	0	
SAT Location	S	Mask Phase	0	
SAT Location	I	Mask Pause	0	
Tag Type	None	DIFFUSION		
Fat/Water Saturation	Fat	Recon All Images	On	
TRICKS		CONTRAST		
Pause On/Off	On	Contrast Yes/No	Yes	
Auto Subtract	0			
Auto SCIC	Off			

+C AX T1 FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None
Plane	OBLIQUE	SCAN RANGE	
Series Description	+C COR T1 FS	FOV	12.0
SCAN TIMING		Slice Thickness	2.6
TE	Min Full	Slice Spacing	0.2
Number of Echoes	1	ACQ TIMING	
TR	450.0	Freq	320
Receiver Bandwidth	27.78	Phase	224
IMAGE ENHANCE		Freq DIR	Unswap
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	User CV4	1.00
View Order	Bottom/Up	TR Min	450.0
# of Repetitions REST	0	TR Max	650.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
SAT Location	S	Mask Phase	0
SAT Location	I	Mask Pause	0
Tag Type	None	DIFFUSION	
Fat/Water Saturation	Fat	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	Yes
Auto Subtract	0		
Auto SCIC	Off		

+C COR T1 FS

+C COR T1 FS

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+C SAG T1 FS	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	HD Wrist Array by Invivo	Imaging Options	None
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	+C SAG T1 FS	FOV	12.0
	SCAN TIMING		Slice Thickness	2.6
	TE	Min Full	Slice Spacing	0.2
	Number of Echoes	1	ACQ TIMING	
	TR	450.0	Freq	320
	Receiver Bandwidth	27.78	Phase	224
	IMAGE ENHANCE		Freq DIR	Unswap
	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	User CV4	1.00
	View Order	Bottom/Up	TR Min	450.0
	# of Repetitions REST	0	TR Max	650.0
# of Repetitions ACTIVE	0	MULTI-PHASE		
SAT		Seperate Series	0	
SAT Location	S	Mask Phase	0	
SAT Location	I	Mask Pause	0	
Tag Type	None	DIFFUSION		
Fat/Water Saturation	Fat	Recon All Images	On	
TRICKS		CONTRAST		
Pause On/Off	On	Contrast Yes/No	Yes	
Auto Subtract	0			
Auto SCIC	Off			

+C SAG T1 FS