

Protocol: adult_upperExtremities_WRIST ARTHRO

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	FSE-XL
Coil Configuration	HD Wrist Array by Invivo	Imaging Options	NPW, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX T1	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	180	Slice Spacing	0.3
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	402.0	Phase	224
Echo Train Length	3	Freq DIR	Unswap
Receiver Bandwidth	31.25	Fat Shift DIR	Normal
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV8	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	350.0
# of Repetitions ACTIVE	0	TR Max	750.0
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
TRICKS		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	DIFFUSION	
Auto SCIC	Off	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

AX T1

AX T1

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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	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			

AX T1 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	HD Wrist Array by Invivo	Imaging Options	TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T1	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.3
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	484.0	Phase	224
Echo Train Length	3	Freq DIR	Unswap
Receiver Bandwidth	31.25	Fat Shift DIR	Normal
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV8	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	350.0
# of Repetitions ACTIVE	0	TR Max	750.0
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	Off	Contrast Yes/No	No

COR T1

COR T1

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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, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T2 FSE FS	FOV	12.0
SCAN TIMING		Slice Thickness	2.6
Flip Angle	160	Slice Spacing	1.0
TE	68.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	3508.0	Phase	192
Echo Train Length	14	Freq DIR	Swap
Receiver Bandwidth	25.00	Fat Shift DIR	Normal
IMAGE ENHANCE		NEX	4.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		Flow Direction Compensation	Freq
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	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	3000.0
SAT		TR Max	6000.0
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	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	HD Wrist Array by Invivo	Imaging Options	FC, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T2 FSE FS	FOV	12.0
SCAN TIMING		Slice Thickness	2.6
Flip Angle	160	Slice Spacing	1.0
TE	68.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	3508.0	Phase	192
Echo Train Length	14	Freq DIR	Swap
Receiver Bandwidth	25.00	Fat Shift DIR	Normal
IMAGE ENHANCE		NEX	4.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		Flow Direction Compensation	Freq
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	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	3000.0
SAT		TR Max	6000.0
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	No

Ax T2 FSE FS

Ax T2 FSE 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	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