

Protocol: adult_upperExtremities_ELBOW ARTHRO

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Fiesta
Coil Configuration	HD T/R Knee 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 T/R Knee Array by Invivo	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T1 FSE	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	384
TR	458.0	Phase	256
Echo Train Length	3	Freq DIR	R/L
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
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	TR Min	400.0
# of Repetitions REST	0	TR Max	750.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	CONTRAST	
		Contrast Yes/No	No

Ax T1 FSE

Ax T1 FSE

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Ax T1 FSE F/S	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	HD T/R Knee Array by Invivo	Imaging Options	NPW, EDR, TRF, Fast, MRF
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Ax T1 FSE F/S	FOV	12.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	160	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	384
	TR	537.0	Phase	256
	Echo Train Length	3	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	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 CV19	1.00
	# of Repetitions REST	0	TR Min	400.0
	# of Repetitions ACTIVE	0	TR Max	750.0
	SAT		MULTI-PHASE	
	Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat Classic	Mask Phase	0	
TRICKS		Mask Pause	0	
Pause On/Off	On	DIFFUSION		
Auto Subtract	0	Recon All Images	On	
Auto SCIC	2	CONTRAST		
		Contrast Yes/No	No	

Ax T1 FSE F/S

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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 T/R Knee Array by Invivo	Imaging Options	NPW, Seq, Fast, MRF, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX T2 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	3012.0	Phase	160
TI	150	Freq DIR	Unswap
Echo Train Length	8	Fat Shift DIR	Normal
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
Tag Type	None	DIFFUSION	
TRICKS		Recon All Images	On
Pause On/Off	On	CONTRAST	
Auto Subtract	0	Contrast Yes/No	No
Auto SCIC	Off		

AX T2 STIR

AX T2 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	HD T/R Knee Array by Invivo	Imaging Options	FC, NPW, TRF, Fast, FR, MRF
Plane	OBLIQUE		
Series Description	AX PD frFSE FS		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	12.0
TE	30.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	2500.0		
Echo Train Length	6	ACQ TIMING	
Receiver Bandwidth	22.73	Freq	288
		Phase	192
		Freq DIR	Unswap
		Fat Shift DIR	Normal
		NEX	2.00
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	Yes
		Flow Direction	Freq
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV8	1.00
		User CV19	1.00
		User CV21	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			
SAT Location	S		
SAT Location	I		
Tag Type	None		
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

AX PD frFSE FS

AX PD frFSE FS

Protocol: adult_upperExtremities_ELLOW ARTHRO

Cor T1 FSE FS	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	HD T/R Knee Array by Invivo	Imaging Options	NPW, TRF, Fast, MRF
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Cor T1 FSE FS	FOV	12.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	160	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	384
	TR	721.0	Phase	224
	Echo Train Length	3	Freq DIR	A/P
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (P)
	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 CV19	1.00
	# of Repetitions REST	0	User CV21	1.00
	# of Repetitions ACTIVE	0	TR Min	400.0
	SAT		TR Max	750.0
	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 T1 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	GEM Flex Medium Array	Imaging Options	FC, NPW, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T2 FSE FS	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	68.0	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	4464.0	Phase	192
Echo Train Length	14	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	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	Off	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 T/R Knee Array by Invivo	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1 FSE FS	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	384
TR	537.0	Phase	256
Echo Train Length	3	Freq DIR	R/L
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
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 CV19	1.00
# of Repetitions REST	0	TR Min	400.0
# of Repetitions ACTIVE	0	TR Max	750.0
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	2	CONTRAST	
		Contrast Yes/No	No

SAG T1 FSE FS

SAG T1 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	GEM Flex Medium Array	Imaging Options	FC, NPW, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	Sag T2 FSE FS	FOV	12.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	68.0	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	4468.0	Phase	192
Echo Train Length	14	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	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	Off	Contrast Yes/No	No

Sag T2 FSE FS

Sag T2 FSE FS