

Protocol: adult_upperExtremities_ELBOW (8CHANNEL KNEE) 11-7-17

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>Gradient Echo</i>
Coil Configuration	<i>HD T/R Knee Array by Invivo</i>	Imaging Options	<i>Seq, Fast</i>
Plane	<i>3-PLANE</i>	SCAN RANGE	
Series Description	<i>3-Plane Loc</i>	FOV	<i>24.0</i>
SCAN TIMING		Slice Thickness	<i>5.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>5.0</i>
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	<i>None</i>	Freq	<i>256</i>
GATING/TRIGGER		Phase	<i>128</i>
Auto Trigger Type	<i>Off</i>	Freq DIR	<i>Unswap</i>
MULTI-PHASE		NEX	<i>1.00</i>
Seperate Series	<i>0</i>	Phase FOV	<i>1.00</i>
Mask Phase	<i>0</i>	Auto Shim	<i>Auto</i>
Mask Pause	<i>0</i>	Phase Correction	<i>No</i>
DIFFUSION		FMRI	
Recon All Images	<i>On</i>	PSD Trigger	<i>Internal</i>
CONTRAST		View Order	<i>Bottom/Up</i>
Contrast Yes/No	<i>No</i>	# of Repetitions REST	<i>0</i>
		# of Repetitions ACTIVE	<i>0</i>
		SAT	
		Tag Type	<i>None</i>
		TRICKS	
		Pause On/Off	<i>On</i>
		Auto Subtract	<i>0</i>
		Auto SCIC	<i>Off</i>

3-Plane Loc

3-Plane Loc

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AX T1W	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
	Coil Configuration	<i>HD T/R Knee Array by Invivo</i>	Imaging Options	<i>EDR, TRF, Fast, ZIP512</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>AX T1W</i>	FOV	<i>12.0</i>
	SCAN TIMING		Slice Thickness	<i>4.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>1.0</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>288</i>
	TR	<i>400.0</i>	Phase	<i>256</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>R/L</i>
	Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (L)</i>
	IMAGE ENHANCE		NEX	<i>2.00</i>
	Filter Choice	<i>None</i>	# of Acq. Before Pause	<i>0</i>
	GATING/TRIGGER		Phase FOV	<i>1.00</i>
	Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>
	FMRI		Phase Correction	<i>Yes</i>
	PSD Trigger	<i>Internal</i>	USER CVS	
	View Order	<i>Bottom/Up</i>	User CV8	<i>2.00</i>
	# of Repetitions REST	<i>0</i>	User CV9	<i>1.00</i>
	# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>400.0</i>
	SAT		TR Max	<i>650.0</i>
	Tag Type	<i>None</i>	MULTI-PHASE	
	TRICKS		Seperate Series	<i>0</i>
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>	
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>	
Auto SCIC	<i>Off</i>	DIFFUSION		
		Recon All Images	<i>On</i>	
		CONTRAST		
		Contrast Yes/No	<i>No</i>	

AX T1W

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HD T/R Knee Array by Invivo	Imaging Options	FC, NPW, Seq, EDR, TRF, Fast, ZIP512, IrP
Plane	OBLIQUE		
Series Description	AX FSEIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	12.0
TE	40.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	5941.0		
TI	140	ACQ TIMING	
Echo Train Length	13	Freq	256
Receiver Bandwidth	31.25	Phase	192
		Freq DIR	R/L
		Fat Shift DIR	Normal (L)
		NEX	2.00
		Auto Shim	Auto
		Phase Correction	Yes
		Flow Direction	Freq
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV8	1.00
		User CV21	1.00
		TR Min	2500.0
		TR Max	8000.0
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
View Order	Bottom/Up		
# of Repetitions REST	0		
# of Repetitions ACTIVE	0		
SAT		CONTRAST	
SAT Location	S	Contrast Yes/No	No
SAT Location	I		
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

AX FSEIR

AX FSEIR

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COR/OBL T1W	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
	Coil Configuration	<i>HD T/R Knee Array by Invivo</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>COR/OBL T1W</i>	FOV	<i>12.0</i>
	SCAN TIMING		Slice Thickness	<i>3.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>0.5</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>288</i>
	TR	<i>400.0</i>	Phase	<i>256</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>S/I</i>
	Receiver Bandwidth	<i>27.78</i>	Fat Shift DIR	<i>Normal (S)</i>
	IMAGE ENHANCE		NEX	<i>2.00</i>
	Filter Choice	<i>None</i>	# of Acq. Before Pause	<i>0</i>
	GATING/TRIGGER		Auto Shim	<i>Auto</i>
	Auto Trigger Type	<i>Off</i>	Phase Correction	<i>Yes</i>
	FMRI		USER CVS	
	PSD Trigger	<i>Internal</i>	User CV8	<i>2.00</i>
	View Order	<i>Bottom/Up</i>	User CV9	<i>1.00</i>
	# of Repetitions REST	<i>0</i>	TR Min	<i>400.0</i>
	# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>725.0</i>
	SAT		MULTI-PHASE	
	Tag Type	<i>None</i>	Seperate Series	<i>0</i>
	TRICKS		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>	
Auto Subtract	<i>0</i>	DIFFUSION		
Auto SCIC	<i>Off</i>	Recon All Images	<i>On</i>	
		CONTRAST		
		Contrast Yes/No	<i>No</i>	

COR/OBL T1W

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COR/OBL FSEIR	PATIENT POSITION		IMAGING PARAMETERS		COR/OBL FSEIR
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>	
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>	
	Coil Configuration	<i>HD T/R Knee Array by Invivo</i>	Imaging Options	<i>FC, NPW, Seq, EDR, TRF, Fast, ZIP512, IrP</i>	
	Plane	<i>OBLIQUE</i>	SCAN RANGE		
	Series Description	<i>COR/OBL FSEIR</i>	FOV	<i>12.0</i>	
	SCAN TIMING		Slice Thickness	<i>3.0</i>	
	Flip Angle	<i>160</i>	Slice Spacing	<i>0.5</i>	
	TE	<i>40.0</i>	ACQ TIMING		
	Number of Echoes	<i>1</i>	Freq	<i>256</i>	
	TR	<i>5391.0</i>	Phase	<i>192</i>	
	TI	<i>140</i>	Freq DIR	<i>S/I</i>	
	Echo Train Length	<i>13</i>	Fat Shift DIR	<i>Normal (S)</i>	
	Receiver Bandwidth	<i>31.25</i>	NEX	<i>2.00</i>	
	IMAGE ENHANCE		Auto Shim	<i>Auto</i>	
	Filter Choice	<i>None</i>	Phase Correction	<i>Yes</i>	
	GATING/TRIGGER		Flow Direction	<i>Freq</i>	
	Auto Trigger Type	<i>Off</i>	Compensation		
	FMRI		USER CVS		
	PSD Trigger	<i>Internal</i>	User CV8	<i>1.00</i>	
	View Order	<i>Bottom/Up</i>	User CV21	<i>1.00</i>	
	# of Repetitions REST	<i>0</i>	TR Min	<i>2500.0</i>	
	# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>8000.0</i>	
	SAT		MULTI-PHASE		
SAT Location	<i>S</i>	Seperate Series	<i>0</i>		
SAT Location	<i>I</i>	Mask Phase	<i>0</i>		
Tag Type	<i>None</i>	Mask Pause	<i>0</i>		
TRICKS		DIFFUSION			
Pause On/Off	<i>On</i>	Recon All Images	<i>On</i>		
Auto Subtract	<i>0</i>	CONTRAST			
Auto SCIC	<i>Off</i>	Contrast Yes/No	<i>No</i>		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>Gradient Echo</i>
Coil Configuration	<i>HD T/R Knee Array by Invivo</i>	Imaging Options	<i>NPW, Fast, ZIP512</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>COR/OBL GRE</i>	FOV	<i>12.0</i>
SCAN TIMING		Slice Thickness	<i>3.0</i>
Flip Angle	<i>33</i>	Slice Spacing	<i>0.5</i>
TE	<i>15.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>507.9</i>	Phase	<i>192</i>
Receiver Bandwidth	<i>14.71</i>	Freq DIR	<i>S/I</i>
IMAGE ENHANCE		NEX	<i>2.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	USER CVS	
FMRI		TR Min	<i>400.0</i>
PSD Trigger	<i>Internal</i>	TR Max	<i>1200.0</i>
View Order	<i>Bottom/Up</i>	MULTI-PHASE	
# of Repetitions REST	<i>0</i>	Seperate Series	<i>0</i>
# of Repetitions ACTIVE	<i>0</i>	Mask Phase	<i>0</i>
SAT		Mask Pause	<i>0</i>
Tag Type	<i>None</i>	DIFFUSION	
Fat/Water Saturation	<i>Fat</i>	Recon All Images	<i>On</i>
TRICKS		CONTRAST	
Pause On/Off	<i>On</i>	Contrast Yes/No	<i>No</i>
Auto Subtract	<i>0</i>		
Auto SCIC	<i>Off</i>		

COR/OBL GRE

COR/OBL GRE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet 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, ZIP512, FR
Plane	OBLIQUE		
Series Description	SAG/OBL T2W FS		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	12.0
TE	60.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	3460.0		
Echo Train Length	14	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	288
		Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (I)
		NEX	2.00
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV8	2.00
		User CV19	1.00
		User CV22	1.00
		TR Min	2500.0
		TR Max	8000.0
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
View Order	Bottom/Up		
# of Repetitions REST	0	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
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		

SAG/OBL T2W FS

SAG/OBL T2W FS