

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

3-Plane Loc	PATIENT POSITION		IMAGING PARAMETERS		3-Plane Loc
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Body	Imaging Options	Seq, Fast	
	Plane	3-PLANE	SCAN RANGE		
	Series Description	3-Plane Loc	FOV	50.0	
	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		View Order	Bottom/Up	
	Contrast Yes/No	No	# of Repetitions REST	0	
		# of Repetitions ACTIVE	0		
		SAT			
		Tag Type	None		
		TRICKS			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

Cor T2 Fat Sat	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Body	Imaging Options	NPW, Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Cor T2 Fat Sat	FOV	36.0
	SCAN TIMING		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	2.0
	TE	40.0	ACQ TIMING	
	Number of Echoes	1	Freq	288
	TR	4189.0	Phase	220
	Echo Train Length	16	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	Yes
	Auto Trigger Type	Off	USER CVS	
	FMRI		User CV8	1.00
	PSD Trigger	Internal	User CV19	1.00
	View Order	Bottom/Up	User CV22	1.00
	# of Repetitions REST	0	TR Min	2500.0
	# of Repetitions ACTIVE	0	TR Max	8000.0
	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	Off	CONTRAST		
		Contrast Yes/No	No	

Cor T2 Fat Sat

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

Cor T1	PATIENT POSITION		IMAGING PARAMETERS		Cor T1
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Body	Imaging Options	NPW, EDR, TRF, Fast	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	Cor T1	FOV	36.0	
	SCAN TIMING		Slice Thickness	4.0	
	Flip Angle	120	Slice Spacing	2.0	
	TE	Min Full	ACQ TIMING		
	Number of Echoes	1	Freq	320	
	TR	767.0	Phase	192	
	Echo Train Length	3	Freq DIR	S/I	
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (I)	
	IMAGE ENHANCE		NEX	3.00	
	Filter Choice	None	Auto Shim	Auto	
	GATING/TRIGGER		Phase Correction	Yes	
	Auto Trigger Type	Off	USER CVS		
	FMRI		User CV8	2.00	
	PSD Trigger	Internal	User CV9	1.00	
	View Order	Bottom/Up	User CV22	1.00	
	# of Repetitions REST	0	TR Min	350.0	
	# of Repetitions ACTIVE	0	TR Max	800.0	
	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		

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

Sag T2 Fat Sat	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Body	Imaging Options	Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Sag T2 Fat Sat	FOV	36.0
	SCAN TIMING		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	2.0
	TE	68.0	ACQ TIMING	
	Number of Echoes	1	Freq	288
	TR	4881.0	Phase	220
	Echo Train Length	16	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Phase FOV	0.80
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	FMRI		USER CVS	
	PSD Trigger	Internal	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	2500.0
	SAT		TR Max	8000.0
	SAT Location	S	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	Off	CONTRAST		
		Contrast Yes/No	No	

Sag T2 Fat Sat

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Body	Imaging Options	Seq, EDR, TRF, Fast, ZIP512
Plane	OBLIQUE		
Series Description	Sag T1		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	36.0
TE	Min Full	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	2.0
TR	652.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	288
		Phase	220
		Freq DIR	S/I
		Fat Shift DIR	Normal (S)
		NEX	3.00
		# of Acq. Before Pause	0
		Phase FOV	0.80
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV8	1.00
		User CV22	1.00
		TR Min	400.0
		TR Max	800.0
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		
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

Sag T1

Sag T1

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

Ax T2 Fat Sat	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Body	Imaging Options	Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Ax T2 Fat Sat	FOV	20.0
	SCAN TIMING		Slice Thickness	5.0
	Flip Angle	160	Slice Spacing	2.5
	TE	40.0	ACQ TIMING	
	Number of Echoes	1	Freq	288
	TR	7654.0	Phase	220
	Echo Train Length	16	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
	View Order	Bottom/Up	User CV19	1.00
	# of Repetitions REST	0	User CV22	1.00
	# of Repetitions ACTIVE	0	TR Min	2500.0
	SAT		TR Max	8000.0
	SAT Location	S	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	Off	CONTRAST		
		Contrast Yes/No	No	

Ax T2 Fat Sat

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Ax T1	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Body	Imaging Options	EDR, TRF, Fast
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Ax T1	FOV	20.0
	SCAN TIMING		Slice Thickness	5.0
	Flip Angle	120	Slice Spacing	2.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	320
	TR	671.0	Phase	160
	Echo Train Length	4	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	IMAGE ENHANCE		NEX	3.00
	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	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV22	1.00
	SAT		TR Min	350.0
	SAT Location	S	TR Max	800.0
	Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	DIFFUSION		
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	No	

Ax T1

Protocol: adult_lowerExtremities_LOWER LEG 11-30-17

Ax T2	PATIENT POSITION		IMAGING PARAMETERS		Ax T2
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Body	Imaging Options	Seq, EDR, TRF, Fast, FR	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	Ax T2	FOV	20.0	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	160	Slice Spacing	2.5	
	TE	85.0	ACQ TIMING		
	Number of Echoes	1	Freq	288	
	TR	6928.0	Phase	220	
	Echo Train Length	16	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	
	View Order	Bottom/Up	User CV22	1.00	
# of Repetitions REST	0	TR Min	2500.0		
# of Repetitions ACTIVE	0	TR Max	8000.0		
SAT		MULTI-PHASE			
SAT Location	S	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	Off	CONTRAST			
		Contrast Yes/No	No		