

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

3 Plane Localizer	PATIENT POSITION		IMAGING PARAMETERS		3 Plane Localizer
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>	
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Spin Echo</i>	
	Coil Configuration	<i>Body</i>	Imaging Options	<i>Seq, EDR, Fast, SS</i>	
	Plane	<i>3-PLANE</i>	SCAN RANGE		
	Series Description	<i>3 Plane Localizer</i>	FOV	<i>40.0</i>	
	SCAN TIMING		Slice Thickness	<i>5.0</i>	
	TE	<i>80.0</i>	Slice Spacing	<i>5.0</i>	
	Number of Echoes	<i>1</i>	ACQ TIMING		
	TR	<i>Minimum</i>	Freq	<i>256</i>	
	Receiver Bandwidth	<i>62.50</i>	Phase	<i>128</i>	
	IMAGE ENHANCE		Freq DIR	<i>Unswap</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>No</i>	
	PSD Trigger	<i>Internal</i>	USER CVS		
	View Order	<i>Bottom/Up</i>	User CV2	<i>240.00</i>	
	# of Repetitions REST	<i>0</i>	User CV13	<i>1.00</i>	
	# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE		
	SAT		Seperate Series	<i>0</i>	
	Tag Type	<i>None</i>	Mask Phase	<i>0</i>	
	TRICKS		Mask Pause	<i>0</i>	
	Pause On/Off	<i>On</i>	DIFFUSION		
	Auto Subtract	<i>0</i>	Recon All Images	<i>On</i>	
Auto SCIC	<i>Off</i>	CONTRAST			
		Contrast Yes/No	<i>No</i>		

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>SPGR</i>
Coil Configuration	<i>Body</i>	Imaging Options	<i>EDR, Fast, ZIP2, Calib</i>
Plane	<i>AXIAL</i>	SCAN RANGE	
Series Description	<i>Calibration</i>	FOV	<i>50.0</i>
SCAN TIMING		Slice Thickness	<i>10.0</i>
Number of Echoes	<i>1</i>	ACQ TIMING	
IMAGE ENHANCE		Freq DIR	<i>R/L</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	FMRI	
MULTI-PHASE		PSD Trigger	<i>Internal</i>
Seperate Series	<i>0</i>	View Order	<i>Bottom/Up</i>
Mask Phase	<i>0</i>	# of Repetitions REST	<i>0</i>
Mask Pause	<i>0</i>	# of Repetitions ACTIVE	<i>0</i>
DIFFUSION		SAT	
Recon All Images	<i>On</i>	Tag Type	<i>None</i>
CONTRAST		TRICKS	
Contrast Yes/No	<i>No</i>	Pause On/Off	<i>On</i>
		Auto Subtract	<i>0</i>
		Auto SCIC	<i>Off</i>

Calibration

Calibration

Protocol: adult_lowerExtremities_MSK THIGH

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>Body</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, ARC</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>AX T1 FSE LARGE FOV</i>	FOV	<i>34.0</i>
SCAN TIMING		Slice Thickness	<i>5.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.5</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>844.0</i>	Phase	<i>256</i>
Echo Train Length	<i>3</i>	Freq DIR	<i>R/L</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (R)</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Slice</i>
FMRI		USER CVS	
PSD Trigger	<i>Internal</i>	User CV22	<i>1.00</i>
View Order	<i>Bottom/Up</i>	TR Min	<i>400.0</i>
# of Repetitions REST	<i>0</i>	TR Max	<i>850.0</i>
# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
SAT		Seperate Series	<i>0</i>
Tag Type	<i>None</i>	Mask Phase	<i>0</i>
TRICKS		Mask Pause	<i>0</i>
Pause On/Off	<i>On</i>	DIFFUSION	
Auto Subtract	<i>0</i>	Recon All Images	<i>On</i>
Auto SCIC	<i>On</i>	CONTRAST	
		Contrast Yes/No	<i>No</i>

AX T1 FSE LARGE FOV

AX T1 FSE LARGE FOV

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

AX FSE STIR LARGE FOV	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>Body</i>	Imaging Options	<i>NPW, Seq, EDR, TRF, Fast, ARC, IrP</i>
	Plane	<i>OBLIQUE</i>	PSD Name	<i>fse-xl</i>
	Series Description	<i>AX FSE STIR LARGE FOV</i>	SCAN RANGE	
	SCAN TIMING		FOV	<i>34.0</i>
	Flip Angle	<i>111</i>	Slice Thickness	<i>5.0</i>
	TE	<i>50.0</i>	Slice Spacing	<i>1.5</i>
	Number of Echoes	<i>1</i>	ACQ TIMING	
	TR	<i>5241.0</i>	Freq	<i>320</i>
	TI	<i>170</i>	Phase	<i>192</i>
	Echo Train Length	<i>7</i>	Freq DIR	<i>R/L</i>
	Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (R)</i>
	IMAGE ENHANCE		NEX	<i>2.00</i>
	Filter Choice	<i>B</i>	Auto Shim	<i>Auto</i>
	GATING/TRIGGER		Phase Correction	<i>Yes</i>
	Auto Trigger Type	<i>Off</i>	USER CVS	
	FMRI		User CV22	<i>1.00</i>
	PSD Trigger	<i>Internal</i>	TR Min	<i>2000.0</i>
View Order	<i>Bottom/Up</i>	TR Max	<i>15000.0</i>	
# of Repetitions REST	<i>0</i>	MULTI-PHASE		
# of Repetitions ACTIVE	<i>0</i>	Seperate Series	<i>0</i>	
SAT		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>	

AX FSE STIR LARGE FOV

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

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>Body</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, ARC</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>COR T1 FSE LARGE FOV</i>	FOV	<i>34.0</i>
SCAN TIMING		Slice Thickness	<i>5.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.5</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>844.0</i>	Phase	<i>256</i>
Echo Train Length	<i>3</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (I)</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Slice</i>
FMRI		USER CVS	
PSD Trigger	<i>Internal</i>	User CV22	<i>1.00</i>
View Order	<i>Bottom/Up</i>	TR Min	<i>400.0</i>
# of Repetitions REST	<i>0</i>	TR Max	<i>850.0</i>
# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
SAT		Seperate Series	<i>0</i>
Tag Type	<i>None</i>	Mask Phase	<i>0</i>
TRICKS		Mask Pause	<i>0</i>
Pause On/Off	<i>On</i>	DIFFUSION	
Auto Subtract	<i>0</i>	Recon All Images	<i>On</i>
Auto SCIC	<i>On</i>	CONTRAST	
		Contrast Yes/No	<i>No</i>

COR T1 FSE LARGE FOV

COR T1 FSE LARGE FOV

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Body	Imaging Options	NPW, Seq, EDR, TRF, Fast, ARC, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	COR FSE STIR LARGE FOV		
SCAN TIMING		SCAN RANGE	
Flip Angle	111	FOV	34.0
TE	50.0	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.5
TR	5241.0		
TI	170	ACQ TIMING	
Echo Train Length	7	Freq	320
Receiver Bandwidth	41.67	Phase	192
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	B	Fat Shift DIR	Normal (I)
GATING/TRIGGER		NEX	2.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	2000.0
# of Repetitions ACTIVE	0	TR Max	15000.0
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

COR FSE STIR LARGE FOV

COR FSE STIR LARGE FOV

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

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>Body</i>	Imaging Options	<i>NPW, Seq, EDR, TRF, Fast, ARC, IrP</i>
Plane	<i>OBLIQUE</i>	PSD Name	<i>fse-xl</i>
Series Description	<i>SAG FSE STIR LARGE FOV</i>		
SCAN TIMING		SCAN RANGE	
Flip Angle	<i>111</i>	FOV	<i>34.0</i>
TE	<i>50.0</i>	Slice Thickness	<i>5.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>1.5</i>
TR	<i>5241.0</i>		
TI	<i>170</i>	ACQ TIMING	
Echo Train Length	<i>7</i>	Freq	<i>320</i>
Receiver Bandwidth	<i>41.67</i>	Phase	<i>192</i>
IMAGE ENHANCE		Freq DIR	<i>S/I</i>
Filter Choice	<i>B</i>	Fat Shift DIR	<i>Normal (I)</i>
GATING/TRIGGER		NEX	<i>2.00</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 CV22	<i>1.00</i>
# of Repetitions REST	<i>0</i>	TR Min	<i>2000.0</i>
# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>15000.0</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>

SAG FSE STIR LARGE FOV

SAG FSE STIR LARGE FOV

McLeod Pavilion

Protocol: adult_lowerExtremities_MSX THIGH

IF CONTRAST	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Feet First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	48Ch Head Coil	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
	Plane	3-PLANE		
	Series Description	*IF CONTRAST*	SCAN RANGE	
	SCAN TIMING		FOV	30.0
	TE	80.0	Slice Thickness	10.0
	Number of Echoes	1	Slice Spacing	5.0
	TR	1000.0	ACQ TIMING	
	Receiver Bandwidth	83.33	Freq	256
	IMAGE ENHANCE		Phase	128
	Filter Choice	None	Freq DIR	Unswap
	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	
		OTHERS		
		Protocol Notes	<p><i>Important Tip: Improve Head SAR performance will be seen with during a brain exam if the SSFSE localizer calculation is lower than 3.2 W/kg Keep the TR at 1000 msec in order to lower SAR estimations</i></p>	

WB-SAR: 0.68 Head-SAR: 2.0

McLeod Pavilion

Protocol: adult_lowerExtremities_MSK THIGH

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Body	Imaging Options	FC, NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE		
Series Description	AX T1 FSE F/S PRE AND POST		
SCAN TIMING		SCAN RANGE	
Flip Angle	111	FOV	34.0
TE	Min Full	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.5
TR	589.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	384
		Phase	256
		Freq DIR	R/L
		Fat Shift DIR	Normal (R)
		NEX	3.00
		# of Acq. Before Pause	0
		Auto Shim	Auto
		Phase Correction	Yes
		Flow Direction Compensation	Slice
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	400.0
		TR Max	850.0
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	
Tag Type	None	Contrast Yes/No	Yes
Fat/Water Saturation	Fat		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	On		

AX T1 FSE F/S PRE AND POST

AX T1 FSE F/S PRE AND POST

Protocol: adult_lowerExtremities_MSK THIGH

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>Body</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, ARC</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>COR T1 FSE F/S POST</i>	FOV	<i>34.0</i>
SCAN TIMING		Slice Thickness	<i>5.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.5</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>589.0</i>	Phase	<i>256</i>
Echo Train Length	<i>3</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (I)</i>
IMAGE ENHANCE		NEX	<i>3.00</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		Flow Direction	<i>Slice</i>
PSD Trigger	<i>Internal</i>	Compensation	
View Order	<i>Bottom/Up</i>	USER CVS	
# of Repetitions REST	<i>0</i>	User CV19	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	User CV22	<i>1.00</i>
SAT		TR Min	<i>400.0</i>
Tag Type	<i>None</i>	TR Max	<i>850.0</i>
Fat/Water Saturation	<i>Fat</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>On</i>	DIFFUSION	
		Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

COR T1 FSE F/S POST

COR T1 FSE F/S POST

Protocol: adult_lowerExtremities_MSK THIGH

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Body	Imaging Options	FC, NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE		
Series Description	SAG T1 FSE F/S POST		
SCAN TIMING		SCAN RANGE	
Flip Angle	111	FOV	34.0
TE	Min Full	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.5
TR	589.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	384
		Phase	256
		Freq DIR	S/I
		Fat Shift DIR	Normal (I)
		NEX	3.00
		# of Acq. Before Pause	0
		Auto Shim	Auto
		Phase Correction	Yes
		Flow Direction	Slice
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	400.0
		TR Max	850.0
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			
Tag Type	None		
Fat/Water Saturation	Fat		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	On		

SAG T1 FSE F/S POST

SAG T1 FSE F/S POST