

Protocol: adult_lowerExtremities_HIPS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil	Imaging Options	Seq, EDR, Fast, SS, ARC
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	48.0
Number of Echoes	1	Slice Thickness	8.0
TR	Minimum	Slice Spacing	0.0
Receiver Bandwidth	83.33	ACQ TIMING	
IMAGE ENHANCE		Freq	352
Filter Choice	None	Phase	160
GATING/TRIGGER		Freq DIR	Unswap
Auto Trigger Type	Off	# of Acq. Before Pause	0
FMRI		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV2	240.00
# 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	Off	CONTRAST	
OTHERS		Contrast Yes/No	No
Protocol Notes	This protocol is built based on Express coil suite. Please select the appropriate coil which is available in your site and optimizing the parameters accordingly.		

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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>FSE-XL</i>
Coil Configuration	<i>HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>NPW, TRF, Fast, MRF</i>
SCAN TIMING		SCAN RANGE	
Plane	<i>CORONAL</i>	FOV	<i>36.0</i>
Series Description	<i>Cor T1 FSE</i>	Slice Thickness	<i>4.0</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>320</i>
TR	<i>457.0</i>	Phase	<i>224</i>
Echo Train Length	<i>2</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>35.71</i>	Fat Shift DIR	<i>Normal (I)</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>None</i>	Phase FOV	<i>1.00</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>1.00</i>
Slice Order	<i>Interleaved</i>	User CV22	<i>1.00</i>
View Order	<i>Bottom/Up</i>	TR Min	<i>450.0</i>
# of Repetitions REST	<i>0</i>	TR Max	<i>650.0</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>2</i>	CONTRAST	
		Contrast Yes/No	<i>No</i>

Cor T1 FSE

Cor T1 FSE

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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>FSE-XL</i>
Coil Configuration	<i>HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>NPW, Seq, EDR, TRF, Fast, ZIP512, MRF, IrP</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>COR STIR</i>	FOV	<i>34.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>160</i>	Slice Spacing	<i>0.5</i>
TE	<i>42.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>2800.0</i>	Phase	<i>224</i>
TI	<i>145</i>	Freq DIR	<i>Swap</i>
Echo Train Length	<i>8</i>	Fat Shift DIR	<i>Normal</i>
Receiver Bandwidth	<i>25.00</i>	NEX	<i>3.00</i>
IMAGE ENHANCE		Phase FOV	<i>1.00</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		User CV21	<i>1.00</i>
PSD Trigger	<i>Internal</i>	User CV22	<i>1.00</i>
Slice Order	<i>Interleaved</i>	MULTI-PHASE	
View Order	<i>Bottom/Up</i>	Seperate Series	<i>0</i>
# of Repetitions REST	<i>0</i>	Mask Phase	<i>0</i>
# of Repetitions ACTIVE	<i>0</i>	Mask Pause	<i>0</i>
SAT		DIFFUSION	
Tag Type	<i>None</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>2</i>		

COR STIR

COR STIR

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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>Spin Echo</i>
Coil Configuration	<i>HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>Fast, SS</i>
SCAN TIMING		SCAN RANGE	
TE	<i>Minimum</i>	FOV	<i>22.0</i>
TR	<i>Minimum</i>	Slice Thickness	<i>5.0</i>
Receiver Bandwidth	<i>83.33</i>	Slice Spacing	<i>1.0</i>
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	<i>None</i>	Freq	<i>128</i>
GATING/TRIGGER		Phase	<i>128</i>
Auto Trigger Type	<i>Off</i>	Freq DIR	<i>R/L</i>
FMRI		NEX	<i>1.0</i>
PSD Trigger	<i>Internal</i>	# of Acq. Before Pause	<i>0</i>
Slice Order	<i>Interleaved</i>	Phase FOV	<i>1.00</i>
View Order	<i>Bottom/Up</i>	Auto Shim	<i>Auto</i>
# of Repetitions REST	<i>0</i>	Phase Correction	<i>No</i>
# of Repetitions ACTIVE	<i>0</i>	USER CVS	
SAT		User CV2	<i>240.00</i>
Tag Type	<i>None</i>	User CV13	<i>1.00</i>
TRICKS		TR Min	<i>0.0</i>
Pause On/Off	<i>On</i>	TR Max	<i>0.0</i>
Auto Subtract	<i>0</i>	MULTI-PHASE	
Auto SCIC	<i>Off</i>	Seperate Series	<i>0</i>
		Mask Phase	<i>0</i>
		Mask Pause	<i>0</i>
		DIFFUSION	
		Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

---SMALL FOV---

---SMALL FOV---

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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>FSE-XL</i>
Coil Configuration	<i>HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, MRF</i>
SCAN TIMING		SCAN RANGE	
Plane	<i>OBLIQUE</i>	FOV	<i>24.0</i>
Series Description	<i>Cor PD FSE FS</i>	Slice Thickness	<i>3.0</i>
Flip Angle	<i>120</i>	Slice Spacing	<i>1.0</i>
TE	<i>30.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>2000.0</i>	Phase	<i>224</i>
Echo Train Length	<i>8</i>	Freq DIR	<i>Unswap</i>
Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal</i>
IMAGE ENHANCE		NEX	<i>4.00</i>
Filter Choice	<i>A</i>	Phase FOV	<i>1.00</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>1.00</i>
Slice Order	<i>Interleaved</i>	User CV19	<i>1.00</i>
View Order	<i>Bottom/Up</i>	User CV21	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV22	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>2000.0</i>
SAT		TR Max	<i>5000.0</i>
Tag Type	<i>None</i>	MULTI-PHASE	
Fat/Water Saturation	<i>Fat Classic</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>2</i>	Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

Cor PD FSE FS

Cor PD FSE FS

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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>FSE-XL</i>
Coil Configuration	<i>HD 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>NPW, Seq, Fast, MRF, IrP</i>
SCAN TIMING		SCAN RANGE	
Plane	<i>OBLIQUE</i>	FOV	<i>22.0</i>
Series Description	<i>AX STIR</i>	Slice Thickness	<i>4.0</i>
Flip Angle	<i>180</i>	Slice Spacing	<i>0.5</i>
TE	<i>35.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>3042.0</i>	Phase	<i>160</i>
TI	<i>150</i>	Freq DIR	<i>Unswap</i>
Echo Train Length	<i>8</i>	Fat Shift DIR	<i>Normal</i>
Receiver Bandwidth	<i>20.83</i>	NEX	<i>2.00</i>
IMAGE ENHANCE		Phase FOV	<i>1.00</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		User CV22	<i>1.00</i>
PSD Trigger	<i>Internal</i>	TR Min	<i>3000.0</i>
Slice Order	<i>Interleaved</i>	TR Max	<i>6000.0</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	
TRICKS		Recon All Images	<i>On</i>
Pause On/Off	<i>On</i>	CONTRAST	
Auto Subtract	<i>0</i>	Contrast Yes/No	<i>No</i>
Auto SCIC	<i>Off</i>		

AX STIR

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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 8Ch Body Array by GE;HD 8ch Shoulder Array by NeoCoil</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, MRF</i>
SCAN TIMING		SCAN RANGE	
Plane	<i>OBLIQUE</i>	FOV	<i>22.0</i>
Series Description	<i>SAG PD FSE FS</i>	Slice Thickness	<i>4.0</i>
Flip Angle	<i>120</i>	Slice Spacing	<i>0.5</i>
TE	<i>30.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>2000.0</i>	Phase	<i>224</i>
Echo Train Length	<i>8</i>	Freq DIR	<i>Unswap</i>
Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal</i>
IMAGE ENHANCE		NEX	<i>4.00</i>
Filter Choice	<i>A</i>	Phase FOV	<i>1.00</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>1.00</i>
Slice Order	<i>Interleaved</i>	User CV19	<i>1.00</i>
View Order	<i>Bottom/Up</i>	User CV21	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV22	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>2000.0</i>
SAT		TR Max	<i>5000.0</i>
Tag Type	<i>None</i>	MULTI-PHASE	
Fat/Water Saturation	<i>Fat Classic</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>2</i>	Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

SAG PD FSE FS

SAG PD FSE FS