

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

3-Plane Localizer	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Feet First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	HD T/R Knee/Foot Coil by Invivo	Imaging Options	Seq, EDR, Fast, SS
	Plane	3-PLANE	SCAN RANGE	
	Series Description	3-Plane Localizer	FOV	48.0
	SCAN TIMING		Slice Thickness	8.0
	TE	80.0	Slice Spacing	0.0
	Number of Echoes	1	ACQ TIMING	
	TR	Minimum	Freq	352
	Receiver Bandwidth	83.33	Phase	160
	IMAGE ENHANCE		Freq DIR	Unswap
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	USER CVS	
	Slice Order	Interleaved	User CV2	240.00
	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			
OTHERS				
Protocol Notes	<p><i>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.</i></p>			

3-Plane Localizer

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

3-Plane Localizer	PATIENT POSITION		IMAGING PARAMETERS		3-Plane Localizer
	Patient Entry	Feet First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	HD T/R Knee/Foot Coil by Invivo	Imaging Options	Seq, EDR, Fast, SS	
	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	<p><i>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.</i></p>				

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

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/Foot Coil by Invivo</i>	Imaging Options	<i>TRF, Fast, MRF</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>SAG T1 FSE LFOV</i>	FOV	<i>26.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>160</i>	Slice Spacing	<i>0.0</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>577.0</i>	Phase	<i>160</i>
Echo Train Length	<i>5</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>31.25</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		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	
Slice Order	<i>Interleaved</i>	User CV8	<i>1.00</i>
View Order	<i>Bottom/Up</i>	User CV22	<i>1.00</i>
# of Repetitions REST	<i>0</i>	TR Min	<i>350.0</i>
# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>750.0</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 T1 FSE LFOV

SAG T1 FSE LFOV

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HD T/R Knee/Foot Coil by Invivo	Imaging Options	TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1 FSE	FOV	16.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	0.0
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	624.0	Phase	160
Echo Train Length	5	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 CV22	1.00
# of Repetitions REST	0	TR Min	350.0
# of Repetitions ACTIVE	0	TR Max	750.0
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

SAG T1 FSE

SAG T1 FSE

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HD T/R Knee/Foot Coil by Invivo	Imaging Options	NPW, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX (SA) T1 FSE	FOV	16.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	1.0
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	564.0	Phase	224
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Phase FOV	0.70
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV22	1.00
View Order	Bottom/Up	TR Min	350.0
# 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	Off	CONTRAST	
		Contrast Yes/No	No

AX (SA) T1 FSE

AX (SA) T1 FSE

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

COR T1 (LA) FSE	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/Foot Coil by Invivo</i>	Imaging Options	<i>NPW, TRF, Fast, MRF</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>COR T1 (LA) FSE</i>	FOV	<i>16.0</i>
	SCAN TIMING		Slice Thickness	<i>4.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>0.0</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>320</i>
	TR	<i>382.0</i>	Phase	<i>192</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>A/P</i>
	Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (A)</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>0.75</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	
	Slice Order	<i>Interleaved</i>	User CV22	<i>1.00</i>
	View Order	<i>Bottom/Up</i>	TR Min	<i>350.0</i>
	# of Repetitions REST	<i>0</i>	TR Max	<i>750.0</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>Off</i>	CONTRAST		
		Contrast Yes/No	<i>No</i>	

COR T1 (LA) FSE

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

AX STIR	PATIENT POSITION		IMAGING PARAMETERS		AX STIR
	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/Foot Coil by Invivo</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, ZIP512, MRF, IrP</i>	
	Plane	<i>OBLIQUE</i>	SCAN RANGE		
	Series Description	<i>AX STIR</i>	FOV	<i>16.0</i>	
	SCAN TIMING		Slice Thickness	<i>4.0</i>	
	Flip Angle	<i>160</i>	Slice Spacing	<i>1.0</i>	
	TE	<i>42.0</i>	ACQ TIMING		
	Number of Echoes	<i>1</i>	Freq	<i>288</i>	
	TR	<i>7295.0</i>	Phase	<i>160</i>	
	TI	<i>140</i>	Freq DIR	<i>S/I</i>	
	Echo Train Length	<i>10</i>	Fat Shift DIR	<i>Normal (I)</i>	
	Receiver Bandwidth	<i>25.00</i>	NEX	<i>2.00</i>	
	IMAGE ENHANCE		Phase FOV	<i>0.70</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>	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>		

Protocol: adult_lowerExtremities_OSTEO FOREFOOT WO

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/Foot Coil by Invivo</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, ZIP512, MRF, IrP</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>COR STIR</i>	FOV	<i>16.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>160</i>	Slice Spacing	<i>0.0</i>
TE	<i>42.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>5350.0</i>	Phase	<i>160</i>
TI	<i>140</i>	Freq DIR	<i>A/P</i>
Echo Train Length	<i>10</i>	Fat Shift DIR	<i>Normal (A)</i>
Receiver Bandwidth	<i>25.00</i>	NEX	<i>2.00</i>
IMAGE ENHANCE		Phase FOV	<i>0.75</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>	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>

COR STIR

COR STIR

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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/Foot Coil by Invivo	Imaging Options	NPW, Seq, EDR, TRF, Fast, ZIP512, MRF, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG STIR	FOV	16.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	0.0
TE	42.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	6728.0	Phase	160
TI	140	Freq DIR	A/P
Echo Train Length	14	Fat Shift DIR	Normal (P)
Receiver Bandwidth	25.00	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 CV21	1.00
PSD Trigger	Internal	User CV22	1.00
Slice Order	Interleaved	TR Min	2000.0
View Order	Bottom/Up	TR Max	15000.0
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	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 STIR

SAG STIR