

## MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Foot

**IMAGING PARAMETERS**

Imaging Mode 2D  
Pulse Sequence Gradient Echo  
Imaging Options Seq, Fast

**SCAN RANGE**

FOV 50.0  
Slice Thickness 5.00  
Slice Spacing 5.0  
Overlap Locations 0

**ACQ TIMING**

Freq 256  
Phase 128  
Freq DIR Unswap  
NEX 1.00  
Phase FOV 1.00  
Auto Shim Off  
Phase Correction No  
RF Drive Mode Single  
Excitation Mode Selective

**USER CVS**

User CV20 1.00  
User CV Mask2 0

**MULTI-PHASE**

Seperate Series 0  
Mask Phase 0  
Mask Pause 0  
Preserve 0

**DIFFUSION**

Recon All Images On  
# Synthetic b-values 1  
Synthetic b-value 1000.0;

**CONTRAST**

Contrast Yes/No No

**SCAN TIMING**

Number of Echoes 1

**IMAGE ENHANCE**

Filter Choice None

**GATING/TRIGGER**

Pause After Navigator Prescan 0

**FMRI**

PSD Trigger Internal  
View Order Bottom/Up  
# of Repetitions REST 0  
# of Repetitions ACTIVE 0

**SAT**

Tag Type None

**TRICKS**

Pause On/Off On  
Auto Subtract 0  
Auto SCIC Off

3-Plane Loc - 3-Plane Loc

3-Plane Loc - 3-Plane Loc

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**IMAGING PARAMETERS**

Imaging Mode *2D*  
Pulse Sequence *Gradient Echo*  
Imaging Options *Seq, Fast*

**SCAN RANGE**

FOV *32.0*  
Slice Thickness *5.00*  
Slice Spacing *5.0*  
Overlap Locations *0*

**ACQ TIMING**

Freq *256*  
Phase *128*  
Freq DIR *Unswap*  
NEX *1.00*  
Phase FOV *1.00*  
Auto Shim *Off*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

**USER CVS**

User CV20 *1.00*  
User CV Mask2 *0*

**MULTI-PHASE**

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

**DIFFUSION**

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

**CONTRAST**

Contrast Yes/No *No*

**SCAN TIMING**

Number of Echoes *1*

**IMAGE ENHANCE**

Filter Choice *None*

**GATING/TRIGGER**

Pause After Navigator  
Prescan *0*

**FMRI**

PSD Trigger *Internal*  
Slice Order *Interleaved*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

**SAT**

Tag Type *None*

**TRICKS**

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *Off*

3-Plane Loc - 3-Plane Loc

3-Plane Loc - 3-Plane Loc

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SAG PD FS FSE - SAG PD FS FSE	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	34.0
	Imaging Options	EDR, TRF, Fast	Number of Echoes	1
	<b>SCAN RANGE</b>		TR	3416.0
	FOV	20.0	Echo Train Length	7
	Slice Thickness	3.00	Receiver Bandwidth	27.78
	Slice Spacing	0.5	<b>IMAGE ENHANCE</b>	
	Overlap Locations	0	Filter Choice	None
	Number of Slices	33	<b>USER CVS</b>	
	<b>ACQ TIMING</b>		User CV12	1.00
	Freq	320	User CV19	1.00
	Phase	256	TR Min	1500.0
	Freq DIR	S/I	TR Max	10000.0
	Fat Shift DIR	Normal (S)	User CV30	1.00
	NEX	1.00	User CV39	1.00
	Phase FOV	1.00	User CV Mask2	256
	Auto Shim	Auto	<b>MULTI-PHASE</b>	
	Phase Correction	Yes	Seperate Series	0
	RF Drive Mode	Single	Mask Phase	0
	Excitation Mode	Selective	Mask Pause	0
	<b>FMRI</b>		Preserve	0
	PSD Trigger	Internal	<b>DIFFUSION</b>	
	View Order	Bottom/Up	Recon All Images	On
	# of Repetitions REST	0	Multi b-values	1000.0;
	# of Repetitions ACTIVE	0	Multi NEX Values	1.0;
	<b>SAT</b>		# Synthetic b-values	1
	Tag Type	None	Synthetic b-value	1000.0;
	Fat/Water Saturation	Fat Classic	<b>CONTRAST</b>	
	<b>TRICKS</b>		Contrast Yes/No	No
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	Off		

SAG PD FS FSE - SAG PD FS FSE

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Foot

Sag T1 FSE - Sag T1 FSE

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	EDR, TRF, Fast
SCAN RANGE	
FOV	20.0
Slice Thickness	3.00
Slice Spacing	0.5
Overlap Locations	0
Number of Slices	33
ACQ TIMING	
Freq	320
Phase	256
Freq DIR	S/I
Fat Shift DIR	Normal (S)
NEX	2.00
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
RF Drive Mode	Single
Excitation Mode	Selective
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

SCAN TIMING	
Flip Angle	160
TE	Min Full
Number of Echoes	1
TR	455.0
Echo Train Length	4
Receiver Bandwidth	35.71
IMAGE ENHANCE	
Filter Choice	None
USER CVS	
User CV12	1.00
TR Min	300.0
TR Max	600.0
User CV30	1.00
User CV39	1.00
User CV Mask2	256
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
Preserve	0
DIFFUSION	
Recon All Images	On
# Synthetic b-values	1
Synthetic b-value	1000.0;
CONTRAST	
Contrast Yes/No	No

Sag T1 FSE - Sag T1 FSE

MSK-THR HIP NEW

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Long axis PD FS FSE - Long axis PD FS FSE	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	34.0
	Imaging Options	EDR, TRF, Fast	Number of Echoes	1
	<b>SCAN RANGE</b>		TR	3416.0
	FOV	20.0	Echo Train Length	7
	Slice Thickness	3.00	Receiver Bandwidth	27.78
	Slice Spacing	0.5	<b>IMAGE ENHANCE</b>	
	Overlap Locations	0	Filter Choice	None
	Number of Slices	33	<b>USER CVS</b>	
	<b>ACQ TIMING</b>		User CV12	1.00
	Freq	320	User CV19	1.00
	Phase	256	TR Min	1500.0
	Freq DIR	R/L	TR Max	10000.0
	Fat Shift DIR	Normal (L)	User CV30	1.00
	NEX	1.00	User CV39	1.00
	Phase FOV	1.00	User CV Mask2	256
	Auto Shim	Auto	<b>MULTI-PHASE</b>	
	Phase Correction	Yes	Seperate Series	0
	RF Drive Mode	Single	Mask Phase	0
	Excitation Mode	Selective	Mask Pause	0
	<b>FMRI</b>		Preserve	0
	PSD Trigger	Internal	<b>DIFFUSION</b>	
	View Order	Bottom/Up	Recon All Images	On
	# of Repetitions REST	0	# Synthetic b-values	1
	# of Repetitions ACTIVE	0	Synthetic b-value	1000.0;
	<b>SAT</b>		<b>CONTRAST</b>	
	Tag Type	None	Contrast Yes/No	No
	Fat/Water Saturation	Fat Classic		
	<b>TRICKS</b>			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	Off		

Long axis PD FS FSE - Long axis PD FS FSE

## MSK-THR HIP NEW

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Short axis PD FS FSE - Short axis PD FS FSE

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	EDR, TRF, Fast
SCAN RANGE	
FOV	20.0
Slice Thickness	3.00
Slice Spacing	0.5
Overlap Locations	0
Number of Slices	50
ACQ TIMING	
Freq	320
Phase	224
Freq DIR	S/I
Fat Shift DIR	Normal (I)
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
RF Drive Mode	Single
Excitation Mode	Selective
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
Fat/Water Saturation	Fat Classic
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

SCAN TIMING	
Flip Angle	160
TE	31.0
Number of Echoes	1
TR	2500.0
Echo Train Length	7
Receiver Bandwidth	31.25
IMAGE ENHANCE	
Filter Choice	None
USER CVS	
User CV12	1.00
User CV19	1.00
TR Min	2500.0
TR Max	3500.0
User CV30	1.00
User CV39	1.00
User CV Mask2	256
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
Preserve	0
DIFFUSION	
Recon All Images	On
# Synthetic b-values	1
Synthetic b-value	1000.0;
CONTRAST	
Contrast Yes/No	No

Short axis PD FS FSE - Short axis PD FS FSE

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Foot

Short Ax T1 - Short Ax T1

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	EDR, TRF, Fast
SCAN RANGE	
FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.5
Overlap Locations	0
ACQ TIMING	
Freq	320
Phase	256
Freq DIR	R/L
Fat Shift DIR	Normal (L)
NEX	1.00
Phase FOV	0.70
Auto Shim	Auto
Phase Correction	Yes
RF Drive Mode	Single
Excitation Mode	Selective
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	2

SCAN TIMING	
Flip Angle	160
TE	Min Full
Number of Echoes	1
TR	428.0
Echo Train Length	4
Receiver Bandwidth	31.25
IMAGE ENHANCE	
Filter Choice	None
USER CVS	
User CV12	1.00
User CV30	1.00
User CV39	1.00
User CV Mask2	256
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
Preserve	0
DIFFUSION	
Recon All Images	On
# Synthetic b-values	1
Synthetic b-value	1000.0;
CONTRAST	
Contrast Yes/No	No

Short Ax T1 - Short Ax T1