

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

3pl LOC Right - 3pl LOC Right

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	Seq, Fast
SCAN RANGE	
FOV	30.0
Slice Thickness	7.00
Slice Spacing	3.0
Overlap Locations	0
ACQ TIMING	
Freq	256
Phase	128
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
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

3pl LOC Right - 3pl LOC Right

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

3pl LOC Right - 3pl LOC Right

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3pl LOC Left - 3pl LOC Left	<b>IMAGING PARAMETERS</b>		<b>SCAN RANGE</b>	
	Imaging Mode	2D	FOV	30.0
	Pulse Sequence	Gradient Echo	Slice Thickness	7.0
	Imaging Options	Seq, Fast	Slice Spacing	10.0
	<b>IMAGE ENHANCE</b>		<b>ACQ TIMING</b>	
	Filter Choice	None	Freq	256
	<b>GATING/TRIGGER</b>		Phase	128
	Auto Trigger Type	Off	Freq DIR	Unswap
	Pause After Navigator	0	NEX	1.00
	Prescan		Phase FOV	1.00
	<b>FMRI</b>		Auto Shim	Auto
	PSD Trigger	Internal	Phase Correction	No
	Slice Order	Interleaved	RF Drive Mode	Single
	View Order	Bottom/Up	Excitation Mode	Selective
	# of Repetitions REST	0	<b>USER CVS</b>	
	# of Repetitions ACTIVE	0	User CV Mask2	0
	<b>SAT</b>		<b>MULTI-PHASE</b>	
	Tag Type	None	Seperate Series	0
	<b>TRICKS</b>		Mask Phase	0
	Pause On/Off	On	Mask Pause	0
	Auto Subtract	0	<b>DIFFUSION</b>	
	Auto SCIC	Off	Recon All Images	On
			<b>CONTRAST</b>	
			Contrast Yes/No	No

3pl LOC Left - 3pl LOC Left

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

ARDL M SAG PD FS - ARDL M SAG PD FS

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast
SCAN RANGE	
FOV	17.0
Slice Thickness	3.00
Slice Spacing	0.3
Overlap Locations	0
Number of Slices	27
ACQ TIMING	
Freq	288
Phase	288
Freq DIR	S/I
Fat Shift DIR	Normal (S)
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Freq
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	2

ARDL M SAG PD FS - ARDL M SAG PD FS

SCAN TIMING	
Flip Angle	160
TE	36.0
Number of Echoes	1
TR	1783.0
Echo Train Length	9
Receiver Bandwidth	27.78
IMAGE ENHANCE	
Filter Choice	None
USER CVS	
User CV12	1.00
User CV19	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

ARDL M SAG PD FS - ARDL M SAG PD FS

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

ARDL M COR PD FS - ARDL M COR PD FS	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	35.0
	Imaging Options	FC, EDR, TRF, Fast	Number of Echoes	1
	<b>SCAN RANGE</b>		TR	1746.0
	FOV	17.0	Echo Train Length	9
	Slice Thickness	3.00	Receiver Bandwidth	27.78
	Slice Spacing	0.3	<b>IMAGE ENHANCE</b>	
	Overlap Locations	0	Filter Choice	None
	Number of Slices	27	<b>USER CVS</b>	
	<b>ACQ TIMING</b>		User CV12	1.00
	Freq	288	User CV19	1.00
	Phase	288	TR Min	1500.0
	Freq DIR	S/I	TR Max	3300.0
	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
	Flow Direction Compensation	Freq	Mask Phase	0
	RF Drive Mode	Single	Mask Pause	0
	Excitation Mode	Selective	Preserve	0
	<b>FMRI</b>		<b>DIFFUSION</b>	
	PSD Trigger	Internal	Recon All Images	On
	View Order	Bottom/Up	# Synthetic b-values	1
	# of Repetitions REST	0	Synthetic b-value	1000.0;
	# of Repetitions ACTIVE	0	<b>CONTRAST</b>	
	<b>SAT</b>		Contrast Yes/No	No
	Tag Type	None		
	Fat/Water Saturation	Fat Classic		
	<b>TRICKS</b>			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	2		

ARDL M COR PD FS - ARDL M COR PD FS

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

ARDL H Sag T1 - ARDL H Sag T1	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	Min Full
	Imaging Options	FC, EDR, TRF, Fast, ARC	Number of Echoes	1
	Phase	1.50	TR	363.0
	<b>SCAN RANGE</b>		Echo Train Length	4
	FOV	17.0	Receiver Bandwidth	35.71
	Slice Thickness	3.00	<b>IMAGE ENHANCE</b>	
	Slice Spacing	0.3	Filter Choice	None
	Overlap Locations	0	<b>USER CVS</b>	
	Number of Slices	28	User CV12	1.00
	<b>ACQ TIMING</b>		TR Min	300.0
	Freq	352	TR Max	700.0
	Phase	320	User CV30	1.00
	Freq DIR	Unswap	User CV39	1.00
	Fat Shift DIR	Normal	User CV Mask2	256
	NEX	1.50	<b>MULTI-PHASE</b>	
	# of Acq. Before Pause	0	Seperate Series	0
	Phase FOV	1.00	Mask Phase	0
	Auto Shim	Auto	Mask Pause	0
	Phase Correction	Yes	Preserve	0
	Flow Direction Compensation	Freq	<b>DIFFUSION</b>	
	RF Drive Mode	Single	Recon All Images	On
	Excitation Mode	Selective	# Synthetic b-values	1
	<b>FMRI</b>		Synthetic b-value	1000.0;
	PSD Trigger	Internal	<b>TRACKER</b>	
	View Order	Bottom/Up	Tracker Length	200.0
	# of Repetitions REST	0	Tracker Thickness	20.0
	# of Repetitions ACTIVE	0		
	<b>SAT</b>			
	Tag Type	None		
	<b>TRICKS</b>			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	2		
	<b>CONTRAST</b>			
	Contrast Yes/No	No		

ARDL H Sag T1 - ARDL H Sag T1

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

ARDL M AX PD (No FS) - ARDL M AX PD (No FS)	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	36.0
	Imaging Options	FC, EDR, TRF, Fast	Number of Echoes	1
	<b>SCAN RANGE</b>		TR	2812.0
	FOV	17.0	Echo Train Length	9
	Slice Thickness	3.00	Receiver Bandwidth	27.78
	Slice Spacing	0.3	<b>IMAGE ENHANCE</b>	
	Overlap Locations	0	Filter Choice	None
	Number of Slices	27	<b>USER CVS</b>	
	<b>ACQ TIMING</b>		User CV12	1.00
	Freq	320	TR Min	1500.0
	Phase	288	TR Max	3300.0
	Freq DIR	A/P	User CV30	1.00
	Fat Shift DIR	Normal (P)	User CV39	1.00
	NEX	1.00	User CV Mask2	256
	Phase FOV	1.00	<b>MULTI-PHASE</b>	
	Auto Shim	Auto	Seperate Series	0
	Phase Correction	Yes	Mask Phase	0
	Flow Direction Compensation	Freq	Mask Pause	0
	RF Drive Mode	Single	Preserve	0
	Excitation Mode	Selective	<b>DIFFUSION</b>	
	<b>FMRI</b>		Recon All Images	On
	PSD Trigger	Internal	# Synthetic b-values	1
	View Order	Bottom/Up	Synthetic b-value	1000.0;
	# of Repetitions REST	0	<b>CONTRAST</b>	
	# of Repetitions ACTIVE	0	Contrast Yes/No	No
	<b>SAT</b>			
	Tag Type	None		
	<b>TRICKS</b>			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	2		

ARDL M AX PD (No FS) - ARDL M AX PD (No FS)

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

ARDL M AX T2 FS - ARDL M AX T2 FS	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Flip Angle	160
	Pulse Sequence	FSE-XL	TE	68.0
	Imaging Options	FC, EDR, TRF, Fast	Number of Echoes	1
	<b>SCAN RANGE</b>		TR	5217.0
	FOV	17.0	Echo Train Length	16
	Slice Thickness	3.00	Receiver Bandwidth	27.78
	Slice Spacing	0.3	<b>IMAGE ENHANCE</b>	
	Overlap Locations	0	Filter Choice	None
	Number of Slices	27	<b>USER CVS</b>	
	<b>ACQ TIMING</b>		User CV12	1.00
	Freq	288	User CV19	1.00
	Phase	288	TR Min	1500.0
	Freq DIR	A/P	TR Max	10000.0
	Fat Shift DIR	Normal (P)	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
	Flow Direction Compensation	Freq	Mask Phase	0
	RF Drive Mode	Single	Mask Pause	0
	Excitation Mode	Selective	Preserve	0
	<b>FMRI</b>		<b>DIFFUSION</b>	
	PSD Trigger	Internal	Recon All Images	On
	View Order	Bottom/Up	# Synthetic b-values	1
	# of Repetitions REST	0	Synthetic b-value	1000.0;
	# of Repetitions ACTIVE	0	<b>CONTRAST</b>	
	<b>SAT</b>		Contrast Yes/No	No
	Tag Type	None		
	Fat/Water Saturation	Fat Classic		
	<b>TRICKS</b>			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	2		

ARDL M AX T2 FS - ARDL M AX T2 FS

MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

**IMAGING PARAMETERS**

Imaging Mode 2D  
Pulse Sequence FSE-XL  
Imaging Options FC, EDR, TRF, Fast, ARC  
Phase 2.00

**SCAN RANGE**

FOV 17.0  
Slice Thickness 3.0  
Slice Spacing 0.5  
Number of Slices 40

**ACQ TIMING**

Freq 384  
Phase 288  
Freq DIR S/I  
Fat Shift DIR Normal (I)  
NEX 1.00  
# of Acq. Before Pause 0  
Auto Shim Auto  
Phase Correction Yes  
Flow Direction Freq  
Compensation  
RF Drive Mode Single  
Excitation Mode Selective

**USER CVS**

TR Min 300.0  
TR Max 700.0  
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;

**TRACKER**

Tracker Length 200.0  
Tracker Thickness 20.0

**SCAN TIMING**

Flip Angle 160  
TE Min Full  
Number of Echoes 1  
TR 354.0  
Echo Train Length 2  
Receiver Bandwidth 25.00

**IMAGE ENHANCE**

Filter Choice C

**GATING/TRIGGER**

Auto Trigger Type Off

**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 2

**CONTRAST**

Contrast Yes/No No



## MSK-THR HIP NEW

Protocol: adult lowerExtremities MSK ARDL 2022-Ankle std

## IMAGING PARAMETERS

<b>Imaging Mode</b>	<i>2D</i>
<b>Pulse Sequence</b>	<i>FSE-XL</i>
<b>Imaging Options</b>	<i>EDR, TRF, Fast, ARC</i>
<b>Phase</b>	<i>2.00</i>

## SCAN RANGE

<b>FOV</b>	<i>16.0</i>
<b>Slice Thickness</b>	<i>4.0</i>
<b>Slice Spacing</b>	<i>1.0</i>
<b>Number of Slices</b>	<i>25</i>

## ACQ TIMING

<b>Freq</b>	352
<b>Phase</b>	256
<b>Freq DIR</b>	R/L
<b>Fat Shift DIR</b>	Normal (L)
<b>NEX</b>	1.00
<b># of Acq. Before Pause</b>	0
<b>Auto Shim</b>	Auto
<b>Phase Correction</b>	Yes
<b>RF Drive Mode</b>	Single
<b>Excitation Mode</b>	Selective

## USER CVS

User CV8	1.00
User CV9	1.00
User CV19	1.00
User CV21	1.00
TR Min	300.0
TR Max	750.0
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

<b>Recon All Images</b>	<i>On</i>
<b># Synthetic b-values</b>	<i>1</i>
<b>Synthetic b-value</b>	<i>1000.0;</i>

## CONTRAST

Contrast Yes/No	Yes
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## SCAN TIMING

<b>Flip Angle</b>	<i>160</i>
<b>TE</b>	<i>Min Full</i>
<b>Number of Echoes</b>	<i>1</i>
<b>TR</b>	<i>692.0</i>
<b>Echo Train Length</b>	<i>3</i>
<b>Receiver Bandwidth</b>	<i>20.83</i>

## IMAGE ENHANCE

Filter Choice *None*

## GATING/TRIGGER

Auto Trigger Type *Off*

## FMRI

<b>PSD Trigger</b>	<i>Internal</i>
<b>Slice Order</b>	<i>Interleaved</i>
<b>View Order</b>	<i>Bottom/Up</i>
<b># of Repetitions REST</b>	0
<b># of Repetitions ACTIVE</b>	0

## SAT

Tag Type	None
Fat/Water Saturation	Fat Classic

## TRICKS

<b>Pause On/Off</b>	<i>On</i>
<b>Auto Subtract</b>	<i>0</i>
<b>Auto SCIC</b>	<i>2</i>

## MSK-THR HIP NEW

Protocol: adult\_lowerExtremities\_MSK ARDL 2022-Ankle std

## IMAGING PARAMETERS

Imaging Mode	3D
Pulse Sequence	LAVA
Imaging Options	EDR, Fast, ARC
Phase	2.00
Slice	1.00

## SCAN RANGE

FOV	21.4
Slice Thickness	0.70
Location per Slab	132
Overlap Locations	0
Number of Slices	1

## ACQ TIMING

Freq	288
Phase	288
Freq DIR	S/I
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
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 Special

## TRICKS

Pause On/Off	On
Auto Subtract	0
Auto SCIC	2

## CONTRAST

Contrast Yes/No	Yes
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## SCAN TIMING

Flip Angle	22
Number of Echoes	1
TI	26
Receiver Bandwidth	31.25

## IMAGE ENHANCE

Filter Choice	A
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## USER CVS

User CV30	1.00
User CV Mask2	0

## MULTI-PHASE

Seperate Series	0
Trigger Delay without AV	0
Mask Phase	0
Mask Pause	0
Preserve	0

## DIFFUSION

Recon All Images	On
Multi b-values	1000.0;
Multi NEX Values	1.0;
# Synthetic b-values	1
Synthetic b-value	1000.0;

## TRACKER

Tracker Length	120.0
Tracker Thickness	20.0

3D COR LAVA POST GAD - 3D COR LAVA POST GAD

3D COR LAVA POST GAD - 3D COR LAVA POST GAD