

Protocol: adult\_lowerExtremities\_MSK - Ankle

**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 Optimized  
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

3pi LOC LEFT - 3pi LOC LEFT

3pi LOC LEFT - 3pi LOC LEFT

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3pI LOC Right - 3pI LOC Right	<b>IMAGING PARAMETERS</b>		<b>SCAN TIMING</b>	
	Imaging Mode	2D	Number of Echoes	1
	Pulse Sequence	Gradient Echo	<b>IMAGE ENHANCE</b>	
	Imaging Options	Seq, Fast	Filter Choice	None
	<b>SCAN RANGE</b>		<b>GATING/TRIGGER</b>	
	FOV	30.0	Pause After Navigator Prescan	0
	Slice Thickness	7.00	<b>FMRI</b>	
	Slice Spacing	3.0	PSD Trigger	Internal
	Overlap Locations	0	View Order	Bottom/Up
	<b>ACQ TIMING</b>		# of Repetitions REST	0
	Freq	256	# of Repetitions ACTIVE	0
	Phase	128	<b>SAT</b>	
	Freq DIR	Unswap	Tag Type	None
	NEX	1.00	<b>TRICKS</b>	
	Phase FOV	1.00	Pause On/Off	On
	Auto Shim	Auto	Auto Subtract	0
	Phase Correction	No	Auto SCIC	Off
	RF Drive Mode	Optimized		
	Excitation Mode	Selective		
	<b>USER CVS</b>			
	User CV20	1.00		
	User CV Mask2	0		
	<b>MULTI-PHASE</b>			
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	Preserve	0		
	<b>DIFFUSION</b>			
	Recon All Images	On		
	# Synthetic b-values	1		
	Synthetic b-value	1000.0;		
	<b>CONTRAST</b>			
	Contrast Yes/No	No		

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	2.00

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	30

**ACQ TIMING**

Freq	352
Phase	352
Freq DIR	S/I
Fat Shift DIR	Normal (S)
NEX	1.50
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Freq
RF Drive Mode	Quadrature (CP)
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

**SCAN TIMING**

Flip Angle	150
TE	33.0
Number of Echoes	1
TR	1623.0
Echo Train Length	9
Receiver Bandwidth	50.00

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

User CV19	1.00
TR Min	1500.0
TR Max	3000.0
User CV30	1.00
User CV Mask2	512

**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
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ardl med SAG PD FS - ardl med SAG PD FS

ardl med SAG PD FS - ardl med SAG PD FS

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	1.30

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	37

**ACQ TIMING**

Freq	320
Phase	320
Freq DIR	A/P
Fat Shift DIR	Normal (A)
NEX	1.50
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Slice
RF Drive Mode	Quadrature (CP)
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

**CONTRAST**

Contrast Yes/No	No
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**SCAN TIMING**

Flip Angle	150
TE	68.0
Number of Echoes	1
TR	5892.0
Echo Train Length	16
Receiver Bandwidth	50.00

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

User CV19	1.00
TR Min	1500.0
TR Max	10000.0
User CV30	1.00
User CV Mask2	512

**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

ardl med AX t2 FS OBL - ardl med AX t2 FS OBL

ardl med AX t2 FS OBL - ardl med AX t2 FS OBL

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	1.40

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	37

**ACQ TIMING**

Freq	320
Phase	320
Freq DIR	A/P
Fat Shift DIR	Normal (A)
NEX	1.50
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Freq
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

**FMRI**

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

**SAT**

Tag Type	None
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**TRICKS**

Pause On/Off	On
Auto Subtract	0
Auto SCIC	2

**SCAN TIMING**

Flip Angle	150
TE	35.0
Number of Echoes	1
TR	1607.0
Echo Train Length	9
Receiver Bandwidth	50.00

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

TR Min	1500.0
TR Max	3000.0
User CV30	1.00
User CV Mask2	512

**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
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ardl med AX PD - ardl med AX PD

ardl med AX PD - ardl med AX PD

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	1.00

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	40

**ACQ TIMING**

Freq	352
Phase	320
Freq DIR	S/I
Fat Shift DIR	Normal (I)
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Freq
RF Drive Mode	Quadrature (CP)
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

**SCAN TIMING**

Flip Angle	150
TE	37.0
Number of Echoes	1
TR	2283.0
Echo Train Length	9
Receiver Bandwidth	41.67

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

User CV19	1.00
TR Min	1500.0
TR Max	3000.0
User CV30	1.00
User CV Mask2	512

**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
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ardl med COR PD FS - ardl med COR PD FS

ardl med COR PD FS - ardl med COR PD FS

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	EDR, TRF, Fast, ZIP1024, ARC
Phase	2.00

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	40

**ACQ TIMING**

Freq	640
Phase	512
Freq DIR	S/I
Fat Shift DIR	Normal (I)
NEX	1.50
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

**FMRI**

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

**SAT**

Tag Type	None
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**TRICKS**

Pause On/Off	On
Auto Subtract	0
Auto SCIC	2

**CONTRAST**

Contrast Yes/No	No
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**SCAN TIMING**

Flip Angle	111
TE	Min Full
Number of Echoes	1
TR	620.0
Echo Train Length	5
Receiver Bandwidth	62.50

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

TR Min	600.0
TR Max	850.0
User CV30	1.00
User CV Mask2	512

**MULTI-PHASE**

Seperate Series	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	200.0
Tracker Thickness	20.0

ardl high Sag T1 fse - ardl high Sag T1 fse

ardl high Sag T1 fse - ardl high Sag T1 fse

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**IMAGING PARAMETERS**

Imaging Mode	3D
Pulse Sequence	Cube
Imaging Options	FC, EDR, Fast, FR, ARC
Phase	2.00
Slice	1.00

**SCAN RANGE**

FOV	15.0
Slice Thickness	0.4
Location per Slab	160
Overlap Locations	0
Number of Slices	1

**ACQ TIMING**

Freq	240
Phase	200
Freq DIR	R/L
Fat Shift DIR	Normal (L)
NEX	2.00
Phase FOV	0.80
Auto Shim	Auto
Phase Correction	No
Flow Direction Compensation	Slice
RF Drive Mode	Preset
Excitation Mode	Focus

**FMRI**

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

**SAT**

Tag Type	None
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**TRICKS**

Pause On/Off	On
Auto Subtract	0
Auto SCIC	3

**SCAN TIMING**

TE	160.0
Number of Echoes	1
TR	2289.0
Echo Train Length	130
Receiver Bandwidth	62.50

**IMAGE ENHANCE**

Filter Choice	G
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**USER CVS**

User CV22	2.00
User CV29	1.00
User CV32	1.00
User CV34	null
User CV Mask2	3074

**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
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====Options==== - ====Options====

====Options==== - ====Options====



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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	1.30

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	37

**ACQ TIMING**

Freq	416
Phase	416
Freq DIR	A/P
Fat Shift DIR	Normal (A)
NEX	1.50
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Slice
RF Drive Mode	Quadrature (CP)
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

**CONTRAST**

Contrast Yes/No	No
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**SCAN TIMING**

Flip Angle	150
TE	68.0
Number of Echoes	1
TR	8250.0
Echo Train Length	16
Receiver Bandwidth	31.25

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

User CV19	1.00
TR Min	1500.0
TR Max	10000.0
User CV30	1.00
User CV Mask2	512

**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

ardl med AX t2 FS OBL - ardl med AX t2 FS OBL

ardl med AX t2 FS OBL - ardl med AX t2 FS OBL

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**IMAGING PARAMETERS**

Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	FC, EDR, TRF, Fast, ZIP1024, ARC
Phase	1.00

**SCAN RANGE**

FOV	16.0
Slice Thickness	3.00
Slice Spacing	0.2
Overlap Locations	0
Number of Slices	40

**ACQ TIMING**

Freq	416
Phase	416
Freq DIR	S/I
Fat Shift DIR	Normal (I)
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
Flow Direction Compensation	Freq
RF Drive Mode	Quadrature (CP)
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

**SCAN TIMING**

Flip Angle	150
TE	37.0
Number of Echoes	1
TR	2795.0
Echo Train Length	9
Receiver Bandwidth	31.25

**IMAGE ENHANCE**

Filter Choice	None
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**USER CVS**

User CV19	1.00
TR Min	1500.0
TR Max	3000.0
User CV30	1.00
User CV Mask2	512

**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
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ardl med COR PD FS - ardl med COR PD FS

ardl med COR PD FS - ardl med COR PD FS