

1 Achilles (Tendon) DISCOVERY MR750w

Technical Instructions

3-Plane Loc

Mortise Sag T1

Mortise Sag T2 85% dk fat

Straight Ax PD

Straight Ax T2 cl fat

Mortise Cor T2 cl fat

--old/optional--

Mortise Sag PD

3-Plane Loc

3-Plane Loc

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	NPW, Seq, EDR, TRF, Fast, SS, ARC
Phase:	2.00

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV1: 1.00
User CV16: None
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

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

SCAN TIMING

TE: 85.0
Number of Echoes: 1
TR: Minimum
Receiver Bandwidth: 62.50

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0
Preserve: 0

SCAN RANGE

FOV:	20.0
Slice Thickness:	5.0
Slice Spacing:	10.0
Number of Slices:	33
Table Delta:	0.00

ACQ TIMING

Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Ankle joint
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Mortise Sag T1

Mortise Sag T1

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV6: None
User CV7: None
User CV8: None
User CV9: None
User CV15: None
User CV16: None
User CV18: None
User CV21: 1.00
User CV22: 1.00
User CV30: 1.00
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

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

SCAN TIMING

Flip Angle: 111
TE: 18.0
Number of Echoes: 1
TR: 800.0
Echo Train Length: 4
Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0
Preserve: 0

SCAN RANGE

FOV: 16.0
Slice Thickness: 3.0
Slice Spacing: 0.2
Number of Slices: 8
Table Delta: 0.00

ACQ TIMING

Freq: 320
Phase: 224
Freq DIR: S/I
NEX: 2.00
Auto Shim: Auto
Phase Correct: On
RF Drive Mode: Preset
Excitation Mode: Selective
Fat Shift DIR: Normal (S)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Ankle joint

Mortise Sag T2 85% dk fat

Mortise Sag T2 85% dk fat

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None
Fat/Water Saturation: Fat

USER CVS

User CV6: None
User CV7: None
User CV8: None
User CV9: None
User CV15: None
User CV19: 0.80
User CV21: 1.00
User CV22: 1.00
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

Recon All Images: On

SCAN TIMING

Flip Angle: 111
TE: 80.0
Number of Echoes: 1
TR: 3500.0
Echo Train Length: 19
Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

SCAN RANGE

FOV:	16.0
Slice Thickness:	3.0
Slice Spacing:	0.2
Number of Slices:	22
Table Delta:	0.00

ACQ TIMING

Freq:	352
Phase:	256
Freq DIR:	S/I
NEX:	2.00
# of Acq. Before Pause:	0
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
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Auto Subtract:

0

OTHERS

Anatomical Region:

Ankle joint

Straight Ax PD

Straight Ax PD

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV6: None
User CV7: 1.00
User CV8: None
User CV9: None
User CV15: None
User CV17: 1.00
User CV18: None
User CV21: 1.00
User CV22: 1.00
User CV30: 1.00
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

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

SCAN TIMING

Flip Angle: 111
TE: 24.0
Number of Echoes: 1
TR: 2500.0
Echo Train Length: 7
Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0
Preserve: 0

SCAN RANGE

FOV: 14.0
Slice Thickness: 4.0
Slice Spacing: 1.0
Number of Slices: 13
Table Delta: 0.00

ACQ TIMING

Freq: 320
Phase: 256
Freq DIR: A/P
NEX: 2.00
Auto Shim: Auto
Phase Correct: On
RF Drive Mode: Preset
Excitation Mode: Selective
Fat Shift DIR: Normal (A)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Ankle joint

Straight Ax T2 cl fat

Straight Ax T2 cl fat

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256

DIFFUSION

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

SCAN TIMING

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3500.0
Echo Train Length:	19

Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

SCAN RANGE

FOV: 14.0

Slice Thickness: 4.0

Slice Spacing: 1.0

Number of Slices: 5

Table Delta: 0.00

ACQ TIMING

Freq: 352

Phase: 256

Freq DIR: S/I

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Preset

Excitation Mode: Selective

Fat Shift DIR: Normal (S)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Ankle joint

Mortise Cor T2 cl fat

Mortise Cor T2 cl fat

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3500.0
Echo Train Length:	19
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

SCAN RANGE

FOV:	16.0
Slice Thickness:	3.0
Slice Spacing:	1.5
Number of Slices:	6
Table Delta:	0.00

ACQ TIMING

Freq:	352
Phase:	256
Freq DIR:	S/I
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Ankle joint

--old/optional--

--old/optional--

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV1: 1.0
User CV2: 240.00
User CV13: 1.00
User CV15: None
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

Recon All Images: On

SCAN TIMING

TE: 80.0
TR: Minimum
Receiver Bandwidth: 62.50

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0

SCAN RANGE

FOV: 28.0
Slice Thickness: 5.0

Slice Spacing:	0.0
Table Delta:	0.00

ACQ TIMING

Freq:	384
Phase:	256
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Ankle joint
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Mortise Sag PD

Mortise Sag PD

PATIENT POSITION

Coil Configuration:	HD Foot Ankle
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV6: None
User CV7: 1.00
User CV8: None
User CV9: None
User CV15: None
User CV17: 1.00
User CV21: 1.00
User CV22: 1.00
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

Recon All Images: On

SCAN TIMING

Flip Angle: 111
TE: 24.0
Number of Echoes: 1
TR: 2500.0
Echo Train Length: 7
Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

SCAN RANGE

FOV:	16.0
Slice Thickness:	3.0
Slice Spacing:	0.2
Number of Slices:	19
Table Delta:	0.00

ACQ TIMING

Freq:	320
Phase:	256
Freq DIR:	A/P
NEX:	2.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:

Ankle joint