

msk Hip Arthrogram DISCOVERY MR750w

Technical Instructions

3-Plane Loc

+C Cor T1 cl fat

+C Cor T2 cl fat

+C Sag PD cl fat

+C Obl AX T1 cl fat

+C Ax T1 No Fat

+C Ax T2 cl fat

+C Sag 3D IDEAL-SPGR

--optional--

+C Radial PD cl fat

+C Sag 3D IDEAL-SPGR

3-Plane Loc

3-Plane Loc

PATIENT POSITION

Coil Configuration:	Body 30 Small
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: 1.00
User CV2: 240.00
User CV13: 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: 80.0
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: 40.0
Slice Thickness: 5.0
Slice Spacing: 0.0
Table Delta: 0.00

ACQ TIMING

Freq: 256
Phase: 128
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

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

+C Cor T1 cl fat

+C Cor T1 cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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:	None
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:	18.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
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:	20.0
Slice Thickness:	4.0
Slice Spacing:	0.4
Number of Slices:	28
Table Delta:	0.00

ACQ TIMING

Freq:	320
Phase:	192
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: Hip joint

+C Cor T2 cl fat

+C Cor T2 cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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:	None
User CV22:	1.00
User CV Mask2:	0
TR Min:	2500.0
TR Max:	11000.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	60.0
Number of Echoes:	1
TR:	2500.0
Echo Train Length:	10
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 20.0

Slice Thickness: 4.0

Slice Spacing: 0.4

Table Delta: 0.00

ACQ TIMING

Freq: 320

Phase: 192

Freq DIR: Unswap

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Preset

Excitation Mode: Selective

Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

+C Sag PD cl fat

+C Sag PD cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
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:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2500.0
TR Max:	11000.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	25.0
Number of Echoes:	1
TR:	2962.0
Echo Train Length:	6
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 18.0

Slice Thickness: 4.0

Slice Spacing: 0.4

Number of Slices: 33

Table Delta: 0.00

ACQ TIMING

Freq: 320

Phase: 192

Freq DIR: S/I

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal (I)

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

+C Obl AX T1 cl fat

+C Obl AX T1 cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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 CV15:	None
User CV19:	1.00
User CV21:	None
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:	18.0
Number of Echoes:	1
TR:	800.0
Echo Train Length:	4
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:	18.0
Slice Thickness:	4.0
Slice Spacing:	0.4
Number of Slices:	16
Table Delta:	0.00

ACQ TIMING

Freq:	288
Phase:	224
Freq DIR:	S/I
NEX:	2.00
# of Acq. Before Pause:	0
Auto Shim:	Auto
Phase Correct:	On
Flow Comp Direction:	Slice
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: Hip joint

+C Ax T1 No Fat

+C Ax T1 No Fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	OBLIQUE

IMAGING PARAMETERS

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

Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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 CV15: None
User CV21: None
User CV22: 1.00
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

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

SCAN RANGE

FOV: 18.0
Slice Thickness: 4.0
Slice Spacing: 0.4
Number of Slices: 16
Table Delta: 0.00

ACQ TIMING

Freq: 288
Phase: 224
Freq DIR: S/I
NEX: 2.00
Auto Shim: Auto
Phase Correct: On
Flow Comp Direction: Slice
RF Drive Mode: Preset
Excitation Mode: Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region:

Hip joint

+C Ax T2 cl fat

+C Ax T2 cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	AXIAL

IMAGING PARAMETERS

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

Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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 CV7:	None
User CV8:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV Mask2:	0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	85.0
Number of Echoes:	1
TR:	2800.0
Echo Train Length:	17
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

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

SCAN RANGE

FOV: 18.0
Slice Thickness: 4.0
Slice Spacing: 0.4
Number of Slices: 25
Table Delta: 0.00

ACQ TIMING

Freq: 320
Phase: 224
Freq DIR: R/L
NEX: 2.00
of Acq. Before Pause: 0
Auto Shim: Auto
Phase Correct: On
Flow Comp Direction: Slice
RF Drive Mode: Preset
Excitation Mode: Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region:

Hip joint

+C Sag 3D IDEAL-SPGR

+C Sag 3D IDEAL-SPGR

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	SAGITTAL

IMAGING PARAMETERS

Imaging Mode:	3D
Pulse Sequence:	SPGR
Imaging Options:	EDR, Fast, ZIP2, Asset, IDEAL
IDEAL:	3
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

Tag Type: None

USER CVS

User CV4: None

User CV6: 2.00

User CV23: 78.00

User CV Mask2: 0

DIFFUSION

Multi b-values: 1000.0;

Multi NEX Values: 1;

Synthetic b-values: 1

Synthetic b-value: 1000.0;

Recon All Images: On

SCAN TIMING

Flip Angle: 14

TE: Min Full

Number of Echoes: 1

Receiver Bandwidth: 31.25

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Trigger Delay without AV: 0

Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	20.0
Slice Thickness:	1.6
Location per Slab:	60
Overlap Locations:	0
Number of Slices:	1
Table Delta:	0.00

TRACKER

Tracker Length:	200.0
Tracker Thickness:	20.0

ACQ TIMING

Freq:	350
Phase:	350
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

--optional--

--optional--

PATIENT POSITION

Coil Configuration:	Body 30 Small
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: 40.0
Slice Thickness: 5.0

Slice Spacing:	0.0
Table Delta:	0.00

ACQ TIMING

Freq:	256
Phase:	128
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:	Hip joint
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+C Radial PD cl fat

+C Radial PD cl fat

PATIENT POSITION

Coil Configuration:	Body 30 Small
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:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2500.0
TR Max:	11000.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	42.0
Number of Echoes:	1
TR:	2500.0
Echo Train Length:	6
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 22.0

Slice Thickness: 2.0

Slice Spacing: 0.0

Table Delta: 0.00

ACQ TIMING

Freq: 320

Phase: 224

Freq DIR: Unswap

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint

+C Sag 3D IDEAL-SPGR

+C Sag 3D IDEAL-SPGR

PATIENT POSITION

Coil Configuration:	Body 30 Small
Plane:	SAGITTAL

IMAGING PARAMETERS

Imaging Mode:	3D
Pulse Sequence:	SPGR
Imaging Options:	EDR, Fast, ZIP512, Asset, IDEAL
IDEAL:	3
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
Tag Type:	None

USER CVS

User CV4:	None
User CV6:	2.00
User CV23:	78.00
User CV Mask2:	0

DIFFUSION

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

SCAN TIMING

Flip Angle:	14
TE:	Min Full
Number of Echoes:	1
Receiver Bandwidth:	31.25

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

Seperate Series:	0
Trigger Delay without AV:	0

Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	24.0
Slice Thickness:	0.9
Location per Slab:	98
Overlap Locations:	0
Number of Slices:	1
Table Delta:	0.00

TRACKER

Tracker Length:	200.0
Tracker Thickness:	20.0

ACQ TIMING

Freq:	268
Phase:	268
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Preset
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No: Yes

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Hip joint