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L-Spine
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Spine Discitis XA60
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## \\USER\SpineL-Spine\Spine Discitis XA60\localizer \*

TA: 7 sec Coil Selection: Auto Voxel Size: 0.6×0.6×10.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	3
Distance Factor	50 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Slice Group	2
Slices	3
Distance Factor	50 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FOV Read	300 mm
FOV Phase	100.0 %
Slice Thickness	10.0 mm
TR	11.0 ms
TE	5.08 ms
Averages	1
Concatenations	6
AutoAlign	---

**Contrast - Common**

TR	11.0 ms
TE	5.08 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	30 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
SWI	Off
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	300 mm
FOV Phase	100.0 %
Slice Thickness	10.0 mm
Base Resolution	256
Phase Resolution	50 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Deep Resolve	Off
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
POCS	Off
Distortion Correction	2D
Normalize	Off
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	3
Distance Factor	50 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Slice Group	2
Slices	3
Distance Factor	50 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FOV Read	300 mm
FOV Phase	100.0 %
Slice Thickness	10.0 mm
TR	11.0 ms
Multi-Slice Mode	Sequential
Series	Interleaved
Concatenations	6

**Geometry - AutoAlign**

Slice Group	1
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Slice Group	2
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Coronal
Initial Rotation	0.00 deg

**Geometry - Saturation**

Saturation Mode	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm

**System - Adjust Volume**

Reset	Off
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**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	11.0 ms
Segments	1
Concatenations	6

**Physio - Cardiac**

Tagging	None
Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	300 mm
FOV Phase	100.0 %
Phase Resolution	50 %

**Physio - PACE**

Resp. Control	Off
Concatenations	6

**Inline - Liver**

Liver Registration	Off
Save Original Images	On

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Soft Tissue**

Wash-in	Off
Wash-out	Off
TTP	Off
PEI	Off
MIP Time	Off

**Inline - Soft Tissue**

Measurements	1
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**Inline - Composing**

Inline Composing	Off
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**Inline - MapIt**

MapIt	None
Flip Angle	30 deg
Measurements	1
Contrasts	1
TE	5.08 ms
TR	11.0 ms
Save Original Images	On

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	fl
Dimension	2D
Excitation	Slice-sel.
RF Pulse Type	Fast
Gradient Mode	Normal
Flow Compensation	None
Bandwidth	130 Hz/Px
Asymmetric Echo	Off
Segments	1

**Sequence - Part 2**

Introduction	On
RF Spoiling	On
Acoustic noise reduction	Off

**Sequence - Assistant**

SAR Assistant	Off
Allowed Delay	0 s

## \\USER\Spine\L-Spine\Spine Discitis XA60\T2 STIR Sag\_3mm\_drb \*

TA: 1:26 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Resolution - Common**

FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	336
Phase Resolution	75 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	27
Deep Resolve	On
Phase Partial Fourier	Off

**Routine**

Slice Group	1
Slices	17
Distance Factor	10 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	180 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3500.0 ms
TE	63.00 ms
Averages	1
Concatenations	1
AutoAlign	---

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	17
Distance Factor	10 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	180 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3500.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Contrast - Common**

TR	3500.0 ms
TE	63.00 ms
MTC	Off
Magn. Preparation	Slice-sel. IR
TI	220 ms
Freeze Suppr. Tissue	Off
Flip Angle Mode	Constant
Flip Angle	135 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Geometry - AutoAlign**

Slice Group	1
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L0.0 P20.0 H0.0
L	0.0 mm
P	20.0 mm
H	0.0 mm
Initial Orientation	Sagittal
Initial Rotation	90.00 deg

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 H0.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	3500.0 ms

**Physio - Signal**

Concatenations	1
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**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	Slice-sel. IR
TI	220 ms
Dark Blood	Off
FOV Read	250 mm
FOV Phase	100.0 %
Phase Resolution	75 %
Motion Correction	None

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tir_rr
Dimension	2D
RF Pulse Type	Low SAR
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	310 Hz/Px
Echo Spacing	9.02 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	11
Echo Trains per Slice	23

**Sequence - Part 2**

Introduction	On
Phase Correction	Off
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	Off
Reduce Motion Sens.	On
Motion Correction	None

**Sequence - Assistant**

SAR Assistant	Flip Angle > TR
Min Flip Angle	130 deg
Max. TR	4300.0 ms
Allowed Delay	30 s

\\USER\Spine\L-Spine\Spine Discitis XA60\T2\_tse\_dixon\_Cor\_drg \*

TA: 1:58 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	15
Distance Factor	5 %
Position	L21.5 P64.8 F32.8 mm
Orientation	Coronal
Phase Encoding Dir.	F >> H
Phase Oversampling	100 %
FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	4000.0 ms
TE	85.00 ms
Averages	1
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	4000.0 ms
TE	85.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Dixon
Fat Saturation	Weak
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	352
Phase Resolution	70 %
Trajectory	Cartesian
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	38
Deep Resolve	On
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Image Based
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	15
Distance Factor	5 %
Position	L21.5 P64.8 F32.8 mm
Orientation	Coronal
Phase Encoding Dir.	F >> H
Phase Oversampling	100 %
FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	4000.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice Group	1
Position	L21.5 P64.8 F32.8 mm
Orientation	Coronal
Phase Encoding Dir.	F >> H
AutoAlign	---
Initial Position	L21.5 P64.8 F32.8
L	21.5 mm
P	64.8 mm
F	32.8 mm



**Geometry - AutoAlign**

Initial Orientation	Coronal
Initial Rotation	92.90 deg

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 F33.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	33 mm
Table Position	F
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm C
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L21.5 P64.8 F32.8 mm
Orientation	Coronal
Rotation	92.90 deg
F >> H	260 mm
R >> L	260 mm
A >> P	48 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	4000.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Dixon
Magn. Preparation	None
Dark Blood	Off
FOV Read	260 mm
FOV Phase	100.0 %
Phase Resolution	70 %
Trajectory	Cartesian

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	279 Hz/Px
Echo Spacing	10.64 ms
Asymmetric Echo	Off
Define	Turbo Factor
Turbo Factor	19
Echo Trains per Slice	14

**Sequence - Part 2**

Introduction	On
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**Sequence - Part 2**

Phase Correction	Off
Red. EC Sensitivity	Off
Reduce Motion Sens.	On

**Sequence - Assistant**

SAR Assistant	Flip Angle
Min Flip Angle	125 deg
Allowed Delay	30 s

\USER\Spine\L-Spine\Spine Discitis XA60\T2\_fs\_tse\_tra\_p3\_drb \*

TA: 1:33 min Coil Selection: Auto Voxel Size: 0.3×0.3×4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Resolution - Common**

FOV Read	200 mm
FOV Phase	78.3 %
Slice Thickness	4.0 mm
Base Resolution	304
Phase Resolution	80 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	33
Deep Resolve	On
Phase Partial Fourier	Off

**Routine**

Slice Group	1
Slices	29
Distance Factor	25 %
Position	L0.0 P30.0 H0.0 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	160 %
FOV Read	200 mm
FOV Phase	78.3 %
Slice Thickness	4.0 mm
TR	3800.0 ms
TE	87.00 ms
Averages	1
Concatenations	2
AutoAlign	---

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	29
Distance Factor	25 %
Position	L0.0 P30.0 H0.0 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	160 %
FOV Read	200 mm
FOV Phase	78.3 %
Slice Thickness	4.0 mm
TR	3800.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

**Contrast - Common**

TR	3800.0 ms
TE	87.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Geometry - AutoAlign**

Slice Group	1
Position	L0.0 P30.0 H0.0 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P30.0 H0.0
L	0.0 mm
P	30.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 H0.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 P30.0 H0.0 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	157 mm
R >> L	200 mm
F >> H	144 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	3800.0 ms

**Physio - Signal**

Concatenations	2
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**Physio - Cardiac**

Fat-Water Contrast	Fat Saturation
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	78.3 %
Phase Resolution	80 %
Motion Correction	None

**Physio - PACE**

Resp. Control	Off
Concatenations	2

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse_rs
Dimension	2D
RF Pulse Type	Low SAR
Gradient Mode	Fast
Flow Compensation	Slice
Bandwidth	201 Hz/Px
Echo Spacing	12.4 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	17
Echo Trains per Slice	11

**Sequence - Part 2**

Introduction	On
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**Sequence - Part 2**

Phase Correction	Off
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	Off
Reduce Motion Sens.	On
Motion Correction	None

**Sequence - Assistant**

SAR Assistant	Flip Angle > TR
Min Flip Angle	130 deg
Max. TR	4300.0 ms
Allowed Delay	30 s

\\USER\Spine\L-Spine\Spine Discitis XA60\T1\_tse\_dixon\_sag\_drg\_pre\_Gd \*

TA: 2:44 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	15
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	100 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	600.0 ms
TE	11.00 ms
Averages	1
Concatenations	2
AutoAlign	---

**Contrast - Common**

TR	600.0 ms
TE	11.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Dixon
Fat Saturation	Weak
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	320
Phase Resolution	80 %
Trajectory	Cartesian
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Deep Resolve	On
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	15
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	100 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

**Geometry - AutoAlign**

Slice Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm

**Geometry - AutoAlign**

Initial Orientation	Sagittal
Initial Rotation	90.00 deg

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 H0.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm C
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Sagittal
Rotation	90.00 deg
F >> H	250 mm
A >> P	250 mm
R >> L	50 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	600.0 ms
Concatenations	2

**Physio - Cardiac**

Fat-Water Contrast	Dixon
Magn. Preparation	None
Dark Blood	Off
FOV Read	250 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Trajectory	Cartesian

**Physio - PACE**

Resp. Control	Off
Concatenations	2

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	279 Hz/Px
Echo Spacing	10.64 ms
Asymmetric Echo	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	67

**Sequence - Part 2**

Introduction	On
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### Sequence - Part 2

Phase Correction	Off
Red. EC Sensitivity	Off
Reduce Motion Sens.	On

### Sequence - Assistant

SAR Assistant	Flip Angle
Min Flip Angle	125 deg
Allowed Delay	30 s



\\USER\Spine\L-Spine\Spine Discitis XA60\Spine resolve DWI \_sag\_p2\_160 \*

TA: 3:21 min Coil Selection: Auto Voxel Size: 0.9×0.9×3.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Resolution - Common**

FOV Phase	40.0 %
Slice Thickness	3.0 mm
Base Resolution	160
Phase Resolution	100 %
Interpolation	On

**Resolution - Acceleration**

Accel. Mode	GRAPPA
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	48
Phase Partial Fourier	Off
Readout Partial Fourier	6/8
Readout Segments	7

**Routine**

Slice Group	1
Slices	9
Distance Factor	5 %
Position	L18.2 P41.8 F171.7 mm
Orientation	S > T0.6 > C-0.3
Phase Encoding Dir.	A >> P
Phase Oversampling	50 %
FOV Read	280 mm
FOV Phase	40.0 %
Slice Thickness	3.0 mm
TR	1850.0 ms
TE 1	46 ms
TE 2	70 ms
Concatenations	1
AutoAlign	---

**Resolution - Filter**

Raw Filter	On
Distortion Correction	2D
Normalize	Prescan
Noise Masking	Off

**Geometry - Common**

Slice Group	1
Slices	9
Distance Factor	5 %
Position	L18.2 P41.8 F171.7 mm
Orientation	S > T0.6 > C-0.3
Phase Encoding Dir.	A >> P
Phase Oversampling	50 %
FOV Read	280 mm
FOV Phase	40.0 %
Slice Thickness	3.0 mm
TR	1850.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Contrast - Common**

TR	1850.0 ms
TE 1	46 ms
TE 2	70 ms
MTC	Off
Magn. Preparation	None
Flip Angle	175 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Contrasts	2
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1

**Resolution - Common**

FOV Read	280 mm
----------	--------

**Geometry - AutoAlign**

Slice Group	1
Position	L18.2 P41.8 F171.7 mm
Orientation	S > T0.6 > C-0.3
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	L18.2 P41.8 F171.7
L	18.2 mm
P	41.8 mm
F	171.7 mm
Initial Orientation	S > T
S > T	0.60
> C	-0.30

**Geometry - AutoAlign**

Initial Rotation	8.70 deg
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**Geometry - Saturation**

Saturation Region	1
Thickness	59.00 mm
Position	R0.4 P148.1 F31.0 mm
Orientation	C > T11.8 > S0.1
Saturation Region	2
Thickness	59.00 mm
Position	R0.4 P148.1 F31.0 mm
Orientation	C > T11.8 > S0.1
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	172 mm
Table Position	F
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Advanced
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L18.2 P41.8 F171.7 mm
Orientation	S > T0.6 > C-0.3
Rotation	8.70 deg
A >> P	112 mm
F >> H	280 mm
R >> L	29 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	1850.0 ms
Concatenations	1

**Diff**

Diffusion Mode	4-Scan Trace
Diff. Directions	4
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	0 s/mm <sup>2</sup>
b-value 2	600 s/mm <sup>2</sup>
Averages 1	1
Averages 2	5
Invert Gray Scale	Off
Diff. Weighted Images	Off
Trace Weighted Images	On
Tensor	Off
FA Maps	Off
ADC Maps	On
Exponential ADC Maps	Off
b-value >=	0 s/mm <sup>2</sup>
ADC Noise Threshold	10
Noise Masking	Off
Calculated Image	Off

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	resolve
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Bandwidth	744 Hz/Px
Echo Spacing	0.34 ms
Optimization	Min. TE
EPI Factor	48

**Sequence - Part 2**

Introduction	On
Reacquisition Mode	Off

**Sequence - Assistant**

SAR Assistant	Off
Optimization	Min. TE

\\USER\SpineL-Spine\Spine Discitis XA60\T1\_tse\_dixon\_sag\_drg Gd \*

TA: 2:44 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	15
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	100 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	600.0 ms
TE	11.00 ms
Averages	1
Concatenations	2
AutoAlign	---

**Contrast - Common**

TR	600.0 ms
TE	11.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Dixon
Fat Saturation	Weak
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	320
Phase Resolution	80 %
Trajectory	Cartesian
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Deep Resolve	On
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	15
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
Phase Oversampling	100 %
FOV Read	250 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

**Geometry - AutoAlign**

Slice Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm

**Geometry - AutoAlign**

Initial Orientation	Sagittal
Initial Rotation	90.00 deg

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 H0.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm C
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Sagittal
Rotation	90.00 deg
F >> H	250 mm
A >> P	250 mm
R >> L	50 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	600.0 ms
Concatenations	2

**Physio - Cardiac**

Fat-Water Contrast	Dixon
Magn. Preparation	None
Dark Blood	Off
FOV Read	250 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Trajectory	Cartesian

**Physio - PACE**

Resp. Control	Off
Concatenations	2

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	279 Hz/Px
Echo Spacing	10.64 ms
Asymmetric Echo	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	67

**Sequence - Part 2**

Introduction	On
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### Sequence - Part 2

Phase Correction	Off
Red. EC Sensitivity	Off
Reduce Motion Sens.	On

### Sequence - Assistant

SAR Assistant	Flip Angle
Min Flip Angle	125 deg
Allowed Delay	30 s

## \\USER\Spine\L-Spine\Spine Discitis XA60\T1\_Dixon\_Tra\_Gd \*

TA: 3:50 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.5 mm<sup>3</sup> Acc:: None Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	29
Distance Factor	15 %
Position	R4.2 P26.5 H30.2 mm
Orientation	T > C-6.4 > S-0.9
Phase Encoding Dir.	A >> P
Phase Oversampling	20 %
FOV Read	180 mm
FOV Phase	100.0 %
Slice Thickness	3.5 mm
TR	700.0 ms
TE	11.00 ms
Averages	1
Concatenations	3
AutoAlign	---

**Contrast - Common**

TR	700.0 ms
TE	11.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Dixon
Fat Saturation	Weak
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	180 mm
FOV Phase	100.0 %
Slice Thickness	3.5 mm
Base Resolution	224
Phase Resolution	80 %
Trajectory	Cartesian
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	None
Deep Resolve	On
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	29
Distance Factor	15 %
Position	R4.2 P26.5 H30.2 mm
Orientation	T > C-6.4 > S-0.9
Phase Encoding Dir.	A >> P
Phase Oversampling	20 %
FOV Read	180 mm
FOV Phase	100.0 %
Slice Thickness	3.5 mm
TR	700.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	3

**Geometry - AutoAlign**

Slice Group	1
Position	R4.2 P26.5 H30.2 mm
Orientation	T > C-6.4 > S-0.9
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	R4.2 P26.5 H30.2
R	4.2 mm
P	26.5 mm
H	30.2 mm
Initial Orientation	T > C
T > C	-6.40
> S	-0.90

**Geometry - AutoAlign**

Initial Rotation	0.00 deg
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**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	102.00 mm
Position	L1.6 A87.5 H40.6 mm
Orientation	C > T5.6 > S1.0
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	30 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	T - C - S
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm C
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	R4.2 P26.5 H30.2 mm
Orientation	T > C-6.4 > S-0.9
Rotation	0.00 deg
A >> P	180 mm
R >> L	180 mm
F >> H	117 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	700.0 ms
Concatenations	3

**Physio - Cardiac**

Fat-Water Contrast	Dixon
Magn. Preparation	None
Dark Blood	Off
FOV Read	180 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Trajectory	Cartesian

**Physio - PACE**

Resp. Control	Off
Concatenations	3

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	245 Hz/Px
Echo Spacing	11.12 ms
Asymmetric Echo	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	54

**Sequence - Part 2**

Introduction	On
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**Sequence - Part 2**

Phase Correction	Off
Red. EC Sensitivity	Off
Reduce Motion Sens.	On

**Sequence - Assistant**

SAR Assistant	Flip Angle > TR
Min Flip Angle	125 deg
Max. TR	770.0 ms
Allowed Delay	30 s



\USER\Spine\L-Spine\Spine Discitis XA60\T1\_fs\_TSE\_Cor\_3mm\_drb\_Gd \*

TA: 2:08 min Coil Selection: Auto Voxel Size: 0.3×0.3×3.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Resolution - Common**

FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	384
Phase Resolution	80 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	24
Deep Resolve	On
Phase Partial Fourier	Off

**Routine**

Slice Group	1
Slices	21
Distance Factor	10 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
Phase Oversampling	180 %
FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	620.0 ms
TE	9.20 ms
Averages	1
Concatenations	2
AutoAlign	---

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	21
Distance Factor	10 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
Phase Oversampling	180 %
FOV Read	260 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	620.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

**Contrast - Common**

TR	620.0 ms
TE	9.20 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	150 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Geometry - AutoAlign**

Slice Group	1
Position	L0.0 P20.0 H0.0 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	L0.0 P20.0 H0.0
L	0.0 mm
P	20.0 mm
H	0.0 mm
Initial Orientation	Coronal
Initial Rotation	0.00 deg

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Geometry - Navigator****Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L0.0 A50.0 H0.0 mm
Orientation	Coronal
Shape	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 P20.0 H0.0 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	260 mm
F >> H	260 mm
A >> P	69 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	620.0 ms

**Physio - Signal**

Concatenations	2
----------------	---

**Physio - Cardiac**

Fat-Water Contrast	Fat Saturation
Magn. Preparation	None
Dark Blood	Off
FOV Read	260 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Motion Correction	None

**Physio - PACE**

Resp. Control	Off
Concatenations	2

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse_rr
Dimension	2D
RF Pulse Type	Low SAR
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	310 Hz/Px
Echo Spacing	9.20 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	3
Echo Trains per Slice	101

**Sequence - Part 2**

Introduction	On
--------------	----

**Sequence - Part 2**

Phase Correction	Off
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	Off
Reduce Motion Sens.	On
Motion Correction	None

**Sequence - Assistant**

SAR Assistant	Flip Angle > TR
Min Flip Angle	130 deg
Max. TR	750.0 ms
Allowed Delay	30 s