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\\Sola_Fit_Bac

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neuro

spine_pedi

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\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\haste_loc_2steps *

TA: 7 sec Coil Selection: Auto Voxel Size: 0.7×0.7×8.0 mm³ Acc:: 4 Rel. SNR: 1.00 | Substep: 1/2**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	On
Auto Close Inline Display	On
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	On
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Contrast - Common

Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Resolution - Common

FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
Base Resolution	320
Phase Resolution	100 %
Interpolation	2.00

Routine

Slice Group	1
Slices	10
Distance Factor	50 %
Position	R3.3 P29.8 F0.9 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Slice Group	2
Slices	7
Distance Factor	50 %
Position	R3.3 P54.1 H4.5 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Phase Oversampling	50 %
FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	428.0 ms
TE	96.00 ms
Averages	1
Concatenations	5

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	4
Reference Lines PE	30
Deep Resolve / ID Gain	On
Phase Partial Fourier	6/8

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	10
Distance Factor	50 %
Position	R3.3 P29.8 F0.9 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
Slice Group	2
Slices	7
Distance Factor	50 %
Position	R3.3 P54.1 H4.5 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	50 %
FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	428.0 ms

Contrast - Common

TR	428.0 ms
TE	96.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Hyperecho
Flip Angle 1	100 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off

Geometry - Common

Multi-Slice Mode	Single Shot
Series	Interl. in B.-h.
Concatenations	5

Geometry - AutoAlign

Slice Group	1
Position	R3.3 P29.8 F0.9 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R3.3 P29.8 F0.9
R	3.3 mm
P	29.8 mm
F	0.9 mm
Initial Orientation	Coronal
Initial Rotation	0.00 deg
Slice Group	2
Position	R3.3 P54.1 H4.5 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	On
Label	
Table Position	2 mm
Table Position	H
Disable Voice Commands	Off
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	haste_loc_comp

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

System - Miscellaneous

Coil Focus	Flat
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System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
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	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	428.0 ms
Concatenations	5

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	450 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Breath-hold
Concatenations	5

Inline - Subtraction

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

Inline - MIP

MIP Sag	Off
MIP Cor	Off

Inline - MIP

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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	haste_loc_comp

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	hR
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	744 Hz/Px
Echo Spacing	3.20 ms
Turbo Factor	320

Sequence - Part 2

Introduction	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle
Min Flip Angle	140 deg
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\haste_loc_2steps *

TA: 8 sec Coil Selection: Auto Voxel Size: 0.7×0.7×8.0 mm³ Acc:: 4 Rel. SNR: 1.00 | Substep: 2/2**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	On
Auto Close Inline Display	On
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	On
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Contrast - Common

Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Resolution - Common

FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
Base Resolution	336
Phase Resolution	90 %
Interpolation	2.00

Routine

Slice Group	1
Slices	10
Distance Factor	50 %
Position	R3.3 P41.8 F402.2 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Slice Group	2
Slices	7
Distance Factor	50 %
Position	R3.3 P55.8 F397.0 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Phase Oversampling	50 %
FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	477.0 ms
TE	96.00 ms
Averages	1
Concatenations	2

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	4
Reference Lines PE	48
Deep Resolve / ID Gain	On
Phase Partial Fourier	6/8

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	10
Distance Factor	50 %
Position	R3.3 P41.8 F402.2 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
Slice Group	2
Slices	7
Distance Factor	50 %
Position	R3.3 P55.8 F397.0 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	50 %
FOV Read	450 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	477.0 ms

Contrast - Common

TR	477.0 ms
TE	96.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Hyperecho
Flip Angle 1	100 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off

Geometry - Common

Multi-Slice Mode	Single Shot
Series	Interl. in B.-h.
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	R3.3 P41.8 F402.2 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R3.3 P57.0 F2.4
R	3.3 mm
P	57.0 mm
F	2.4 mm
Initial Orientation	Coronal
Initial Rotation	0.00 deg
Slice Group	2
Position	R3.3 P55.8 F397.0 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	On
Label	
Table Position	400 mm
Table Position	F
Disable Voice Commands	Off
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	haste_loc_comp

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

System - Miscellaneous

Coil Focus	Flat
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System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
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	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	477.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	450 mm
FOV Phase	100.0 %
Phase Resolution	90 %
Motion Correction	None

Physio - PACE

Resp. Control	Breath-hold
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

Inline - MIP

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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	haste_loc_comp

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	hR
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	572 Hz/Px
Echo Spacing	3.56 ms
Turbo Factor	302

Sequence - Part 2

Introduction	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle
Min Flip Angle	140 deg
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt2_tse_sag_DRB_cc *

TA: 1:32 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
TE	107.00 ms
Averages	1
Concatenations	2

Contrast - Common

TR	2570.0 ms
TE	107.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
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Resolution - Common

FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	50.00 mm
Position	R3.1 A22.0 F31.7 mm
Orientation	C > T-9.3 > S0.2
Shape	Standard
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	24 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	1
Last Step	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 Neck
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Rotation	180.00 deg
A >> P	50 mm
F >> H	283 mm

System - Adjust Volume

R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	2570.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	141.4 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	1
Last Step	Off
Series Description	

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	tseR_rr
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	217 Hz/Px
Echo Spacing	8.92 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	24
Echo Trains per Slice	16

Sequence - Part 2

Introduction	Off
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	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\1_tse_sag_DRB_cc *

TA: 1:17 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
TE	7.20 ms
Averages	1
Concatenations	2

Contrast - Common

TR	400.0 ms
TE	7.20 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
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Resolution - Common

FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	24 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	2
Last Step	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 Neck
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L1.8 P50.7 F23.6 mm
Orientation	S > T1.1 > C-0.3
Rotation	180.00 deg
A >> P	50 mm
F >> H	282 mm
R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
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System - Tx/Rx

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

Physio - Signal

1st Signal/Mode	None
TR	400.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	140.6 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	2
Last Step	Off
Series Description	

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	tse
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Sequence - Part 1

Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	230 Hz/Px
Echo Spacing	7.24 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	90

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt2_tse_sag_DRB_th *

TA: 1:32 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
TE	107.00 ms
Averages	1
Concatenations	2

Contrast - Common

TR	2570.0 ms
TE	107.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	50.00 mm
Position	R2.8 A4.5 F241.2 mm
Orientation	C > T2.9 > S-0.2
Shape	Standard
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	233 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	1
Last Step	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
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Rotation	180.00 deg
A >> P	200 mm
F >> H	283 mm

System - Adjust Volume

R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	2570.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	141.4 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	1
Last Step	Off
Series Description	

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	tseR_rr
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	217 Hz/Px
Echo Spacing	8.92 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	24
Echo Trains per Slice	16

Sequence - Part 2

Introduction	Off
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	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt1_tse_sag_DRB_th *

TA: 1:17 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
TE	7.20 ms
Averages	1
Concatenations	2

Contrast - Common

TR	400.0 ms
TE	7.20 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	233 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	2
Last Step	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
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L4.1 P68.2 F233.1 mm
Orientation	S > T-1.6 > C-0.3
Rotation	180.00 deg
A >> P	200 mm
F >> H	282 mm
R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
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System - Tx/Rx

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

Physio - Signal

1st Signal/Mode	None
TR	400.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	140.6 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	2
Last Step	Off
Series Description	

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	tse
---------------	-----

Sequence - Part 1

Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	230 Hz/Px
Echo Spacing	7.24 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	90

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt2_tse_sag_DRB_Is *

TA: 1:32 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
TE	107.00 ms
Averages	1
Concatenations	2

Contrast - Common

TR	2570.0 ms
TE	107.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	141.4 %
Slice Thickness	3.0 mm
TR	2570.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	50.00 mm
Position	L8.2 A15.7 F468.6 mm
Orientation	C > T2.9 > S-0.1
Shape	Standard
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	456 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	1
Last Step	On

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
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Rotation	180.00 deg
A >> P	200 mm
F >> H	283 mm

System - Adjust Volume

R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	2570.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	141.4 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	1
Last Step	On
Series Description	

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	tseR_rr
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	217 Hz/Px
Echo Spacing	8.92 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	24
Echo Trains per Slice	16

Sequence - Part 2

Introduction	Off
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	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt1_tse_sag_DRB_Is *

TA: 1:17 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
TE	7.20 ms
Averages	1
Concatenations	2

Contrast - Common

TR	400.0 ms
TE	7.20 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	3
Reference Lines PE	32
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	200 mm
FOV Phase	140.6 %
Slice Thickness	3.0 mm
TR	400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	456 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	2
Last Step	On

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
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L5.8 P68.2 F455.8 mm
Orientation	S > T0.8 > C-0.3
Rotation	180.00 deg
A >> P	200 mm
F >> H	282 mm
R >> L	63 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
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System - Tx/Rx

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

Physio - Signal

1st Signal/Mode	None
TR	400.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	140.6 %
Phase Resolution	100 %
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	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Composing Group	2
Last Step	On
Series Description	

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	tse
---------------	-----

Sequence - Part 1

Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	230 Hz/Px
Echo Spacing	7.24 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	90

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\lt2_space_sag_iso_DRB_Is *

TA: 3:37 min Coil Selection: Auto Voxel Size: 0.4×0.4×0.4 mm³ Acc:: 4 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slab Group	1
Slabs	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
TE	127.00 ms
Averages	1.4
Concatenations	1

Contrast - Common

TR	1100.0 ms
TE	127.00 ms
MTC Mode	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle 1	130 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
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Contrast - Dynamic

Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
Base Resolution	288
Phase Resolution	100 %
Slice Resolution	50 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	CAIPIRINHA
Total Factor	4
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	2
Reference Lines 3D	24
Reordering Shift 3D	1
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Elliptical Scanning	On

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm
F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L35.9 A20.2 F108.4 mm
Orientation	C > T1.8 > S0.8
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	455 mm
Table Position	F
Inline Composing	On
Normalize	Off
Save non-normalized	On
Composing Function	Spine
Series Description	
Composing Group	1
Last Step	On

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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Rotation	180.00 deg
A >> P	230 mm
F >> H	282 mm
R >> L	58 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

Physio - Signal

1st Signal/Mode	None
Trigger Delay	0 ms
TR	1100.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	122.2 %
Phase Resolution	100 %

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	On
Normalize	Off
Save non-normalized	On

Inline - Composing

Composing Function	Spine
Composing Group	1
Last Step	On
Series Description	

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	spcR
Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	560 Hz/Px
Echo Spacing	3.96 ms
Turbo Factor	80
Echo Train Duration	325 ms

Sequence - Part 2

Introduction	Off
Incr. Gradient Spoiling	Off

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedilt2_tse_tra_DRB *

TA: 1:40 min Coil Selection: Auto Voxel Size: 0.3x0.3x4.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	3rd Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	30
Distance Factor	40 %
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	3140.0 ms
TE	95.00 ms
Averages	1
Concatenations	2

Contrast - Common

TR	3140.0 ms
TE	95.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
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Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	336
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	29
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	30
Distance Factor	40 %
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	3140.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R4.6 P78.5 F380.9
R	4.6 mm
P	78.5 mm

Geometry - AutoAlign

F	380.9 mm
Initial Orientation	T > S
T > S	-3.30
> C	0.90
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	381 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	Tune up
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	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
-----------------	------

Physio - Signal

TR	3140.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	100 %
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	tseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	201 Hz/Px
Echo Spacing	9.54 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	20
Echo Trains per Slice	15

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	5500.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_ped\lt1_tse_tra_DRB *

TA: 1:29 min Coil Selection: Auto Voxel Size: 0.3x0.3x4.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	30
Distance Factor	40 %
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	485.0 ms
TE	8.10 ms
Averages	1
Concatenations	3

Contrast - Common

TR	485.0 ms
TE	8.10 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	138 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
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Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	336
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	29
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	30
Distance Factor	40 %
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	485.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice Group	1
Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R4.6 P78.5 F380.9
R	4.6 mm
P	78.5 mm

Geometry - AutoAlign

F	380.9 mm
Initial Orientation	T > S
T > S	-3.30
> C	0.90
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	381 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R4.6 P78.5 F380.9 mm
Orientation	T > S-3.3 > C0.9
Rotation	90.00 deg
R >> L	200 mm
A >> P	200 mm
F >> H	167 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
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Physio - Signal

TR	485.0 ms
Concatenations	3

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	3

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
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	207 Hz/Px
Echo Spacing	8.12 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	5
Echo Trains per Slice	60

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\haste_loc_cc *

TA: 11 sec Coil Selection: Auto Voxel Size: 0.6x0.6x8.0 mm³ Acc:: 4 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	On
Auto Close Inline Display	On
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	On
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Contrast - Common

Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Resolution - Common

FOV Read	350 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
Base Resolution	288
Phase Resolution	100 %
Interpolation	2.00

Routine

Slice Group	1
Slices	9
Distance Factor	10 %
Position	L10.3 P60.6 F130.2 mm
Orientation	C > T-5.5
Phase Encoding Dir.	R >> L
AutoAlign	---
Slice Group	2
Slices	7
Distance Factor	10 %
Position	L10.3 P85.0 F124.8 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Phase Oversampling	50 %
FOV Read	350 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	700.0 ms
TE	96.00 ms
Averages	1
Concatenations	2

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	4
Reference Lines PE	30
Deep Resolve / ID Gain	On
Phase Partial Fourier	6/8

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	9
Distance Factor	10 %
Position	L10.3 P60.6 F130.2 mm
Orientation	C > T-5.5
Phase Encoding Dir.	R >> L
Slice Group	2
Slices	7
Distance Factor	10 %
Position	L10.3 P85.0 F124.8 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	50 %
FOV Read	350 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	700.0 ms

Contrast - Common

TR	700.0 ms
TE	96.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Hyperecho
Flip Angle 1	100 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off

Geometry - Common

Multi-Slice Mode	Single Shot
Series	Interl. in B.-h.
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L10.3 P60.6 F130.2 mm
Orientation	C > T-5.5
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R3.3 P29.8 F0.9
R	3.3 mm
P	29.8 mm
F	0.9 mm
Initial Orientation	C > T
C > T	-5.50
> S	0.00
Initial Rotation	0.00 deg
Slice Group	2
Position	L10.3 P85.0 F124.8 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	129 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
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System - Adjustments

B0 Shim	Tune up
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	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	700.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	350 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Breath-hold
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

Inline - MIP

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	hR
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	755 Hz/Px
Echo Spacing	3.30 ms
Turbo Factor	288

Sequence - Part 2

Introduction	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle
Min Flip Angle	140 deg
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\t2_tse_sag_2mm *

TA: 2:45 min Coil Selection: Auto Voxel Size: 0.4×0.4×2.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	150 %
FOV Read	150 mm
FOV Phase	193.3 %
Slice Thickness	2.0 mm
TR	2660.0 ms
TE	103.00 ms
Averages	2
Concatenations	2

Contrast - Common

TR	2660.0 ms
TE	103.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	150 mm
FOV Phase	193.3 %
Slice Thickness	2.0 mm
Base Resolution	208
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	38
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

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	0 %
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
Phase Oversampling	150 %
FOV Read	150 mm
FOV Phase	193.3 %
Slice Thickness	2.0 mm
TR	2660.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	163 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 Neck
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Rotation	180.00 deg
A >> P	38 mm
F >> H	290 mm
R >> L	42 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
-----------------	------

Physio - Signal

TR	2660.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	150 mm
FOV Phase	193.3 %
Phase Resolution	100 %
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
-----------	------

Sequence - Part 1

Sequence Name	tseR_rr
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	Read
Bandwidth	217 Hz/Px
Echo Spacing	9.36 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	24
Echo Trains per Slice	15

Sequence - Part 2

Introduction	Off
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	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\t1_tse_sag_2mm *

TA: 2:54 min Coil Selection: Auto Voxel Size: 0.4×0.4×2.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	On
	1st Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	21
Distance Factor	0 %
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
AutoAlign	---
Phase Oversampling	200 %
FOV Read	150 mm
FOV Phase	194.8 %
Slice Thickness	2.0 mm
TR	441.0 ms
TE	8.30 ms
Averages	2
Concatenations	2

Contrast - Common

TR	441.0 ms
TE	8.30 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	120 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
-----------------	------------------

Resolution - Common

FOV Read	150 mm
FOV Phase	194.8 %
Slice Thickness	2.0 mm
Base Resolution	192
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

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

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	0 %
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
Phase Oversampling	200 %
FOV Read	150 mm
FOV Phase	194.8 %
Slice Thickness	2.0 mm
TR	441.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm

Geometry - AutoAlign

F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	163 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 Neck
CoilShim	Auto
Adjustment Tolerance	None
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R0.6 P60.8 F162.9 mm
Orientation	S > T0.7 > C-0.2
Rotation	180.00 deg
A >> P	38 mm
F >> H	293 mm
R >> L	42 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
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Physio - Signal

TR	441.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	150 mm
FOV Phase	194.8 %
Phase Resolution	100 %
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
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	226 Hz/Px
Echo Spacing	8.30 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	4
Echo Trains per Slice	98

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedilt1_tse_tra_3mm *

TA: 2:56 min Coil Selection: Auto Voxel Size: 0.3×0.3×3.0 mm³ Acc:: 3 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	30
Distance Factor	20 %
Position	R1.9 P65.9 F263.1 mm
Orientation	T > C0.9 > S-0.7
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	485.0 ms
TE	8.10 ms
Averages	2
Concatenations	3

Contrast - Common

TR	485.0 ms
TE	8.10 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	138 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Contrast - Dynamic

Multiple Series	Each Measurement
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Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	336
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	29
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	30
Distance Factor	20 %
Position	R1.9 P65.9 F263.1 mm
Orientation	T > C0.9 > S-0.7
Phase Encoding Dir.	R >> L
Phase Oversampling	150 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	485.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice Group	1
Position	R1.9 P65.9 F263.1 mm
Orientation	T > C0.9 > S-0.7
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R4.6 P78.5 F380.9
R	4.6 mm
P	78.5 mm

Geometry - AutoAlign

F	380.9 mm
Initial Orientation	T > S
T > S	-3.30
> C	0.90
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	263 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R1.9 P65.9 F263.1 mm
Orientation	T > C0.9 > S-0.7
Rotation	90.00 deg
R >> L	200 mm
A >> P	200 mm
F >> H	108 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
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Physio - Signal

TR	485.0 ms
Concatenations	3

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	3

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
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	207 Hz/Px
Echo Spacing	8.12 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	5
Echo Trains per Slice	60

Sequence - Part 2

Introduction	Off
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	TR
Max. TR	650.0 ms
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro spine_ped\lt2_space_sag_iso_DRB_cc *

TA: 3:37 min Coil Selection: Auto Voxel Size: 0.4x0.4x0.4 mm³ Acc:: 4 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slab Group	1
Slabs	1
Position	L11.5 P45.9 F22.8 mm
Orientation	S > T-0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
TE	127.00 ms
Averages	1.4
Concatenations	1

Contrast - Common

TR	1100.0 ms
TE	127.00 ms
MTC Mode	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle 1	130 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
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Contrast - Dynamic

Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
Base Resolution	288
Phase Resolution	100 %
Slice Resolution	50 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	CAIPIRINHA
Total Factor	4
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	2
Reference Lines 3D	24
Reordering Shift 3D	1
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Elliptical Scanning	On

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Position	L11.5 P45.9 F22.8 mm
Orientation	S > T-0.2 > C-0.1
Phase Encoding Dir.	H >> F
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	L11.5 P45.9 F22.8 mm
Orientation	S > T-0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm
F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L8.7 A95.4 H339.0 mm
Orientation	C > T-9.8 > S0.7
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	23 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L11.5 P45.9 F22.8 mm
Orientation	S > T-0.2 > C-0.1
Rotation	180.00 deg
A >> P	230 mm

System - Adjust Volume

F >> H	282 mm
R >> L	58 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

Physio - Signal

1st Signal/Mode	None
Trigger Delay	0 ms
TR	1100.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	122.2 %
Phase Resolution	100 %

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	spcR
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Sequence - Part 1

Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	560 Hz/Px
Echo Spacing	3.96 ms
Turbo Factor	80
Echo Train Duration	325 ms

Sequence - Part 2

Introduction	Off
Incr. Gradient Spoiling	Off

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro spine_pedilt2_space_sag_iso_DRB_th *

TA: 3:37 min Coil Selection: Auto Voxel Size: 0.4x0.4x0.4 mm³ Acc:: 4 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slab Group	1
Slabs	1
Position	L23.6 P52.3 F232.0 mm
Orientation	S > T-2.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
TE	127.00 ms
Averages	1.4
Concatenations	1

Contrast - Common

TR	1100.0 ms
TE	127.00 ms
MTC Mode	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle 1	130 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
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Contrast - Dynamic

Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
Base Resolution	288
Phase Resolution	100 %
Slice Resolution	50 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	CAIPIRINHA
Total Factor	4
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	2
Reference Lines 3D	24
Reordering Shift 3D	1
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Elliptical Scanning	On

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Position	L23.6 P52.3 F232.0 mm
Orientation	S > T-2.2 > C-0.1
Phase Encoding Dir.	H >> F
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	L23.6 P52.3 F232.0 mm
Orientation	S > T-2.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm
F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L18.1 A20.2 H114.2 mm
Orientation	C > T1.9 > S0.7
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	232 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L23.6 P52.3 F232.0 mm
Orientation	S > T-2.2 > C-0.1
Rotation	180.00 deg
A >> P	230 mm

System - Adjust Volume

F >> H	282 mm
R >> L	58 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

Physio - Signal

1st Signal/Mode	None
Trigger Delay	0 ms
TR	1100.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	122.2 %
Phase Resolution	100 %

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	spcR
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Sequence - Part 1

Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	560 Hz/Px
Echo Spacing	3.96 ms
Turbo Factor	80
Echo Train Duration	325 ms

Sequence - Part 2

Introduction	Off
Incr. Gradient Spoiling	Off

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\t2_space_sag_iso_DRB_Is *

TA: 3:37 min Coil Selection: Auto Voxel Size: 0.4×0.4×0.4 mm³ Acc:: 4 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	On
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slab Group	1
Slabs	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
TE	127.00 ms
Averages	1.4
Concatenations	1

Contrast - Common

TR	1100.0 ms
TE	127.00 ms
MTC Mode	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle 1	130 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
Base Resolution	288
Phase Resolution	100 %
Slice Resolution	50 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	CAIPIRINHA
Total Factor	4
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	2
Reference Lines 3D	24
Reordering Shift 3D	1
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Elliptical Scanning	On

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
Slices per Slab	144
Phase Oversampling	75 %
Slice Oversampling	22.2 %
FOV Read	230 mm
FOV Phase	122.2 %
Slice Thickness	0.40 mm
TR	1100.0 ms
Concatenations	1

Contrast - Dynamic

Dynamic Mode	Standard
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Geometry - AutoAlign

Slab Group	1
Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Phase Encoding Dir.	H >> F
AutoAlign	---
Initial Position	L17.2 P63.9 F103.2
L	17.2 mm
P	63.9 mm
F	103.2 mm
Initial Orientation	S > T
S > T	-2.80
> C	0.20
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Saturation Region	1
Thickness	80.00 mm
Position	L35.9 A20.2 F108.4 mm
Orientation	C > T1.8 > S0.8
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	455 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L27.2 P52.3 F454.5 mm
Orientation	S > T0.2 > C-0.1
Rotation	180.00 deg
A >> P	230 mm

System - Adjust Volume

F >> H	282 mm
R >> L	58 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

Physio - Signal

1st Signal/Mode	None
Trigger Delay	0 ms
TR	1100.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	122.2 %
Phase Resolution	100 %

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	spcR
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Sequence - Part 1

Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	560 Hz/Px
Echo Spacing	3.96 ms
Turbo Factor	80
Echo Train Duration	325 ms

Sequence - Part 2

Introduction	Off
Incr. Gradient Spoiling	Off

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s

\\Sola_Fit_Bac\EXPORT\neuro\spine_pedi\t1_vibe_dixon_DRB_tra_0.8 *

TA: 3:12 min Coil Selection: Auto Voxel Size: 0.4×0.4×0.4 mm³ Acc:: 4 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	On
Auto Close Inline Display	On
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
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Contrast - Dynamic

Multiple Series	Off
3D Reordering	Min. TTC
Reordering	Linear
Time to Center	3.5 s
Burn Time to Center	Off

Resolution - Common

FOV Read	200 mm
FOV Phase	99.1 %
Slice Thickness	0.4 mm
Base Resolution	224
Phase Resolution	100 %
Slice Resolution	50 %
Trajectory	Cartesian
Interpolation	On

Routine

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	R4.6 P42.9 F282.0 mm
Orientation	T > C-19.8 > S1.4
Phase Encoding Dir.	A >> P
AutoAlign	---
Slices per Slab	308
Phase Oversampling	20 %
Slice Oversampling	35.1 %
FOV Read	200 mm
FOV Phase	99.1 %
Slice Thickness	0.4 mm
TR	6.81 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	2
Concatenations	1

Resolution - Acceleration

Acceleration Mode	CAIPIRINHA
CAIPIRINHA Mode	Free
Total Factor	4
Reference Scans	GRE/Separate
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	2
Reference Lines 3D	24
Reordering Shift 3D	1
Deep Resolve / ID Gain	On
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Strong
Elliptical Scanning	Off

Resolution - Filter

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

Contrast - Common

TR	6.81 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip Angle	10 deg
Fat-Water Contrast	Dixon
Lines per Shot	208
Contrasts	2
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Temporal Interpolation	1
Measurements	1

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	R4.6 P42.9 F282.0 mm
Orientation	T > C-19.8 > S1.4
Phase Encoding Dir.	A >> P
Slices per Slab	308
Phase Oversampling	20 %

Geometry - Common

Slice Oversampling	35.1 %
FOV Read	200 mm
FOV Phase	99.1 %
Slice Thickness	0.4 mm
TR	6.81 ms
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	R4.6 P42.9 F282.0 mm
Orientation	T > C-19.8 > S1.4
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	R4.6 P78.5 F380.9
R	4.6 mm
P	78.5 mm
F	380.9 mm
Initial Orientation	T > S
T > S	-3.30
> C	0.90
Initial Rotation	0.00 deg

Geometry - Saturation

Saturation Region	1
Thickness	50.00 mm
Position	L1.8 A55.6 F305.3 mm
Orientation	C > T8.2 > S-1.8
Special Saturation	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	282 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
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never

System - Adjustments

Assume Silicone	Off
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System - Adjust Volume

Position	R4.6 P42.9 F282.0 mm
Orientation	T > C-19.8 > S1.4
Rotation	0.00 deg
A >> P	199 mm
R >> L	200 mm
F >> H	124 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.658376 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - PACE

Resp. Control	Breath-hold
Concatenations	1

Inline - Liver

Liver Registration	Off
Save Original Images	On
Fat Fraction (2pt)	Off

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
Measurements	1

Inline - Composing

Inline Composing	Off
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Inline - MapIt

MapIt	None
Flip Angle	10 deg
Measurements	1
Contrasts	2
TE 1	2.39 ms
TE 2	4.77 ms
TR	6.81 ms
Save Original Images	On

Inline - Open Recon

Algorithm	None
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Sequence - Part 1

Sequence Name	fl
Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Readout Mode	Bipolar
Gradient Mode	Fast
Reordering	Linear
Bandwidth	600 Hz/Px
Asymmetric Echo	Strong
Optimization	Opp/In

Sequence - Part 2

Introduction	Off
RF Spoiling	On
Incr. Gradient Spoiling	On
Breast Application	Off
Phase Enc. Order	Automatic

Sequence - Assistant

SAR Assistant	Off
Optimization	Opp/In