Table of contents

\\USER

Development

Dr. Cohen-Adad

acdc_7t_spine_074p

localizer_SpinozaV6 tfl_sag_2p5mmISO_largeFOV tfl_sag_2p5mmISO_largeFOV_RefVolOpt DREAM2D_sag_2p5mmISO_largeFOV DREAM2D_sag_2p5mmISO_mediumFOV DREAM2D_sag_2p5mmISO_mediumFOV_RefVol_0p66 DREAM2D_sag_2p5mmISO_mediumFOV_RefVol_Limit coilQA_sag_FH_1p5x1p5x2mm_largeFOV coilQA_sag_FH_1p5x1p5x2mm_smallFOV coilQA_tra_RL_0p5x0p5x5mm gre_2mmISO_multichannel_uncomb tfl_rfmap_2x2x3 spin_6_gre_2mmISO coilQA_sag_FH_1p5x1p5x2mm_largeFOV_RFshim_CVred coilQA_sag_FH_1p5x1p5x2mm_largeFOV_RFshim_CVred DREAM2D_sag_2p5mmISO_largeFOV_RFshim_CVred tfl_rfmap_2x2x3_RFshim_CVred

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\localizer_SpinozaV6

TA: 0:18 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

Prio recon	On
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

O.I.	,
Slice group	1
Slices	3
Dist. factor	50 %
Position	L0.0 A14.6 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	3
Dist. factor	50 %
Position	L0.0 A44.7 H0.0 mm
Orientation	Coronal
Phase enc. dir.	F >> H
Slice group	3
Slices	3
Dist. factor	50 %
Position	R11.0 A7.5 H0.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	25 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	7.7 ms
TE	3.67 ms
Averages	1
Concatenations	9
Filter	Distortion Corr.(2D), Elliptical filter
Coil elements	1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	7.7 ms
TE	3.67 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

Contrast - Dynamic

Multiple series

Resolution - Common			
FoV read	280 mm		
FoV phase	100.0 %		
Slice thickness	5.0 mm		
Base resolution	256		
Phase resolution	75 %		
Phase partial Fourier	Off		
Interpolation	On		

Each measurement

Resolution - iPAT

PAT mode	Nlana
IPAT mode	None
1 / 11 111000	110110

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

		Slice group	1
		Slices	3
		Dist. factor	50 %
		Position	L0.0 A14.6 H0.0 mm
		Orientation	Sagittal
		Phase enc. dir.	A >> P
		Slice group	2
		Slices	3
		Dist. factor	50 %
		Position	L0.0 A44.7 H0.0 mm
		Orientation	Coronal
		Phase enc. dir.	F >> H
		Slice group	3
		Slices	3
1H	;1H	;1HDilst;1falctbl;1H;1H;1H;1H;1H;1H;1H	50 %
		Position	R11.0 A7.5 H0.0 mm
		Orientation	Transversal
		Phase enc. dir.	A >> P
		FoV read	280 mm
		FoV phase	100.0 %
		Slice thickness	5.0 mm
		TR	7.7 ms
		Multi-slice mode	Sequential
		Series	Interleaved
		Concatenations	9

Geometry - AutoAlign

Slice group	1
Position	L0.0 A14.6 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2

Geometry - AutoAlign

<u></u>	
Position	L0.0 A44.7 H0.0 mm
Orientation	Coronal
Phase enc. dir.	F >> H
Slice group	3
Position	R11.0 A7.5 H0.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	L0.0 A14.6 H0.0
L	0.0 mm
A	14.6 mm
Н	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	3
Slice thickness	5.0 mm
Dist. factor	50 %
FoV read	280 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	REF
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.0 A29.8 F11.0 mm
! Orientation	Transversal
! Rotation	0.00 deg
! A >> P	175 mm
! R >> L	201 mm

System - Adjust Volume

! F >> H	259 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	7.7 ms
Concatenations	9
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	280 mm
FoV phase	100.0 %
Phase resolution	75 %

Physio - PACE

Resp. control	Off
Concatenations	9

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off	
_	0"	
MIP-Cor	Off	
MIP-Tra	Off	
	-	
MIP-Time	Off	
Save original images	On	

Inline - Soft Tissue

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	20 deg
Measurements	1
Contrasts	1
TR	7.7 ms
TE	3.67 ms

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	Active
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\tfl_sag_2p5mmlSO_largeFOV

TA: 1:10 PM: FIX Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	28
Dist. factor	100 %
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
TE	2.31 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

Contrast - Common

TR	34420.0 ms
TE	2.31 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
Base resolution	144
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None	
Resolution - Filter Ima	ge	
Image Filter	Off	
Distortion Corr.	On	
Mode	3D	
Unfiltered images	On	
Prescan Normalize	Off	
Normalize	Off	
B1 filter	Off	

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	28
Dist. factor	100 %
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

:1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;

Slice group	1
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	L0.0 A46.4 H0.0
L	0.0 mm
A	46.4 mm
Н	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.3 A46.4 H0.0 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	208 mm
F >> H	340 mm
R >> L	140 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off	
Distortion Corr.	On	
Mode	3D	
Unfiltered images	On	

Sequence - Part 1

Introduction	Off
iiii oaaotioii	OII

Sequence - Part 1

Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	5.1 ms
Bandwidth	400 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	88

Mode	Off	

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\tfl_sag_2p5mmlSO_largeFOV_RefVolOp t

TA: 1:10 PM: FIX Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Clies and un	
Slice group	1
Slices	28
Dist. factor	100 %
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
TE	2.31 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	34420.0 ms
TE	2.31 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
Base resolution	144
Phase resolution	100 %
Phase partial Fourier	Off

Resolution - Common

	Interpolation	Off
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Resolution - iPAT

|--|

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	28
Dist. factor	100 %
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
H; M H!ÿiऋ¦iƙA;mq,qq,1H;1H;1H;1H;1H;1H	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L0.0 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R2.5 A46.4 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	L0.0 A46.4 H0.0
L	0.0 mm
A	46.4 mm
Н	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off	

Geometry - Tim Planning Suite

Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.3 A46.4 H0.0 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	208 mm
F >> H	340 mm
R >> L	140 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	On

Inline - Composing

1	Marile.	0D
	Mode	3D
	Unfiltered images	On

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	5.1 ms
Bandwidth	400 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	88

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\DREAM2D_sag_2p5mmISO_largeFOV

TA: 1:08 PM: FIX Voxel size: 4.1×4.1×2.5 mmPAT: Off Rel. SNR: 1.00 : 727f999

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
FoV read	384 mm
FoV phase	46.8 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.19 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;

Contrast - Common

TR	6000 ms
TR TE 1	2.04 ms
TE 2	3.19 ms
Flip angle 1	25 deg
Flip angle 1 Flip angle 2	6 deg

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	384 mm	
FoV phase	46.8 %	
Slice thickness	2.5 mm	
Base resolution	94	
Phase resolution	100 %	
Phase partial Fourier	Off	
Interpolation	Off	

Resolution - iPAT

Resolution - Filter Image

Image Filter	Off	
Distortion Corr.	On	

Resolution - Filter Image

Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	46.8 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
	Orientation	Sagittal
_	Phase enc. dir. ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H	A >> P
	AutoAlign	
	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
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System - Adjustments

B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.7 H3.7 mm
! Orientation	T > S0.1
! Rotation	0.00 deg
! A >> P	187 mm
! R >> L	33 mm
! F >> H	381 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Sequence - Part 1

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Sequential
Bandwidth	920 Hz/Px

Sequence - Part 2

Echo train duration	215 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	44

Sequence - Special

Preparation scans	2
Preparation loops	0
Sample T1	2000 ms
RF-Duration	800 us
Prep RF-Duration	400 us
Time-BW-Product	3.2
Timing Scheme	STE*
Mixing Time	1150 us
Prep pTX Scheme	Disabled
FFT Scale	200
Calculate FlipMap	On
HDR DICOMs	Off
Scale risetime	1.20

Mode	Off	

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\DREAM2D_sag_2p5mmlSO_mediumFO \\V

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00: 727f999

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1	
Slices	11	
Dist. factor	0 %	
Position	R4.6 A27.7 H0.9 mm	
Orientation	Sagittal	
Phase enc. dir.	A >> P	
AutoAlign		
FoV read	200 mm	
FoV phase	100.0 %	
Slice thickness	2.5 mm	
TR	6000 ms	
TE 1	2.04 ms	
TE 2	3.10 ms	
Averages	1	
Concatenations	11	
Filter	Distortion Corr.(3D)	
Coil elements	1H;1H;1H;1H;1H;1H;1H;1	H;1F

Contrast - Common

TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Flip angle 1	25 deg
Flip angle 2	6 deg

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	80
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
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Resolution - Filter Image

Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

Slice group	1
Position	R4.6 A27.7 H0.9 mm
Orientation ;1H:1H;1H;1H;1H;1H;1H;1H;1H;1H Phase enc. dir.	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R4.6 A27.7 H0.9
R	4.6 mm
Α	27.7 mm
Н	0.9 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.7 H3.7 mm
! Orientation	T > S0.1
! Rotation	0.00 deg
! A >> P	187 mm
! R >> L	33 mm
! F >> H	191 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Sequence - Part 1

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Sequential
Bandwidth	1010 Hz/Px

Sequence - Part 2

Echo train duration	386 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	80

Sequence - Special

Preparation scans	2
Preparation loops	0
Sample T1	2000 ms
RF-Duration	800 us
Prep RF-Duration	400 us
Time-BW-Product	3.2
Timing Scheme	STE*
Mixing Time	1060 us
Prep pTX Scheme	Disabled
FFT Scale	200
Calculate FlipMap	On
HDR DICOMs	Off
Scale risetime	1.20

Mode	Off	
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TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 727f999

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1	
Slices	11	
Dist. factor	0 %	
Position	R4.6 A27.7 H0.9 mm	
Orientation	Sagittal	
Phase enc. dir.	A >> P	
AutoAlign		
FoV read	200 mm	
FoV phase	100.0 %	
Slice thickness	2.5 mm	
TR	6000 ms	
TE 1	2.04 ms	
TE 2	3.10 ms	
Averages	1	
Concatenations	11	
Filter	Distortion Corr.(3D)	
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H	H;1ŀ

Contrast - Common

TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Flip angle 1	25 deg
Flip angle 2	6 deg

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	80
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None	

Resolution - Filter Image

Image Filter	Off
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Resolution - Filter Image

Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
Ц	Orientation ;1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1	Sagittal
'	Phase enc. dir.	A >> P
	AutoAlign	
	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.7 H3.7 mm
! Orientation	T > S0.1
! Rotation	0.00 deg
! A >> P	187 mm
! R >> L	33 mm
! F >> H	191 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	310.000 V

Sequence - Part 1

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Sequential
Bandwidth	1010 Hz/Px

Sequence - Part 2

Echo train duration	386 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	80

Sequence - Special

Preparation scans	2
Preparation loops	0
Sample T1	2000 ms
RF-Duration	800 us
Prep RF-Duration	400 us
Time-BW-Product	3.2
Timing Scheme	STE*
Mixing Time	1060 us
Prep pTX Scheme	Disabled
FFT Scale	200
Calculate FlipMap	On
HDR DICOMs	Off
Scale risetime	1.20

Mode Off

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00: 727f999

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1	
Slices	11	
Dist. factor	0 %	
Position	R4.6 A27.7 H0.9 mm	
Orientation	Sagittal	
Phase enc. dir.	A >> P	
AutoAlign		
FoV read	200 mm	
FoV phase	100.0 %	
Slice thickness	2.5 mm	
TR	6000 ms	
TE 1	2.04 ms	
TE 2	3.10 ms	
Averages	1	
Concatenations	11	
Filter	Distortion Corr.(3D)	
Coil elements	1H;1H;1H;1H;1H;1H;1H;1	H;1F

Contrast - Common

TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Flip angle 1	25 deg
Flip angle 2	6 deg

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	80
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
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Resolution - Filter Image

Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
J	Orientation ;1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1	Sagittal
	Phase enc. dir.	A >> P
	AutoAlign	
	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.7 H3.7 mm
! Orientation	T > S0.1
! Rotation	0.00 deg
! A >> P	187 mm
! R >> L	33 mm
! F >> H	191 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	600.000 V

Sequence - Part 1

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Sequential
Bandwidth	1010 Hz/Px

Sequence - Part 2

Echo train duration	386 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	80

Sequence - Special

Preparation scans	2
Preparation loops	0
Sample T1	2000 ms
RF-Duration	800 us
Prep RF-Duration	400 us
Time-BW-Product	3.2
Timing Scheme	STE*
Mixing Time	1060 us
Prep pTX Scheme	Disabled
FFT Scale	200
Calculate FlipMap	On
HDR DICOMs	Off
Scale risetime	1.20

Mode	Off
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\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\coilQA_sag_FH_1p5x1p5x2mm_largeFO V

TA: 3:20 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	30.0 ms
TE	6.0 ms
TD	0 ms
MTC	Off
Flip angle Fat suppr. Water suppr.	12 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm	
FoV phase	100.0 %	
Slice thickness	2.0 mm	
Base resolution	256	
Phase resolution	100 %	
Phase partial Fourier	Off	
Interpolation	Off	

Resolution - Filter Image

	0"	
limada Filtar	Off	
Image Filter	OII	

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

Geometry - AutoAlign

ı			
		Slice group	1
		Position	R4.6 A27.7 H0.9 mm
		Orientation	Sagittal
ı		Phase enc. dir.	H >> F
1	H;1F	AutoAlign ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H Initial Position	
1	11,11	Initial Position	R4.6 A27.7 H0.9
		R	4.6 mm
1	1	A	27.7 mm
		Н	0.9 mm
ı		Initial Rotation	90.00 deg
		Initial Orientation	Sagittal
ı		•	

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Cystem imisochaneca	.5
Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.4 F4.0 mm
! Orientation	T > C11.5 > S0.1
! Rotation	0.00 deg
! A >> P	68 mm
! R >> L	62 mm
! F >> H	246 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Mode	Off	

TA: 1:40 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	30.0 ms
TE	6.0 ms
TD	0 ms
MTC	Off
Flip angle	12 deg
Fat suppr.	None
Flip angle Fat suppr. Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - Filter Image

	0"	
Image Filter	Off	

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
	Orientation	Sagittal
	Phase enc. dir.	H >> F
┙	<u> Ацто</u> Дідп.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
•	AutoAlign ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	90.00 deg
	Initial Orientation	Sagittal

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Cystem imiscendineed	.5
Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.4 F4.0 mm
! Orientation	T > C11.5 > S0.1
! Rotation	0.00 deg
! A >> P	68 mm
! R >> L	62 mm
! F >> H	246 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\coilQA_tra_RL_0p5x0p5x5mm

TA: 2:41 PM: FIX Voxel size: 0.5×0.5×5.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	7
Dist. factor	300 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	7
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	30.0 ms
TE	6.0 ms
TD	0 ms
MTC	Off
Flip angle	12 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	384
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - Filter Image

Image Filter	Off	
Distortion Corr.	Off	

Resolution - Filter Image

Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	7
Dist. factor	300 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Transversal
Phase enc. dir.	R >> L
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	7

Geometry - AutoAlign

	occinion y matering.	
	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
	Orientation	Transversal
	Phase enc. dir.	R >> L
	AutoAlign	
ı	Initial Position ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H	R4.6 A27.7 H0.9
•	R	4.6 mm
	A	27.7 mm
	H	0.9 mm
	Initial Rotation	90.00 deg
	Initial Orientation	Transversal

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up	
B1 Shim mode	TrueForm	
Confirm freq. adjustment	Off	
Assume Dominant Fat	Off	
Assume Silicone	Off	
Adjustment Tolerance	Auto	

System - Adjust Volume

! Position	R4.6 A27.4 F4.0 mm
! Orientation	T > C11.5 > S0.1
! Rotation	0.00 deg
! A >> P	68 mm
! R >> L	62 mm
! F >> H	246 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
2 : 0:	

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	7

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\gre_2mmlSO_multichannel_uncomb

TA: 1:21 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: Off Rel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Ol'	4
Slice group	1
Slices	44
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550.0 ms
TE	3.80 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;

Contrast - Common

TR	550.0 ms
TE	3.80 ms
MTC	Off
Magn. preparation	None
Flip angle	30 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	44
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

	Slice group	1
H	Position ;1H:1H:1H;1H;1H;1H;1H;1H;1H;1H Orientation	R4.6 A27.7 H0.9 mm Sagittal
	Phase enc. dir.	A >> P
	AutoAlign	
	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	44
Slice thickness	2.0 mm
Dist. factor	0 %
FoV read	384 mm
FoV phase	75.0 %
Segments	1

Positioning mode	FIX
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P F >> H	288 mm
F >> H	384 mm
R >> L	88 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	550.0 ms
Concatenations	1
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	384 mm
FoV phase	75.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off

Inline - Common

Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Soft Tissue

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI MIP - time	Off
MIP - time	Off
Measurements	1

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	30 deg
Measurements	1
Contrasts	1
TR	550.0 ms
TE	3.80 ms

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	On
Asymmetric echo	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Interleaved
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

Mode	Off	

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\tfl_rfmap_2x2x3

TA: 1:04 PM: FIX Voxel size: 2.0×2.0×3.0 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	28
Dist. factor	20 %
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
TE	1.79 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

Contrast - Common

-	
TR	6970.0 ms
TE	1.79 ms
Magn. preparation	None
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
Base resolution	196
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	16

Resolution - iPAT Reference scan mode

Resolution - Filter Ima	ge	
Image Filter	Off	
Distortion Corr.	On	
Mode	3D	
Unfiltered images	On	
Prescan Normalize	Off	
Normalize	Off	
B1 filter	Off	

Integrated

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	28
Dist. factor	20 %
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

1H;1HGEometry-AutoAlign

Slice group	1
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R4.6 A27.7 F0.1
R	4.6 mm
Α	27.7 mm
F	0.1 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Navigator

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares

Save uncombined	On
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	236 mm
A >> P F >> H R >> L	384 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	446.400 V

Physio - Signal1

1st Signal/Mode	None
TR	6970.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	384 mm
FoV phase	61.2 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Sequence - Part 1

Introduction	Off
Dimension	2D
Reordering	Centric
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	3.6 ms
Bandwidth	550 Hz/Px

Sequence - Part 2

RF pulse type	Normal
---------------	--------

Sequence - Part 2

Gradient mode	Whisper
Excitation	Slice-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	120

Sequence - pTX Pulses

Sequence - Special

Tx scale diag mag	0.0
Tx scale diag phs	0 deg
Tx scale offdiag mag	1.0
Tx scale offdiag phs	0 deg
Rel. B1 mapping	On
Ref. scan	Off
Use B1 map recon	On
Dummy RF pulses	1000

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\spin_6_gre_2mmISO

TA: 2:51 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: Off Rel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
<u> </u>	'
Slices	100
Dist. factor	0 %
Position	R2.9 A29.8 F8.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	1170.0 ms
TE	3.80 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;

Contrast - Common

TR	1170.0 ms
TE	3.80 ms
MTC	Off
Magn. preparation	None
Flip angle	30 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	٦
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	100
Dist. factor	0 %
Position	R2.9 A29.8 F8.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	1170.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

	Slice group	1
H	Position ;1H:1H:1H:1H:1H:1H:1H:1H:1H:1H:1H: Orientation	R2.9 A29.8 F8.6 mm Sagittal
	Phase enc. dir.	A >> P
	AutoAlign	
	Initial Position	R2.9 A29.8 F8.6
	R	2.9 mm
	A	29.8 mm
	F	8.6 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	100
Slice thickness	2.0 mm
Dist. factor	0 %
FoV read	384 mm
FoV phase	75.0 %
Segments	1

Positioning mode	FIX
Table position	F
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R2.9 A29.8 F8.6 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	288 mm
F >> H	384 mm
R >> L	200 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	1170.0 ms
Concatenations	1
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	384 mm
FoV phase	75.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off	
Concatenations	1	

Inline - Common

Subtract	Off	

Inline - Common

Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Soft Tissue

Wash - In	Off	
Wash - Out	Off	
TTP	Off	
PEI MIP - time	Off	
MIP - time	Off	
Measurements	1	

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	30 deg
Measurements	1
Contrasts	1
TR	1170.0 ms
TE	3.80 ms

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	On
Asymmetric echo	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Interleaved
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

Mode	Off	
INCOOL	CIII	

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\coilQA_sag_FH_1p5x1p5x2mm_largeFO V_RFshim_CVred

TA: 3:20 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	30.0 ms
TE	6.0 ms
TD	0 ms
MTC	Off
Flip angle Fat suppr. Water suppr.	12 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - Filter Image

Image Filter	Off	

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
	Orientation	Sagittal
	Phase enc. dir.	H >> F
Ц	AutoAlign ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H Initial Position	
'	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	90.00 deg
	Initial Orientation	Sagittal

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Cystem imisochaneca	.5
Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	Patient-specific
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A15.8 F2.8 mm
! Orientation	T > C11.5 > S0.1
! Rotation	0.00 deg
! A >> P	43 mm
! R >> L	33 mm
! F >> H	246 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Patient-specific

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	446.400 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\coilQA_sag_FH_1p5x1p5x2mm_largeFO V_RFshim_CVred

TA: 3:20 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1

Contrast - Common

TR	30.0 ms
TE	6.0 ms
TD	0 ms
MTC	Off
Flip angle Fat suppr. Water suppr.	12 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - Filter Image

Image Filter	Off	

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

Geometry - AutoAlign

	- · · · · · · · · · · · · · · · · · · ·	
	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
	Orientation	Sagittal
	Phase enc. dir.	H >> F
1H;1H	AutoAlign	
J,	AutoAlign ;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
1	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	90.00 deg
	Initial Orientation	Sagittal
1 .		

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

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Positioning mode	FIX	
Table position	Н	
Table position	0 mm	
MSMA	S - C - T	
Sagittal	R >> L	
Coronal	A >> P	
Transversal	F >> H	
Coil Combine Mode	Adaptive Combine	
Save uncombined	Off	
Matrix Optimization	Off	

AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	Patient-specific
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A15.8 F2.8 mm
! Orientation	T > C11.5 > S0.1
! Rotation	0.00 deg
! A >> P	43 mm
! R >> L	33 mm
! F >> H	246 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Patient-specific

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Mode	Off	

\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\DREAM2D_sag_2p5mmlSO_largeFOV_R Fshim_CVred

TA: 1:08 PM: FIX Voxel size: 4.1×4.1×2.5 mmPAT: Off Rel. SNR: 1.00 : 727f999

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1	
Slices	11	
Dist. factor	0 %	
Position	R4.6 A27.7 H0.9 mm	
Orientation	Sagittal	
Phase enc. dir.	A >> P	
AutoAlign		
FoV read	384 mm	
FoV phase	46.8 %	
Slice thickness	2.5 mm	
TR	6000 ms	
TE 1	2.04 ms	
TE 2	3.19 ms	
Averages	1	
Concatenations	11	
Filter	Distortion Corr.(3D)	
Coil elements	1H;1H;1H;1H;1H;1H;1H;1	∃ ;1I

Contrast - Common

TR	6000 ms
TE 1	2.04 ms
TE 2	3.19 ms
Flip angle 1	25 deg
Flip angle 2	6 deg

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	384 mm
FoV phase	46.8 %
Slice thickness	2.5 mm
Base resolution	94
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
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Resolution - Filter Image

Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	R4.6 A27.7 H0.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	46.8 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

	Slice group	1
	Position	R4.6 A27.7 H0.9 mm
Н	Orientation ;1H:1H:1H:1H:1H:1H:1H:1H:1H:1H: Phase enc. dir.	Sagittal
•	Phase enc. dir.	A >> P
	AutoAlign	
	Initial Position	R4.6 A27.7 H0.9
	R	4.6 mm
	A	27.7 mm
	Н	0.9 mm
	Initial Rotation	0.00 deg
	Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	Patient-specific
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R4.6 A27.7 H3.7 mm
! Orientation	T > S0.1
! Rotation	0.00 deg
! A >> P	187 mm
! R >> L	33 mm
! F >> H	381 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Patient-specific
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Sequence - Part 1

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Sequential
Bandwidth	920 Hz/Px

Sequence - Part 2

F=	
Echo train duration	215 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	44

Sequence - Special

Preparation scans	2
Preparation loops	0
Sample T1	2000 ms
RF-Duration	800 us
Prep RF-Duration	400 us
Time-BW-Product	3.2
Timing Scheme	STE*
Mixing Time	1150 us
Prep pTX Scheme	Disabled
FFT Scale	200
Calculate FlipMap	On
HDR DICOMs	Off
Scale risetime	1.20

Mode	Off
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\\USER\Development\Dr. Cohen-Adad\acdc_7t_spine_074p\tfl_rfmap_2x2x3_RFshim_CVred

TA: 1:04 PM: FIX Voxel size: 2.0×2.0×3.0 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	28
Dist. factor	20 %
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
TE	1.79 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H:1H:1H:1H:1H:1H:1H:1

Contrast - Common

TR	6970.0 ms
TE	1.79 ms
Magn. preparation	None
Flip angle	10.0 deg
Fat suppr. Water suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
Base resolution	196
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	16

Resolution - iPAT Reference scan mode

Resolution - Filter Image		
Image Filter	Off	
Distortion Corr.	On	
Mode	3D	
Unfiltered images	On	
Prescan Normalize	Off	
Normalize	Off	
R1 filter	Off	

Integrated

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	28
Dist. factor	20 %
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Slice group	1
Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R4.6 A27.7 F0.1
R	4.6 mm
A	27.7 mm
F	0.1 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Navigator

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares

Save uncombined	On
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	Patient-specific
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R4.6 A27.7 F0.1 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	236 mm
A >> P F >> H R >> L	384 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Patient-specific
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.199471 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	464.000 V

Physio - Signal1

1st Signal/Mode	None
TR	6970.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	384 mm
FoV phase	61.2 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Sequence - Part 1

Off
2D
Centric
Allowed
No
Interleaved
3.6 ms
550 Hz/Px

Sequence - Part 2

RF pulse type	Normal
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Sequence - Part 2

Gradient mode	Whisper
Excitation	Slice-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	120

Sequence - pTX Pulses

Sequence - Special

Tx scale diag mag	0.0
Tx scale diag phs	0 deg
Tx scale offdiag mag	1.0
Tx scale offdiag phs	0 deg
Rel. B1 mapping	On
Ref. scan	Off
Use B1 map recon	On
Dummy RF pulses	1000

Mode	Off