\\USER\INVESTIGATORS\jcohen\spine_generic\Localizer

operties		Image Filter	Off
Prio Recon	On	Distortion Corr.	On
Before measurement	On	Mode	2D
After measurement		Unfiltered images	Off
Load to viewer	On	Unfiltered images	Off
Inline movie	Off	Prescan Normalize	On
		Normalize	Off
Auto store images	On	B1 filter	Off
Load to stamp segments	On	Raw filter	Off
Load images to graphic	On	Elliptical filter	On
segments	Off	Mode	Inplane
Auto open inline display Start measurement without		Geometry	
	On	•	Convential
further preparation	0#	Multi-slice mode	Sequential
Wait for user to start	Off	Series	Interleaved
Start measurements	single	Saturation mode	Standard
outine		Special sat.	None
Slice group 1			
Slices	5	Set-n-Go Protocol	Off
Dist. factor	50 %	Table position	H
Position	Isocenter	Table position	0 mm
Orientation	Coronal	Inline Composing	Off
Phase enc. dir.	R >> L		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2		System	
Slices	3	Body	Off
Dist. factor	50 %	NE2	
Position	Isocenter		On
Orientation	Sagittal	NE1	On
Phase enc. dir.	A >> P	HEP	On
		HEA	On
Rotation	0.00 deg	Positioning mode	ISO
Phase oversampling	0 %	MSMA	S - C - T
FoV read	500 mm		R >> L
FoV phase	100.0 %	Sagittal	· · · · · =
Slice thickness	6.0 mm	Coronal	A >> P
TR	8.6 ms	Transversal	F >> H
TE	4.00 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	8	AutoAlign	Head > Basis
Filter	Distortion Corr.(2D), Prescan	Auto Coil Select	Default
	Normalize, Elliptical filter	Shim mode	Tune up
Coil elements	HEA;HEP;NE1,2	Adjust with body coil	Off
Contract		Confirm freq. adjustment	Off
ontrast	0.55	Assume Silicone	Off
TD	0 ms	? Ref. amplitude 1H	0.000 V
MTC	Off	•	
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume	la a a a materia
Fat suppr.	None	Position	Isocenter
Water suppr.	None	Orientation	Transversal
SWI	Off	Rotation	0.00 deg
Averaging mode	Chart tarm	R >> L	350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	1	Physio	
Multiple series	Each measurement	1st Signal/Mode	None
esolution			None 1
Base resolution	256	Segments	l
Phase resolution	90 %	Tagging	None
		Dark blood	Off
Phase partial Fourier	Off		
Interpolation	On	Resp. control	Off
PAT mode	None	Inline	
Matrix Coil Mode	Auto (CP)		

Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
MapIt	None
Contrasts	1

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\INVESTIGATORS\jcohen\spine_generic\T1w

TA: 4:52	PAT: 2 Voxel size: 1.0×1.0×		SIEMENS: tfl
Descrition		Distortion Corr.	On
Properties		Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Unfiltered images	Off
After measurement		Prescan Normalize	On
Load to viewer	On	Normalize	Off
Inline movie	Off	B1 filter	Off
Auto store images	On	Raw filter	On
Load to stamp segments	On	Intensity	Weak
Load images to graphic	Off	Slope	25
segments			Off
Auto open inline display	Off	Elliptical filter	Oli
Start measurement without	On	Geometry	
further preparation		Multi-slice mode	Single shot
Wait for user to start	Off	Series	Interleaved
Start measurements	single		
	on ig.o	Set-n-Go Protocol	Off
Routine		Table position	F
Slab group 1			16 mm
Slabs	1	Table position	
Dist. factor	50 %	Inline Composing	Off
Position	L5.8 A17.2 F15.6	System	
Orientation	Sagittal	Body	Off
Phase enc. dir.	A >> P	HEP	On
Rotation	0.02 deg	HEA	On
Phase oversampling	0 %	ПСА	
Slice oversampling	0.0 %	Positioning mode	ISO
	192	MSMA	S-C-T
Slices per slab	-	Sagittal	L >> R
FoV read	320 mm	Coronal	A >> P
FoV phase	81.3 %	Transversal	F >> H
Slice thickness	1.00 mm	Save uncombined	Off
TR	2000 ms	Coil Combine Mode	Sum of Squares
TE	3.21 ms		-
Averages	1	AutoAlign	 D-flt
Concatenations	1	Auto Coil Select	Default
Filter	Raw filter, Distortion	Shim mode	Standard
	Corr.(2D), Prescan Normalize	Adjust with body coil	Off
Coil elements	HEA;HEP	Confirm freq. adjustment	Off
	•	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
Magn. preparation	Non-sel. IR	Adjustment Tolerance	Auto
TI	1000 ms		Auto
Flip angle	9 deg	Adjust volume	L
Fat suppr.	None	Position	L5.8 A17.2 F15.6
Water suppr.	None	Orientation	Sagittal
		Rotation	0.02 deg
Averaging mode	Long term	F >> H	320 mm
Reconstruction	Magnitude	A >> P	260 mm
Measurements	1	R >> L	192 mm
Multiple series	Off	Dhysis	
Resolution		Physio Act Cignel/Made	Nama
Base resolution	320	1st Signal/Mode	None
		Dark blood	Off
Phase resolution	100 %		
Slice resolution	100 %	Resp. control	Off
Phase partial Fourier	Off	Inline	
Slice partial Fourier	Off		044
Interpolation	Off	Subtract	Off
DAT mode	CDADDA	Std-Dev-Sag	Off
PAT mode	GRAPPA	Std-Dev-Cor	Off
Accel. factor PE	2	Std-Dev-Tra	Off
Ref. lines PE	32	Std-Dev-Time	Off
Accel. factor 3D	1	MIP-Sag	Off
Matrix Coil Mode	Auto (Triple)	MIP-Cor	Off
Reference scan mode	Integrated	MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
Image Filter	Oil	Save original images	On
		I Said Silginal illiagoo	

Sequence	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Bandwidth	150 Hz/Px
Flow comp.	No
Echo spacing	8 ms
RF pulse type	Fast
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On

\\USER\INVESTIGATORS\jcohen\spine_generic\T2w

TA: 4:30 PA	T: 2 Voxel size: 0.8×0.8×0.8	3 mm Rel. SNR: 1.00 SI	EMENS: tse_vfl
Properties		Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement	Oli	Unfiltered images	Off
After measurement		Prescan Normalize	On
Load to viewer	On	Normalize	Off
Inline movie	Off	B1 filter	Off
	On	Raw filter	On
Auto store images	On	Intensity	Weak
Load to stamp segments	Off	Slope	25
Load images to graphic	Oli	Elliptical filter	Off
segments	Off	Geometry	
Auto open inline display Start measurement without			
	On	Special sat.	None
further preparation	Off		
Wait for user to start	_	Set-n-Go Protocol	Off
Start measurements	single	Table position	H
outine		Table position	36 mm
Slab group 1		Inline Composing	Off
Slabs	1		5 11
Position	L0.0 A16.3 H36.1	System	
Orientation	Sagittal	Body	Off
Phase enc. dir.	A >> P	NE2	On
Rotation	0.00 deg	NE1	On
Phase oversampling	0.00 deg 0 %	HEP	On
Slice oversampling	0.0 %	HEA	On
	64		
Slices per slab	_	Positioning mode	ISO
FoV read	256 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	0.80 mm	Coronal	A >> P
TR	2000 ms	Transversal	F >> H
TE	118 ms	Save uncombined	Off
Averages	1.4	Coil Combine Mode	Adaptive Combine
Concatenations	1	AutoAlign	Head > Basis
Filter	Raw filter, Distortion	Auto Coil Select	Default
	Corr.(2D), Prescan Normalize		
Coil elements	HEA;HEP;NE1,2	Shim mode	Tune up
Contrast		Adjust with body coil	Off
MTC	Off	Confirm freq. adjustment	Off
		Assume Silicone	Off
Magn. preparation	None	? Ref. amplitude 1H	0.000 V
Flip angle	180 deg	Adjustment Tolerance	Auto
Fat suppr.	None	Adjust volume	
Water suppr.	None	Position	Isocenter
Restore magn.	On	Orientation	Transversal
Reconstruction	Magnitude	Rotation	0.00 deg
Measurements	1	R >> L	350 mm
Multiple series	Each measurement	A >> P	263 mm
•	Lasii iiidasaroment	F >> H	350 mm
Resolution		Dhysis	
Base resolution	320	Physio	Maya
Phase resolution	100 %	1st Signal/Mode	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Allowed		
Slice partial Fourier	6/8	Resp. control	Off
Interpolation	Off	Inline	
			Off
PAT mode	GRAPPA	Subtract	Off
Accel. factor PE	2	Std-Dev-Sag	Off
Ref. lines PE	24	Std-Dev-Cor	Off
Accel. factor 3D	1	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (Triple)	Std-Dev-Time	Off
Reference scan mode	Integrated	MIP-Sag	Off
		MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	On	MIP-Time	

	Save original images	On
,	Sequence	
	Introduction	On
	Dimension	3D
	Bandwidth	625 Hz/Px
	Flow comp.	No
	Allowed delay	30 s
	Echo spacing	4.14 ms
	Adiabatic-mode	Off
	Define	Echo trains
	Turbo factor	87
	Slice turbo factor	1
	Echo trains per slice	2
	Echo train duration	290
	RF pulse type	Normal
	Gradient mode	Fast*
	Excitation	Slab-sel.
	Flip angle mode	Constant

 $\verb|\USER\INVESTIGATORS\| jcohen\| spine_generic\| DWI_b0$

! SIEMENS: ep2d_diff

Voxel size: 0.9×0.9×5.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:30

Properties		Orientation	Coronal
Prio Recon	Off	Sat. region 2	
Before measurement	Oli	Thickness	59 mm
		Position	L0.0 P56.8 H0.0
After measurement		Orientation	Coronal
Load to viewer	On	Special sat.	None
Inline movie	Off		
Auto store images	On		
Load to stamp segments	Off	Set-n-Go Protocol	Off
Load images to graphic	Off	Table position	F
	Oli	Table position	18 mm
segments	0.4	Inline Composing	Off
Auto open inline display	Off	Timile composing	5
Start measurement without	On	System	
further preparation		Body	Off
Wait for user to start	Off	NE2	On
Start measurements	single	NE1	On
Start measurements	Sirigle		_
Routine		HEP	Off
Slice group 1		—— HEA	Off
	15		
Slices	15	Positioning mode	ISO
Dist. factor	0 %	MSMA	S - C - T
Position	L0.0 P0.0 F17.6	Sagittal	R >> L
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg		
		Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	AutoAlign	
FoV read	86 mm	Auto Coil Select	On
FoV phase	100.0 %		
Slice thickness	5.0 mm	Shim mode	Standard
TR	600 ms	Adjust with body coil	Off
		Confirm freq. adjustment	Off
TE	99 ms	Assume Silicone	Off
Averages	4		0.000 V
Concatenations	5	? Ref. amplitude 1H	
Filter	None	Adjustment Tolerance	Auto
Coil elements	NE1,2	Adjust volume	
Our cicinents	1421,2	Position	L0.0 P0.0 F17.6
Contrast		Orientation	Transversal
MTC	Off	Rotation	0.00 deg
Magn. preparation	None		•
		R >> L	86 mm
Fat suppr.	Water excit. normal	A >> P	86 mm
Averaging mode	Long term	F >> H	75 mm
Reconstruction		Dharia	
	Magnitude	Physio	
Delay in TR	0 ms	1st Signal/Mode	Pulse/Trigger
Multiple series	Off	Average cycle	No Signal ms
S 1 4		Acquisition window	2600 ms
Resolution		Trigger pulse	1
Base resolution	96		•
Phase resolution	100 %	Trigger delay	0 ms
Phase partial Fourier	5/8	Phases	1
Interpolation	Off	Doop control	Off
	OII	Resp. control	Off
PAT mode	None	Diff	
Matrix Coil Mode			MDDW
IVIALITA COII IVIOUE	Auto (CP)	Diffusion mode	MDDW
Distortion Corr.	Off	Diff. weightings	1
Prescan Normalize	Off	b-value	0 s/mm²
		Diff. weighted images	On
Raw filter	On	Trace weighted images	Off
Elliptical filter	Off		
Hamming	Off	Average ADC maps	Off
· ·		Individual ADC maps	Off
Beometry		FA maps	Off
Multi-slice mode	Interleaved	Mosaic	Off
Series	Interleaved	Tensor	Off
		Noise level	10
Sat. region 1			
Thickness	93 mm	Diff. directions	64
111101111000			
Position	L0.0 A72.8 H0.0		

Introduction Bandwidth Free echo spacing Echo spacing	Off 964 Hz/Px Off 1.14 ms	
EPI factor RF pulse type Gradient mode	96 Normal Fast	

\\USER\INVESTIGATORS\jcohen\spine_generic\DWI
Off Voxel size: 0.9×0.9×5.0 mm Rel. SNR: 1.00 ! SI

TA: 3:18

PAT: Off

! SIEMENS: ep2d_diff

IA. 3.10 PAT.	OII VOXEI SIZE. U.9XU.9X	RS.U IIIII Rei. SINK. 1.00 ! S	ilelviens. epzu_diii
Description		Orientation	Coronal
Properties	0,11	Sat. region 2	
Prio Recon	Off	Thickness	59 mm
Before measurement		Position	L0.0 P56.8 H0.0
After measurement		Orientation	Coronal
Load to viewer	On	Special sat.	None
Inline movie	Off		
Auto store images	On	Set-n-Go Protocol	Off
Load to stamp segments	Off	Table position	F
Load images to graphic	Off		г 18 mm
segments		Table position	_
Auto open inline display	Off	Inline Composing	Off
Start measurement without	On	System	
further preparation		Body	Off
Wait for user to start	Off	NE2	On
Start measurements	single	NE1	On
I	3 -	HEP	Off
Routine		HEA	Off
Slice group 1			
Slices	15	Positioning mode	ISO
Dist. factor	0 %	MSMA	S - C - T
Position	L0.0 P0.0 F17.6	Sagittal	R >> L
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	AutoAlign	
FoV read	86 mm	Auto Coil Select	On
FoV phase	100.0 %		
Slice thickness	5.0 mm	Shim mode	Standard
TR	600 ms	Adjust with body coil	Off
TE	99 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	5	? Ref. amplitude 1H	0.000 V
Filter	None	Adjustment Tolerance	Auto
Coil elements	NE1,2	Adjust volume	
Con elements	INE 1,2	Position	L0.0 P0.0 F17.6
Contrast		Orientation	Transversal
MTC	Off	Rotation	0.00 deg
Magn. preparation	None	R >> L	86 mm
Fat suppr.	Water excit. normal	A >> P	86 mm
		F >> H	75 mm
Averaging mode	Long term	ı	
Reconstruction	Magnitude	Physio	
Delay in TR	0 ms	1st Signal/Mode	Pulse/Trigger
Multiple series	Off	Average cycle	No Signal ms
Resolution		Acquisition window	2600 ms
Base resolution	96	—— Trigger pulse	1
Phase resolution	100 %	Trigger delay	0 ms
Phase partial Fourier	5/8	Phases	1
•			0"
Interpolation	Off	Resp. control	Off
PAT mode	None	Diff	
Matrix Coil Mode	Auto (CP)	Diffusion mode	MDDW
		Diff. weightings	2
Distortion Corr.	Off	b-value 1	0 s/mm²
Prescan Normalize	Off	b-value 2	800 s/mm²
Raw filter	On	Diff. weighted images	On
Elliptical filter	Off	•	Off
Hamming	Off	Trace weighted images	
Goometry		Average ADC maps	Off
Geometry	lusto al o o vo al	Individual ADC maps	Off
Multi-slice mode	Interleaved	FA maps	Off
Series	Interleaved	Mosaic	On Off
Sat. region 1		Tensor	Off
Thickness	93 mm	Noise level	10
Position	L0.0 A72.8 H0.0	Diff. directions	64
1 3331	_5.5 / 1. 2.5 / 10.0		

•	
Introduction	Off
Bandwidth	964 Hz/Px
Free echo spacing	Off
Echo spacing	1.14 ms
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast

\\USER\INVESTIGATORS\jcohen\spine_generic\GRE-MT1

	PAT: 2 Voxel size: 0.9×0	0.9x5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Droportion		Distortion Corr.	On
Properties		Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Prescan Normalize	Off
After measurement	_	Normalize	Off
Load to viewer	On	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	Liliptical litter	Oli
Load images to graphic	Off	Geometry	
segments		Multi-slice mode	Interleaved
Auto open inline display	Off	Series	Interleaved
Start measurement without	On		
further preparation		Saturation mode	Standard
Wait for user to start	Off	Special sat.	None
Start measurements	single		
Start measurements	Sirigie	Set-n-Go Protocol	Off
Routine		Table position	F
Slab group 1		Table position	18 mm
Slabs	1	Inline Composing	Off
Dist. factor	20 %		•
Position	L0.0 P0.0 F17.6	Tim CT mode	Off
Orientation	Transversal	0 1	
		System	
Phase enc. dir.	A >> P	Body	Off
Rotation	0.00 deg	NE2	On
Phase oversampling	0 %	NE1	On
Slice oversampling	18.2 %	HEP	Off
Slices per slab	22	HEA	Off
FoV read	230 mm		
FoV phase	100.0 %	Positioning mode	ISO
Slice thickness	5.00 mm	MSMA	S - C - T
TR	35 ms	Sagittal	R >> L
TE	3.50 ms	Coronal	A >> P
Averages	1	Transversal	F >> H
Concatenations	1	Save uncombined	Off
Filter	Distortion Corr.(2D)	Coil Combine Mode	Adaptive Combine
	` '	AutoAlign	
Coil elements	NE1,2	Auto Coil Select	Default
Contrast			
MTC	On	Shim mode	Standard
Magn. preparation	None	Adjust with body coil	Off
Flip angle	9 deg	Confirm freq. adjustment	Off
Fat suppr.	None	Assume Silicone	Off
Water suppr.	None	? Ref. amplitude 1H	0.000 V
SWI	Off	Adjustment Tolerance	Auto
	OII	Adjust volume	7.10.10
Averaging mode	Short term	Position	L0.0 P0.0 F17.6
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1		
Multiple series	Each measurement	Rotation	0.00 deg
	Laon measurement	R >> L	230 mm
Resolution		A >> P	230 mm
Base resolution	256	—— F >> H	110 mm
Phase resolution	100 %	Physio	
Slice resolution	100 %		None
Phase partial Fourier	Off	1st Signal/Mode	
Slice partial Fourier	Off	Segments	1
		Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA		•
Accel. factor PE	2	Resp. control	Off
Ref. lines PE	32	'	
	32 1	Inline	
Accel. factor 3D	=	Subtract	Off
Matrix Coil Mode	Auto (Triple)	Liver registration	Off
Reference scan mode	Integrated	Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
	J.,	ı	

Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off Off Off Off Off Off Off Off On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
MapIt	None
Contrasts	1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	260 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
•	

 $\verb|\USER\INVESTIGATORS\>| jcohen\spine_generic\GRE-MT0|$

		0.9x5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Proportion		Distortion Corr.	On
Properties	0"	Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Prescan Normalize	Off
After measurement	0.5	Normalize	Off
Load to viewer	On O"	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On O"	Elliptical filter	Off
Load to stamp segments	Off Off	Coometry	
Load images to graphic	Off	Geometry	latada accad
segments	0"	Multi-slice mode	Interleaved
Auto open inline display	Off	Series	Interleaved
Start measurement without	On	Saturation mode	Standard
further preparation	0"	Special sat.	None
Wait for user to start	Off		
Start measurements	single	Set-n-Go Protocol	Off
Routine		Table position	F
Slab group 1		Table position	18 mm
Slabs	1	Inline Composing	Off
Dist. factor	20 %		••••••••••••••••••••••••••••••••••••••
Position	L0.0 P0.0 F17.6	Tim CT mode	Off
Orientation	Transversal	System	
Phase enc. dir.	A >> P	System	0#
Rotation	0.00 deg	Body	Off
Phase oversampling	0.00 deg 0 %	NE2	On
	18.2 %	NE1	On
Slice oversampling	10.2 %	HEP	Off
Slices per slab		HEA	Off
FoV read	230 mm	Positioning mode	ISO
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	5.00 mm	Sagittal	R >> L
TR	35.0 ms	Coronal	A >> P
TE	3.50 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	Distortion Corr.(2D)	AutoAlign	
Coil elements	NE1,2	Auto Coil Select	Default
Contrast			
MTC	Off	Shim mode	Standard
Magn. preparation	None	Adjust with body coil	Off
Flip angle	9 deg	Confirm freq. adjustment	Off
Fat suppr.	None	Assume Silicone	Off
Water suppr.	None	? Ref. amplitude 1H	0.000 V
SWI	Off	Adjustment Tolerance	Auto
		Adjust volume	
Averaging mode	Short term	Position	L0.0 P0.0 F17.6
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1 .	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	230 mm
Resolution		A >> P	230 mm
Base resolution	256	—— F >> H	110 mm
Phase resolution	100 %	Dhysia	
Slice resolution	100 %	Physio	None
Phase partial Fourier	Off	1st Signal/Mode	None
Slice partial Fourier	Off	Segments	1
Interpolation	Off	Tagging	None
interpolation	OII	Dark blood	Off
PAT mode	GRAPPA		
Accel. factor PE	2	Resp. control	Off
Ref. lines PE	32	Inline	
Accel. factor 3D	1	Subtract	Off
Matrix Coil Mode	Auto (Triple)	Liver registration	Off
Reference scan mode	Integrated	Std-Dev-Sag	Off
		Std-Dev-Sag Std-Dev-Cor	Off
Image Filter	Off	Ju-Dev-Coi	Oil

Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off Off Off Off Off Off Off On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
MapIt	None
Contrasts	1

• • • • • • • • • • • • • • • • • • • •	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	260 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

\\USER\INVESTIGATORS\jcohen\spine_generic\GRE-T1w

TA: 0:57	PAT: 2 Voxel size: 0.9x0	0.9×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Distortion Corr.	On
Prio Recon	Off	—— Mode	2D
Before measurement		Unfiltered images	Off
After measurement		Prescan Normalize	Off
Load to viewer	On	Normalize	Off
	Off	B1 filter	Off
Inline movie		Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	'	
Load images to graphic	Off	Geometry	
segments		Multi-slice mode	Interleaved
Auto open inline display	Off	Series	Interleaved
Start measurement without	On		0, 1, 1
further preparation		Saturation mode	Standard
Wait for user to start	Off	Special sat.	None
Start measurements	single		
I	5g.5	Set-n-Go Protocol	Off
Routine		Table position	F
Slab group 1		Table position	18 mm
Slabs	1	Inline Composing	Off
Dist. factor	20 %		
Position	L0.0 P0.0 F17.6	Tim CT mode	Off
Orientation	Transversal	Custom	
Phase enc. dir.	A >> P	System	
		Body	Off
Rotation	0.00 deg	NE2	On
Phase oversampling	0 %	NE1	On
Slice oversampling	18.2 %	HEP	Off
Slices per slab	22	HEA	Off
FoV read	230 mm		
FoV phase	100.0 %	Positioning mode	ISO
Slice thickness	5.00 mm	MSMA	S - C - T
TR	15.0 ms	Sagittal	R >> L
TE	3.50 ms	Coronal	A >> P
Averages	1	Transversal	F >> H
Concatenations	1	Save uncombined	Off
Filter	Distortion Corr (2D)	Coil Combine Mode	Adaptive Combine
	Distortion Corr.(2D)	AutoAlign	
Coil elements	NE1,2	Auto Coil Select	Default
Contrast			
MTC	Off	Shim mode	Standard
Magn. preparation	None	Adjust with body coil	Off
		Confirm freq. adjustment	Off
Flip angle	15 deg	Assume Silicone	Off
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Water suppr.	None	Adjustment Tolerance	Auto
SWI	Off		Auto
Averaging mode	Short term	Adjust volume	1000005470
Reconstruction		Position	L0.0 P0.0 F17.6
	Magnitude	Orientation	Transversal
Measurements	I Fack messages (Rotation	0.00 deg
Multiple series	Each measurement	R >> L	230 mm
Resolution		A >> P	230 mm
Base resolution	256	—— F >> H	110 mm
	100 %	Discosi s	
Phase resolution		Physio	
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	Off	Segments	1
Slice partial Fourier	Off	T	Nana
Interpolation	Off	Tagging	None
DAT mode	CDADDA	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	Nesp. control	Oil
Ref. lines PE	32	Inline	
Accel. factor 3D	1	Subtract	Off
Matrix Coil Mode	Auto (Triple)	Liver registration	Off
Reference scan mode	Integrated	Std-Dev-Sag	Off
Image Fitter		Std-Dev-Sag Std-Dev-Cor	Off
Image Filter	Off	J. G.G. Dev-Ool	J.,

Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off Off Off Off Off Off Off Off
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
MapIt Contrasts	None 1

009	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	260 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
. 3	

 $\verb|\USER\INVESTIGATORS\| jcohen\| spine_generic\| GRE-ME$

Voxel size: 0.5×0.5×5.0 mm Rel. SNR: 1.00

SIEMENS: medic

PAT: 2

TA: 4:50

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On	Set-n-Go Protocol	Off
Load to stamp segments	Off	Table position	F
Load images to graphic	Off	Table position	18 mm
segments		Inline Composing	Off
Auto open inline display	Off		O.I.
Start measurement without	On	System	
further preparation	3.1	Body	Off
Wait for user to start	Off	NE2	On
Start measurements	single	NE1	On
Start measurements	Sirigie	HEP	Off
outine		HEA	Off
Slice group 1			
Slices	15	Positioning mode	ISO
Dist. factor	0 %	MSMA	S - C - T
Position	L0.0 P0.0 F17.6	Sagittal	R >> L
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg	Save uncombined	Off
Phase oversampling	0 %	Coil Combine Mode	Adaptive Combine
FoV read	224 mm	AutoAlign	
FoV phase	100.0 %	Auto Coil Select	On
Slice thickness	5.0 mm		
		Shim mode	Standard
TR	600 ms	Adjust with body coil	Off
TE	13 ms	Confirm freq. adjustment	Off
Averages	2	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	Distortion Corr.(2D)	Adjustment Tolerance	Auto
Coil elements	NE1,2	Adjust volume	
ontrast		Position	L0.0 P0.0 F17.6
MTC	Off	Orientation	Transversal
	30 deg	Rotation	0.00 deg
Flip angle	<u> </u>	R >> L	224 mm
Fat suppr.	None	A >> P	224 mm
Water suppr.	None	F >> H	75 mm
Averaging mode	Short term	1 22 11	70 111111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Off	In line	
Wulliple Selles	Oli	Inline	0"
esolution		Subtract	Off
Base resolution	448	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
PAT mode	GRAPPA	MIP-Cor	Off
Accel. factor PE	2	MIP-Tra	Off
Ref. lines PE	32	MIP-Time	Off
Matrix Coil Mode	Auto (Triple)	Save original images	On
Reference scan mode	Integrated		-
		Sequence	
Image Filter	Off		On
Distortion Corr.	On	Introduction	On
Mode	2D	Dimension	2D
Unfiltered images	Off	Bandwidth	260 Hz/Px
Prescan Normalize	Off	Flow comp.	Yes
Normalize	Off	Combined echoes	3
B1 filter	Off	RF pulse type	ა Normal
D I IIILEI			

RF spoiling

On

Table of contents		

\\USER

INVEST	IGATOR	S	
	jcohen		
		spine_g	eneric
			Localizer
			T1w
			T2w
			DWI_b0
			DWI
			GRE-MT1
			GRE-MT0
			GRE-T1w
			GRE-ME