

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\localizer

TA: 0:40 PAT: Off Voxel size: 2.2x1.1x10.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties		Phase partial Fourier Interpolation	Off On
Prio Recon	Off	PAT mode	None
Before measurement		Matrix Coil Mode	Auto (CP)
After measurement		Image Filter	Off
Load to viewer	On	Distortion Corr.	Off
Inline movie	Off	Unfiltered images	Off
Auto store images	On	Prescan Normalize	On
Load to stamp segments	Off	Normalize	Off
Load images to graphic segments	Off	B1 filter	Off
Auto open inline display	Off	Raw filter	Off
Start measurement without further preparation	On	Elliptical filter	Off
Wait for user to start	On	Geometry	
Start measurements	single	Multi-slice mode Series	Sequential Interleaved
Routine		Saturation mode Special sat.	Standard None
Slice group 1		Tim CT mode	Off
Slices	5	System	
Dist. factor	20 %	Body	Off
Position	Isocenter	HEP	On
Orientation	Sagittal	HEA	On
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	H
Slice group 2		Table position	0 mm
Slices	5	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Sum of Squares
Slice group 3		AutoAlign	---
Slices	5	Auto Coil Select	Default
Dist. factor	20 %	Shim mode	
Position	Isocenter	Adjust with body coil	Tune up
Orientation	Coronal	Confirm freq. adjustment	On
Phase enc. dir.	R >> L	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
FoV read	280 mm	Adjust volume	
FoV phase	100.0 %	Position	Isocenter
Slice thickness	10.0 mm	Orientation	Transversal
TR	20.0 ms	Rotation	0.00 deg
TE	5.00 ms	R >> L	350 mm
Averages	1	A >> P	263 mm
Concatenations	15	F >> H	350 mm
Filter	Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast		Segments	1
TD	0 ms	Tagging	None
MTC	Off	Dark blood	Off
Magn. preparation	None	Resp. control	Off
Flip angle	40 deg	Inline	
Fat suppr.	None	Subtract	Off
Water suppr.	None	Liver registration	Off
Averaging mode	Short term	Std-Dev-Sag	Off
Reconstruction	Magnitude	Std-Dev-Cor	Off
Measurements	1		
Multiple series	Each measurement		
Resolution			
Base resolution	256		
Phase resolution	50 %		

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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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Fast
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

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\USER\Nage\K-Study\Nigg-Fair Studies 10.10\T1Anatomical-1

TA: 9:14 PAT: Off Voxel size: 1.0x1.0x1.1 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties		Raw filter	Off
Prio Recon	Off	Elliptical filter	Off
Before measurement		Geometry	
After measurement		Multi-slice mode	Single shot
Load to viewer	On	Series	Interleaved
Inline movie	Off	System	
Auto store images	On	Body	Off
Load to stamp segments	Off	HEP	On
Load images to graphic segments	Off	HEA	On
Auto open inline display	Off	SP4	Off
Start measurement without further preparation	On	SP2	Off
Wait for user to start	On	SP8	Off
Start measurements	single	SP6	Off
Routine		SP3	Off
Slab group 1		SP1	Off
Slabs	1	SP7	Off
Dist. factor	50 %	SP5	Off
Position	L1.2 A34.7 F18.1	Positioning mode	
Orientation	Sagittal	Table position	FIX
Phase enc. dir.	A >> P	Table position	H
Rotation	0.00 deg	MSMA	0 mm
Phase oversampling	0 %	Sagittal	S - C - T
Slice oversampling	10.0 %	Coronal	R >> L
Slices per slab	160	Transversal	A >> P
FoV read	256 mm	Save uncombined	F >> H
FoV phase	93.8 %	Coil Combine Mode	Sum of Squares
Slice thickness	1.10 mm	AutoAlign	---
TR	2300 ms	Auto Coil Select	Default
TE	3.58 ms	Shim mode	
Averages	1	Adjust with body coil	Standard
Concatenations	1	Confirm freq. adjustment	Off
Filter	Prescan Normalize	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
Contrast		Adjustment Tolerance	Auto
Magn. preparation	Non-sel. IR	Adjust volume	
TI	900 ms	Position	L1.2 A34.7 F18.1
Flip angle	10 deg	Orientation	Sagittal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	F >> H	256 mm
Averaging mode		A >> P	240 mm
Reconstruction	Short term	R >> L	176 mm
Measurements	Magnitude	Physio	
Multiple series	1	1st Signal/Mode	None
Resolution		Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Slice resolution	100 %	Subtract	Off
Phase partial Fourier	Off	Std-Dev-Sag	Off
Slice partial Fourier	Off	Std-Dev-Cor	Off
Interpolation	Off	Std-Dev-Tra	Off
PAT mode		Std-Dev-Time	Off
Matrix Coil Mode	None	MIP-Sag	Off
	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Unfiltered images	Off	Save original images	On
Prescan Normalize	On	Sequence	
Normalize	Off	Introduction	On
B1 filter	Off	Dimension	3D

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Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	180 Hz/Px
Flow comp.	No
Echo spacing	8.2 ms
<hr/>	
RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On

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\\USER\\Nagel\\K-Study\\Nigg-Fair Studies 10.10\\REST1

TA: 5:07 PAT: Off Voxel size: 3.8x3.8x3.8 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		Positioning mode	FIX
Load to viewer	On	Table position	H
Inline movie	Off	Table position	0 mm
Auto store images	On	MSMA	S - C - T
Load to stamp segments	Off	Sagittal	R >> L
Load images to graphic segments	Off	Coronal	A >> P
Auto open inline display	On	Transversal	F >> H
Start measurement without further preparation	On	Coil Combine Mode	Sum of Squares
Wait for user to start	On	AutoAlign	---
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	36	Confirm freq. adjustment	Off
Dist. factor	0 %	Assume Silicone	Off
Position	L0.0 A23.1 H14.9	? Ref. amplitude 1H	0.000 V
Orientation	T > C-6.1	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	L0.0 A23.1 H14.9
Phase oversampling	0 %	Orientation	T > C-6.1
FoV read	240 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	240 mm
Slice thickness	3.8 mm	A >> P	240 mm
TR	2500 ms	F >> H	137 mm
TE	30 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1	BOLD	
Filter	None	GLM Statistics	Off
Coil elements	HEA;HEP	Dynamic t-maps	Off
Contrast		Starting ignore meas	0
MTC	Off	Ignore after transition	0
Flip angle	90 deg	Model transition states	Off
Fat suppr.	Fat sat.	Temp. highpass filter	Off
Averaging mode		Threshold	4.00
Reconstruction	Long term	Paradigm size	30
Measurements	Magnitude	Meas[1]	Baseline
Delay in TR	120	Meas[2]	Baseline
Multiple series	0 ms	Meas[3]	Baseline
Resolution		Meas[4]	Baseline
Base resolution	64	Meas[5]	Baseline
Phase resolution	100 %	Meas[6]	Baseline
Phase partial Fourier	Off	Meas[7]	Baseline
Interpolation	Off	Meas[8]	Baseline
PAT mode		Meas[9]	Baseline
Matrix Coil Mode	None	Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Meas[13]	Active
Elliptical filter	Off	Meas[14]	Active
Hamming	Off	Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
Series	Interleaved	Meas[18]	Active
Special sat.	None	Meas[19]	Active
System		Meas[20]	Active
		Meas[21]	Active
		Meas[22]	Active
		Meas[23]	Active
		Meas[24]	Active
		Meas[25]	Active

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Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
-----	-----
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\\Nagel\\K-Study\\Nigg-Fair Studies 10.10\\REST2

TA: 5:07 PAT: Off Voxel size: 3.8x3.8x3.8 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		Positioning mode	FIX
Load to viewer	On	Table position	H
Inline movie	Off	Table position	0 mm
Auto store images	On	MSMA	S - C - T
Load to stamp segments	Off	Sagittal	R >> L
Load images to graphic segments	Off	Coronal	A >> P
Auto open inline display	On	Transversal	F >> H
Start measurement without further preparation	On	Coil Combine Mode	Sum of Squares
Wait for user to start	On	AutoAlign	---
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	36	Confirm freq. adjustment	Off
Dist. factor	0 %	Assume Silicone	Off
Position	L0.0 A23.1 H14.9	? Ref. amplitude 1H	0.000 V
Orientation	T > C-6.1	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	L0.0 A23.1 H14.9
Phase oversampling	0 %	Orientation	T > C-6.1
FoV read	240 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	240 mm
Slice thickness	3.8 mm	A >> P	240 mm
TR	2500 ms	F >> H	137 mm
TE	30 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1	BOLD	
Filter	None	GLM Statistics	Off
Coil elements	HEA;HEP	Dynamic t-maps	Off
Contrast		Starting ignore meas	0
MTC	Off	Ignore after transition	0
Flip angle	90 deg	Model transition states	Off
Fat suppr.	Fat sat.	Temp. highpass filter	Off
Averaging mode		Threshold	4.00
Reconstruction	Long term	Paradigm size	30
Measurements	Magnitude	Meas[1]	Baseline
Delay in TR	120	Meas[2]	Baseline
Multiple series	0 ms	Meas[3]	Baseline
Resolution		Meas[4]	Baseline
Base resolution	64	Meas[5]	Baseline
Phase resolution	100 %	Meas[6]	Baseline
Phase partial Fourier	Off	Meas[7]	Baseline
Interpolation	Off	Meas[8]	Baseline
PAT mode		Meas[9]	Baseline
Matrix Coil Mode	None	Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Meas[13]	Active
Elliptical filter	Off	Meas[14]	Active
Hamming	Off	Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
Series	Interleaved	Meas[18]	Active
Special sat.	None	Meas[19]	Active
System		Meas[20]	Active
		Meas[21]	Active
		Meas[22]	Active
		Meas[23]	Active
		Meas[24]	Active
		Meas[25]	Active

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Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
-----	-----
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\\Nagel\\K-Study\\Nigg-Fair Studies 10.10\\REST3

TA: 5:07 PAT: Off Voxel size: 3.8x3.8x3.8 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		Positioning mode	FIX
Load to viewer	On	Table position	H
Inline movie	Off	Table position	0 mm
Auto store images	On	MSMA	S - C - T
Load to stamp segments	Off	Sagittal	R >> L
Load images to graphic segments	Off	Coronal	A >> P
Auto open inline display	On	Transversal	F >> H
Start measurement without further preparation	On	Coil Combine Mode	Sum of Squares
Wait for user to start	On	AutoAlign	---
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	36	Confirm freq. adjustment	Off
Dist. factor	0 %	Assume Silicone	Off
Position	L0.0 A23.1 H14.9	? Ref. amplitude 1H	0.000 V
Orientation	T > C-6.1	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	L0.0 A23.1 H14.9
Phase oversampling	0 %	Orientation	T > C-6.1
FoV read	240 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	240 mm
Slice thickness	3.8 mm	A >> P	240 mm
TR	2500 ms	F >> H	137 mm
TE	30 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1	BOLD	
Filter	None	GLM Statistics	Off
Coil elements	HEA;HEP	Dynamic t-maps	Off
Contrast		Starting ignore meas	0
MTC	Off	Ignore after transition	0
Flip angle	90 deg	Model transition states	Off
Fat suppr.	Fat sat.	Temp. highpass filter	Off
Averaging mode		Threshold	4.00
Reconstruction	Long term	Paradigm size	30
Measurements	Magnitude	Meas[1]	Baseline
Delay in TR	120	Meas[2]	Baseline
Multiple series	0 ms	Meas[3]	Baseline
Resolution		Meas[4]	Baseline
Base resolution	64	Meas[5]	Baseline
Phase resolution	100 %	Meas[6]	Baseline
Phase partial Fourier	Off	Meas[7]	Baseline
Interpolation	Off	Meas[8]	Baseline
PAT mode		Meas[9]	Baseline
Matrix Coil Mode	None	Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Meas[13]	Active
Elliptical filter	Off	Meas[14]	Active
Hamming	Off	Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
Series	Interleaved	Meas[18]	Active
Special sat.	None	Meas[19]	Active
System		Meas[20]	Active
		Meas[21]	Active
		Meas[22]	Active
		Meas[23]	Active
		Meas[24]	Active
		Meas[25]	Active

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Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
-----	-----
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\Diffusion FM

TA: 3:13

Voxel size: 2.0x2.0x2.0 mm

Rel. SNR: 1.00

SIEMENS: gre_field_mapping

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	On
Start measurements	single

Routine

Slice group 1	
Slices	72
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	790 ms
TE 1	5.19 ms
TE 2	7.65 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	120
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	144 mm

Sequence

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	382 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

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\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\DTI_30directions_5b0_3avg

TA: 16:52 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Special sat.	None																																																																																								
Prio Recon	Off	System																																																																																									
Before measurement		Body	Off																																																																																								
After measurement		HEP	On																																																																																								
Load to viewer	On	HEA	On																																																																																								
Inline movie	Off	SP4	Off																																																																																								
Auto store images	On	SP2	Off																																																																																								
Load to stamp segments	Off	SP8	Off																																																																																								
Load images to graphic segments	Off	SP6	Off																																																																																								
Auto open inline display	Off	SP3	Off																																																																																								
Start measurement without further preparation	On	SP1	Off																																																																																								
Wait for user to start	On	SP7	Off																																																																																								
Start measurements	single	SP5	Off																																																																																								
Routine		Positioning mode	FIX																																																																																								
Slice group 1		Table position	H																																																																																								
Slices	72	Table position	0 mm																																																																																								
Dist. factor	0 %	MSMA	S - C - T																																																																																								
Position	Isocenter	Sagittal	R >> L																																																																																								
Orientation	T > C-6.0	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	256 mm	Auto Coil Select	Default																																																																																								
FoV phase	100.0 %	Shim mode	Standard																																																																																								
Slice thickness	2 mm	Adjust with body coil	Off																																																																																								
TR	9100 ms	Confirm freq. adjustment	Off																																																																																								
TE	88 ms	Assume Silicone	Off																																																																																								
Averages	3	? Ref. amplitude 1H	0.000 V																																																																																								
Concatenations	1	Adjustment Tolerance	Auto																																																																																								
Filter	None	Adjust volume																																																																																									
Coil elements	HEA;HEP	Position	Isocenter																																																																																								
Contrast		Orientation	T > C-6.0																																																																																								
MTC	Off	Rotation	0.00 deg																																																																																								
Magn. preparation	None	R >> L	256 mm																																																																																								
Fat suppr.	Fat sat.	A >> P	256 mm																																																																																								
Fat sat.		F >> H	144 mm																																																																																								
Averaging mode	Long term	Physio																																																																																									
Reconstruction	Magnitude	Delay in TR	0 ms	1st Signal/Mode	None	Multiple series	Off	Resp. control	Off	Resolution		Diff		Base resolution	128	Diffusion mode	Free	Phase resolution	100 %	Diff. weightings	2	Phase partial Fourier	6/8	b-value 1	0 s/mm ²	Interpolation	Off	b-value 2	1000 s/mm ²	PAT mode	GRAPPA	Diff. weighted images	On	Accel. factor PE	2	Trace weighted images	On	Ref. lines PE	32	Average ADC maps	On	Matrix Coil Mode	Auto (Triple)	Individual ADC maps	On	Reference scan mode	Separate	FA maps	On	Distortion Corr.	Off	Mosaic	On	Prescan Normalize	Off	Tensor	On	Raw filter	On	Noise level	40	Elliptical filter	Off	Diff. directions	35	Hamming	Off	Sequence		Geometry		Multi-slice mode	Interleaved	Introduction	On	Series	Interleaved	Bandwidth	1698 Hz/Px			Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	128
Delay in TR	0 ms	1st Signal/Mode	None																																																																																								
Multiple series	Off	Resp. control	Off																																																																																								
Resolution		Diff																																																																																									
Base resolution	128	Diffusion mode	Free																																																																																								
Phase resolution	100 %	Diff. weightings	2																																																																																								
Phase partial Fourier	6/8	b-value 1	0 s/mm ²																																																																																								
Interpolation	Off	b-value 2	1000 s/mm ²																																																																																								
PAT mode	GRAPPA	Diff. weighted images	On																																																																																								
Accel. factor PE	2	Trace weighted images	On																																																																																								
Ref. lines PE	32	Average ADC maps	On																																																																																								
Matrix Coil Mode	Auto (Triple)	Individual ADC maps	On																																																																																								
Reference scan mode	Separate	FA maps	On																																																																																								
Distortion Corr.	Off	Mosaic	On																																																																																								
Prescan Normalize	Off	Tensor	On																																																																																								
Raw filter	On	Noise level	40																																																																																								
Elliptical filter	Off	Diff. directions	35																																																																																								
Hamming	Off	Sequence																																																																																									
Geometry		Multi-slice mode	Interleaved	Introduction	On	Series	Interleaved	Bandwidth	1698 Hz/Px			Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	128																																																																						
Multi-slice mode	Interleaved	Introduction	On																																																																																								
Series	Interleaved	Bandwidth	1698 Hz/Px																																																																																								
		Free echo spacing	Off																																																																																								
		Echo spacing	0.69 ms																																																																																								
		EPI factor	128																																																																																								

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| RF pulse type
Gradient mode

Normal
Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\\Nagel\\K-Study\\Nigg-Fair Studies 10.10\\t2_spc_1mm_p2

TA: 4:18 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 SIEMENS: tse_vfl

Properties		Normalize	Off
Prio Recon	Off	B1 filter	Off
Before measurement		Raw filter	On
After measurement		Intensity	Weak
Load to viewer	On	Slope	25
Inline movie	Off	Elliptical filter	Off
Auto store images	On	Geometry	
Load to stamp segments	On	Special sat.	None
Load images to graphic segments	Off	System	
Auto open inline display	Off	Body	Off
Start measurement without further preparation	On	HEP	On
Wait for user to start	On	HEA	On
Start measurements	single	Positioning mode	REF
Routine		Table position	H
Slab group 1		Table position	0 mm
Slabs	1	MSMA	S - C - T
Position	R0.4 A0.3 F10.4	Sagittal	R >> L
Orientation	S > T2.2 > C0.9	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
Slice oversampling	0.0 %	AutoAlign	---
Slices per slab	160	Auto Coil Select	Default
FoV read	256 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	1.00 mm	Confirm freq. adjustment	Off
TR	3200 ms	Assume Silicone	Off
TE	497 ms	? Ref. amplitude 1H	0.000 V
Averages	1.0	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	Raw filter, Prescan Normalize	Position	R0.4 A0.3 F10.4
Coil elements	HEA;HEP	Orientation	S > T2.2 > C0.9
Contrast		Rotation	0.00 deg
MTC	Off	F >> H	256 mm
Magn. preparation	None	A >> P	256 mm
Fat suppr.	None	R >> L	160 mm
Water suppr.	None	Physio	
Restore magn.	Off	1st Signal/Mode	None
Reconstruction	Magnitude	Dark blood	Off
Measurements	1	Resp. control	Off
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	99 %	Std-Dev-Cor	Off
Slice resolution	100 %	Std-Dev-Tra	Off
Phase partial Fourier	Allowed	Std-Dev-Time	Off
Slice partial Fourier	Off	MIP-Sag	Off
Interpolation	Off	MIP-Cor	Off
PAT mode	GRAPPA	MIP-Tra	Off
Accel. factor PE	2	MIP-Time	Off
Ref. lines PE	24	Save original images	On
Accel. factor 3D	1	Sequence	
Matrix Coil Mode	Auto (Triple)	Introduction	On
Reference scan mode	Integrated	Dimension	3D
Image Filter	Off	Bandwidth	574 Hz/Px
Distortion Corr.	Off	Flow comp.	No
Unfiltered images	Off	Allowed delay	0 s
Prescan Normalize	On	Echo spacing	3.78 ms

SIEMENS MAGNETOM TrioTim syngo MR B17

Adiabatic-mode	Off
Define	Echo trains
Turbo factor	139
Slice turbo factor	2
Echo trains per slice	1
Echo train duration	1017
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\Woodward_DTI_72directions_10b0

TA: 10:05 PAT: 2 Voxel size: 2.5x2.5x2.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Series	Interleaved
Prio Recon	Off	Special sat.	None
Before measurement	System		
After measurement	On	Body	Off
Load to viewer	Off	HEP	On
Inline movie	On	HEA	On
Auto store images	Off	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic segments	Off	SP8	Off
Auto open inline display	Off	SP6	Off
Start measurement without further preparation	On	SP3	Off
Wait for user to start	On	SP1	Off
Start measurements	single	SP7	Off
		SP5	Off
Routine	Positioning mode		
Slice group 1	48	Table position	FIX
Slices	0 %	Table position	H
Dist. factor	Isocenter	MSMA	0 mm
Position	T > C21.1 > S0.2	Sagittal	S - C - T
Orientation	A >> P	Coronal	R >> L
Phase enc. dir.	0.00 deg	Transversal	A >> P
Rotation	0 %	Coil Combine Mode	F >> H
Phase oversampling	0 %	AutoAlign	Adaptive Combine
FoV read	230 mm	Auto Coil Select	---
FoV phase	100.0 %		Default
Slice thickness	2.5 mm	Shim mode	Standard
TR	7100 ms	Adjust with body coil	Off
TE	112 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	Raw filter	Adjustment Tolerance	Auto
Coil elements	HEA;HEP	Adjust volume	
		Position	Isocenter
Contrast		Orientation	T > C21.1 > S0.2
MTC	Off	Rotation	0.00 deg
Magn. preparation	None	R >> L	230 mm
Fat suppr.	Fat sat.	A >> P	230 mm
		F >> H	120 mm
Averaging mode	Long term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Delay in TR	0 ms	Resp. control	Off
Multiple series	Off		
Resolution	Diff		
Base resolution	92	Diffusion mode	Free
Phase resolution	100 %	Diff. weightings	1
Phase partial Fourier	6/8	b-value	3000 s/mm ²
Interpolation	Off	Diff. weighted images	On
		Trace weighted images	On
PAT mode	GRAPPA	Average ADC maps	On
Accel. factor PE	2	Individual ADC maps	On
Ref. lines PE	24	FA maps	On
Matrix Coil Mode	Auto (Triple)	Mosaic	On
Reference scan mode	Separate	Tensor	On
		Noise level	20
Distortion Corr.	Off	Diff. directions	82
Prescan Normalize	Off		
Raw filter	On	Sequence	
Intensity	Weak	Introduction	On
Slope	25	Bandwidth	1430 Hz/Px
Elliptical filter	Off	Free echo spacing	Off
Hamming	Off	Echo spacing	0.78 ms
Geometry	EPI factor		
Multi-slice mode	Interleaved		92

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| RF pulse type
Gradient mode

Normal
Fast

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\USER\Nage\K-Study\Nigg-Fair Studies 10.10\T1Anatomical-2

TA: 9:14 PAT: Off Voxel size: 1.0x1.0x1.1 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties		Raw filter	Off
Prio Recon		Elliptical filter	Off
Before measurement		Geometry	
After measurement		Multi-slice mode	Single shot
Load to viewer		Series	Interleaved
Inline movie		System	
Auto store images		Body	Off
Load to stamp segments		HEP	On
Load images to graphic segments		HEA	On
Auto open inline display		SP4	Off
Start measurement without further preparation		SP2	Off
Wait for user to start		SP8	Off
Start measurements		SP6	Off
single		SP3	Off
Routine		SP1	Off
Slab group 1		SP7	Off
Slabs		SP5	Off
Dist. factor		Positioning mode	FIX
Position		Table position	H
Orientation		Table position	0 mm
Phase enc. dir.		MSMA	S - C - T
Rotation		Sagittal	R >> L
Phase oversampling		Coronal	A >> P
Slice oversampling		Transversal	F >> H
Slices per slab		Save uncombined	Off
FoV read		Coil Combine Mode	Sum of Squares
FoV phase		AutoAlign	---
Slice thickness		Auto Coil Select	Default
TR		Shim mode	Standard
TE		Adjust with body coil	Off
Averages		Confirm freq. adjustment	Off
Concatenations		Assume Silicone	Off
Filter		? Ref. amplitude 1H	0.000 V
Coil elements		Adjustment Tolerance	Auto
Contrast		Adjust volume	
Magn. preparation		Position	L1.2 A34.7 F18.1
TI		Orientation	Sagittal
Flip angle		Rotation	0.00 deg
Fat suppr.		F >> H	256 mm
Water suppr.		A >> P	240 mm
		R >> L	176 mm
Averaging mode		Physio	
Reconstruction		1st Signal/Mode	None
Measurements		Dark blood	Off
Multiple series		Resp. control	Off
Resolution		Inline	
Base resolution		Subtract	Off
Phase resolution		Std-Dev-Sag	Off
Slice resolution		Std-Dev-Cor	Off
Phase partial Fourier		Std-Dev-Tra	Off
Slice partial Fourier		Std-Dev-Time	Off
Interpolation		MIP-Sag	Off
PAT mode		MIP-Cor	Off
Matrix Coil Mode		MIP-Tra	Off
Image Filter		MIP-Time	Off
Distortion Corr.		Save original images	On
Unfiltered images		Sequence	
Prescan Normalize		Introduction	On
Normalize		Dimension	3D
B1 filter			

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Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	180 Hz/Px
Flow comp.	No
Echo spacing	8.2 ms
<hr/>	
RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\DTI-Old-20Dir-4Avg

TA: 15:04 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Special sat.	None																																																																																								
Prio Recon	Off	System																																																																																									
Before measurement		Body	Off																																																																																								
After measurement		HEP	On																																																																																								
Load to viewer	On	HEA	On																																																																																								
Inline movie	Off	SP4	Off																																																																																								
Auto store images	On	SP2	Off																																																																																								
Load to stamp segments	Off	SP8	Off																																																																																								
Load images to graphic segments	Off	SP6	Off																																																																																								
Auto open inline display	Off	SP3	Off																																																																																								
Start measurement without further preparation	On	SP1	Off																																																																																								
Wait for user to start	Off	SP7	Off																																																																																								
Start measurements	single	SP5	Off																																																																																								
Routine		Positioning mode	FIX																																																																																								
Slice group 1		Table position	H																																																																																								
Slices	72	Table position	0 mm																																																																																								
Dist. factor	0 %	MSMA	S - C - T																																																																																								
Position	Isocenter	Sagittal	R >> L																																																																																								
Orientation	T > C-6.0	Coronal	A >> P																																																																																								
Phase enc. dir.	A >> P	Transversal	F >> H																																																																																								
Rotation	0.00 deg	Coil Combine Mode	Sum of Squares																																																																																								
Phase oversampling	0 %	AutoAlign	---																																																																																								
FoV read	240 mm	Auto Coil Select	Default																																																																																								
FoV phase	100.0 %	Shim mode	Standard																																																																																								
Slice thickness	2 mm	Adjust with body coil	Off																																																																																								
TR	9500 ms	Confirm freq. adjustment	Off																																																																																								
TE	95 ms	Assume Silicone	Off																																																																																								
Averages	4	? Ref. amplitude 1H	0.000 V																																																																																								
Concatenations	1	Adjustment Tolerance	Auto																																																																																								
Filter	None	Adjust volume																																																																																									
Coil elements	HEA;HEP	Position	Isocenter																																																																																								
Contrast		Orientation	T > C-6.0																																																																																								
MTC	Off	Rotation	0.00 deg																																																																																								
Magn. preparation	None	R >> L	240 mm																																																																																								
Fat suppr.	Fat sat.	A >> P	240 mm																																																																																								
Fat sat.		F >> H	144 mm																																																																																								
Averaging mode	Long term	Physio																																																																																									
Reconstruction	Magnitude	Delay in TR	0 ms	1st Signal/Mode	None	Multiple series	Off	Resp. control	Off	Resolution		Diff		Base resolution	120	Diffusion mode	Free	Phase resolution	100 %	Diff. weightings	1	Phase partial Fourier	6/8	b-value	1000 s/mm ²	Interpolation	Off	Diff. weighted images	On	PAT mode	GRAPPA	Trace weighted images	On	Accel. factor PE	2	Average ADC maps	On	Ref. lines PE	36	Individual ADC maps	On	Matrix Coil Mode	Auto (Triple)	FA maps	On	Reference scan mode	Separate	Mosaic	On	Distortion Corr.	Off	Tensor	On	Prescan Normalize	Off	Noise level	40	Raw filter	On	Diff. directions	23	Elliptical filter	Off	Sequence		Hamming	Off	Geometry		Introduction	On	Multi-slice mode	Interleaved	Bandwidth	1666 Hz/Px	Series	Interleaved	Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	120			RF pulse type	Normal
Delay in TR	0 ms	1st Signal/Mode	None																																																																																								
Multiple series	Off	Resp. control	Off																																																																																								
Resolution		Diff																																																																																									
Base resolution	120	Diffusion mode	Free																																																																																								
Phase resolution	100 %	Diff. weightings	1																																																																																								
Phase partial Fourier	6/8	b-value	1000 s/mm ²																																																																																								
Interpolation	Off	Diff. weighted images	On																																																																																								
PAT mode	GRAPPA	Trace weighted images	On																																																																																								
Accel. factor PE	2	Average ADC maps	On																																																																																								
Ref. lines PE	36	Individual ADC maps	On																																																																																								
Matrix Coil Mode	Auto (Triple)	FA maps	On																																																																																								
Reference scan mode	Separate	Mosaic	On																																																																																								
Distortion Corr.	Off	Tensor	On																																																																																								
Prescan Normalize	Off	Noise level	40																																																																																								
Raw filter	On	Diff. directions	23																																																																																								
Elliptical filter	Off	Sequence																																																																																									
Hamming	Off	Geometry		Introduction	On	Multi-slice mode	Interleaved	Bandwidth	1666 Hz/Px	Series	Interleaved	Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	120			RF pulse type	Normal																																																																		
Geometry		Introduction	On																																																																																								
Multi-slice mode	Interleaved	Bandwidth	1666 Hz/Px																																																																																								
Series	Interleaved	Free echo spacing	Off																																																																																								
		Echo spacing	0.69 ms																																																																																								
		EPI factor	120																																																																																								
		RF pulse type	Normal																																																																																								

SIEMENS MAGNETOM TrioTim syngo MR B17

| Gradient mode

Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nage\K-Study\Nigg-Fair Studies 10.10\DTI_30directions_5b0_2avg-NEW-10.10

TA: 11:24 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Special sat.	None																																																																																								
Prio Recon	Off	System																																																																																									
Before measurement		Body	Off																																																																																								
After measurement		HEP	On																																																																																								
Load to viewer	On	HEA	On																																																																																								
Inline movie	Off	SP4	Off																																																																																								
Auto store images	On	SP2	Off																																																																																								
Load to stamp segments	Off	SP8	Off																																																																																								
Load images to graphic segments	Off	SP6	Off																																																																																								
Auto open inline display	Off	SP3	Off																																																																																								
Start measurement without further preparation	On	SP1	Off																																																																																								
Wait for user to start	On	SP7	Off																																																																																								
Start measurements	single	SP5	Off																																																																																								
Routine		Positioning mode	FIX																																																																																								
Slice group 1		Table position	H																																																																																								
Slices	72	Table position	0 mm																																																																																								
Dist. factor	0 %	MSMA	S - C - T																																																																																								
Position	Isocenter	Sagittal	R >> L																																																																																								
Orientation	T > C-6.0	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	256 mm	Auto Coil Select	Default																																																																																								
FoV phase	100.0 %	Shim mode	Standard																																																																																								
Slice thickness	2 mm	Adjust with body coil	Off																																																																																								
TR	9100 ms	Confirm freq. adjustment	Off																																																																																								
TE	88 ms	Assume Silicone	Off																																																																																								
Averages	2	? Ref. amplitude 1H	0.000 V																																																																																								
Concatenations	1	Adjustment Tolerance	Auto																																																																																								
Filter	None	Adjust volume																																																																																									
Coil elements	HEA;HEP	Position	Isocenter																																																																																								
Contrast		Orientation	T > C-6.0																																																																																								
MTC	Off	Rotation	0.00 deg																																																																																								
Magn. preparation	None	R >> L	256 mm																																																																																								
Fat suppr.	Fat sat.	A >> P	256 mm																																																																																								
Fat sat.		F >> H	144 mm																																																																																								
Averaging mode	Long term	Physio																																																																																									
Reconstruction	Magnitude	Delay in TR	0 ms	1st Signal/Mode	None	Multiple series	Off	Resp. control	Off	Resolution		Diff		Base resolution	128	Diffusion mode	Free	Phase resolution	100 %	Diff. weightings	2	Phase partial Fourier	6/8	b-value 1	0 s/mm ²	Interpolation	Off	b-value 2	1000 s/mm ²	PAT mode	GRAPPA	Diff. weighted images	On	Accel. factor PE	2	Trace weighted images	On	Ref. lines PE	32	Average ADC maps	On	Matrix Coil Mode	Auto (Triple)	Individual ADC maps	On	Reference scan mode	Separate	FA maps	On	Distortion Corr.	Off	Mosaic	On	Prescan Normalize	Off	Tensor	On	Raw filter	On	Noise level	40	Elliptical filter	Off	Diff. directions	35	Hamming	Off	Sequence		Geometry		Multi-slice mode	Interleaved	Introduction	On	Series	Interleaved	Bandwidth	1698 Hz/Px			Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	128
Delay in TR	0 ms	1st Signal/Mode	None																																																																																								
Multiple series	Off	Resp. control	Off																																																																																								
Resolution		Diff																																																																																									
Base resolution	128	Diffusion mode	Free																																																																																								
Phase resolution	100 %	Diff. weightings	2																																																																																								
Phase partial Fourier	6/8	b-value 1	0 s/mm ²																																																																																								
Interpolation	Off	b-value 2	1000 s/mm ²																																																																																								
PAT mode	GRAPPA	Diff. weighted images	On																																																																																								
Accel. factor PE	2	Trace weighted images	On																																																																																								
Ref. lines PE	32	Average ADC maps	On																																																																																								
Matrix Coil Mode	Auto (Triple)	Individual ADC maps	On																																																																																								
Reference scan mode	Separate	FA maps	On																																																																																								
Distortion Corr.	Off	Mosaic	On																																																																																								
Prescan Normalize	Off	Tensor	On																																																																																								
Raw filter	On	Noise level	40																																																																																								
Elliptical filter	Off	Diff. directions	35																																																																																								
Hamming	Off	Sequence																																																																																									
Geometry		Multi-slice mode	Interleaved	Introduction	On	Series	Interleaved	Bandwidth	1698 Hz/Px			Free echo spacing	Off			Echo spacing	0.69 ms			EPI factor	128																																																																						
Multi-slice mode	Interleaved	Introduction	On																																																																																								
Series	Interleaved	Bandwidth	1698 Hz/Px																																																																																								
		Free echo spacing	Off																																																																																								
		Echo spacing	0.69 ms																																																																																								
		EPI factor	128																																																																																								

SIEMENS MAGNETOM TrioTim syngo MR B17

| RF pulse type
Gradient mode

Normal
Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nage\K-Study\Nigg-Fair Studies 10.10\T1 MPRAGE test

TA: 4:44 PAT: 2 Voxel size: 0.9x0.9x3.0 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties		Unfiltered images	Off
Prio Recon		Prescan Normalize	On
Before measurement		Normalize	Off
After measurement		B1 filter	Off
Load to viewer		Raw filter	Off
Inline movie		Elliptical filter	Off
Auto store images		Geometry	
Load to stamp segments		Multi-slice mode	Single shot
Load images to graphic segments		Series	Interleaved
Auto open inline display		System	
Start measurement without further preparation		Body	Off
Wait for user to start		HEP	On
Start measurements		HEA	On
Routine		SP4	Off
Slab group 1		SP2	Off
Slabs		SP8	Off
Dist. factor		SP6	Off
Position		SP3	Off
Orientation		SP1	Off
Phase enc. dir.		SP7	Off
Rotation		SP5	Off
Phase oversampling		Positioning mode	FIX
Slice oversampling		Table position	H
Slices per slab		Table position	0 mm
FoV read		MSMA	S - C - T
FoV phase		Sagittal	R >> L
Slice thickness		Coronal	A >> P
TR		Transversal	F >> H
TE		Save uncombined	Off
Averages		Coil Combine Mode	Sum of Squares
Concatenations		AutoAlign	---
Filter		Auto Coil Select	Default
Coil elements		Shim mode	Standard
Contrast		Adjust with body coil	Off
Magn. preparation		Confirm freq. adjustment	Off
TI		Assume Silicone	Off
Flip angle		? Ref. amplitude 1H	0.000 V
Fat suppr.		Adjustment Tolerance	Auto
Water suppr.		Adjust volume	
Averaging mode		Position	L1.2 A34.7 F18.1
Reconstruction		Orientation	Sagittal
Measurements		Rotation	0.00 deg
Multiple series		F >> H	240 mm
Resolution		A >> P	210 mm
Base resolution		R >> L	288 mm
Phase resolution		Physio	
Slice resolution		1st Signal/Mode	None
Phase partial Fourier		Dark blood	Off
Slice partial Fourier		Resp. control	Off
Interpolation		Inline	
PAT mode		Subtract	Off
Accel. factor PE		Std-Dev-Sag	Off
Ref. lines PE		Std-Dev-Cor	Off
Accel. factor 3D		Std-Dev-Tra	Off
Matrix Coil Mode		Std-Dev-Time	Off
Reference scan mode		MIP-Sag	Off
Image Filter		MIP-Cor	Off
Distortion Corr.		MIP-Tra	Off
		MIP-Time	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

| Save original images On

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	180 Hz/Px
Flow comp.	No
Echo spacing	8.3 ms
RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\REST_10min

TA: 10:07 PAT: Off Voxel size: 3.8x3.8x3.8 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		Positioning mode	FIX
Load to viewer	On	Table position	H
Inline movie	Off	Table position	0 mm
Auto store images	On	MSMA	S - C - T
Load to stamp segments	Off	Sagittal	R >> L
Load images to graphic segments	Off	Coronal	A >> P
Auto open inline display	On	Transversal	F >> H
Start measurement without further preparation	On	Coil Combine Mode	Sum of Squares
Wait for user to start	On	AutoAlign	---
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	36	Confirm freq. adjustment	Off
Dist. factor	0 %	Assume Silicone	Off
Position	L0.0 A23.1 H14.9	? Ref. amplitude 1H	0.000 V
Orientation	T > C-6.1	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	L0.0 A23.1 H14.9
Phase oversampling	0 %	Orientation	T > C-6.1
FoV read	240 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	240 mm
Slice thickness	3.8 mm	A >> P	240 mm
TR	2500 ms	F >> H	137 mm
TE	30 ms		
Averages	1		
Concatenations	1		
Filter	None		
Coil elements	HEA;HEP		
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	90 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	240	Ignore after transition	0
Delay in TR	0 ms	Model transition states	Off
Multiple series	Off	Temp. highpass filter	Off
Resolution		Threshold	4.00
Base resolution	64	Paradigm size	30
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
PAT mode	None	Meas[4]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[5]	Baseline
Distortion Corr.	Off	Meas[6]	Baseline
Prescan Normalize	Off	Meas[7]	Baseline
Raw filter	On	Meas[8]	Baseline
Elliptical filter	Off	Meas[9]	Baseline
Hamming	Off	Meas[10]	Baseline
Geometry		Meas[11]	Active
Multi-slice mode	Interleaved	Meas[12]	Active
Series	Interleaved	Meas[13]	Active
Special sat.	None	Meas[14]	Active
System		Meas[15]	Active
		Meas[16]	Active
		Meas[17]	Active
		Meas[18]	Active
		Meas[19]	Active
		Meas[20]	Active
		Meas[21]	Active
		Meas[22]	Active
		Meas[23]	Active
		Meas[24]	Active
		Meas[25]	Active

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Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
-----	-----
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

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\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\REST_3min

TA: 3:32 PAT: Off Voxel size: 3.8x3.8x3.8 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		Positioning mode	FIX
Load to viewer	On	Table position	H
Inline movie	Off	Table position	0 mm
Auto store images	On	MSMA	S - C - T
Load to stamp segments	Off	Sagittal	R >> L
Load images to graphic segments	Off	Coronal	A >> P
Auto open inline display	On	Transversal	F >> H
Start measurement without further preparation	On	Coil Combine Mode	Sum of Squares
Wait for user to start	On	AutoAlign	---
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	36	Confirm freq. adjustment	Off
Dist. factor	0 %	Assume Silicone	Off
Position	L0.0 A23.1 H14.9	? Ref. amplitude 1H	0.000 V
Orientation	T > C-6.1	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	L0.0 A23.1 H14.9
Phase oversampling	0 %	Orientation	T > C-6.1
FoV read	240 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	240 mm
Slice thickness	3.8 mm	A >> P	240 mm
TR	2500 ms	F >> H	137 mm
TE	30 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1	BOLD	
Filter	None	GLM Statistics	Off
Coil elements	HEA;HEP	Dynamic t-maps	Off
Contrast		Starting ignore meas	0
MTC	Off	Ignore after transition	0
Flip angle	90 deg	Model transition states	Off
Fat suppr.	Fat sat.	Temp. highpass filter	Off
Averaging mode		Threshold	4.00
Reconstruction	Long term	Paradigm size	30
Measurements	Magnitude	Meas[1]	Baseline
Delay in TR	82	Meas[2]	Baseline
Multiple series	0 ms	Meas[3]	Baseline
Resolution		Meas[4]	Baseline
Base resolution	64	Meas[5]	Baseline
Phase resolution	100 %	Meas[6]	Baseline
Phase partial Fourier	Off	Meas[7]	Baseline
Interpolation	Off	Meas[8]	Baseline
PAT mode		Meas[9]	Baseline
Matrix Coil Mode	None	Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Meas[13]	Active
Elliptical filter	Off	Meas[14]	Active
Hamming	Off	Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
Series	Interleaved	Meas[18]	Active
Special sat.	None	Meas[19]	Active
System		Meas[20]	Active
		Meas[21]	Active
		Meas[22]	Active
		Meas[23]	Active
		Meas[24]	Active
		Meas[25]	Active

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Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
-----	-----
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Nagel\K-Study\Nigg-Fair Studies 10.10\T1 SAGITTAL

TA: 1:29 PAT: Off Voxel size: 0.9x0.9x4.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties		Elliptical filter Mode	On Inplane
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode Series	Interleaved Interleaved
After measurement		Saturation mode Special sat.	Standard None
Load to viewer	On	Tim CT mode	Off
Inline movie	Off	System	
Auto store images	On	Body	Off
Load to stamp segments	On	HEP	On
Load images to graphic segments	On	HEA	On
Auto open inline display	Off	SP4	Off
Start measurement without further preparation	On	SP2	Off
Wait for user to start	On	SP8	Off
Start measurements	single	SP6	Off
Routine		SP3	Off
Slice group 1		SP1	Off
Slices	20	SP7	Off
Dist. factor	10 %	SP5	Off
Position	Isocenter	Positioning mode	ISO
Orientation	Sagittal	Table position	H
Phase enc. dir.	A >> P	Table position	0 mm
Rotation	0.00 deg	MSMA	T - C - S
Phase oversampling	13 %	Sagittal	L >> R
FoV read	220 mm	Coronal	P >> A
FoV phase	100.0 %	Transversal	F >> H
Slice thickness	4.0 mm	Save uncombined	Off
TR	300.0 ms	Coil Combine Mode	Adaptive Combine
TE	2.46 ms	AutoAlign	---
Averages	1	Auto Coil Select	Default
Concatenations	1	Contrast	
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	MTC	Standard
Coil elements	HEA;HEP	Magn. preparation	Off
Contrast		Flip angle	Off
MTC	Off	Fat suppr.	Off
Magn. preparation	None	Water suppr.	Off
Flip angle	90 deg	Averaging mode	Short term
Fat suppr.	None	Reconstruction	Magnitude
Water suppr.	None	Measurements	1
Averaging mode		Multiple series	Each measurement
Reconstruction		Resolution	
Measurements		Base resolution	256
Multiple series		Phase resolution	100 %
Contrast		Phase partial Fourier	Off
MTC		Interpolation	Off
Magn. preparation		PAT mode	None
Flip angle		Matrix Coil Mode	Auto (CP)
Fat suppr.		Image Filter	Off
Water suppr.		Distortion Corr.	On
Averaging mode		Mode	2D
Reconstruction		Unfiltered images	Off
Measurements		Unfiltered images	Off
Multiple series		Prescan Normalize	On
Contrast		Normalize	Off
MTC		B1 filter	Off
Magn. preparation		Raw filter	Off
Flip angle		Properties	
Fat suppr.		Prio Recon	Off
Water suppr.		Before measurement	
Averaging mode		After measurement	
Reconstruction		Load to viewer	On
Measurements		Inline movie	Off
Multiple series		Auto store images	On
Contrast		Load to stamp segments	On
MTC		Load images to graphic segments	On
Magn. preparation		Auto open inline display	Off
Flip angle		Start measurement without further preparation	On
Fat suppr.		Wait for user to start	On
Water suppr.		Start measurements	single
Routine		System	
Slice group 1		Body	Off
Slices	20	HEP	On
Dist. factor	10 %	HEA	On
Position	Isocenter	SP4	Off
Orientation	Sagittal	SP2	Off
Phase enc. dir.	A >> P	SP8	Off
Rotation	0.00 deg	SP6	Off
Phase oversampling	13 %	SP3	Off
FoV read	220 mm	SP1	Off
FoV phase	100.0 %	SP7	Off
Slice thickness	4.0 mm	SP5	Off
TR	300.0 ms	Positioning mode	ISO
TE	2.46 ms	Table position	H
Averages	1	Table position	0 mm
Concatenations	1	MSMA	T - C - S
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Sagittal	L >> R
Coil elements	HEA;HEP	Coronal	P >> A
Contrast		Transversal	F >> H
MTC		Save uncombined	Off
Magn. preparation		Coil Combine Mode	Adaptive Combine
Flip angle		AutoAlign	---
Fat suppr.		Auto Coil Select	Default
Water suppr.		Shim mode	Standard
Averaging mode		Adjust with body coil	Off
Reconstruction		Confirm freq. adjustment	Off
Measurements		Assume Silicone	Off
Multiple series		? Ref. amplitude 1H	0.000 V
Contrast		Adjustment Tolerance	Auto
MTC		Adjust volume	
Magn. preparation		Position	Isocenter
Flip angle		Orientation	Sagittal
Fat suppr.		Rotation	0.00 deg
Water suppr.		F >> H	220 mm
Averaging mode		A >> P	220 mm
Reconstruction		R >> L	88 mm
Measurements		Physio	
Multiple series		1st Signal/Mode	None
Contrast		Segments	1
MTC		Tagging	None
Magn. preparation		Dark blood	Off
Flip angle		Resp. control	Off
Fat suppr.		Inline	
Water suppr.		Subtract	Off
Averaging mode		Liver registration	Off
Reconstruction		Std-Dev-Sag	Off
Measurements		Std-Dev-Cor	Off
Multiple series		Std-Dev-Tra	Off
Contrast		Std-Dev-Time	Off
MTC		MIP-Sag	Off
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
Multiple series			
Contrast			
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Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
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Multiple series			
Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			
Averaging mode			
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Fat suppr.			
Water suppr.			
Averaging mode			
Reconstruction			
Measurements			
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Contrast			
MTC			
Magn. preparation			
Flip angle			
Fat suppr.			
Water suppr.			

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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
Sequence	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	30 s
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

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Nagel	K-Study	Nigg-Fair Studies 10.10 localizer T1Anatomical-1 REST1 REST2 REST3 Diffusion FM DTI_30directions_5b0_3avg Capture Hardi & T2 if time t2_spc_1mm_p2 Woodward_DTI_72directions_10b0 End of Normal Scan and Hardi T1Anatomical-2 DTI-Old-20Dir-4Avg DTI_30directions_5b0_2avg-NEW-10.10 T1 MPRAGE test REST_10min REST_3min Bill's new series T1 SAGITTAL
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