

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\mp2rage_cor_500iso_p2_944

TA: 12:03 PAT: 2 Voxel size: 0.5×0.5×0.5 mm Rel. SNR: 1.00 USER: tfl_wip944_b17uhf

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	Off
Start measurements	single

Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

Table position	H
Table position	0 mm
Inline Composing	Off

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P6.5 H13.1
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	25.0 %
Slices per slab	128
FoV read	128 mm
FoV phase	78.1 %
Slice thickness	0.50 mm
TR	6500 ms
TE	3.88 ms
Averages	1
Concatenations	1
Filter	Raw filter
Coil elements	E1,2

Contrast

Magn. preparation	Non-sel. IR
TI 1	800 ms
TI 2	2700 ms
Flip angle 1	4 deg
Flip angle 2	5 deg
Fat suppr.	None
Water suppr.	None
2nd Inversion Contrast	On

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

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Reference scan mode	Integrated

Image Filter	Off

System

E1	On
E2	On

Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default

Shim mode	Tune up
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	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None

Dark blood	Off

Resp. control	Off

Composing

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	150 Hz/Px
Flow comp.	No
Echo spacing	9.4 ms

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

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FFT Scale Factor	100 %
LIN/PAR Swap	Off
Ext. INV Pulse	On
Flip Angle	500
Uniform Image	On
Head Mask on UNI	Off
T1 Map	On
Complex Div. Image	Off
Denoise Weighting	80
FLAWS	Off

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\spc_T2_cor_500iso_p2

TA: 7:34 PAT: 2 Voxel size: 0.5×0.5×0.5 mm Rel. SNR: 1.00 USER: tse_vfl_WIP692

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	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Position	R0.5 A36.9 F30.2
Orientation	C > T-25.6
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	12.5 %
Slices per slab	128
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	4000 ms
TE	303 ms
Averages	2.0
Concatenations	1
Filter	Raw filter
Coil elements	E1,2

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Geometry

Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off

System

E1	On
E2	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
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	R0.5 A36.9 F30.2
Orientation	C > T-25.6
Rotation	0.00 deg
F >> H	128 mm
R >> L	128 mm
A >> P	64 mm

Physio

1st Signal/Mode	None
Dark blood	Off
Resp. control	Off

Inline

Subtract	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

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	501 Hz/Px
Flow comp.	No
Allowed delay	0 s

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Echo spacing	4.08 ms
Adiabatic-mode	Off
Turbo factor	300
Echo train duration	898
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
Flip angle mode	T2 var
Reordering Mode	LINEAR
Free Discarded Echoes	Off
Simulate T1	1500
Simulate T2	55
Which Evolution Scheme	2
Inline MPR	Off
RF-Dur. LowSAR-Mode	800

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\t2_tse_cor_256

TA: 2:32

PAT: 2

Voxel size: 0.5×0.5×1.0 mm

Rel. SNR: 1.00

USER: tse_UHF_WIP729E

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	Off
Start measurements	single

Routine

Slice group 1	
Slices	42
Dist. factor	10 %
Position	L0.0 P0.0 F18.2
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	1.0 mm
TR	7500 ms
TE	90 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	E1,2

Contrast

MTC	Off
Magn. preparation	None
Flip angle	120 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	31
Reference scan mode	Integrated
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
Table position	H
Table position	0 mm
Inline Composing	Off

System

E1	On
E2	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
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	L0.0 P0.0 F18.2
Orientation	Coronal
Rotation	0.00 deg
F >> H	128 mm
R >> L	128 mm
A >> P	47 mm

Physio

1st Signal/Mode	None
Dark blood	Off

Inline

Subtract	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

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	219 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	12.9 ms

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Define	Turbo factor
Turbo factor	8
Echo trains per slice	18
RF pulse type	Low SAR
Gradient mode	Fast
Equal Dur. Excit.+Refoc.	Off
Advanced Options	On
VERSE	Off
Duration Excit. RF	5000 [us]
Duration Refoc. RF	6000 [us]
Grad Reversal	Off
FFT scale factor	0.60
Fat/Water CSD	2.6 [mm]
Refocussed Fat	49 [%]

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\gre_field_mapping

TA: 1:07

Voxel size: 2.0x2.0x5.0 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	Off
Start measurements	single

Routine

Slice group 1	
Slices	13
Dist. factor	10 %
Position	R0.5 A45.6 F10.2
Orientation	Coronal
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	500.0 ms
TE 1	4.08 ms
TE 2	5.1 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	

Contrast

MTC	Off
Flip angle	30 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
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
Table position	H

Table position	0 mm
Inline Composing	Off

System

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
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	R0.5 A45.6 F10.2
Orientation	Coronal
Rotation	90.00 deg
R >> L	128 mm
F >> H	128 mm
A >> P	71 mm

Composing

Sequence

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	250 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\t2_tse_cor_320

TA: 3:02 PAT: 2 Voxel size: 0.4×0.4×1.0 mm Rel. SNR: 1.00 USER: tse_UHF_WIP729E

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	Off
Start measurements	single

Routine

Slice group 1	
Slices	52
Dist. factor	10 %
Position	L0.0 P0.0 F18.2
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	1.0 mm
TR	7500 ms
TE	80 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	E1,2

Contrast

MTC	Off
Magn. preparation	None
Flip angle	120 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	31
Reference scan mode	Integrated
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
Table position	H
Table position	0 mm
Inline Composing	Off

System

E1	On
E2	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	120.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 P0.0 F18.2
Orientation	Coronal
Rotation	0.00 deg
F >> H	128 mm
R >> L	128 mm
A >> P	58 mm

Physio

1st Signal/Mode	None
Dark blood	Off

Inline

Subtract	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

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	220 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	13.3 ms

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Define	Turbo factor
Turbo factor	8
Echo trains per slice	22
RF pulse type	Low SAR
Gradient mode	Fast
Equal Dur. Excit.+Refoc.	Off
Advanced Options	On
VERSE	Off
Duration Excit. RF	5000 [us]
Duration Refoc. RF	6000 [us]
Grad Reversal	Off
FFT scale factor	0.60
Fat/Water CSD	2.6 [mm]
Refocussed Fat	49 [%]

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\mbep2d_bold_mb2_p2_rs

TA: 10:27 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_bold

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	Off
Start measurements	single

Routine

Slice group 1	
Slices	42
Dist. factor	10 %
Position	R0.5 A45.6 F10.2
Orientation	Coronal
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	96 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	1000 ms
TE	18.0 ms
Multi-band accel. factor	2
Filter	Raw filter
Coil elements	E1,2

Contrast

MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	600
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	56
Reference scan mode	GRE
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
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Series

Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off

System

E1	On
E2	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	R0.5 A45.6 F10.2
Orientation	Coronal
Rotation	90.00 deg
R >> L	96 mm
F >> H	96 mm
A >> P	47 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Contrasts	1
Bandwidth	1860 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.65 ms
EPI factor	96
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	6000 us
Single-band images	On
MB LeakBlock kernel	Off
MB dual kernel	Off

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MB RF phase scramble	On
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	0.60
GRE iPAT ref. FA	12.0 deg
Physio recording	Legacy
Triggering scheme	Standard

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Everling\NHP\RestingState\ep2d_advdiff_cor_iso_64dirs_F>>H

TA: 8:53 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: ep2d_advdiff_940

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	Off
Start measurements	single

Routine

Slice group 1	
Slices	46
Dist. factor	10 %
Position	R0.5 A36.9 F30.2
Orientation	C > T-25.6
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	104 mm
FoV phase	100.0 %
Slice thickness	1.0 mm
TR	7500 ms
TE	50.0 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	E1,2

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Extra Fat Suppr.	off
Saturation Mode	standard
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	104
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference Scan Mode	multi-shot EPI
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat. None

Table position H
Table position 0 mm
Inline Composing Off

System

E1 On
E2 On
Positioning mode FIX
MSMA S - C - T
Sagittal R >> L
Coronal A >> P
Transversal F >> H
Coil Combine Mode Adaptive Combine
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 R0.5 A36.9 F30.2
Orientation C > T-25.6
Rotation 90.00 deg
R >> L 104 mm
F >> H 104 mm
A >> P 51 mm

Physio

1st Signal/Mode None
PMU Recording off
Resp. control Off

Diff

Diffusion mode MDDW
Diff. weightings 2
b-value 1 0 s/mm²
b-value 2 1000 s/mm²
Diff. weighted images On
Trace weighted images On
Average ADC maps On
Individual ADC maps Off
FA maps On
Mosaic On
Tensor On
Noise level 40
Diff. directions 64

Sequence

Introduction Off
Bandwidth 1924 Hz/Px
Optimization None
Free echo spacing Off
Echo spacing 0.61 ms
EPI factor 104
RF pulse type Low SAR
Gradient mode Fast
Add. FFT Scale Factor 1.0