

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\RESEARCH\TErnst\PING__CORE\localizer

TA: 0:25 PAT: Off Voxel size: 2.2x1.1x10.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load to graphic segments	On
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	3
Dist. factor	20 %
Position	L0.0 A45.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	10.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	9
Filter	Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None

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

Resolution

Base resolution	256
Phase resolution	50 %

Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	On
Unfiltered images	Off
Filter 5	
Elliptical filter	On
Filter 6	
Image Filter	Off
Trajectory	Cartesian
Interpolation	On

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Sequential
Series	Interleaved

Saturation mode	Standard
Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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	Adaptive Combine

Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 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
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Segments	1
Tagging	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	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\RESEARCH\TErnst\PING__CORE\MPRage_160sl_7deg

TA: 8:06 PAT: Off Voxel size: 1.0x1.0x1.2 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load to graphic segments	On
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 A45.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0 %
Slices per slab	160
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	2170 ms
TE	4.33 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1100 ms
Flip angle	7 deg
Fat suppr.	Water excit. fast
Water suppr.	None
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	7/8
Slice partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off

Filter 6

Image Filter	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEA	On
HEP	On

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

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A45.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	256 mm
R >> L	192 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	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	140 Hz/Px
Flow comp.	No

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Echo spacing	10.9 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

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\\USER\RESEARCH\TErnst\PING__CORE\ep2d_diff_B0_NewP-A

TA: 0:21 PAT: Off Voxel size: 2.5x2.5x2.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	68
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	9500 ms
TE	91 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	180.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	170 mm

Physio

1st Signal/Mode	None
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Diff

Diffusion mode	Slice
Diff. weightings	1
b-value	0 s/mm ²
Noise level	40
Diff. directions	1

Sequence

Introduction	On
Bandwidth	1860 Hz/Px
Free echo spacing	Off
Echo spacing	0.69 ms

EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

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\\USER\RESEARCH\TErnst\PING__CORE\ep2d_diff_B0_NewA-P

TA: 0:21 PAT: Off Voxel size: 2.5x2.5x2.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	68
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	9500 ms
TE	91 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	170 mm

Physio

1st Signal/Mode	None
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Diff

Diffusion mode	Slice
Diff. weightings	1
b-value	0 s/mm ²
Noise level	40
Diff. directions	1

Sequence

Introduction	On
Bandwidth	1860 Hz/Px
Free echo spacing	Off
Echo spacing	0.69 ms

EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\RESEARCH\TErnst\PING__CORE\ep2d_diff_30dir_NewA-P

TA: 10:00 PAT: Off Voxel size: 2.5x2.5x2.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	68
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	19000 ms
TE	91 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None

Matrix Coil Mode

Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	170 mm

Physio

1st Signal/Mode	None

Diff

Diffusion mode	MDDW
Diff. weightings	2
b-value 1	0 s/mm ²
b-value 2	1000 s/mm ²
Noise level	40
Diff. directions	30

Sequence

Introduction	On
Bandwidth	1860 Hz/Px
Free echo spacing	Off
Echo spacing	0.69 ms

EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\RESEARCH\TErnst\PING__CORE\Bold Distortion Map P-A

TA: 0:13 PAT: Off Voxel size: 3.8x3.8x3.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	46
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.5 mm
TR	5500 ms
TE	80 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	180.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	161 mm

Physio

1st Signal/Mode	None
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Diff

Diffusion mode	Slice
Diff. weightings	1
b-value	0 s/mm ²
Noise level	40
Diff. directions	1

Sequence

Introduction	On
Bandwidth	2232 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms

EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

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\\USER\RESEARCH\TErnst\PING__CORE\Bold Distortion Map A-P

TA: 0:13 PAT: Off Voxel size: 3.8x3.8x3.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	46
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.5 mm
TR	5500 ms
TE	80 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	161 mm

Physio

1st Signal/Mode	None
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Diff

Diffusion mode	Slice
Diff. weightings	1
b-value	0 s/mm ²
Noise level	40
Diff. directions	1

Sequence

Introduction	On
Bandwidth	2232 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms

EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

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\\USER\RESEARCH\TErnst\PING__CORE\ep2d_bold_A-P

TA: 6:32 PAT: Off Voxel size: 3.8x3.8x3.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	46
Dist. factor	0 %
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.5 mm
TR	3000 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	128
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Triple

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A17.2 F2.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	161 mm

Physio

1st Signal/Mode	None
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BOLD

Threshold	4.00
Window	Growing
Dynamic t-maps	Off
Starting ignore meas	4
Paradigm size	40
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active

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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
Meas[26]	Active
Meas[27]	Active
Meas[28]	Active
Meas[29]	Active
Meas[30]	Active
Meas[31]	Active
Meas[32]	Active
Meas[33]	Active
Meas[34]	Active
Meas[35]	Active
Meas[36]	Active
Meas[37]	Active
Meas[38]	Active
Meas[39]	Active
Meas[40]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Bandwidth	2232 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms

EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\RESEARCH\Ternst\PING__CORE\FLAIR_tra_3_0_p2_w

TA: 2:57 PAT: 2 Voxel size: 1.1x1.1x3.0 mm Rel. SNR: 1.00 SIEMENS: tse

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	44
Dist. factor	0 %
Position	L0.0 A45.0 H0.0
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	80.2 %
Slice thickness	3.0 mm
TR	9750 ms
TE	106 ms
Averages	1
Concatenations	2
Filter	Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	Slice-sel. IR
TI	2500 ms
Flip angle	150 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Water suppr.	None

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

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	On
Unfiltered images	Off
Filter 5	
Elliptical filter	On

Filter 6

Image Filter	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	22
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEA	On
HEP	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	Adaptive Combine

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A45.0 H0.0
Orientation	Transversal
Rotation	90.00 deg
A >> P	220 mm
R >> L	177 mm
F >> H	132 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
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SIEMENS MAGNETOM TrioTim syngo MR B13

Dimension	2D
Compensate T2 decay	Off
Contrasts	1
Bandwidth	208 Hz/Px
Flow comp.	Slice
Allowed delay	10 s
Echo spacing	15.2 ms

Define	Turbo factor
Turbo factor	11
Echo trains per slice	8
RF pulse type	Normal
Gradient mode	Whisper

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\RESEARCH\Ternst\PING__CORE\t2_spc_ns_sag_iso_IPAT2

TA: 3:52 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 SIEMENS: tse_vfl

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Position	R1.4 A2.7 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	3200 ms
TE	447 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	None
Fat sat. mode	Strong
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	6/8
Slice partial Fourier	6/8
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Unfiltered images	Off
Filter 4	
Normalize	Off

Filter 5

Elliptical filter	Off
Filter 6	
Image Filter	Off
Trajectory	Cartesian
Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated

Geometry

Special sat.	None
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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	Adaptive Combine

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	134.107 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R1.4 A2.7 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	256 mm
R >> L	192 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
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SIEMENS MAGNETOM TrioTim syngo MR B13

Dimension	3D
Bandwidth	751 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	3.16 ms

Define	Echo trains
Turbo factor	141
Slice turbo factor	2
Echo trains per slice	1
Echo train duration	888
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var

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				ep2d_diff_B0_NewA-P
				ep2d_diff_30dir_NewA-P
				Bold Distortion Map P-A
				Bold Distortion Map A-P
				ep2d_bold_A-P
				FLAIR_tra_3_0_p2_w
				t2_spc_ns_sag_iso_IPAT2