

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Functional\Dr. Duchesne_CIMAQ\CDIP_Geometric_Phantom_MNI\localizer_12Channel

TA: 8.1 s PAT: 2 Voxel size: 1.1x1.0x7.0 mm Rel. SNR: 1.00 SIEMENS: gre

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	Off
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
TR	8.6 ms
TE	4.00 ms
Averages	2
Concatenations	3
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
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Phase resolution
Phase partial Fourier
Interpolation

PAT mode
Accel. factor PE
Ref. lines PE
Matrix Coil Mode
Reference scan mode

Image Filter
Distortion Corr.
Unfiltered images
Prescan Normalize
Normalize
B1 filter
Raw filter
Elliptical filter
Mode

Geometry

Multi-slice mode
Series
Saturation mode
Special sat.

Tim CT mode

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
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
Segments	1
Dark blood	Off
Resp. control	Off

Inline

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Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
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Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
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Sequence	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
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RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

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\USER\Functional\Dr. Duchesne_CIMAQ\CDIP_Geometric_Phantom_MNI\MPRAGE_ipat2

TA: 5:21 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 SIEMENS: tfl

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L3.6 A32.4 H4.9
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	208
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2300 ms
TE	2.98 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	900 ms
Flip angle	9 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off

Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Multi-slice mode	Single shot
Series	Interleaved

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
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	L3.6 A32.4 H4.9
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	256 mm
R >> L	208 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	Off
Asymmetric echo	Off
Bandwidth	240 Hz/Px
Flow comp.	No

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Echo spacing	7.1 ms
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

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\USER\Functional\Dr. Duchesne_CIMAQ\CDIP_Geometric_Phantom_MNI\PD_T2_1sequence_TOP

TA: 5:17 PAT: 2 Voxel size: 0.9x0.9x3.0 mm Rel. SNR: 1.00 SIEMENS: tse

Properties		Prescan Normalize	On
Prio Recon	Off	Normalize	Off
Before measurement		B1 filter	Off
After measurement		Raw filter	On
Load to viewer	On	Intensity	Weak
Inline movie	Off	Slope	25
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	Geometry	
Load images to graphic segments	On	Multi-slice mode	Interleaved
Auto open inline display	Off	Series	Interleaved
Start measurement without further preparation	On	Special sat.	None
Wait for user to start	On	Tim CT mode	
Start measurements	single	Off	
Routine		System	
Slice group 1		Body	Off
Slices	48	HEP	On
Dist. factor	0 %	HEA	On
Position	L1.2 A30.5 H59.0	Positioning mode	FIX
Orientation	Transversal	Table position	H
Phase enc. dir.	R >> L	Table position	0 mm
Rotation	90.00 deg	MSMA	S - C - T
Phase oversampling	0 %	Sagittal	L >> R
FoV read	240 mm	Coronal	A >> P
FoV phase	100.0 %	Transversal	F >> H
Slice thickness	3.0 mm	Save uncombined	Off
TR	3000 ms	Coil Combine Mode	Adaptive Combine
TE 1	10 ms	AutoAlign	Head > Basis
TE 2	91 ms	Auto Coil Select	Default
Averages	1	Shim mode	Standard
Concatenations	5	Adjust with body coil	Off
Filter	Raw filter, Prescan Normalize	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
TD	0.0 ms	Adjustment Tolerance	Auto
MTC	Off	Adjust volume	
Magn. preparation	None	Position	L1.2 A30.5 H59.0
Flip angle	165 deg	Orientation	Transversal
Fat suppr.	None	Rotation	90.00 deg
Water suppr.	None	A >> P	240 mm
Restore magn.	Off	R >> L	240 mm
		F >> H	144 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Dark blood	Off
Multiple series	Each measurement	Resp. control	Off
Resolution		Inline	
Base resolution	256	Subtract	Off
Phase resolution	100 %	Std-Dev-Sag	Off
Phase partial Fourier	Off	Std-Dev-Cor	Off
Trajectory	Cartesian	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
PAT mode	GRAPPA	MIP-Sag	Off
Accel. factor PE	2	MIP-Cor	Off
Ref. lines PE	24	MIP-Tra	Off
Matrix Coil Mode	Auto (Triple)	MIP-Time	Off
Reference scan mode	Integrated	Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	On
Unfiltered images	Off		

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Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	2
Bandwidth	181 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	10.2 ms
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Define	Turbo factor
Turbo factor	7
Echo trains per slice	20
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Functional\Dr. Duchesne_CIMAQ\CDIP_Geometric_Phantom_MNI\PD_T2_1sequence_BOTTOM

TA: 5:17 PAT: 2 Voxel size: 0.9x0.9x3.0 mm Rel. SNR: 1.00 SIEMENS: tse

Properties		Prescan Normalize	On
Prio Recon	Off	Normalize	Off
Before measurement		B1 filter	Off
After measurement		Raw filter	On
Load to viewer	On	Intensity	Weak
Inline movie	Off	Slope	25
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	Geometry	
Load images to graphic segments	On	Multi-slice mode	Interleaved
Auto open inline display	Off	Series	Interleaved
Start measurement without further preparation	On	Special sat.	None
Wait for user to start	On	Tim CT mode	
Start measurements	single	System	
Routine		Body	Off
Slice group 1		HEP	On
Slices	48	HEA	On
Dist. factor	0 %	Positioning mode	
Position	L1.2 A30.5 F51.0	Table position	FIX
Orientation	Transversal	Table position	H
Phase enc. dir.	R >> L	MSMA	0 mm
Rotation	90.00 deg	Sagittal	S - C - T
Phase oversampling	0 %	Coronal	L >> R
FoV read	240 mm	Transversal	A >> P
FoV phase	100.0 %	Save uncombined	F >> H
Slice thickness	3.0 mm	Coil Combine Mode	Off
TR	3000 ms	AutoAlign	Adaptive Combine
TE 1	10 ms	Auto Coil Select	Head > Basis
TE 2	91 ms	Shim mode	
Averages	1	Adjust with body coil	Default
Concatenations	5	Confirm freq. adjustment	Standard
Filter	Raw filter, Prescan Normalize	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	Off
Contrast		Adjustment Tolerance	0.000 V
TD	0.0 ms	Adjust volume	Auto
MTC	Off	Position	L1.2 A30.5 F51.0
Magn. preparation	None	Orientation	Transversal
Flip angle	165 deg	Rotation	90.00 deg
Fat suppr.	None	A >> P	240 mm
Water suppr.	None	R >> L	240 mm
Restore magn.	Off	F >> H	144 mm
Averaging mode		Physio	
Reconstruction	Short term	1st Signal/Mode	None
Measurements	Magnitude	Dark blood	Off
Multiple series	1	Resp. control	Off
Resolution		Inline	
Base resolution	256	Subtract	Off
Phase resolution	100 %	Std-Dev-Sag	Off
Phase partial Fourier	Off	Std-Dev-Cor	Off
Trajectory	Cartesian	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
PAT mode		MIP-Sag	Off
Accel. factor PE	GRAPPA	MIP-Cor	Off
Ref. lines PE	2	MIP-Tra	Off
Matrix Coil Mode	24	MIP-Time	Off
Reference scan mode	Auto (Triple)	Save original images	On
Image Filter		Sequence	
Distortion Corr.	Off	Introduction	On
Unfiltered images	Off		

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Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	2
Bandwidth	181 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	10.2 ms
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Define	Turbo factor
Turbo factor	7
Echo trains per slice	20
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\Functional\Dr. Duchesne_CIMAQ\CDIP_Geometric_Phantom_MNI\BOLD_Resting_State

TA: 3:39 PAT: 2 Voxel size: 3.5x3.5x3.5 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

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	Positioning mode	FIX	
Load to stamp segments	Off	Table position	H	
Load images to graphic segments	Off	Table position	0 mm	
Auto open inline display	Off	MSMA	S - C - T	
Start measurement without further preparation	On	Sagittal	L >> R	
Wait for user to start	On	Coronal	A >> P	
Start measurements	single	Transversal	F >> H	
Routine	Coil Combine Mode			
Slice group 1	AutoAlign			
Slices	40	Auto Coil Select	Adaptive Combine	
Dist. factor	0 %	Head > Basis	Head > Basis	
Position	L1.2 A32.0 H56.9	Default	Default	
Orientation	Transversal	Shim mode	Standard	
Phase enc. dir.	A >> P	Adjust with body coil	Off	
Rotation	0.00 deg	Confirm freq. adjustment	Off	
Phase oversampling	0 %	Assume Silicone	Off	
FoV read	224 mm	? Ref. amplitude 1H	0.000 V	
FoV phase	100.0 %	Adjustment Tolerance	Auto	
Slice thickness	3.5 mm	Adjust volume		
TR	2110 ms	Position	L1.2 A32.0 H56.9	
TE	30 ms	Orientation	Transversal	
Averages	1	Rotation	0.00 deg	
Concatenations	1	R >> L	224 mm	
Filter	Prescan Normalize	A >> P	224 mm	
Coil elements	HEA;HEP	F >> H	140 mm	
Contrast	Physio			
MTC	Off	1st Signal/Mode	None	
Flip angle	70 deg	BOLD		
Fat suppr.	Fat sat.	GLM Statistics	Off	
Averaging mode	Long term	Dynamic t-maps	Off	
Reconstruction	Magnitude	Starting ignore meas	0	
Measurements	100	Ignore after transition	0	
Delay in TR	0 ms	Model transition states	On	
Multiple series	Off	Temp. highpass filter	On	
Resolution	Threshold			
Base resolution	64	4.00		
Phase resolution	100 %	Paradigm size	20	
Phase partial Fourier	Off	Meas[1]	Baseline	
Interpolation	Off	Meas[2]	Baseline	
PAT mode	GRAPPA	Meas[3]	Baseline	
Accel. factor PE	2	Meas[4]	Baseline	
Ref. lines PE	24	Meas[5]	Baseline	
Matrix Coil Mode	Auto (Triple)	Meas[6]	Baseline	
Reference scan mode	Separate	Meas[7]	Baseline	
Distortion Corr.	Off	Meas[8]	Baseline	
Unfiltered images	Off	Meas[9]	Baseline	
Prescan Normalize	On	Meas[10]	Baseline	
Raw filter	On	Meas[11]	Active	
Elliptical filter	Off	Meas[12]	Active	
Hamming	Off	Meas[13]	Active	
Geometry	Meas[14]			
Multi-slice mode	Interleaved	Meas[15]	Active	
		Meas[16]	Active	
		Meas[17]	Active	
		Meas[18]	Active	
		Meas[19]	Active	
		Meas[20]	Active	
		Motion correction	Off	

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| Spatial filter Off

Sequence

Introduction	On
Bandwidth	2442 Hz/Px
Free echo spacing	Off
Echo spacing	0.49 ms
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EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM TrioTim syngo MR B17

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\USER

Functional	Dr. Duchesne_CIMAQ	CDIP_Geometric_Phantom_MNI -----PHANTOM SCAN----- --Place VitaminE on center of phantom----- localizer_12Channel MPRAGE_ipat2 ~~Overlap must be at least 1.5 blocks~~ PD_T2_1sequence_TOP PD_T2_1sequence_BOTTOM ~~Cover top part of phantom to include tube~~ BOLD_Resting_State
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