SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\UserProtocols\Renzo\V1_template\Quin_pilot_250_V1

TA: 1:05 PAT: Off Voxel size: 1.0×1.0×5.0 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	Off
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	9
Dist. factor	80 %
Position	R4.0 A16.1 F1.1
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	5
Dist. factor	80 %
Position	L0.0 A16.7 H16.4
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	7
Dist. factor	80 %
Position	L0.0 P29.8 F0.6
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	3000 ms
TE	3.17 ms
Averages	1
Concatenations	21
Filter	None
Coil elements	A32

Contrast

TD	0 ms
Magn. preparation	Slice-sel. IR
TI	1100 ms
Flip angle	6 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Sequential
Series	Ascending
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	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	220.000 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

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
Asymmetric echo	Off
Bandwidth	240 Hz/Px
Flow comp.	No
Echo spacing	6.4 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\UserProtocols\Renzo\V1_template\26_slices_assym_TR5s_Version_129_291trs

TA: 0:14 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: VASO_124

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
Dist. factor	50 %
Position	R1.4 A21.2 F2.4
Orientation	T > C-15.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	7.7 %
Slices per slab	26
FoV read	133.0 mm
FoV phase	133.3 %
Slice thickness	0.82 mm
TR	2837.90 ms
TE	25 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	650 ms
TI1	50 ms
TI1s	50 ms
Flip angle	26 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	650.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	162
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	45
Accel. factor 3D	1
Ref. lines 3D	22
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	REF
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	220.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	Isocenter
! Orientation	Transversal
! Rotation	90.00 deg
! A >> P	178 mm
! R >> L	133 mm
! F >> H	22 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1064 Hz/Px
Free echo spacing	Off
Echo spacing	1.04 ms
EPI factor	216

RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Ampl	150
BWDTH	150 3.1kHz
ph.skip 4 Robert (the one)	1
use Ernst angle	Off
Maxwell Correction	Off
log physio files	Off
FFT scale	3.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	2000 us
RF BWTP	25.0
Renzo: Delta TI	75 ms
EFFECTIVE TR	79461 ms
PatPartitions	28
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	162
FlashRef BW	100 Hz/px
FlashRef TE	6500 us
FlashRef FA	5 deg
use CAIPI	Off

\\USER\UserProtocols\Renzo\V1_template\MP2RAGE_slab_0.5x05x0.5_T1_POCS8

TA: 16:14 PAT: 2 Voxel size: 0.5×0.5×0.5 mm Rel. SNR: 1.00 USER: tfl_wip900b17a

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
Dist. factor	50 %
Position	R1.4 A23.8 F4.1
Orientation	T > C-14.0
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	72
FoV read	191 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	6000 ms
TE	4.16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Magn. preparation	Non-sel. IR
TI 1	900 ms
TI 2	2900 ms
Flip angle 1	6 deg
Flip angle 2	7 deg
Fat suppr.	None
Water suppr.	None
2nd Inversion Contrast	On
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	3
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Multiple series	Each measurement

Resolution

Base resolution	380
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	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	277.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L0.0 A28.5 F2.6
! Orientation	T > C-12.8
! Rotation	90.00 deg
! A >> P	178 mm
! R >> L	133 mm
! F >> H	36 mm

Physio

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

Composing

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Echo spacing	8.5 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
FFT Scale Factor	150 %
Morphometry Analysis	Off

FID MoCo Logging	Off
FID Coil Phase Corr.	Off
LIN/PAR Swap	On
Ext. INV Pulse	On
Flip Angle	1400
Phase Filter	0 px
Uniform Image	On
Head Mask on UNI	Off
T1 Map	On
Complex Div. Image	On
Denoise Weighting	150
FLAWS	Off

\\USER\UserProtocols\Renzo\V1_template\not_the_best_VASO_127_26_slices_5sTR

TA: 0:20 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: VASO_127

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
Dist. factor	50 %
Position	R5.2 P0.0 H36.6
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	7.7 %
Slices per slab	26
FoV read	133.0 mm
FoV phase	133.3 %
Slice thickness	0.82 mm
TR	2836.40 ms
TE	25 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	650 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	7
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	650.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	162
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	45
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	REF
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	220.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.2 P0.0 H36.6
Orientation	Transversal
Rotation	90.00 deg
A >> P	178 mm
R >> L	133 mm
F >> H	22 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1064 Hz/Px
Free echo spacing	Off
Echo spacing	1.04 ms
EPI factor	216

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	150
BWDTH	150 3.1kHz
ph.skip 4 Robert (the one)	1
are you Renzo?	Off
Maxwell Correction	Off
log physio files	Off
FFT scale	3.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	2000 us
RF BWTP	25.0
Renzo: Delta TI	75 ms
EFFECTIVE TR	79419 ms
PatPartitions	28
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	162
FlashRef BW	100 Hz/px
FlashRef TE	6500 us
FlashRef FA	5 deg
use CAIPI	Off

\\USER\UserProtocols\Renzo\V1_template\not_the_best_22_slices_isotropic_TR5s

TA: 7.6 s PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 UNKNOWN:

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
Dist. factor	50 %
Position	R6.8 P9.4 H36.8
Orientation	T > C-31.2
Phase enc. dir.	A >> P
Rotation	-0.00 deg
Phase oversampling	24 %
Slice oversampling	9.1 %
Slices per slab	22
FoV read	130.0 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2549.80 ms
TE	25 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	700 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	3
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	700.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	162
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	45
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
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	220.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	Isocenter
! Orientation	Transversal
! Rotation	90.00 deg
! A >> P	178 mm
! R >> L	133 mm
! F >> H	22 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1028 Hz/Px
Free echo spacing	Off
Echo spacing	1.1 ms
EPI factor	162

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	150
BWDTH	125 3.1kHz
ph.skip 4 Robert (the one)	1
use Ernst angle	Off
Maxwell Correction	Off
log physio files	Off
FFT scale	3.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	2000 us
RF BWTP	25.0
Renzo: Delta TI	74 ms
EFFECTIVE TR	60192 ms
PatPartitions	24
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	162
FlashRef BW	100 Hz/px
FlashRef TE	8000 us
FlashRef FA	5 deg
use CAIPI	Off