SIEMENS MAGNETOM Terra

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$\verb|\Kamil\Renzo_playground\executed_3rd\executeds\| localizer$

TA: 0:28 PM: REF Voxel size: 0.4×0.4×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	9
Dist. factor	300 %
Position	R2.0 A15.8 H7.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	300 %
Position	R2.0 A14.7 H4.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	3
Slices	2
Dist. factor	100 %
Position	R2.4 A12.0 H4.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.0 ms
TE	3.69 ms
Averages	1
Concatenations	16
Filter	Elliptical filter
Coil elements	R01

Contrast - Common

TR	8.0 ms
TE	3.69 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

Contrast - Dynamic

Multiple series	Each measurement
Resolution - Common	
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	256
Phase resolution	80 %
Phase partial Fourier	Off
Interpolation	On

Resolution - iPAT

П	PAT mode	None
1	r A i illoue	NONE

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	9
Dist. factor	300 %
Position	R2.0 A15.8 H7.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	300 %
Position	R2.0 A14.7 H4.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	3
Slices	2
Dist. factor	100 %
Position	R2.4 A12.0 H4.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.0 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	16

Geometry - AutoAlign

Slice group	1
Position	R2.0 A15.8 H7.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Position	R2.0 A14.7 H4.5 mm
Orientation	Sagittal

Geometry - AutoAlign

Phase enc. dir.	A >> P
Slice group	3
Position	R2.4 A12.0 H4.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	
Initial Position	R2.0 A15.8 H7.3
R	2.0 mm
Α	15.8 mm
Н	7.3 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim CT

Tim CT mode	Off
Slices	2
Slice thickness	5.0 mm
Dist. factor	100 %
FoV read	200 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	REF
Table position	F
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L F >> H	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000

System - Tx/Rx

Reset	Off
! Ref. amplitude 1H	200.000 V

Physio - Signal1

1st Signal/Mode	None
TR	8.0 ms
Concatenations	16
Segments	1

Physio - Cardiac

Magn. preparation	None	
Fat suppr.	None	
Dark blood	Off	
FoV read	200 mm	
FoV phase	100.0 %	
Phase resolution	80 %	

Physio - PACE

Resp. control	Off	
Concatenations	16	

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag MIP-Cor MIP-Tra MIP-Time	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Soft Tissue

Wash - In	Off	
	•	
Wash - Out	Off	
TTP	Off	
PEI	Off	
MIP - time	Off	
Measurements	1	

Inline - Composing

Off

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	Active
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM Terra

Mode	Off	

\\Kamil\Renzo_playground\executed_3rd\executeds\used_for_NOVA_visual

TA: 16:12 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

compiled in KOREA by Suhuyn

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1	
Slabs	1	
Position	R3.4 P2.2 H2.5 mm	
Orientation	T > C-36.5 > S0.1	
Phase enc. dir.	A >> P	
AutoAlign		
Slice oversampling	0.0 %	
Slices per slab	26	
FoV read	177 mm	
FoV phase	100.0 %	
Slice thickness	0.82 mm	
TR 1	64.34 ms	
TR 2	4016.02 ms	
TE 1	23.0 ms	
Averages	1	
TE segmentation	1	
Filter	Distortion Corr.(3D)	
Coil elements	A32	

Contrast - Common

TR 1	64.34 ms
TR 2	4016.02 ms
TE 1	23.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	None
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	240
Pause after meas.	0.0 s

Resolution - Common

FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
Base resolution	216
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8 <- 8 iterations
Slice partial Fourier	Off

Resolution - Common

Interpolation Off			
	Interpolation	Off	

Resolution - iPAT

PAT mode	CAIPIRINHA		
Acc. factor PE	3	kernelsiz	LGRAPPA
Ref. lines PE	45	regulariz	
Acc. factor 3D	1	regulariz	ation 300
Ref. lines 3D	24		
CAIPI 3D Shift	0		
Reference scan mode	GRE/separate		
CAIPIRINHA mode	Free		

Resolution - Filter Image

Image Filter	Off	
Distortion Corr.	On	<- recon failed without this
Mode	3D	
Unfiltered images	Off	
Prescan Normalize	Off	
Normalize	Off	
B1 filter	Off	

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

•	
Slab group	1
Slabs	1
Position	R3.4 P2.2 H2.5 mm
Orientation	T > C-36.5 > S0.1
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	26
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.34 ms
TR 2	4016.02 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

occinion y runormign	
Slab group	1
Position	R3.4 P2.2 H2.5 mm
Orientation	T > C-36.5 > S0.1
Phase enc. dir.	A >> P
AutoAlign	-
Initial Position	R3.4 P2.2 H2.5
R	3.4 mm
Р	2.2 mm
Н	2.5 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-36.5
> S	0.1

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R9.2 P2.2 H4.4 mm
! Orientation	T > C-32.6 > S0.1
! Rotation	0.00 deg
! A >> P ! R >> L ! F >> H	177 mm
! R >> L	177 mm
! F >> H	44 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	220.000 V <- use 250,

if SAR allows

BOLD

Off	Note, that 10 min
Off	SAR is limit. scan might stop
0	after 5min
0	
On	
On	
4.00	
20	
Baseline	
Active	
	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	240

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.01 ms
Bandwidth	1102 Hz/Px

Sequence - Part 2

EPI factor	54
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
HSN RF power scale	2.00 <- 3 is better
Inversion Delay	650000 us
Relaxation Delay	0 us

Mode	Off	

\\Kamil\Renzo_playground\executed_3rd\executeds\usedwith_whole_brain

TA: 10:26 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 6 Rel. SNR: 1.00 : RenzLa4

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Clab amazin	1
Slab group	1
Slabs	1
Position	L0.0 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
AutoAlign	
Slice oversampling	0.0 %
Slices per slab	104
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	61.56 ms
TR 2	7742.92 ms
TE 1	22.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	61.56 ms
TR 2	7742.92 ms
TE 1	22.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	None
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	80
Pause after meas.	0.0 s

Resolution - Common

FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
Base resolution	216
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off

Resolution - Common

Interpolation	Interpolation	Off	
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Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	2
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

•	
Slab group	1
Slabs	1
Position	L0.0 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	104
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	61.56 ms
TR 2	7742.92 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlian

Coomony Materingin	
Slab group	1
Position	L0.0 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	L0.0 A7.0 H10.0
L	0.0 mm
Α	7.0 mm
Н	10.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-12.9
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R0.2 A6.3 H13.5 mm
! Orientation	T > C-13.8 > S-0.4
! Rotation	0.00 deg
! A >> P	177 mm
! R >> L	171 mm
! F >> H	91 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

BOLD		
GLM Statistics	Off	
Dynamic t-maps	Off	
Ignore meas. at start	0	
Ignore after transition	0	
Model transition states	On	
Temp. highpass filter	On	
Threshold	4.00	
Paradigm size	20	
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	
Meas[15]	Active	
Meas[16]	Active	
Meas[17]	Active	

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	80

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.01 ms
Bandwidth	1102 Hz/Px

Sequence - Part 2

EPI factor	54
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Mode	Off
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\\Kamil\Renzo_playground\executed_3rd\executeds\renzo_surface_coil

TA: 17:15 PM: REF Voxel size: 0.7×0.7×0.8 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.83 ms
TR 2	4278.1 ms
TE 1	23.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	R01

Contrast - Common

TR 1	64.83 ms
TR 2	4278.1 ms
TE 1	23.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	Fat sat.
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	240
Pause after meas.	0.0 s

Resolution - Common

FoV read	137 mm	
FoV phase	100.0 %	
Slice thickness	0.82 mm	
Base resolution	192	
Phase resolution	100 %	
Slice resolution	100 %	
Phase partial Fourier	6/8	
Slice partial Fourier	Off	

Resolution - Common

interpolation On	Interpolation	Off	
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Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	24
CAIPI 3D Shift	0
Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

•	
Slab group	1
Slabs	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.83 ms
TR 2	4278.1 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	
Initial Position	R2.4 P11.9 H1.1
R	2.4 mm
P	11.9 mm
Н	1.1 mm
Initial Rotation	90.00 deg
Initial Orientation	C > T
C > T	-18.8
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R5.3 P5.6 H12.6 mm
! Orientation	C > T-8.9 > S0.1
! Rotation	-89.98 deg
! F >> H	92 mm
! R >> L	177 mm
! A >> P	28 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	0.300
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

Off	
Off	
0	
0	
On	
On	
4.00	
20	
Baseline	
Active	
	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	240

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.2 ms
Bandwidth	930 Hz/Px

Sequence - Part 2

EPI factor	48
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Mode	Off

$\verb|\Kamil\Renzo_playground\executed_3rd\executeds\\| renzo_surface_coil_0.5||$

TA: 6:26 PM: REF Voxel size: 0.5×0.5×1.2 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR 1	55.32 ms
TR 2	7567.16 ms
TE 1	19.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	R01

Contrast - Common

TR 1	55.32 ms
TR 2	7567.16 ms
TE 1	19.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	Fat sat.
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	50
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s

Contrast - Dynamic

Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s
Pause after meas. 16	0.0 s
Pause after meas. 17	0.0 s
Pause after meas. 18	0.0 s
Pause after meas. 19	0.0 s
Pause after meas. 20	0.0 s
Pause after meas. 21	0.0 s
Pause after meas. 22	0.0 s
Pause after meas. 23	0.0 s
Pause after meas. 24	0.0 s
Pause after meas. 25	0.0 s
Pause after meas. 26	0.0 s
Pause after meas. 27	0.0 s
Pause after meas. 28	0.0 s
Pause after meas. 29	0.0 s
Pause after meas. 30	0.0 s
Pause after meas. 31	0.0 s
Pause after meas. 32	0.0 s
Pause after meas. 33	0.0 s
Pause after meas. 34	0.0 s
Pause after meas. 35	0.0 s
Pause after meas. 36	0.0 s
Pause after meas. 37	0.0 s
Pause after meas. 38	0.0 s
Pause after meas. 39	0.0 s
Pause after meas. 40	0.0 s
Pause after meas. 41	0.0 s
Pause after meas. 42	0.0 s
Pause after meas. 43	0.0 s
Pause after meas. 44	0.0 s
Pause after meas. 45	0.0 s
Pause after meas. 46	0.0 s
Pause after meas. 47	0.0 s
Pause after meas. 48	0.0 s
Pause after meas. 49	0.0 s

Resolution - Common

FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
Base resolution	272
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	24
CAIPI 3D Shift	0
Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slab group	1
Slabs	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR 1	55.32 ms
TR 2	7567.16 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	
Initial Position	R2.4 P11.9 H1.1
R	2.4 mm
Р	11.9 mm
Н	1.1 mm
Initial Rotation	90.00 deg
Initial Orientation	C > T
C > T	-18.8
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S-C-T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard

System - Adjustments

B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	R5.3 P5.6 H12.6 mm
! Orientation	C > T-8.9 > S0.1
! Rotation	-89.98 deg
! F >> H	92 mm
! R >> L	177 mm
! A >> P	28 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	0.300
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Ignore meas. at start	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	20
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
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	50

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.36 ms

SIEMENS MAGNETOM Terra

Sequence - Part 1

Bandwidth	836 Hz/Px

Sequence - Part 2

EPI factor	34
Segmentation	2
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Mode	Off	