\\NSI_MR_Research\final_studies\3D_EPI_Spielplatz\Ausprobiert_invivo\RL14_26slices_0.8_1sgm_I
PAT3_vis for BOLD
TA: 1:58 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : RENZLAY_14

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	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
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	84.66 ms
TR 2	2201.000 ms
TE 1	28.0 ms
Averages	1
TE segmentation	1
Filter	Prescan Normalize
Coil elements	HC1-6

Contrast - Common

TR 1	84.66 ms
TR 2	2201.000 ms
TE 1	28.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	None
TI 1	0 ms
TI 2	0 ms
TI 3	0 ms
Flip angle	33 deg
Fat suppr.	None

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

Contrast - Dynamic

Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
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	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
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	24

Resolution - iPAT

CAIPI 3D Shift	0
Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
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	84.66 ms
TR 2	2201.000 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L1.4 A13.1 H55.5
L	1.4 mm
A	13.1 mm
H	55.5 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-3.6
> S	-3.5

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T

System - Miscellaneous

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
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
Rotation	0.00 deg
A >> P	177 mm
R >> L	177 mm
F >> H	22 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	123.247829 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 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	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	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
Bandwidth	798 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	3 deg
RF duration	1500 us
RF BWT product	12
Slab Scale	90 %
Ernst T1	1200 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.	Long bino-11
External PC	per Series
varflip option	0
Inversion Delay	0 us
Relaxation Delay	0 us

Sequence - Assistant

Mode	Off

\\NSI_MR_Research\final_studies\3D_EPI_Spielplatz\Ausprobiert_invivo\RL14_26slices_0.8_1sgm_I PAT3_vis_VASO

TA: 3:49 PM: FIX Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : RenzLa8

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	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
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	84.66 ms
TR 2	4422.000 ms
TE 1	28.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D), Prescan Normalize
Coil elements	HC1-6

Contrast - Common

TR 1	84.66 ms
TR 2	4422.000 ms
TE 1	28.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	18 deg
Fat suppr.	None
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

Contrast - Dynamic

Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
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

this is for best anatomical contrast, for functional sensitivity, use 45 instead

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
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

Resolution - iPAT

Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
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	84.66 ms
TR 2	4422.000 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L1.4 A13.1 H55.5
L	1.4 mm
A	13.1 mm
H	55.5 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-3.6
> S	-3.5

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	0 mm

System - Miscellaneous

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
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L1.4 A13.1 H55.5 mm
Orientation	T > C-3.6 > S-3.5
Rotation	0.00 deg
A >> P	177 mm
R >> L	177 mm
F >> H	22 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	123.247829 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 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	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	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

Sequence - Part 1

Bandwidth	798 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	3 deg
RF duration	1500 us
RF BWT product	12
Slab Scale	90 %
Ernst T1	1200 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.	Long bino-11
External PC	per Series
varflip option	6
HSN RF power scale	3.00
Inversion Delay	0 us
Relaxation Delay	0 us

Sequence - Assistant

Mode	Off

in C:\Medcom\Config\IceConfig.evp change the Parameter "IcePATReadIniFile" to 1

Then in PATConfigurator.ini (in the same folder): change
change: dGrappaRegularizationWeight: 0.1
Note that the PATConfigurator.ini file is not overwritten after on registers a new participant