\\USER\Feinberglab\Jen\Resting State Piloting\localizer_200V_nova Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:27

PAT: Off

Properties		Phase resolution Phase partial Fourier	90 % 6/8
Prio Recon	Off	Interpolation	On
Before measurement After measurement		PAT mode	None
Load to viewer	On	less as Filter	
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	Off	Prescan Normalize	Off
Load images to graphic	Off	Normalize	Off
	Oli	B1 filter	Off
segments	0"	Raw filter	Off
Auto open inline display	Off	Elliptical filter	Off
Start measurement without	On		
further preparation		Geometry	
Wait for user to start	Off	Multi-slice mode	Sequential
Start measurements	single	Series	Interleaved
Destina	_		
Routine		Saturation mode	Standard
Slice group 1		Special sat.	None
Slices	5		
Dist. factor	500 %	Table position	Н
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P	Initine Composing	OII
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	J.JU deg		
	F	System	
Slices	5	T1	On
Dist. factor	20 %	M2	On
Position	Isocenter	B4	On
Orientation	Coronal	M3	On
Phase enc. dir.	R >> L	V32	Off
Rotation	0.00 deg	V 32	
Slice group 3	3	Positioning mode	FIX
Slices	5	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
		Coronal	A >> P
Position	Isocenter		F >> H
Orientation	Transversal	Transversal	
Phase enc. dir.	A >> P	Save uncombined	On
Rotation	0.00 deg	Coil Combine Mode	Sum of Squares
Phase oversampling	0 %	AutoAlign	
FoV read	280 mm	Auto Coil Select	Off
FoV phase	100.0 %		
Slice thickness	3.0 mm	Shim mode	Tune up
TR	10.0 ms	Adjust with body coil	Off
		Confirm freq. adjustment	Off
TE	3.00 ms	Assume Silicone	Off
Averages	1	! Ref. amplitude 1H	200.000 V
Concatenations	15	Adjustment Tolerance	Auto
Filter	None	Adjust volume	. 1010
Coil elements	B4;M2,3;T1	Position	Isocenter
Contract			
Contrast		Orientation	Transversal
TD	0 ms	Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	10 deg	F >> H	350 mm
Fat suppr.	None	Dharais	
Water suppr.	None	Physio	
SWI	Off	1st Signal/Mode	None
SVVI	OII	Segments	1
Averaging mode	Short term		
Reconstruction	Magnitude	Tagging	None
Measurements	1	Dark blood	Off
	Food magaziramant	Poen control	Off
Multiple series	Each measurement	Resp. control	Off
Resolution		Inline	
Base resolution	256	Subtract	Off
2000 1000101011	200	Cabildot	U

Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time MapIt Contrasts	Off Off Off Off Off Off The control of the control

Sequence

-	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	320 Hz/Px
Flow comp.	No
RF pulse type Gradient mode Excitation RF spoiling	Normal Whisper Slice-sel. On

\\USER\Feinberglab\Jen\Resting State Piloting\b1map_200V_TR1000_nova

TA: 1:09	Voxel size: 3.9×3.9×5.	0 mm Rel. SNR: 1.00 USER	m Rel. SNR: 1.00 USER: b1map_658	
Properties		M3 V32	On Off	
Prio Recon	Off		∪ II	
Before measurement		Positioning mode	FIX	
After measurement		MSMA	S - C - T	
Load to viewer	On	Sagittal	R >> L	
Inline movie	Off	Coronal	A >> P	
Auto store images	On	Transversal	F >> H	
Load to stamp segments	Off	Save uncombined	Off	
Load images to graphic	Off	Coil Combine Mode	Adaptive Combine	
segments		AutoAlign		
Auto open inline display	Off	Auto Coil Select	Default	
Start measurement without	On	Olei d	T	
further preparation		Shim mode	Tune up	
Wait for user to start	Off	Adjust with body coil	Off	
Start measurements	single	Confirm freq. adjustment	Off	
	Ü	Assume Silicone	Off	
Coutine		! Ref. amplitude 1H	200.000 V	
Slice group 1	40	Adjustment Tolerance	Auto	
Slices	10	Adjust volume		
Dist. factor	100 %	Position	Isocenter	
Position	R0.7 A36.4 H11.5	Orientation	Transversal	
Orientation	Transversal	Rotation	0.00 deg	
Phase enc. dir.	A >> P	R >> L	350 mm	
Rotation	0.00 deg	A >> P	263 mm	
FoV read	250 mm	F >> H	350 mm	
FoV phase	100.0 %	Composing		
Slice thickness	5 mm	Composing		
TR	1000 ms	Sequence		
TE 1	14 ms	Contrasts	2	
TE 2	14 ms	Bandwidth	260.416667 Hz/Px	
Averages	1			
Filter	None	T1 Compensation	Mean T1	
Coil elements	B4;M2,3;T1	Mean T1	1000.0 ms	
Contrast		Angles	1	
Flip angle 1	90 deg	Amplitude Weighting	Linear	
Flip angle 2	120 deg	Scale Bar	Enabled	
Flip angle 3	60 deg	Raw Data	Disabled	
Flip angle 4	135 deg			
Flip angle 5	45 deg			
Measurements	1			
Resolution	0.4			
Base resolution	64			
Phase resolution	100 %			
Raw filter	Off			
Geometry Series	Interleaved			
	mileneaveu			
Navigator 1				
Position	R2.0 P26.3 F10.8			
Orientation	Transversal			
Rotation	0.00 deg			
Base size phase	50 mm			
Base size read	119 mm			
Thickness	50 mm			
Table position	Н			
Table position	П 0 mm			
	Off			
Inline Composing	OII			
System				
T1	On			
M2	On On			
	(10			

B4

On

\\USER\Feinberglab\Jen\Resting State Piloting\mp2rage_0.7mm_TR4500

		Image Filter	Off
roperties		Distortion Corr.	Off
Prio Recon	Off	Prescan Normalize	Off
Before measurement		Normalize	Off
After measurement		B1 filter	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off		
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	Geometry	
Load images to graphic	Off	Multi-slice mode	Single shot
segments	311	Series	Interleaved
	Off	Series	
Auto open inline display			
Start measurement without	On	Table position	Н
further preparation		Table position	0 mm
Wait for user to start	On	Inline Composing	Off
Start measurements	single		
	•	System	
outine		T1	On
Slab group 1	·	M2	On
Slabs	1	B4	On
Dist. factor	50 %	M3	On
Position	L1.2 A28.3 F30.2	V32	Off
Orientation	Sagittal	V UZ	
	H >> F	Positioning mode	FIX
Phase enc. dir.		MSMA	S - C - T
Rotation	90.00 deg	Sagittal	R >> L
Phase oversampling	0 %	Coronal	A >> P
Slice oversampling	8.3 %		
Slices per slab	192	Transversal	F >> H
FoV read	200 mm	Save uncombined	Off
FoV phase	90.6 %	Coil Combine Mode	Adaptive Combine
Slice thickness	0.80 mm	AutoAlign	
	4500 ms	Auto Coil Select	Default
TR			
TE	3.33 ms	Shim mode	Standard
Averages	1	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements	B4;M2,3;T1	! Ref. amplitude 1H	230.000 V
	,,., .		
ontrast		Adjustment Tolerance	Auto
Magn. preparation	Non-sel. IR	Adjust volume	
TI 1	1000 ms	! Position	L1.9 A24.9 F9.3
TI 2	3200 ms	! Orientation	Sagittal
Flip angle 1		! Rotation	0.00 deg
	4 deg	! F >> H	108 mm
Flip angle 2	4 deg	! A >> P	160 mm
Fat suppr.	Water excit. fast	! R >> L	127 mm
Water suppr.	None	! N >> L	14/ 111111
2nd Inversion-Contrast	On	Physio	
	1	1st Signal/Mode	None
Averaging mode	Long term	······································	
Reconstruction	Magnitude	Dark blood	Off
Measurements	1		
Multiple series	Each measurement	Resp. control	Off
•		Inline	
esolution	256	Subtract	Off
Base resolution	256		Off
Phase resolution	100 %	Std-Dev-Sag	
Slice resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Slice partial Fourier	6/8	Std-Dev-Time	Off
Interpolation	Off	MIP-Sag	Off
		MIP-Cor	Off
PAT mode	GRAPPA	MIP-Tra	Off
Accel. factor PE	3		
Ref. lines PE	-	MIP-Time	Off
	36	Save original images	On
Accel. factor 3D	1		
Reference scan mode	Integrated		

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	200 Hz/Px
Flow comp.	Slice
Echo spacing	8.1 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
FFT Scale Factor	200 %
Line/Partition Swap	Off
Homodyne Phase Filter	Off
Flat Image	On
T1 Map	On
Division Image	Off
ExtInvPulseOn	On
OffResFreqInv	0
Invflipangle	970

\\USER\Feinberglab\Jen\Resting State Piloting\mp2rage_1mm_TR4000

roperties		Image Filter	Off
•	0#	Distortion Corr.	Off
Prio Recon	Off	Prescan Normalize	Off
Before measurement		Normalize	Off
After measurement	_	B1 filter	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off	Elliptical filter	Off
Auto store images	On	Linptical litter	Oli
Load to stamp segments	Off	Geometry	
Load images to graphic	Off	Multi-slice mode	Single shot
segments		Series	Interleaved
Auto open inline display	Off		
Start measurement without	On	Table a said as	
	Oli	Table position	H
further preparation		Table position	0 mm
Wait for user to start	On	Inline Composing	Off
Start measurements	single	Cuatam	
outing		System	
outine		T1	On
Slab group 1		M2	On
Slabs	1	B4	On
Dist. factor	50 %	M3	On
Position	L1.9 A29.6 F31.5	V32	Off
Orientation	Sagittal		
Phase enc. dir.	H >> F	Positioning mode	FIX
Rotation	90.00 deg	MSMA	S - C - T
	90.00 deg 0 %	Sagittal	R >> L
Phase oversampling		Coronal	A >> P
Slice oversampling	11.1 %	Transversal	F >> H
Slices per slab	144	Save uncombined	Off
FoV read	200 mm		_
FoV phase	90.6 %	Coil Combine Mode	Adaptive Combine
Slice thickness	1.00 mm	AutoAlign	
TR	4000 ms	Auto Coil Select	Default
TE	3.23 ms	Ohim mada	04
	1	Shim mode	Standard
Averages	•	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements	B4;M2,3;T1	! Ref. amplitude 1H	240.000 V
		Adjustment Tolerance	Auto
ontrast		Adjust volume	71010
Magn. preparation	Non-sel. IR		110 424 0 50 2
TI 1	1000 ms	! Position	L1.9 A24.9 F9.3
TI 2	3200 ms	! Orientation	Sagittal
Flip angle 1	4 deg	! Rotation	0.00 deg
Flip angle 2	4 deg	! F >> H	108 mm
Fat suppr.	Water excit. fast	! A >> P	160 mm
		! R >> L	127 mm
Water suppr.	None	ļ.	
2nd Inversion-Contrast	On	Physio	
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude		O#
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dark blood	Off
Measurements		Reen control	Off
Multiple series	Each measurement	Resp. control	Oil
esolution		Inline	
Base resolution	192	Subtract	Off
Phase resolution	100 %	Std-Dev-Sag	Off
Slice resolution	100 %	Std-Dev-Cor	Off
		Std-Dev-Tra	Off
Phase partial Fourier	Off	Std-Dev-Time	Off
Slice partial Fourier	6/8		
Interpolation	Off	MIP-Sag	Off
DAT mode	CDADDA	MIP-Cor	Off
PAT mode	GRAPPA	MIP-Tra	Off
Accel. factor PE	3	MIP-Time	Off
Ref. lines PE	36	Save original images	On
	4	- 3	
Accel. factor 3D	1		

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	200 Hz/Px
Flow comp.	Slice
Echo spacing	7.8 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
FFT Scale Factor	200 %
Line/Partition Swap	Off
Homodyne Phase Filter	Off
Flat Image	On
T1 Map	On
Division Image	Off
ExtInvPulseOn	On
OffResFreqInv	0
Invflipangle	970

\\USER\Feinberglab\Jen\Resting State			
TA: 13:04		Voxel size: 0.8×0.8×1.0 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727	

Properties		Sat. region 1	
Prio Recon	Off	Thickness	50 mm
Before measurement		Position	L7.5 A83.5 F67.8
After measurement		Orientation	C > T-39.1 > S4.0
Load to viewer	On	Special sat.	None
Inline movie	Off	Table position	Н
Auto store images	On	Table position	0 mm
Load to stamp segments	Off	Inline Composing	Off
Load images to graphic	Off		.
segments		System	
Auto open inline display	Off	T1	On
Start measurement without	On	M2	On
further preparation	•	B4	On
Wait for user to start	Off	M3	On
Start measurements	single	V32	Off
1	519.15	Positioning mode	FIX
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	64	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	R1.3 A24.8 F20.0	Coil Combine Mode	Sum of Squares
Orientation	T > C12.5	AutoAlign	
Phase enc. dir.	A >> P	Auto Coil Select	 Default
Rotation	0.00 deg	Auto Coli Select	Delaul
Phase oversampling	0 %	Shim mode	Standard
FoV read	180 mm	Adjust with body coil	Off
FoV phase	91.1 %	Confirm freq. adjustment	On
Slice thickness	1.00 mm	Assume Silicone	Off
TR	2500 ms	! Ref. amplitude 1H	230.000 V
TE	25.6 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	2	Adjust volume	
Filter	None	Position	R1.3 A24.8 F20.0
Coil elements	B4;M2,3;T1	Orientation	T > C12.5
Contract		Rotation	0.00 deg
Contrast	0"	R >> L	180 mm
MTC	Off	A >> P	164 mm
Magn. preparation	None	F >> H	64 mm
Flip angle	75 deg		-
Fat suppr.	Fat sat.	Physio	
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude	BOLD	
Measurements	300	GLM Statistics	Off
Delay in TR	0 ms	Dynamic t-maps	Off
Multiple series	Off	Starting ignore meas	0
•		Ignore after transition	0
Resolution		Model transition states	On
Base resolution	224	Temp. highpass filter	On
Phase resolution	100 %	Threshold	4.00
Phase partial Fourier	6/8	Paradigm size	20
Interpolation	Off	Meas[1]	Baseline
PAT mode	GRAPPA	Meas[2]	Baseline
Accel. factor PE	3	Meas[3]	Baseline
Ref. lines PE	48	Meas[4]	Baseline
Reference scan mode	GRE	Meas[5]	Baseline
		Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[9] Meas[10]	Baseline
Hamming	Off	Meas[10] Meas[11]	Active
Geometry		Meas[11] Meas[12]	Active
Geometry	Interlegued	Meas[12] Meas[13]	Active
Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active
Series	Interleaved	Meas[14] Meas[15]	Active
1		Meas[15] 8/17	HOUVE
		×/1/1	

Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction	Off
Bandwidth	1240 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	1.01 ms
SIR accel. factor	1
EPI factor	204
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration	3640 us
Slice multiplier	1
Multi-band PE shift	4 1/FoV
zBlip scheme	0
MB kernel size	0
MB knockout band	0
No. of interleaved TEs	0
RF pulse shape	1
EPI noise scans	0
EPI full reference scan	0
Single-band images	On Off
MB RF phase scramble SENSE1 coil combine	Off
Log physiology to file	Off
Invert RO/PE polarity	Off
Save reduced raw data	Off
Readout slice trace	Off
Disable ramp sampling	Off
PF omits higher k-space	Off
Online multi-band recon.	Online
FFT scale factor	0.10
GRE iPAT ref. FA	12.0 deg
Send B1 shim trigger	Never
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

TA: 13:57	\\USER\Feinberglab\Jen\\ Voxel size: 1.1×1.1×1.1 mm		ting\Resting USER: AV_ep2d_bold_sd_20140727
Properties		Special sat.	None
Prio Recon	Off	Table position	Н

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement	.	Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		.
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
	Off	B4	On
Load images to graphic	Oli	M3	On
segments	0"	V32	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	FIX
further preparation		MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
		Coil Combine Mode	Sum of Squares
Slice group 1	106	AutoAlign	
Slices	126	Auto Coil Select	Default
Dist. factor	0 %		
Position	L2.1 A27.8 H9.4	Shim mode	Standard
Orientation	T > C6.1	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	On
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	235.000 V
FoV read	210 mm	Adjustment Tolerance	Auto
FoV phase	100.0 %	Adjust volume	
Slice thickness	1.05 mm	! Position	R0.3 A26.4 H8.9
TR	2540 ms	! Orientation	T > C6.1
TE	20 ms	! Rotation	0.00 deg
Multi-band accel. factor	3	! R >> L	210 mm
Filter	None	! A >> P	210 mm
Coil elements	B4;M2,3;T1	!F>> H	133 mm
1	2 1,1112,0,1 1	:1 >>11	133 11111
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	75 deg	GLM Statistics	0#
Fat suppr.	Fat sat.		Off
A very prince and de		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	300	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	12
Base resolution	200	Meas[1]	Baseline
	200 100 %	Meas[2]	Baseline
Phase resolution		Meas[3]	Baseline
Phase partial Fourier	6/8	Meas[4]	Baseline
Interpolation	Off	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	66		Baseline
		Meas[8]	
Reference scan mode	GRE	Meas[9]	Baseline
Distortion Corr.	Off	Meas[10]	Baseline
Prescan Normalize	Off	Meas[11]	Active
Raw filter	On	Meas[12]	Active
Elliptical filter	Off	Motion correction	Off
Hamming		Spatial filter	Off
		•	
Hamming	Off	Seguence	
Geometry	Оп	Sequence	Off
1	Interleaved	Introduction	Off
Geometry			Off 1388 Hz/Px No

Free echo spacing	Off
Echo spacing	0.82 ms
SIR accel. factor	1
EPI factor	200
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	4380 us 1 4 1/FoV 0 0 0 0 0 0 0 3 0 0 On On Off Off Off Off Off Off Off Off O

		\\USER\Feinberglab\Jen\	Resting State Pilo	sting\Resting
TA: 13:41	PAT: 2	Voxel size: 1.3x1.3x1.3 mm	Rel. SNR: 1.00	USER: AV_ep2d_bold_sd_20140727
Properties			Sat. region 1 Thickness	50 mm
Prio Recon Before measu	urement	Off	Position Orientation	Isocenter

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	Off	١_
segments		S
Auto open inline display	Off	
Start measurement without	On	
further preparation		
Wait for user to start	Off	
Start measurements	single	
Į.	sg.s	
Routine		
Slice group 1		
Slices	104	
Dist. factor	0 %	
Position	L2.1 A27.8 H9.4	
Orientation	T > C6.1	
Phase enc. dir.	A >> P	
Rotation	0.00 deg	
Phase oversampling	0 %	
FoV read	210 mm	
FoV phase	100.0 %	
Slice thickness	1.25 mm	
TR	1853 ms	
TE	22.8 ms	
Multi-band accel. factor	4	
Filter	None	
Coil elements	B4;M2,3;T1	
Contrast		
Contract		
MTC	Off	
MTC Magn preparation	Off None	
Magn. preparation	None	
Magn. preparation Flip angle	None 70 deg	
Magn. preparation	None	P
Magn. preparation Flip angle	None 70 deg	P
Magn. preparation Flip angle Fat suppr.	None 70 deg Fat sat.	P
Magn. preparation Flip angle Fat suppr. Averaging mode	None 70 deg Fat sat. Long term	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR	None 70 deg Fat sat. Long term Magnitude	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements	None 70 deg Fat sat. Long term Magnitude 433	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series	None 70 deg Fat sat. Long term Magnitude 433 0 ms	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 %	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 %	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation PAT mode	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr.	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off On Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off On Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off On Off	
Magn. preparation Flip angle Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	None 70 deg Fat sat. Long term Magnitude 433 0 ms Off 168 100 % 6/8 Off GRAPPA 2 44 Single-shot Off Off On Off	

Sat. region 1 Thickness Position Orientation Special sat. Table position Table position Inline Composing	50 mm Isocenter Transversal None H 0 mm
System	
T1	On
M2	On
B4	On
M3	On O#
V32	Off
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	 D ()
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	On
Assume Silicone	Off
! Ref. amplitude 1H	230.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	R0.3 A26.4 H8.9
! Orientation	T > C6.1
! Rotation	0.00 deg
	210 mm 210 mm
!A>>P !F>>H	133 mm
	133 11111
Physio	
1st Signal/Mode	None
BOLD	
GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	12
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4] Meas[5]	Baseline Baseline
Meas[6]	Baseline

В	OLD	
	GLM Statistics	Off
	Dynamic t-maps	Off
	Starting ignore meas	0
	Ignore after transition	0
	Model transition states	On
	Temp. highpass filter	On
	Threshold	4.00
	Paradigm size	12
	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
	Motion correction	Off
	Spatial filter	Off
,		

Sequence

Sequence	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 1654 Hz/Px No Off 0.74 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 168 Normal Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	4380 us 1 4 1/FoV 0 0 0 0 0 0 3 0 0 On On On Off Off Off Off Off Off Off Of

Table of contents

\\USER Feir	nberglab Jen	
		Resting State Piloting Pilot Current localizer_200V_nova b1map_200V_TR1000_nova mp2rage_0.7mm_TR4500 mp2rage_1mm_TR4000 PossibleResting_GE_p8mm_MB2PAT3_pf6_te25_tr1544_sat_JV_tSNR Resting state-GE_1p05mm_MB3IPAT3_pf6_te23_tr2540_lowSAR_noSAT_JV Resting state-GE_1p25mm_MB4IPAT2_pf6_te22p8_tr1853_lowSAR_SAT