\\USER\Feinberglab\Jen\gonogo frontal pilot\localizer_200V_nova Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:27

PAT: Off

		1.170.0 11111 1101. 01411. 1.00	
Properties		Phase resolution	90 %
Prio Recon	Off	—— Phase partial Fourier	6/8
Before measurement	Oli	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	PAT mode	
	On O#	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On O#	Prescan Normalize	Off
Load to stamp segments	Off	Normalize	Off
Load images to graphic	Off	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
Routine		Coturation made	Standard
Slice group 1		Saturation mode	Standard
Slices	5	Special sat.	None
Dist. factor	5 500 %	- 11 ···	
Position		Table position	H
	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	Tilli CT Illode	Oli
Slice group 2	-	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		
Slice group 3		Positioning mode	FIX
Slices	5	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
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 %		Tues
Slice thickness	3.0 mm	Shim mode	Tune up
TR	10.0 ms	Adjust with body coil	Off
TE	3.00 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	15	! Ref. amplitude 1H	200.000 V
Filter	None	Adjustment Tolerance	Auto
Coil elements	B4;M2,3;T1	Adjust volume	
Con elements	D-7,1V1Z,O, 1 1	Position	Isocenter
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	Dhyoic	
Water suppr.	None	Physio	None
SWI	Off	1st Signal/Mode	None
		Segments	1
Averaging mode	Short term	Tagging	None
Reconstruction	Magnitude	Dark blood	Off
Measurements	1	Daik blood	
Multiple series	Each measurement	Resp. control	Off
		Inline	
Resolution	256	Inline	0#
Base resolution	256	Subtract	Off

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 Off

Sequence

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

\\USER\Feinberglab\Jen\gonogo frontal pilot\b1map_200V_32

TA: 2:10	Voxel size: 3.9×3.9×5.0 mm	n Rel. SNR: 1.00 USER	: b1map_658
Properties		M3	On O"
Prio Recon	Off	V32	Off
Before measurement	5	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		
further preparation	3 11	Shim mode	Tune up
Wait for user to start	Off	Adjust with body coil	Off
Start measurements	single	Confirm freq. adjustment	Off
	ongio	Assume Silicone	Off
Routine		! Ref. amplitude 1H	200.000 V
Slice group 1		Adjustment Tolerance	Auto
Slices	12	Adjust volume	
Dist. factor	100 %	Position	Isocenter
Position	R0.7 A30.3 F0.6	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 %	1	
Slice thickness	5 mm	Composing	
TR	1938 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
	B 1,1112,0,1 1	Angles	1
Contrast		Amplitude Weighting	Linear
Flip angle 1	90 deg	Scale Bar	Enabled
Flip angle 2	120 deg	Raw Data	Disabled
Flip angle 3	60 deg	•	
Flip angle 4	135 deg		
Flip angle 5	45 deg		
Measurements	1		
Resolution			
Base resolution	64		
Phase resolution	100 %		
Raw filter	Off		
Geometry			
Series	Interleaved		
Navigator 1			
Position	L0.0 P35.8 F18.2		
Orientation	Transversal		
Rotation	0.00 deg		
Base size phase	50 mm		
Base size read	50 mm		
Thickness	50 mm		
Table position	 Н		
Table position	0 mm		
Inline Composing	Off		
System			
T1	On		
M2	On		
B4	On		
		3/25	

\\USER\Feinberglab\Jen\gonogo frontal pilot\mp2rage_1mm_TR4000

roperties		Image Filter	Off
Prio Recon	Off	Distortion Corr.	Off
	Oπ	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	!	0.11
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 position	Н
further preparation	011		
Wait for user to start	On	Table position	0 mm
		Inline Composing	Off
Start measurements	single	System	
outine		T1	On
Slab group 1		M2	On
Slabs	1		-
	50 %	B4	On
Dist. factor		M3	On
Position	L1.9 A29.6 F31.5	V32	Off
Orientation	Sagittal	Positioning mode	FIX
Phase enc. dir.	H >> F	MSMA	S - C - T
Rotation	90.00 deg	_	
Phase oversampling	0 %	Sagittal	R >> L
Slice oversampling	11.1 %	Coronal	A >> P
Slices per slab	144	Transversal	F >> H
FoV read	200 mm	Save uncombined	Off
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	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	240.000 V
		Adjustment Tolerance	Auto
ontrast		Adjust volume	Auto
Magn. preparation	Non-sel. IR	! Position	110 424 0 50 2
TI 1	1000 ms		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
Water suppr.	None	! R >> L	127 mm
2nd Inversion-Contrast	On	Dhysia	
ZIIU IIIVEISIUII-CUIIIIASI	OII	Physio	
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude	Dark blood	Off
Measurements	1	Daik blood	OII
Multiple series	Each measurement	Resp. control	Off
•	Laon moadarement	•	
esolution		Inline	0#
Base resolution	192	Subtract	Off
Phase resolution	100 %	Std-Dev-Sag	Off
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
mierpolation	OII	MIP-Cor	Off
PAT mode	GRAPPA	MIP-Tra	Off
Accel. factor PE	3		
Ref. lines PE	36	MIP-Time	Off
	36 1	Save original images	On
Accel. factor 3D Reference scan mode	Integrated	Sequence	

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\gonogo frontal pilot\GE_1mm_MB2IPAT3_pf5_302i_gonogo_test_tr1000 TA: 5:19 PAT: 3 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	Custom	
Inline movie	Off	System	0.5
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	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
1	5.1.g.5	Transversal	F >> H
Routine		Coil Combine Mode	Sum of Squares
Slice group 1		AutoAlign	
Slices	30	Auto Coil Select	Default
Dist. factor	0 %	Auto Coli Select	Delault
Position	R1.7 A23.6 H11.6	Shim mode	Standard
Orientation	T > C-2.6	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	230.000 V
FoV read	200 mm	Adjustment Tolerance	Auto
FoV phase	93.0 %	Adjust volume	71010
Slice thickness	1.00 mm	Position	R1.7 A23.6 H11.6
TR	1000 ms	Orientation	T > C-2.6
TE	22.8 ms	Rotation	0.00 deg
Multi-band accel. factor	2	Rotation R >> L	200 mm
Filter	None		
Coil elements	B4;M2,3;T1	A >> P	186 mm
Coll elements	D4,IVIZ,3,1 1	F >> H	30 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	DOLD.	
Flip angle	50 deg	BOLD	0"
Fat suppr.	Fat sat.	GLM Statistics	Off
A		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	302	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	200	— Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	5/8	Meas[3]	Baseline
-	Off	Meas[4]	Baseline
Interpolation	OII	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	GRE	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[11]	Active
Raw filter	On	Meas[12]	Active
Elliptical filter	Off	Meas[14]	Active
Hamming	Off		Active
1		Meas[15]	
		I Mooc[16]	A ctive
Geometry	lutada e e l	Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
	Interleaved Interleaved	= = =	

Meas[20]	Active	
Motion correction	Off	
Spatial filter	Off	
Sequence		
Introduction	Off	
Bandwidth	1250 Hz/Px	
Flow comp	No	

Introduction Bandwidth Bandwidth Flow comp. Free echo spacing Echo spacing Cree echo spacing Echo spacing Cree echo spac	Sequence	
EPI factor	Bandwidth Flow comp. Free echo spacing	1250 Hz/Px No Off
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 Onlo GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Stardigm size Paradigm size Multiplier Step [1]	EPI factor Gradient mode	186 Normal
	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]	1 0 1/FoV 0 0 0 0 0 1 0 0 0 0 0 On Off Off Off Off Off Off Off Off Off

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_1mm_MB2IPAT3_pf5_151i_gonogo_test_tr2000 TA: 5:32 PAT: 3 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	Custom	
Inline movie	Off	System	0.5
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	Positioning mode	FIX
further preparation	011	MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Start measurements	Sirigie	Transversal	F >> H
Routine			
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	60	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	R1.7 A23.6 H11.6	Shim mode	Standard
Orientation	T > C-2.6	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	230.000 V
FoV read	200 mm	Adjustment Tolerance	Auto
FoV phase	93.0 %		Auto
Slice thickness	1.00 mm	Adjust volume	D4 7 400 C H44 C
TR	2000 ms	Position	R1.7 A23.6 H11.6
TE	22.8 ms	Orientation	T > C-2.6
_		Rotation	0.00 deg
Multi-band accel. factor	2 Nana	R >> L	200 mm
Filter	None	A >> P	186 mm
Coil elements	B4;M2,3;T1	F >> H	60 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	DOLD.	
Flip angle	70 deg	BOLD	2"
Fat suppr.	Fat sat.	GLM Statistics	Off
A		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	151	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	200	— Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
		Meas[3]	Baseline
Phase partial Fourier	5/8 Off	Meas[4]	Baseline
Interpolation	Off	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	GRE	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off	Meas[10]	Active
Prescan Normalize	Off		
Raw filter	On	Meas[12]	Active
Elliptical filter	Off	Meas[13]	Active
Hamming	Off	Meas[14]	Active
		Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interlegued	Meas[17]	Active
Widiti-Slice Mode	Interleaved		
Series	Interleaved	Meas[17] Meas[18] Meas[19]	Active Active

Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 1250 Hz/Px No Off 1 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 186 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 GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 0 On Off Off Off Off Off Off Off Off Off

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_p8mm_MB2IPAT3_pf5_151i_gonogo_tr2000 TA: 5:34 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	1	
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3 V32	On Off
Auto open inline display	Off	V32	OII
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
Slice group 1		 Coil Combine Mode 	Sum of Squares
Slices	60	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	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	230.000 V
FoV read	160 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	, 1010
Slice thickness	0.80 mm	Position	L1.4 A31.7 F4.9
TR	2000 ms	Orientation	Transversal
TE	22.8 ms	Rotation	0.00 deg
Multi-band accel. factor	2	R >> L	160 mm
Filter	None	A >> P	146 mm
Coil elements	B4;M2,3;T1	F >> H	48 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	70 deg	GLM Statistics	Off
Fat suppr.	Fat sat.	Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	151	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
•		Paradigm size	20
Resolution	000	- Meas[1]	Baseline
Base resolution	200	Meas[2]	Baseline
Phase resolution	100 %	Meas[3]	Baseline
Phase partial Fourier	5/8	Meas[4]	Baseline
Interpolation	Off	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	GRE	Meas[9]	Baseline
			Baseline
	O#	Meas[10]	
Distortion Corr.	Off Off	Meas[11]	Active
Prescan Normalize	Off		
Prescan Normalize Raw filter	Off On	Meas[11]	Active
Prescan Normalize Raw filter Elliptical filter	Off On Off	Meas[11] Meas[12]	Active Active
Prescan Normalize Raw filter	Off On	Meas[11] Meas[12] Meas[13]	Active Active Active
Prescan Normalize Raw filter Elliptical filter	Off On Off	Meas[11] Meas[12] Meas[13] Meas[14]	Active Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming	Off On Off	Meas[11]	Active Active Active Active Active Active Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off On Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active Active Active Active

Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Seguence	

	•
Sequence	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 1250 Hz/Px No Off 1.01 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 182 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 GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 0 1 0 0 O O O O O O O O O O O O

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_p8mm_MB2IPAT3_pf5_302i_gonogo_tr1000 TA: 2:49 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	Custom	
Inline movie	Off	System	0
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	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
	5.1.g.5	Transversal	F >> H
Routine		Coil Combine Mode	Sum of Squares
Slice group 1		AutoAlign	
Slices	30		
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	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	230.000 V
FoV read	160 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	71010
Slice thickness	0.80 mm	Position	L1.4 A31.7 F4.9
TR	1000 ms	Orientation	Transversal
TE	22.8 ms	Rotation	
Multi-band accel. factor	2	Rotation R >> L	0.00 deg 160 mm
Filter	None		
Coil elements	B4;M2,3;T1	A >> P	146 mm
	D4,IVIZ,3,1 1	F >> H	25 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	50 deg	GLM Statistics	Off
			Oli
Fat suppr.	Fat sat.		
		Dynamic t-maps	Off
Averaging mode	Long term	Dynamic t-maps Starting ignore meas	Off 0
Averaging mode Reconstruction	Long term Magnitude	Dynamic t-maps Starting ignore meas Ignore after transition	Off 0 0
Averaging mode Reconstruction Measurements	Long term Magnitude 151	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states	Off 0 0 On
Averaging mode Reconstruction Measurements Delay in TR	Long term Magnitude 151 0 ms	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter	Off 0 0 On On
Averaging mode Reconstruction Measurements	Long term Magnitude 151	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold	Off 0 0 On On 4.00
Averaging mode Reconstruction Measurements Delay in TR	Long term Magnitude 151 0 ms	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	Off 0 0 On On 4.00 20
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution	Long term Magnitude 151 0 ms Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	Off 0 0 On On 4.00 20 Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution	Long term Magnitude 151 0 ms Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	Off 0 0 On On 4.00 20 Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Long term Magnitude 151 0 ms Off 200 100 %	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier	Long term Magnitude 151 0 ms Off 200 100 % 5/8	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	Off 0 0 On On 4.00 20 Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Long term Magnitude 151 0 ms Off 200 100 %	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier	Long term Magnitude 151 0 ms Off 200 100 % 5/8	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline
Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Off 0 0 0 On On 4.00 20 Baseline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	Off 0 0 0 On On 4.00 20 Baseline
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.	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Off 0 0 0 On On 4.00 20 Baseline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Off 0 0 0 On On 4.00 20 Baseline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	Off 0 0 0 On On 4.00 20 Baseline Active Active
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	Off 0 0 0 On On 4.00 20 Baseline Active Active Active
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[13] Meas[14]	Off 0 0 0 On On 4.00 20 Baseline Bateline Baseline Bateline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15] Meas[15] Meas[16]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline
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	Long term Magnitude 151 0 ms Off 200 100 % 5/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline

Meas[20] Motion correction Spatial filter	Active Off Off	
Sequence		
Introduction	Off	
Bandwidth	1250 Hz/Px	
Flow comp.	No	
Free echo spacing	Off	

1.01 ms

SIR accel. factor 1
EPI factor 182
Gradient mode Normal
RF spoiling Off

Excite pulse duration 3640 us
Slice multiplier 1

Echo spacing

Step [2]

Excite pulse duration Slice multiplier 1 Multi-band PE shift 0 1/FoV zBlip scheme 0 MB kernel size 0 MB knockout band 0 No. of interleaved TEs 0 RF pulse shape 0 EPI noise scans EPI full reference scan 0 Single-band images On MB RF phase scramble Off SENSE1 coil combine Off Log physiology to file Off Invert RO/PE polarity Off Off Save reduced raw data Readout slice trace Off Disable ramp sampling Off PF omits higher k-space Off Online multi-band recon. Online 0.10 FFT scale factor 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

0

\\USER\Feinberglab\Jen\gonogo frontal pilot\b1map_200V_TR1000_nova

TA: 1:09 Voxel size: 3.9×3.9×5.0 mm		0 mm Rel. SNR: 1.00 USER	nm Rel. SNR: 1.00 USER: b1map_658	
Properties		M3	On Off	
Prio Recon	Off	V32	∪ 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	Chim made	Tuna un	
further preparation		Shim mode	Tune up	
Wait for user to start	Off	Adjust with body coil	Off	
Start measurements	single	Confirm freq. adjustment	Off	
) autica	•	Assume Silicone	Off	
Routine		! Ref. amplitude 1H	200.000 V	
Slice group 1	40	Adjustment Tolerance	Auto	
Slices	10	Adjust volume	lananto:	
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	
	•	Angles	1	
Contrast	00.1	Amplitude Weighting	Linear	
Flip angle 1	90 deg	Scale Bar	Enabled	
Flip angle 2	120 deg	Raw Data	Disabled	
Flip angle 3	60 deg			
Flip angle 4	135 deg			
Flip angle 5	45 deg			
Measurements	1			
Resolution				
Base resolution	64			
Phase resolution	100 %			
Raw filter	Off			
Series	Interlogued			
Series	Interleaved			
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	H			
Table position	0 mm			
Inline Composing	Off			
System				
T1	On			
M2	On			
DA	On			

B4

On

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_p8mm_MB2IPAT3_pf6_151i_gonogo_tr2000 TA: 5:33 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	System	
Inline movie	Off	System	0
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	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
	on igio	Transversal	F >> H
Routine		Coil Combine Mode	Sum of Squares
Slice group 1		AutoAlign	
Slices	58		
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	R >> L	Confirm freq. adjustment	On
Rotation	90.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	230.000 V
FoV read	160 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	71010
Slice thickness	0.80 mm	Position	L1.4 A31.7 F4.9
TR	2000 ms	Orientation	Transversal
TE	23.6 ms	Rotation	90.00 deg
Multi-band accel. factor	2	A >> P	160 mm
Filter	None		
Coil elements	B4;M2,3;T1	R >> L	146 mm
	D4,IVIZ,3,1 1	F >> H	47 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	70 deg	GLM Statistics	Off
Fat suppr.	Fat sat.		Off
	Long term	Dynamic t-maps	
Avoraging mode		Starting ignore meas	0
Averaging mode	•		•
Reconstruction	Magnitude	Ignore after transition	0
Reconstruction Measurements	Magnitude 151	Ignore after transition Model transition states	On
Reconstruction Measurements Delay in TR	Magnitude 151 0 ms	Ignore after transition Model transition states Temp. highpass filter	On On
Reconstruction Measurements	Magnitude 151	Ignore after transition Model transition states Temp. highpass filter Threshold	On On 4.00
Reconstruction Measurements Delay in TR	Magnitude 151 0 ms	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	On On 4.00 20
Reconstruction Measurements Delay in TR Multiple series Resolution	Magnitude 151 0 ms Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	On On 4.00 20 Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution	Magnitude 151 0 ms Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	On On 4.00 20 Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Magnitude 151 0 ms Off 200 100 %	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	On On 4.00 20 Baseline Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	Magnitude 151 0 ms Off 200 100 % 6/8	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	On On 4.00 20 Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Magnitude 151 0 ms Off 200 100 %	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3]	On On 4.00 20 Baseline Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	Magnitude 151 0 ms Off 200 100 % 6/8	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4]	On On 4.00 20 Baseline Baseline Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	Magnitude 151 0 ms Off 200 100 % 6/8 Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	On On 4.00 20 Baseline
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.	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[4] Meas[5] Meas[6] Meas[7] Meas[7] Meas[8] Meas[9] Meas[10]	On On 4.00 20 Baseline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	On On 4.00 20 Baseline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off On	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	On On 4.00 20 Baseline Active Active
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	On On 4.00 20 Baseline Bateline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off On	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	On On 4.00 20 Baseline Bateline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	On On 4.00 20 Baseline Bateline
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off On Off Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[15] Meas[16]	On On 4.00 20 Baseline Active Active Active Active Active Active Active
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	Magnitude 151 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	On On 4.00 20 Baseline Bateline

Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Sequence	

Sequence	
Introduction	Off
Bandwidth	1250 Hz/Px No
Flow comp.	Off
Free echo spacing	- · ·
Echo spacing	1.01 ms
SIR accel. factor	1
EPI factor	182
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration	3640 us
Slice multiplier	1
Multi-band PE shift	0 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
MB RF phase scramble	Off
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 Standard
Triggering scheme	- 10 1 d. c
Starting ignore meas	0
Paradigm size	2 1
Multiplier	1
Step [1]	0
Step [2]	U

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_p8mm_MB2IPAT3_pf6_202i_gonogo_tr1500 TA: 5:28 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

Draportica		Special sat.	None
Properties Prio Popon	O#		 П
Prio Recon	Off	Table position	H 0 mm
Before measurement		Table position	0 mm
After measurement	0-	Inline Composing	Off
Load to viewer	On Off	System	
Inline movie	Off	T1	On
Auto store images	On O"	M2	On
Load to stamp segments	Off	B4	On
Load images to graphic	Off	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
Slice group 1		 Coil Combine Mode 	Sum of Squares
Slices	44	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal		Off
Phase enc. dir.	R >> L	Adjust with body coil	Oπ On
Rotation	90.00 deg	Confirm freq. adjustment	_
Phase oversampling	90.00 deg 0 %	Assume Silicone	Off
FoV read	160 mm	! Ref. amplitude 1H	230.000 V
FoV phase	91.0 %	Adjustment Tolerance	Auto
Slice thickness		Adjust volume	14 4 404 7 54 0
TR	0.80 mm 1500 ms	Position	L1.4 A31.7 F4.9
TE		Orientation	Transversal
· · =	23.6 ms	Rotation	90.00 deg
Multi-band accel. factor	2 Nana	A >> P	160 mm
Filter	None	R >> L	146 mm
Coil elements	B4;M2,3;T1	F >> H	36 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	60 deg	GLM Statistics	Off
Fat suppr.	Fat sat.	Dynamic t-maps	Off
Averaging mode	Long term		0
Reconstruction	Magnitude	Starting ignore meas	
Measurements	202	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On On
Multiple series	Off	Temp. highpass filter Threshold	
	OII		4.00 20
Resolution		Paradigm size	-
Base resolution	200	— Meas[1]	Baseline Baseline
Phase resolution	100 %	Meas[2]	Baseline Baseline
Phase partial Fourier	6/8	Meas[3]	
Interpolation	Off	Meas[4]	Baseline Baseline
DAT mode	CDADDA	Meas[5]	
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48 CDE	Meas[8]	Baseline
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	Meas[13]	Active
Hamming	Off	Meas[14]	Active
		Meas[15]	Active
Geometry		Meas[16]	Active
Multi-slice mode	Interleaved	Meas[17]	Active
Series	Interleaved	Meas[18]	Active
I		Meas[19]	Active

Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Sequence	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 1250 Hz/Px No Off 1.01 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 182 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 GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 0 1 0 On Off Off Off Off Off Off Off Off Off

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_p8mm_MB2IPAT3_pf6_302i_gonogo_tr1000 TA: 5:19 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	Systom	
Inline movie	Off	System T1	02
Auto store images	On		On On
Load to stamp segments	Off	M2 B4	On
Load images to graphic	Off	M3	On
segments		_	On
Auto open inline display	Off	V32	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
I	3	Transversal	F >> H
Routine		Coil Combine Mode	Sum of Squares
Slice group 1		AutoAlign	
Slices	28	Auto Coil Select	Default
Dist. factor	0 %	Auto Coli Select	Delauli
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	R >> L	Confirm freq. adjustment	On
Rotation	90.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	230.000 V
FoV read	160 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	
Slice thickness	0.80 mm	Position	L1.4 A31.7 F4.9
TR	1000 ms	Orientation	Transversal
TE	23.8 ms	Rotation	90.00 deg
Multi-band accel. factor	2	A >> P	160 mm
Filter	None	R >> L	146 mm
Coil elements	B4;M2,3;T1	F>> H	23 mm
	5 1,1112,0,1	l	23 11111
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	50 deg	_	Off
Flip angle Fat suppr.	50 deg Fat sat.	GLM Statistics	Off
Fat suppr.	Fat sat.	GLM Statistics Dynamic t-maps	Off
Fat suppr. Averaging mode	Fat sat. Long term	GLM Statistics Dynamic t-maps Starting ignore meas	Off 0
Fat suppr. Averaging mode Reconstruction	Fat sat. Long term Magnitude	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition	Off 0 0
Fat suppr. Averaging mode Reconstruction Measurements	Fat sat. Long term Magnitude 302	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states	Off 0 0 On
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR	Fat sat. Long term Magnitude 302 0 ms	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter	Off 0 0 On On
Fat suppr. Averaging mode Reconstruction Measurements	Fat sat. Long term Magnitude 302	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold	Off 0 0 On On 4.00
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR	Fat sat. Long term Magnitude 302 0 ms	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	Off 0 0 On On 4.00 20
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series	Fat sat. Long term Magnitude 302 0 ms	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	Off 0 0 On On 4.00 20 Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution	Fat sat. Long term Magnitude 302 0 ms Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	Off 0 0 On On 4.00 20 Baseline Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Fat sat. Long term Magnitude 302 0 ms Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7]	Off 0 0 0 On On 4.00 20 Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Off 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7]	Off 0 0 0 On On 4.00 20 Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Off 0 0 0 On On 4.00 20 Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr.	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	Off 0 0 0 On On 4.00 20 Baseline
Fat suppr. Averaging mode Reconstruction Measurements Delay in TR Multiple series Resolution Base resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[7] Meas[8] Meas[9] Meas[9]	Off 0 0 0 On On 4.00 20 Baseline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12]	Off 0 0 0 On On 4.00 20 Baseline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	Off 0 0 0 On On 4.00 20 Baseline Active Active
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14]	Off 0 0 0 On On 4.00 20 Baseline Bateline Baseline Bateline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[15] Meas[16]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline
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	Fat sat. Long term Magnitude 302 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[6] Meas[7] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15]	Off 0 0 0 On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Bateline

Active
Off
Off

Sequence

Sequence	
Introduction Bandwidth Flow comp. Free echo spacing	Off 1250 Hz/Px No Off
Echo spacing	1.01 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 182 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 GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 0 0 On Off Off Off Off Off Off Off Off Off
Multiplier Step [1] Step [2]	1 1 0

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_1mm_MB2IPAT3_pf6_151i_gonogo_test_tr2000 TA: 5:30 PAT: 3 Voxel size: 1.0×1.0×1.5 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	System	
Inline movie	Off	T1	On
Auto store images	On	M2	On
Load to stamp segments	Off	B4	On
Load images to graphic	Off	M3	On
segments		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
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	58	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	R1.7 A23.6 H11.6	Shim mode	Standard
Orientation	T > C-2.6	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	230.000 V
FoV read	200 mm	Adjustment Tolerance	Auto
FoV phase	93.0 %	Adjust volume	
Slice thickness	1.50 mm	Position	R1.7 A23.6 H11.6
TR	2000 ms	Orientation	T > C-2.6
TE	24.0 ms	Rotation	0.00 deg
Multi-band accel. factor	2	R >> L	200 mm
Filter	None	A >> P	186 mm
Coil elements	B4;M2,3;T1	F >> H	87 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None		140110
Flip angle	70 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	151	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	200	— Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier			Baseline
Internalation	6/8	Meas[3]	
Interpolation		Meas[4]	Baseline
	6/8 Off	Meas[4] Meas[5]	Baseline Baseline
PAT mode	6/8 Off GRAPPA	Meas[4] Meas[5] Meas[6]	Baseline Baseline Baseline
PAT mode Accel. factor PE	6/8 Off GRAPPA 3	Meas[4] Meas[5] Meas[6] Meas[7]	Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE Ref. lines PE	6/8 Off GRAPPA 3 48	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE	6/8 Off GRAPPA 3	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE Ref. lines PE	6/8 Off GRAPPA 3 48	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE Ref. lines PE Reference scan mode	6/8 Off GRAPPA 3 48 GRE	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter	6/8 Off GRAPPA 3 48 GRE Off Off Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize	6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter	6/8 Off GRAPPA 3 48 GRE Off Off Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	6/8 Off GRAPPA 3 48 GRE Off Off Off On Off Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	6/8 Off GRAPPA 3 48 GRE Off Off Off On Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active

Meas[20]	Active
Motion correction	Off
Spatial filter	Off
•	

Spatial filter	Off
Sequence	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 1250 Hz/Px No Off 1 ms
SIR accel. factor EPI factor Gradient mode RF spoiling	1 186 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 GRE iPAT ref. FA Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 0 0 On Off Off Off Off Off Off Off Off Off

\\USER\Feinberglab\Jen\gonogo frontal pilot\GE_1p4mm_MB2IPAT3_pf6_tr2255_te23_68SL_320i_resting TA: 12:24 PAT: 3 Voxel size: 1.4×1.4×1.4 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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	1	
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	Desitioning mode	FIV
further preparation	Oli	Positioning mode	FIX
Wait for user to start	Off	MSMA	S - C - T
		Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal Coil Combine Mode	F >> H
Slice group 1			Sum of Squares
Slices	68	AutoAlign	Default
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A12.2 F0.9	Shim mode	Standard
Orientation	T > C-5.4	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	200.000 V
FoV read	280 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	Auto
Slice thickness	1.40 mm	Position	L1.4 A12.2 F0.9
TR	2255 ms	Orientation	
TE	23.0 ms		T > C-5.4
- -	23.0 1115	Rotation	0.00 deg
Multi-band accel. factor		R >> L	280 mm
Filter	None DAMO 2:T4	A >> P	255 mm
Coil elements	B4;M2,3;T1	F >> H	96 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	89 deg	GLM Statistics	Off
Fat suppr.	Fat sat.		Off
Averaging mode		 Dynamic t-maps 	Oli
Averaging mode	Long term	Ctarting ignore mass	^
Reconstruction	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	Magnitude 320	Ignore after transition Model transition states	0 On
Measurements Delay in TR	Magnitude 320 0 ms	Ignore after transition Model transition states Temp. highpass filter	0 On On
Measurements	Magnitude 320	Ignore after transition Model transition states Temp. highpass filter Threshold	0 On On 4.00
Measurements Delay in TR	Magnitude 320 0 ms	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	0 On On 4.00 12
Measurements Delay in TR Multiple series Resolution	Magnitude 320 0 ms Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	0 On On 4.00 12 Baseline
Measurements Delay in TR Multiple series Resolution Base resolution	Magnitude 320 0 ms Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	0 On On 4.00 12 Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Magnitude 320 0 ms Off 200 100 %	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1]	0 On On 4.00 12 Baseline Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	Magnitude 320 0 ms Off 200 100 % 6/8	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	0 On On 4.00 12 Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution	Magnitude 320 0 ms Off 200 100 %	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size — Meas[1] Meas[2] Meas[3]	0 On On 4.00 12 Baseline Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier	Magnitude 320 0 ms Off 200 100 % 6/8	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4]	0 On On 4.00 12 Baseline Baseline Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	Magnitude 320 0 ms Off 200 100 % 6/8 Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	0 On On 4.00 12 Baseline Baseline Baseline Baseline Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Magnitude 320 0 ms Off 200 100 % 6/8 Off GRAPPA	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	0 On On 4.00 12 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Measurements Delay in TR Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Accel. factor PE	Magnitude 320 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	0 On On 4.00 12 Baseline
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	Magnitude 320 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 Segmented	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	0 On On 4.00 12 Baseline
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.	Magnitude 320 0 ms Off 200 100 % 6/8 Off GRAPPA 3 48 Segmented Off	Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[7] Meas[8] Meas[9] Meas[10]	O On On 4.00 12 Baseline
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EPI factor Gradient mode	1 182 Normal Off
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]	3640 us 1 0 1/FoV 0 0 0 0 0 1 0 0 On Off Off Off Off Off Off Off Off Oth Online 0.10 Never Standard 0 2 1 1 0

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