\\USER\Feinberglab\Test\0714\localizer_200V_newcoil

Voxel size: 1.2x1.1x3.0 mm Rel. SNR: 1.00

SIEMENS: gre

PAT: Off

TA: 0:27

			-
Properties		Phase resolution	90 %
Prio Recon	Off	——— Phase partial Fourier	6/8
Before measurement	On	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On		
Inline movie	Off	Image Filter	Off
	On	Distortion Corr.	Off
Auto store images Load to stamp segments	Off	Prescan Normalize	Off
	Off	Normalize	Off
Load images to graphic	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
Routine		Caturation made	Otton down
		Saturation mode	Standard
Slice group 1 Slices	F	Special sat.	None
Dist. factor	5 20 %		
		Table position	H
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	Tim CT mode	Oil
Slice group 2		System	
Slices	5		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	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 dog	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
TE	3.00 ms	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averages Concatenations	1 15	! Ref. amplitude 1H	200.000 V
	15 None	Adjustment Tolerance	Auto
Filter	None PAMO 0:T4	Adjust volume	
Coil elements	B4;M2,3;T1	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	I	
	None	Physio	
Water suppr. SWI		1st Signal/Mode	None
3VVI	Off	Segments	1
Averaging mode	Short term		Nana
Reconstruction	Magnitude	Tagging	None
Measurements	1	Dark blood	Off
Multiple series	Each measurement	Resp. control	Off
1	Laon measurement	'	5 11
Resolution		Inline	
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

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

	\\USER\Feinberglab\Test\07	714\b1map_200V_TR100	
TA: 0:32	Voxel size: 3.9×3.9×5.0 mm	•	: b1map_658
Properties		M3	On
Prio Recon	Off	V32	Off
Before measurement	5 11	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	Ole in a man of a	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
Routine		Assume Silicone	Off
		! Ref. amplitude 1H	200.000 V
Slice group 1 Slices	1	Adjustment Tolerance	Auto
Dist. factor	1 150 %	Adjust volume Position	Isocenter
Position	L0.0 A5.4 H40.7	Orientation	Transversal
Orientation	L0.0 A5.4 H40.7 T > C-17.8	Rotation	0.00 deg
Phase enc. dir.	1 > C-17.8 A >> P	Rotation R >> L	350 mm
Rotation	0.00 deg	A >> P	263 mm
FoV read	250 mm	F >> H	350 mm
FoV phase	100.0 %	F >> 11	330 11111
Slice thickness	5 mm	Composing	
TR	425 ms	Sequence	
TE 1	14 ms	Contrasts	2
TE 2	14 ms	Bandwidth	2 260.416667 Hz/Px
Averages	1		200.410007 HZ/PX
Filter	None	T1 Compensation	Mean T1
Coil elements	B4;M2,3;T1	Mean T1	500.0 ms
	D+,1V12,3,111	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		
ı			
Resolution	CA		
Base resolution	64		
Phase resolution	100 %		
Raw filter	Off		
Geometry			
Series	Interleaved		
Navigator 1			
Position	R1.4 A11.5 H37.3		
Orientation	T > C-18.6		
Rotation	0.00 deg		
Base size phase	129 mm		
Base size read	87 mm		
Thickness	50 mm		
1111CK11C33			
Table position	Н		
Table position	0 mm		
Inline Composing	Off		
System			
T1	On		
M2	On		
IVIZ	On		

B4

On

\\USER\Feinberglab\Test\0714\gFactorMap

TA: 0:46	Voxel size: 0.5×0.5×5.0 mm	Rel. SNR: 1.00 USER: Noise	MeasSensitivityMap
Droportion		Table position	Н
Properties	0"	Table position	0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement		Systom	
After measurement	On	System T1	On
Load to viewer Inline movie	On Off	M2	On
	On	B4	On
Auto store images Load to stamp segments	Off	M3	On
Load images to graphic	Off	V32	Off
segments	Oli		
Auto open inline display	Off	Positioning mode	REF
Start measurement without		MSMA	S - C - T
further preparation	at 311	Sagittal	R >> L
Wait for user to start	Off	Coronal	A >> P
Start measurements	single	Transversal	F >> H
I .	o.i.igio	Save uncombined	Off
Routine		Coil Combine Mode	Adaptive Combine
Slice group 1		AutoAlign	
Slices	3	Auto Coil Select	Default
Dist. factor	400 %	Shim mode	Tune up
Position	L0.0 A16.3 H23.7	Adjust with body coil	Off
Orientation	T > C-2.9	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
FoV read	192 mm	Adjust volume	
FoV phase	100.0 %	! Position	Isocenter
Slice thickness	5.0 mm	! Orientation	Transversal
TR TE	30 ms	! Rotation	0.00 deg
	6.0 ms 1	! R >> L	350 mm
Averages Concatenations	3	! A >> P	263 mm
Filter	None	! F >> H	350 mm
Coil elements	B4;M2,3;T1	Physic	
ı	D+,W2,0,11	Physio 1st Signal/Mode	None
Contrast		TSt Signal/Mode	None
TD	0 ms	Inline	
MTC	Off	Subtract	Off
Flip angle	10 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
Averaging mode	Short term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
Multiple series	Off	MIP-Tra	Off
· ·		MIP-Time	Off
Resolution	204	Save original images	On
Base resolution	384	Commercia	
Phase resolution	100 %	Sequence	0#
Phase partial Fourier	Off	Introduction	Off
Interpolation	Off	Dimension	2D
Image Filter	Off	Contrasts	1 200 Hz/Dy
Distortion Corr.	Off	Bandwidth	200 Hz/Px
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
B1 filter	Off		Coil A wrong 1 14:11
Raw filter	Off	ICE program	CoilArrayUtil
Elliptical filter	Off	number of noise lines	384 lines
Geometry		Optimal SNR GFactor	On
Multi-slice mode	Sequential		On Off
Series	Ascending	Condition number	Off On
	7.0001/diling	Rx coil diode switching coil channel reordering	Off
Special sat.	None		
		TX/RX Nucleus	1H

TX/RX delta frequency 0 Hz
TX Nucleus None
TX delta frequency 0 Hz

\\USER\Feinberglab\Test\0714\ep2d_M2P2f1_iso75-TEST

_		Rel. SNR: 1.00 USER: ep2d_bold_OVS_flash	
Properties		Sat. region 1	
Prio Recon	Off	Thickness	110 mm
Before measurement	OII	Position	L0.0 A50.7 H0.0
After measurement		Orientation	Coronal
Load to viewer	On	Sat. region 2	
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	OII	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation	Oli	Inline Composing	Oli
Wait for user to start	Off	System	
Start measurements	single	T1	On
Start measurements	Sirigie	M2	On
Routine		B4	On
Slice group 1		M3	On
Slices	36	V32	Off
Dist. factor	50 %	Desitioning and J	FIV
Position	L1.2 P36.6 H20.5	Positioning mode	FIX
Orientation	Transversal	MSMA	S-C-T
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal	A >> P
Phase oversampling	0 %	Transversal	F >> H
FoV read	192 mm	Coil Combine Mode	Sum of Squares
FoV phase	50.0 %	AutoAlign	
Slice thickness	0.75 mm	Auto Coil Select	Default
TR	4000 ms	Shim mode	Standard
TE	28 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1		
Coll elements	D4,IVIZ,3,1 1	Adjustment Tolerance	Auto
Contrast		Adjust volume Position	1.4.2 D26 6 H20 5
MTC	Off		L1.2 P36.6 H20.5
Flip angle	70 deg	Orientation	Transversal
Fat suppr.	Fat sat.	Rotation	0.00 deg
	Longitores	R >> L A >> P	192 mm
Averaging mode	Long term		96 mm 41 mm
Reconstruction Measurements	Magnitude 7	F >> H	41 111111
	•	Physio	
Delay in TR	0 ms Off	1st Signal/Mode	None
Multiple series	Oli		
Resolution		BOLD	0"
Base resolution	256	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
Phase partial Fourier	6/8	Starting ignore meas	0
Interpolation	Off	Ignore after transition	0
DAT	OD A DD A	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On 4.00
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
Distortion Corr.	Off	Meas[2]	Baseline
Prescan Normalize	Off	Meas[3]	Baseline
Raw filter	On	Meas[4]	Baseline
Elliptical filter	Off	Meas[5]	Baseline
Hamming	Off	Meas[6]	Baseline
	On .	Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	Meas[9]	Baseline
Series	Ascending	Meas[10]	Baseline
	-	Meas[11]	Active
		0/00	

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.05 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 2000 3 1.00 4 On

\\USER\Feinberglab\Test\0714\ep2d_M3P2f3_iso75-TEST

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

TA: 0:44

PAT: 2

Dranartias		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A50.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronai
Load to viewer	On	Thickness	110 mm
Inline movie	Off		
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	Oli	Table position	Н
	0#		
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off	T1	On
Start measurements	single		_
		M2	On
Routine		B4	On
Slice group 1		M3	On
Slices	36	V32	Off
Dist. factor	50 %		
Position	L1.2 P36.6 H20.5	Positioning mode	FIX
Orientation	Transversal	MSMA	S - C - T
Phase enc. dir.	A >> P	Sagittal	R >> L
		Coronal	A >> P
Rotation	0.00 deg	Transversal	F >> H
Phase oversampling	0 %	Coil Combine Mode	Sum of Squares
FoV read	192 mm	AutoAlign	
FoV phase	50.0 %	_	
Slice thickness	0.75 mm	Auto Coil Select	Default
TR	4000 ms	Shim mode	Standard
TE	28 ms	Adjust with body coil	Off
Averages	1		_
_	1	Confirm freq. adjustment	Off
Concatenations	-	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
Contrast		Adjust volume	
MTC	Off	! Position	L1.9 P37.8 H20.1
		! Orientation	Transversal
Flip angle	70 deg	! Rotation	0.00 deg
Fat suppr.	Fat sat.	! R >> L	147 mm
Averaging mode	Long torm	! A >> P	54 mm
Averaging mode	Long term		
Reconstruction	Magnitude	! F >> H	44 mm
Measurements	8	Physio	
Delay in TR	0 ms	1st Signal/Mode	None
Multiple series	Off	13t Olgridi/Wode	140110
Resolution		BOLD	
	256	GLM Statistics	Off
Base resolution	256	Dynamic t-maps	Off
Phase resolution	100 %	Starting ignore meas	0
Phase partial Fourier	6/8	Ignore after transition	0
Interpolation	Off	Model transition states	
DAT I	OD 4 DD 4		On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
		Meas[2]	Baseline
Distortion Corr.	Off	Meas[3]	Baseline
Prescan Normalize	Off	Meas[4]	Baseline
Raw filter	On		Baseline
Elliptical filter	Off	Meas[5]	
Hamming	Off	Meas[6]	Baseline
		Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	Meas[9]	Baseline
Series	Ascending	Meas[10]	Baseline
	J	Meas[11]	Active
		1	

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction	Off
Asymmetric echo	Off
Bandwidth	1086 Hz/Px
Free echo spacing	Off
Echo spacing	1.09 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On
RF90 duration	7680
MB Number	3
DummyScan Number	1
FOV Shift Number	3
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	2000
Dual On(1)	3
Echo Distance	1.00
MB Measurements	4
Ramp On	Ön
1	

\\USER\Feinberglab\Test\0714\ep2d_M1P2f1_iso75-TEST

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

TA: 0:40

PAT: 2

171. 0.40	VOXO1 0120. 0.0X0.0X0.0 11111	1.00 GOETA: 0	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A50.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronai
Load to viewer	On		110 mm
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	311	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation	2"	System	
Wait for user to start	Off	T1	On
Start measurements	single	M2	On
Routine		B4	On
		M3	
Slice group 1	00		On O"
Slices	36	V32	Off
Dist. factor	50 %	Positioning mode	FIX
Position	L1.2 P36.6 H20.5	MSMA	S - C - T
Orientation	Transversal	_	R >> L
Phase enc. dir.	A >> P	Sagittal	
Rotation	0.00 deg	Coronal	A >> P
Phase oversampling	0 %	Transversal	F >> H
FoV read	192 mm	Coil Combine Mode	Sum of Squares
FoV phase	50.0 %	AutoAlign	
Slice thickness	0.75 mm	Auto Coil Select	Default
TR	4000 ms	Oleine en elle	Ot
		Shim mode	Standard
TE	28 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
Contrast		Adjust volume	
	0"	! Position	L1.9 P37.8 H20.1
MTC	Off	! Orientation	Transversal
Flip angle	70 deg	! Rotation	0.00 deg
Fat suppr.	Fat sat.	! R >> L	147 mm
Averaging mode	Long term	! A >> P	54 mm
Reconstruction		!F>>H	44 mm
	Magnitude	117211	44 11111
Measurements	7	Physio	
Delay in TR	0 ms	1st Signal/Mode	None
Multiple series	Off	1	
Resolution		BOLD	
Base resolution	256	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
		Starting ignore meas	0
Phase partial Fourier	6/8	Ignore after transition	0
Interpolation	Off	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
		•	-
Reference scan mode	Separate	Meas[1]	Baseline
Distortion Corr.	Off	Meas[2]	Baseline
Prescan Normalize	Off	Meas[3]	Baseline
Raw filter	On	Meas[4]	Baseline
	Off	Meas[5]	Baseline
Elliptical filter		Meas[6]	Baseline
Hamming	Off	Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	Meas[9]	Baseline
Series	Ascending	Meas[10]	Baseline
	, 306 iuing	Meas[10] Meas[11]	Active
		· ·	/10tiv6
		10/20	

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction	Off
Asymmetric echo	Off
Bandwidth	1086 Hz/Px
Free echo spacing	Off
Echo spacing	1.05 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On
RF90 duration	7600
MB Number	7680 1
DummyScan Number	2
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	2000
Dual On(1)	3
Echo Distance	1.00
MB Measurements	3
Ramp On	On
ramp on	O11

\\USER\Feinberglab\Test\0714\ep2d_M4P2f3_iso75-TEST

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

TA: 0:48

PAT: 2

Dranartica		Sat. region 1	
Properties	~	Thickness	110 mm
Prio Recon	Off	Position	L0.0 A50.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronai
Load to viewer	On		110 mm
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
		Special sat.	None
Load images to graphic	Off		
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation			
Wait for user to start	Off	System	
Start measurements	single	T1	On
Start measurements	Sirigie	M2	On
Routine		B4	On
Slice group 1		_ M3	On
	26		
Slices	36	V32	Off
Dist. factor	50 %	Positioning mode	FIX
Position	L1.2 P36.6 H20.5		S - C - T
Orientation	Transversal	MSMA	
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal	A >> P
Phase oversampling	0.00 deg 0 %	Transversal	F >> H
		Coil Combine Mode	Sum of Squares
FoV read	192 mm	AutoAlign	
FoV phase	50.0 %	Auto Coil Select	Default
Slice thickness	0.75 mm	Auto Con Select	
TR	4000 ms	Shim mode	Standard
TE	28 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
	1		
Concatenations	·	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
Contract		Adjust volume	
Contrast		– ! Position	L1.9 P37.8 H20.1
MTC	Off	! Orientation	Transversal
Flip angle	70 deg		
Fat suppr.	Fat sat.	! Rotation	0.00 deg
		! R >> L	147 mm
Averaging mode	Long term	! A >> P	54 mm
Reconstruction	Magnitude	! F >> H	44 mm
Measurements	9	, DI .	
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Widitiple series	Oli	BOLD	
Resolution			0"
Base resolution	256	 GLM Statistics 	Off
Phase resolution	100 %	Dynamic t-maps	Off
Phase partial Fourier	6/8	Starting ignore meas	0
		Ignore after transition	0
Interpolation	Off	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
Distortion Com	O#	Meas[2]	Baseline
Distortion Corr.	Off	Meas[3]	Baseline
Prescan Normalize	Off	Meas[4]	Baseline
Raw filter	On	Meas[5]	Baseline
Elliptical filter	Off		
Hamming	Off	Meas[6]	Baseline
	- 	Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	Meas[9]	Baseline
Series	Ascending	Meas[10]	Baseline
	·g	Meas[11]	Active
•		10/00	

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

	Sequence	
I	Introduction	Off
	Asymmetric echo	Off
	Bandwidth	1086 Hz/Px
	Free echo spacing	Off
	Echo spacing	1.13 ms
	EPI factor	128
	RF pulse type	Normal
	Gradient mode	Fast
	RF spoiling	On
	RF90 duration	7680
	MB Number	4
	DummyScan Number	1
	FOV Shift Number	3
	SkewType(1ff)	0
	OVS flash(1on)	1
	SER Number	1
	Spoil factor	1
	Skew Direction	1
	Sat RF90 duration	2000
	Dual On(1)	3
	Echo Distance	1.00
	MB Measurements	4
	Ramp On	On

\\USER\Feinberglab\Test\0714\ep2d_M6P2f3_iso75-TEST

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

TA: 0:56

PAT: 2

171. 0.00 1711. 2	VOXCI 3120: 0:0X0:0X0:0 111111	Trender to the trende	
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A50.7 H0.0
Before measurement		Orientation	Coronal
After measurement			Colonal
Load to viewer	On	Sat. region 2	440
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
	Off	Special sat.	None
Load images to graphic	Oli	T-1-1	
segments	.	Table position	H
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		Custom	
Wait for user to start	Off	System	
Start measurements	single	T1	On
Clart modearomente	onigio	M2	On
Routine		B4	On
Slice group 1	_	M3	On
Slices	36	V32	Off
Dist. factor	50 %		
		Positioning mode	FIX
Position	L1.2 P36.6 H20.5	MSMA	S - C - T
Orientation	Transversal	Sagittal	R >> L
Phase enc. dir.	A >> P	Coronal	A >> P
Rotation	0.00 deg		
Phase oversampling	0 %	Transversal	F >> H
FoV read	192 mm	Coil Combine Mode	Sum of Squares
FoV phase	50.0 %	AutoAlign	
Slice thickness	0.75 mm	Auto Coil Select	Default
TR	4000 ms	Shim mode	Standard
TE	29 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
	21,1112,0,11	Adjust volume	Auto
Contrast			L4 0 D27 9 H20 4
MTC	Off	! Position	L1.9 P37.8 H20.1
Flip angle	70 deg	! Orientation	Transversal
Fat suppr.	Fat sat.	! Rotation	0.00 deg
- 1 at ouppr.		! R >> L	147 mm
Averaging mode	Long term	! A >> P	54 mm
Reconstruction	Magnitude	! F >> H	44 mm
Measurements	11	I	
Delay in TR	0 ms	Physio	
		1st Signal/Mode	None
Multiple series	Off	_	
Resolution		BOLD	
Base resolution	256	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
		Starting ignore meas	0
Phase partial Fourier	6/8	Ignore after transition	0
Interpolation	Off	Model transition states	On
PAT mode	GRAPPA		On
		Temp. highpass filter	_
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
	Off	Meas[2]	Baseline
Distantian O	LIFT	Meas[3]	Baseline
Distortion Corr.		INICASIOI	
Prescan Normalize	Off		Baseline
		Meas[4]	Baseline
Prescan Normalize	Off	Meas[4] Meas[5]	Baseline
Prescan Normalize Raw filter Elliptical filter	Off On Off	Meas[4] Meas[5] Meas[6]	Baseline Baseline
Prescan Normalize Raw filter Elliptical filter Hamming	Off On	Meas[4] Meas[5] Meas[6] Meas[7]	Baseline Baseline Baseline
Prescan Normalize Raw filter Elliptical filter	Off On Off	Meas[4] Meas[5] Meas[6]	Baseline Baseline Baseline Baseline
Prescan Normalize Raw filter Elliptical filter Hamming	Off On Off	Meas[4] Meas[5] Meas[6] Meas[7]	Baseline Baseline Baseline
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off On Off Off	Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline Baseline

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.17 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 6 1 3 0 1 1 1 1 2000 3 1.00 4 On

\\USER\Feinberglab\Test\0714\ep2d_M8P2f3_iso75-TEST

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

TA: 1:04

PAT: 2

-			-,
Dranartias		Sat. region 1	
Properties	~	Thickness	110 mm
Prio Recon	Off	Position	L0.0 A50.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronal
Load to viewer	On	Thickness	110 mm
Inline movie	Off		
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	Oli	Table position	Н
	0#		
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off		On
Start measurements	single	T1	On
l	Ğ	M2	On
Routine		B4	On
Slice group 1		M3	On
Slices	32	V32	Off
Dist. factor	50 %		
Position	L1.2 P36.6 H20.5	Positioning mode	FIX
Orientation	Transversal	MSMA	S - C - T
	A >> P	Sagittal	R >> L
Phase enc. dir.		Coronal	A >> P
Rotation	0.00 deg	Transversal	F >> H
Phase oversampling	0 %	Coil Combine Mode	Sum of Squares
FoV read	192 mm		•
FoV phase	50.0 %	AutoAlign	
Slice thickness	0.75 mm	Auto Coil Select	Default
TR	4000 ms	Shim mode	Standard
TE	30 ms		
		Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
0		Adjust volume	
Contrast	~~	! Position	L1.9 P37.8 H20.1
MTC	Off	! Orientation	Transversal
Flip angle	70 deg	! Rotation	0.00 deg
Fat suppr.	Fat sat.		
		! R >> L	147 mm
Averaging mode	Long term	! A >> P	54 mm
Reconstruction	Magnitude	! F >> H	44 mm
Measurements	13	Dhyaia	
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
I	.	BOLD	
Resolution		GLM Statistics	O#
Base resolution	256		Off
Phase resolution	100 %	Dynamic t-maps	Off
Phase partial Fourier	6/8	Starting ignore meas	0
Interpolation	Off	Ignore after transition	0
	OII	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
	_	<u> </u>	
Reference scan mode	Separate	Meas[1]	Baseline
Distortion Corr.	Off	Meas[2]	Baseline
Prescan Normalize	Off	Meas[3]	Baseline
		Meas[4]	Baseline
	On	Meas[5]	Baseline
Raw filter			
Elliptical filter	Off		Baseline
		Meas[6]	Baseline Baseline
Elliptical filter Hamming	Off	Meas[6] Meas[7]	Baseline
Elliptical filter Hamming Geometry	Off Off	Meas[6] Meas[7] Meas[8]	Baseline Baseline
Elliptical filter Hamming Geometry Multi-slice mode	Off Off Interleaved	Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline
Elliptical filter Hamming Geometry	Off Off	Meas[6] Meas[7] Meas[8]	Baseline Baseline

Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth	Off Off 1086 Hz/Px
Free echo spacing Echo spacing	Off 1.21 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 8 1 3 0 1 1 1 1 2000 3 1.00 4 On

\\USER\Feinberglab\Test\0714\ep2d_M2Px2_OVS_flash_iso55_fmri

TA: 4:36 PAT: 2	Voxel size: 0.5×0.5×0.6	mm Rel. SNR: 1.00 USER:	ep2d_bold_OVS_flash
Properties		Sat. region 1	
Prio Recon	Off	Thickness	110 mm
Before measurement	Oli	Position	L0.0 A33.7 H0.0
After measurement		Orientation	Coronal
Load to viewer	On	Sat. region 2	
Inline movie	Off	Thickness	110 mm
	On	Position	L0.0 P136.2 F35.7
Auto store images Load to stamp segments	Off	Orientation	C > T14.7
	Off	Special sat.	None
Load images to graphic	Oli	Table position	H
segments	Off	Table position	0 mm
Auto open inline display Start measurement without	On	Inline Composing	Off
	On	Inline Composing	Oli
further preparation Wait for user to start	Off	System	
Start measurements		T1	On
Start measurements	single	M2	On
Routine		B4	On
Slice group 1		M3	On
Slices	50	V32	Off
Dist. factor	50 %	Desition in the Land	FIV
Position	L1.2 P47.8 H18.1	Positioning mode	FIX
Orientation	Transversal	MSMA	S - C - T
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal	A >> P
Phase oversampling	0 %	Transversal	F >> H
FoV read	140 mm	Coil Combine Mode	Sum of Squares
FoV phase	50.0 %	AutoAlign	
Slice thickness	0.55 mm	Auto Coil Select	Default
TR	4000 ms	Shim mode	Standard
TE	28 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	None	? Ref. amplitude 1H	0.000 V
Coil elements	B4;M2,3;T1	Adjustment Tolerance	Auto
Con diditions	D 1,1112,0,1 1	Adjust volume	Auto
Contrast		! Position	L1.9 P37.8 H20.1
MTC	Off	! Orientation	Transversal
Flip angle	70 deg	! Rotation	0.00 deg
Fat suppr.	Fat sat.	1.5	147 mm
Averaging mode	Long term	! A >> P	54 mm
Reconstruction	Magnitude	!F>> H	44 mm
Measurements	66	I	
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
	.	BOLD	
Resolution		— GLM Statistics	Off
Base resolution	256	Dynamic t-maps	Off
Phase resolution	100 %	Starting ignore meas	0
Phase partial Fourier	6/8	Ignore after transition	0
Interpolation	Off	Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
		Meas[1]	Baseline
Distortion Corr.	Off	Meas[2]	Baseline
Prescan Normalize	Off	Meas[4]	Baseline
Raw filter	On	Meas[5]	Baseline
Elliptical filter	Off	Meas[5] Meas[6]	Baseline
Hamming	Off	Meas[7]	Baseline
Goomotry			Baseline
Geometry	lata da a const	Meas[8]	
Multi-slice mode	Interleaved	Meas[9]	Baseline Baseline
Series	Ascending	Meas[10]	
		···· Meas[11]	Active

Active
Active
Off
Off

Sequence	
Introduction Asymmetric echo	Off Allowed
Bandwidth	850 Hz/Px
Free echo spacing	Off
Echo spacing	1.07 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On
RF90 duration	7680
MB Number	2
DummyScan Number	1
FOV Shift Number	1
SkewType(1ff)	0
OVS flash(1on)	1
SER Number	1
Spoil factor	1
Skew Direction	1
Sat RF90 duration	2000
Dual On(1)	3
Echo Distance MB Measurements	1.00
	63 On
Ramp On	OII

Rel. SNR: 1.00

Voxel size: 0.8×0.8×0.8 mm

TA: 1:19

PAT: 2

USER: ep2d_bold_OVS_flash

Properties	TA. 1.19 PA1. 2	VOXELSIZE. U.6XU.6XU.6 IIIIII	Rei. SINK. 1.00 USEK.	epzu_bolu_OvS_liasii
Prior Resourcement			Sat region 1	
Prio Recon Coll	•			110 mm
Before measurement		Off		_
Alter measurement Load to viewer On Inline move On Inline move On Inline move On On On On On On On O				
Load to Stemp segments		_		
Inline move				110 mm
Auto store images Contentation				
Load to stamp segments Off Special sat. None				
Load images to graphic sogments Auto open inline displays Start measurement without of Unither preparation Wait for user to start Start measurements Single Fill System Fill On Fill				_
Auto open inline display Start measurement without further preparation Valt for user to start Start measurements Single E17		Off		
Start measurement without further proparation Wait for user to start Off System E17				
Turther preparation Wait for user to start Start measurements Single E17				
Wait for user to start Start measurements Start measurements Single ETT		On	Inline Composing	Off
Visit of Order to Start measurements E17		0"	System	
Start measurements				On
Silice group 1	Start measurements	single		
Silice group 1 E20	Routine			
Silices	Slice group 1			
Dist. factor		50		On
Position				
Orientation				
Phase enc. dir. A >> P E05 On	Orientation			
Phase oversampling	Phase enc. dir.	A >> P	E05	On
Phase oversampling	Rotation	0.00 deg	E06	On
FoV pase	Phase oversampling		E07	On
Silice thickness 0.75 mm TR 2200 ms E10 On		192 mm	E08	On
TR	FoV phase		E09	On
TE	Slice thickness	0.75 mm	E10	On
Averages	TR	2200 ms	E11	On
Concatenations	TE	27 ms	E12	On
Filter	Averages	1	E13	On
Coil elements E01-20 E16 On Contrast MTC Off MSMA S - C - T Flip angle 70 deg Sagittal R >> L Fat suppr. Fat sat. Coronal A >> P Averaging mode Long term Coil Combine Mode Sum of Squares Reconstruction Magnitude Auto Coil Select Sum of Squares Measurements 33 Auto Coil Select Default Multiple series Off Shim mode Standard Adjust with body coil Off Off Phase resolution 100 % Ref. amplitude H 0.000 V Phase partial Fourier Interpolation 6/8 Adjust with body coil Off PAT mode GRAPPA Ref. amplitude H 0.000 V Accel. factor PE 2 ! Position L1.9 P47.3 H12.0 Persecons mode Separate ! Rotation 0.00 deg Reference scan mode Separate ! Rotation 0.00 deg Prescan Normalize Off Ist Signal/	Concatenations	1	E14	On
Contrast Positioning mode FIX MTC Off MSMA S - C - T Filip angle 70 deg Sagittal R >> L Fat suppr. Fat sat. Coronal A >> P Averaging mode Long term Transversal F >> H Averaging mode Long term Coil Combine Mode Sum of Squares Averaging mode Long term Coil Combine Mode Sum of Squares Averaging mode Long term Coil Combine Mode Sum of Squares Auto Align	Filter	None	E15	On
MTC Off Flip angle 70 deg 70 deg MSMA S - C - T Fat suppr. Fat sat. Coronal R > L Averaging mode Reconstruction Measurements Long term Magnitude Transversal F > H Measurements Multiple series 33 Off AutoAldign — AutoCoil Select Default Resolution Phase resolution Phase partial Fourier Interpolation 256 Off Shim mode Adjust with body coil Off Off PAT mode Accel. factor PE Ref. lines PE Ref. lines PE Ref. lines PE Reference scan mode GRAPPA Separate ! Position ! Rotation L1.9 P47.3 H12.0 Distortion Corr. Prescan Normalize Raw filter On Elliptical filter Hamming Off ! Rotation Interleaved 0.00 deg Geometry Interleaved Series Ascending Starting ignore meas Ignore after transition Off	Coil elements	E01-20	E16	On
MTC Off Flip angle 70 deg 70 deg MSMA S - C - T Fat suppr. Fat sat. Coronal R > L Averaging mode Reconstruction Measurements Long term Magnitude Transversal F > H Measurements Multiple series 33 Off AutoAldign — AutoCoil Select Default Resolution Phase resolution Phase partial Fourier Interpolation 256 Off Shim mode Adjust with body coil Off Off PAT mode Accel. factor PE Ref. lines PE Ref. lines PE Ref. lines PE Reference scan mode GRAPPA Separate ! Position ! Rotation L1.9 P47.3 H12.0 Distortion Corr. Prescan Normalize Raw filter On Elliptical filter Hamming Off ! Rotation Interleaved 0.00 deg Geometry Interleaved Series Ascending Starting ignore meas Ignore after transition Off	Contrast		Positioning mode	EIV
Flip angle		Off		
Fat suppr. Fat sat. Averaging mode Reconstruction Magnitude Reconstruction Magnitude Measurements 33 Auto Coil Combine Mode Sum of Squares AutoAlign				
Averaging mode Reconstruction Magnitude Reconstruction Magnitude Reconstruction Magnitude MatoAlign Multiple series Off Multiple series Off Multiple series Off Multiple series Off Magnitude Magnitude Multiple series Off Magnitude Multiple series Off Multiple series Off Magnitude Multiple series Off Multi-slice mode Multi-slice mode Magnitude Magnitude Magnitude Magnitude Magnitude Multi-slice mode Magnitude Magni		•		
Averaging mode Reconstruction Magnitude Measurements 33 Delay in TR Multiple series Off Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Off Accel. factor PE Ref. lines PE Ref. lines PE Reference scan mode Reference scan mode Resonation Off Resolution Off Resolution Off PAT mode Accel. factor PE Ref. lines PE Ref. amplitude 1H Ref. adjustment Resume Silicone Off Resument Tolerance Adjust volume Peosition Ref. amplitude 1H R	1 at Suppr.	1 at 3at.		
Reconstruction Magnitude Measurements 33 Delay in TR 0 ms Multiple series Off Resolution Shim mode Base resolution 256 Phase partial Fourier 6/8 Interpolation Off PAT mode GRAPPA Accel. factor PE 2 Ref. lines PE 24 Reference scan mode Separate Distortion Corr. Off Prescan Normalize Off Raw filter On Elliptical filter Off Hamming Off Multi-slice mode Interleaved Series Ascending Auto Coil Select Default Auto Coil Select Default Adjust with body coil Confirm freq, adjustment Off Assume Silicone Off PResumptive 10 H Adjustment Tolerance Adjust volume PPosition 1.1.9 P47.3 H12.0 P1.9 P47.3 H12.0 P1.				
Measurements 33				
Delay in TR			_	Default
Resolution Base resolution 256 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off PAT mode GRAPPA 4. Position 7. Position 7. Prescan mode Separate Off Prescan Normalize Off Raw filter On Elliptical filter Off Raw filter Off Geometry Multi-slice mode Series Ascending Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Presc. adjustment Tolerance Auto Adjust with body coil Off Assume Silicone Off Presc. adjustment Off Presc. adjustment Assume Silicone Off Presc. Assume Silicone Off Presc. Assume Silicone Off Presc. adjustment Off Positione Off Presc. adjustment Off Presc. adjustment Off Positione Off Presc. adjustment Off Presc. adjustment Off Presc. adjustment Off Positione Off Presc. adjustment Off Presc. adjustment Off Positione Off Presc. adjustment Off Positione Off Presc. adjustment Off Positione Off Position L1.9 P47.3 H12.0 Prescan Not Ob	1			
Resolution Base resolution 256 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off PAT mode GRAPPA Accel. factor PE 2 Ref. lines PE 24 Reference scan mode Separate Distortion Corr. Off Prescan Normalize Off Raw filter On Elliptical filter Off Hamming Off Geometry Multi-slice mode Series Ascending Confirm freq. adjustment Off Assume Silicone Off Poff Poff Position Coff Poff Position L1.9 P47.3 H12.0 Poff Position L1.9 P47.3 H12.0 Poff Ray mplitude 1H Adjustment Tolerance Adjust volume Poff Position L1.9 P47.3 H12.0 Poff Position Corn Transversal Portentation Transversal Poff Position O.00 deg Poff Position O.00 deg Position O.00 deg Position Corn Off Physio Physio Physio GLM Statistics Off Dynamic t-maps Off Starting ignore meas O Ignore after transition O	Multiple series	Off		
Base resolution 256	Resolution			_
Phase resolution 100 % ? Ref. amplitude 1H 0.000 V Adjustment Tolerance Adjust volume PAT mode GRAPPA ! Position L1.9 P47.3 H12.0 Accel. factor PE 2 ! Orientation 0.00 deg Ref. lines PE 24 ! Rotation 0.00 deg Reference scan mode Separate ! Rotation 0.00 deg Reference scan Mormalize Off Raw filter On Physio Elliptical filter Off 1st Signal/Mode None BOLD Geometry Multi-slice mode Interleaved Series Ascending Interleaved Ignore after transition 0 Interleaved Ignore after transition Interleaved Ignore Interleaved Ignore Interleaved Ignore Interleaved Ignore after transition Interleaved Ignore Interleaved Ignore Interleaved Ignore		256		
Phase partial Fourier				
Interpolation Off Adjust volume PAT mode GRAPPA ! Position L1.9 P47.3 H12.0 Accel. factor PE 2 ! Orientation Transversal Ref. lines PE 24 ! Rotation 0.00 deg Reference scan mode Separate ! R > L 147 mm Distortion Corr. Off ! F > H 44 mm Distortion Corr. Off ! F > H 44 mm Prescan Normalize Off Raw filter On Physio Elliptical filter Off Ist Signal/Mode None Hamming Off BOLD Geometry Multi-slice mode Interleaved Series Ascending Starting ignore meas 0 Ingore after transition O				
Adjust Volume	•			Auto
Accel. factor PE 2 ! Orientation Transversal Ref. lines PE 24 ! Rotation 0.00 deg Reference scan mode Separate ! R >> L 147 mm Distortion Corr. Off ! F >> H 44 mm Prescan Normalize Off F >> H 44 mm Raw filter On Physio Elliptical filter Off 1st Signal/Mode None Hamming Off BOLD Geometry GLM Statistics Off Multi-slice mode Interleaved Dynamic t-maps Off Series Ascending Starting ignore meas 0 Ignore after transition 0				
Ref. lines PE 24 ! Rotation 0.00 deg Reference scan mode Separate ! R >> L 147 mm Distortion Corr. Off ! F >> H 44 mm Prescan Normalize Off Physio Raw filter On Physio Elliptical filter Off 1st Signal/Mode None Hamming Off BOLD Geometry GLM Statistics Off Multi-slice mode Interleaved Dynamic t-maps Off Series Ascending Starting ignore meas 0 Ignore after transition 0				
Reference scan mode Reference scan mode Separate ! R >> L ! A >> P 54 mm ! F >> H 44 mm Prescan Normalize Raw filter Raw filter On Elliptical filter Hamming Off Multi-slice mode Series Ascending ! R >> L 147 mm ! A >> P 54 mm 44 mm Physio Physio Raw filter Physio Separate ! R >> L 147 mm ! A >> P 54 mm 44 mm Physio Separate ! R >> L 147 mm Starting ignore meas Off Starting ignore meas Off Ignore after transition O				
A >> P 54 mm				•
Distortion Corr. Off Prescan Normalize Off Raw filter On Physio Elliptical filter Off Hamming Off Geometry Multi-slice mode Series Ascending Distortion Corr. ! F >> H 44 mm 44 mm Physio Physio 1st Signal/Mode None BOLD GLM Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition 0	Reference scan mode	Separate		
Prescan Normalize Off Raw filter On Physio Elliptical filter Off Ist Signal/Mode None Hamming Off Geometry Multi-slice mode Interleaved Series Ascending Physio Physio Ist Signal/Mode None Mone Off BOLD GLM Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition 0	Distortion Corr.	Off		
Raw filter On Physio Elliptical filter Off 1st Signal/Mode None Hamming Off BOLD Geometry GLM Statistics Off Multi-slice mode Interleaved Dynamic t-maps Off Series Ascending Starting ignore meas 0 Ignore after transition 0			! F >> H	44 mm
Elliptical filter Off 1st Signal/Mode None Hamming Off BOLD Geometry GLM Statistics Off Multi-slice mode Interleaved Dynamic t-maps Off Series Ascending Starting ignore meas 0 Ignore after transition 0			Physio	
Hamming Off Geometry Multi-slice mode Interleaved Dynamic t-maps Off Series Ascending Starting ignore meas 0 Ignore after transition 0				None
Geometry Multi-slice mode Interleaved Series Ascending GLM Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition 0	<u> </u>		1	
Multi-slice modeInterleavedDynamic t-mapsOffSeriesAscendingStarting ignore meas0Ignore after transition0				0#
Series Ascending Starting ignore meas 0 Ignore after transition 0				
Ignore after transition 0				
ļ ·	Series	Ascending		
	1			U

	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] Meas[17]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off
_		

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.05 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 3 0 1 1 1 1 2000 3 1.00 30 On

TA: 1:19 PAT: 2	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00 USER:	ep2d_bold_OVS_flash
Dronortion		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A64.3 H0.0
Before measurement		Orientation	Coronal
After measurement	0	Sat. region 2	
Load to viewer	On Off	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On Off	Orientation	C > T14.7
Load to stamp segments Load images to graphic	Off	Special sat.	None
segments	Oli	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation	011		311
Wait for user to start	Off	System	
Start measurements	single	E17	On
	5g.c	E18	On
Routine		E19	On
Slice group 1	50	E20	On
Slices	50	E01	On
Dist. factor	0 %	E02	On
Position	L1.2 P32.5 H14.0 Transversal	E03 E04	On
Orientation Phase enc. dir.		E05	On On
	A >> P	E06	On
Rotation Phase oversampling	0.00 deg 0 %	E07	On
FoV read	192 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.75 mm	E10	On
TR	2200 ms	E11	On
TE	27 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode Reconstruction	Long term Magnitude	Coil Combine Mode	Sum of Squares
Measurements	33	AutoAlign	
Delay in TR	0 ms	Auto Coil Select	Default
Multiple series	Off	Shim mode	Standard
·	5	Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8	Adjustment Tolerance	Auto
Interpolation	Off	Adjust volume	
PAT mode	GRAPPA	! Position	L1.9 P47.3 H12.0
Accel. factor PE	2	! Orientation	Transversal
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	147 mm
Distortion Corr		! A >> P	54 mm
Distortion Corr.	Off	! F >> H	44 mm
Prescan Normalize Raw filter	Off	Physio	
Elliptical filter	On Off	1st Signal/Mode	None
Hamming	Off	1	110110
· ·	OII	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	Ascending	Starting ignore meas	0
		i ionore aner transition	V.

Ignore after transition

0

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[14]	On On 4.00 20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active
Meas[12]	
Meas[15]	Active
Meas[16] Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1086 Hz/Px Off 1.05 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 2000 3 1.00 30 On

\\US	SER\Feinberglab\Test\0714\e	p2d M2P2f1 iso95-tS	nr minTE
TA: 1:19 PAT: 2	Voxel size: 1.0×1.0×0.8 mm	•	 ER: ep2d_bold_OVS_flash
		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A64.3 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronal
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off	Opecial Sat.	
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		Cuatam	
Wait for user to start	Off	System	0.5
Start measurements	single	E17	On
Destina		E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P32.5 H14.0	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	192 mm	E08	On
FoV phase	50.5 %	E09	On
Slice thickness	0.75 mm	E10	On
TR	2200 ms	E11	On
TE	23 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	
Measurements	33	Auto Coil Select	Default
Delay in TR	0 ms		
Multiple series	Off	Shim mode	Standard
Resolution		Adjust with body coil	Off
Base resolution	202	Confirm freq. adjustme	
Phase resolution	100 %	Assume Silicone	Off
Phase partial Fourier	6/8	? Ref. amplitude 1H	0.000 V
Interpolation	Off	Adjustment Tolerance	Auto
		Adjust volume	
PAT mode	GRAPPA	! Position	L1.9 P47.3 H12.0
Accel. factor PE	2	! Orientation	Transversal
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	147 mm
Distortion Corr		! A >> P	54 mm
Distortion Corr.	Off	! F >> H	44 mm
Prescan Normalize	Off	Physio	
Raw filter	On Off	1st Signal/Mode	None
Elliptical filter	Off	1 St Signal/Wode	INUITE
Hamming	Off	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	According	Starting ignore meas	0

Ascending

Series

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[12]	On On 4.00 20 Baseline Active Active
Meas[6]	Baseline
	Baseline
	Baseline
	Baseline
	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Off 1376 Hz/Px Off 0.85 ms
EPI factor RF pulse type Gradient mode RF spoiling	102 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 2000 3 1.00 30 On

 $\verb|\USER\Feinberg| lab| Test| 0714 ep2d_M2P2f1_iso75-tSnr_px_minTE| | Parallel France | Parallel Fran$

USER: ep2d_bold_OVS_flash

Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00

PAT: 2

TA: 1:19

17.1.10	V 0 A 01 31 2 0 . 0 . 0 A 0 . 0 A 0 . 0 A 11 11 1	Noi: Olan: 1:00 GOEN: C	
D (Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A64.3 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Colonal
Load to viewer	On		110 mm
Inline movie	Off	Thickness	110 mm
Auto store images	On	Position	L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
	Oli	Table position	ш
segments	0"	Table position	H
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	
Douting			On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P32.5 H14.0	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	192 mm	E08	On
	-	E09	_
FoV phase	50.0 %		On
Slice thickness	0.75 mm	E10	On
TR	2200 ms	E11	On
TE	23 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	
Measurements	33	Auto Coil Select	Default
Delay in TR	0 ms		
Multiple series	Off	Shim mode	Standard
Deschalies		Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8	Adjustment Tolerance	Auto
Interpolation	Off		Auto
		Adjust volume	140 847 0 1140 0
PAT mode	GRAPPA	! Position	L1.9 P47.3 H12.0
Accel. factor PE	2	! Orientation	Transversal
Ref. lines PE	24	! Rotation	0.00 deg
Reference scan mode	Separate	! R >> L	147 mm
		! A >> P	54 mm
Distortion Corr.	Off	! F >> H	44 mm
Prescan Normalize	Off	ı	
Raw filter	On	Physio	
Elliptical filter	Off	1st Signal/Mode	None
Hamming	Off	BOLD	
			0#
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
		0	•
Series	Ascending	Starting ignore meas Ignore after transition	0

Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
_	

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Allowed 1028 Hz/Px Off 0.85 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 2000 3 1.00 30 On

 $\verb|\USER\Feinberg| lab\Test\\0714\\ep2d_M2P2f1_iso75-tSnr_px$

			·
Droportion		Sat. region 1	
Properties	0"	Thickness	110 mm
Prio Recon	Off	Position	L0.0 A64.3 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	
Load to viewer	On O"	Thickness	110 mm
Inline movie	Off	Position	L0.0 P136.2 F35.7
Auto store images	On	Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off		
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		Custom	
Wait for user to start	Off	System	0
Start measurements	single	E17	On
	3	E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P32.5 H14.0	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0 %	E07	On
FoV read	192 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.75 mm	E10	On
TR	2200 ms	E11	On
TE	27 ms	E12	On
		E12	
Averages	1		On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S - C - T
Flip angle	70 deg	Sagittal	R >> L
Fat suppr.	Fat sat.	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Long term	Coil Combine Mode	Sum of Squares
Reconstruction	Magnitude	AutoAlign	· ·
Measurements	33	Auto Coil Select	Default
Delay in TR	0 ms		
Multiple series	Off	Shim mode	Standard
Resolution		Adjust with body coil	Off
	256	Confirm freq. adjustment	Off
Base resolution	256	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8	Adjustment Tolerance	Auto
Interpolation	Off	Adjust volume	
PAT mode	GRAPPA	! Position	L1.9 P47.3 H12.0
Accel. factor PE	GRAPPA 2	! Orientation	Transversal
		! Rotation	0.00 deg
Ref. lines PE	24 Saparata	! R >> L	147 mm
Reference scan mode	Separate		
Distortion Corr.	Off	! A >> P	54 mm
Prescan Normalize	Off	! F >> H	44 mm
Raw filter	On	Physio	
Elliptical filter	Off	1st Signal/Mode	None
		1	140110
Hamming	Off	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	Ascending	Starting ignore meas	0
	3	Ignore after transition	0

Model transition states	On On
Temp. highpass filter Threshold	4.00
	20
Paradigm size	20 Baseline
Meas[1]	
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
	- ···

Sequence	
Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Allowed 1028 Hz/Px Off 0.85 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Fast On
RF90 duration MB Number DummyScan Number FOV Shift Number SkewType(1ff) OVS flash(1on) SER Number Spoil factor Skew Direction Sat RF90 duration Dual On(1) Echo Distance MB Measurements Ramp On	7680 2 1 1 0 1 1 1 1 2000 3 1.00 30 On

Table of contents

\\USER	Feinber	glab Test		
		Test	0714	localizer_200V_newcoil b1map_200V_TR100 gFactorMap ep2d_M2P2f1_iso75-TEST ep2d_M3P2f3_iso75-TEST ep2d_M1P2f1_iso75-TEST ep2d_M4P2f3_iso75-TEST ep2d_M6P2f3_iso75-TEST
				ep2d_M8P2f3_iso75-TEST ep2d_M2Px2_OVS_flash_iso55_fmri
				ep2d_M2P2f1_iso75-tSnr ep2d_M2P2f1_iso75-tSnr_nogap ep2d_M2P2f1_iso95-tSnr_minTE ep2d_M2P2f1_iso75-tSnr_px_minTE ep2d_M2P2f1_iso75-tSnr_px