\\USER	\Feinberglab\Test\0520AB\ep	o2d_M2Px2_OVS_flash_isc	o46_fmri
TA: 4:36 PAT: 2	Voxel size: 0.5×0.5×0.5 mm		_ p2d_bold_OVS_flash
Properties		Sat. region 1	110 mm
Prio Recon	Off	Thickness	110 mm
Before measurement		Position	L0.0 A6.6 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		Orientation	C > T14.7
Load to stamp segments	Off	Special sat.	None
Load images to graphic	Off	Table no sitter	
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	B1	On
Start measurements	single	B2	On
Routine		B3	On
Slice group 1	50	B4	On
Slices	50	B5	On
Dist. factor	50 %	B6	On
Position	L1.2 P62.9 F15.8	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Positioning mode MSMA	S - C - T
Phase oversampling	0 %	_	
FoV read	147 mm	Sagittal	R >> L
FoV phase	25.0 %	Coronal	A >> P
Slice thickness	0.45 mm	Transversal	F >> H
TR	4000 ms	Coil Combine Mode	Sum of Squares
TE	25 ms	AutoAlign	
Averages	1	Auto Coil Select	Default
Concatenations	1	Shim mode	Standard
Filter	None	Shim mode	Standard
		Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Flip angle	70 deg	Adjustment Tolerance	Auto
Fat suppr.	Fat sat.	Adjust volume	
		! Position	L1.9 P57.5 F16.5
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements	66	! R >> L	147 mm
Delay in TR	0 ms	! A >> P	54 mm
Multiple series	Off	! F >> H	44 mm
•			
Resolution	000	Physio	News
Base resolution	320	1st Signal/Mode	None
Phase resolution	100 %	BOLD	
Phase partial Fourier	6/8	GLM Statistics	Off
Interpolation	Off		Off
DAT mode	CDADDA	Dynamic t-maps	
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	14	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
Distortion Corr.	Off	Threshold	4.00
Prescan Normalize	Off	Paradigm size	20
Raw filter		Meas[1]	Baseline
	On Off	Meas[2]	Baseline
Elliptical filter	Off	Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series	Ascending	Meas[7]	Baseline
	, 1000Halling	Meas[8]	Baseline

Meas[8]

Baseline

Sequence	
Introduction	Off
Asymmetric echo	Allowed
Bandwidth	782 Hz/Px
Free echo spacing	Off
Echo spacing	1.28 ms
EPI factor	80
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	2560
Dual On(1)	3
Echo Distance	1.00
MB Measurements	63
Ramp On	On

\\USER\Feinberglab\Test\0520AB\ep2d_M2Px2_OVS_flash_iso55_fmri

TA: 4:36 PAT: 2	Voxel size: 0.5×0.5×0.6 mm		ep2d_bold_OVS_flash
.		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A33.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Colonal
Load to viewer	On		110 mm
Inline movie	Off	Thickness	
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		Table position	H
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation	011		011
Wait for user to start	Off	System	
Start measurements	single	B1	On
Start measurements	Single	B2	On
Routine		B3	On
Slice group 1		B4	On
Slices	50	B5	On
Dist. factor	50 %	B6	On
Position	L1.2 P51.0 F15.8	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P		••••••••••••••••••••••••••••••••••••••
Rotation	0.00 deg	Positioning mode	FIX
	0.00 deg 0 %	MSMA	S - C - T
Phase oversampling		Sagittal	R >> L
FoV read	140 mm	Coronal	A >> P
FoV phase	50.0 %	Transversal	F >> H
Slice thickness	0.55 mm	Coil Combine Mode	Sum of Squares
TR	4000 ms	AutoAlign	
TE	28 ms	Auto Coil Select	Default
Averages	1		
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Flip angle	70 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L1.9 P57.5 F16.5
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements	66	! R >> L	147 mm
Delay in TR	0 ms	! A >> P	54 mm
Multiple series	Off	!F>>H	44 mm
Multiple series	Oii	:1 -> 11	77 111111
Resolution		Physio	
Base resolution	256	1st Signal/Mode	None
Phase resolution	100 %		
Phase partial Fourier	6/8	BOLD	0,4
Interpolation	Off	GLM Statistics	Off
		Dynamic t-maps	Off
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	24	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
Distortion Com		Threshold	4.00
Distortion Corr.	Off	Paradigm size	20
Prescan Normalize	Off	Meas[1]	Baseline
Raw filter	On	Meas[2]	Baseline
Elliptical filter	Off	Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series		Meas[7]	Baseline
Jelles	Ascending	Meas[8]	Baseline

Meas[8]

Baseline

Sequence	
Introduction Asymmetric echo Bandwidth	Off Allowed 850 Hz/Px
Free echo spacing Echo spacing	Off 1.07 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Normal On
RF90 duration MB Number	7680 2
DummyScan Number FOV Shift Number	1 1
SkewType(1ff) OVS flash(1on)	0
SER Number	1
Spoil factor Skew Direction	1 1
Sat RF90 duration	2560 3
Dual On(1) Echo Distance	1.00
MB Measurements Ramp On	63 On
	~··

\\USER\Feinberglab\Test\0520AB\ep2d_M2P2f1_OVS_flash_iso75-tSnr			
TA: 4:36 PAT: 2	Voxel size: 0.8×0.8×0.8 mm		ep2d_bold_OVS_flash
Properties		Sat. region 1	440
Prio Recon	Off	Thickness	110 mm
Before measurement		Position	L0.0 A53.4 H0.0
After measurement		Orientation	Coronal
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
Load images to graphic	Off	Special sat.	None
segments	.	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		1	Oll
Wait for user to start	Off	System	
Start measurements	single	B1	On
Otart measurements	Sirigio	B2	On
Routine		B3	On
Slice group 1		B4	On
Slices	50	B5	On
Dist. factor	50 %	B6	On
Position	L1.2 P42.0 F15.8	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P		—···
Rotation	0.00 deg	Positioning mode	FIX
Phase oversampling	0 %	MSMA	S - C - T
FoV read	192 mm	Sagittal	R >> L
FoV phase	50.0 %	Coronal	A >> P
Slice thickness	0.75 mm	Transversal	F >> H
TR	4000 ms	Coil Combine Mode	Sum of Squares
TE	27 ms	AutoAlign	
Averages	1	Auto Coil Select	Default
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Con diditions	510	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Flip angle	70 deg	Adjust volume	Auto
Fat suppr.	Fat sat.	! Position	L1.9 P57.5 F16.5
Averaging mode	Long torm	! Orientation	
Averaging mode Reconstruction	Long term	! Rotation	Transversal
Measurements	Magnitude 66	! Rotation	0.00 deg 147 mm
	0 ms	! R >> L ! A >> P	54 mm
Delay in TR		! A >> P ! F >> H	54 mm
Multiple series	Off	! F >> П	74 IIIII
Resolution		Physio	
Base resolution	256	1st Signal/Mode	None
Phase resolution	100 %	BOLD.	
Phase partial Fourier	6/8	BOLD	0"
Interpolation	Off	GLM Statistics	Off
DAT I	004004	Dynamic t-maps	Off
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	24	Model transition states	On On
Reference scan mode	Separate	Temp. highpass filter	On
Distortion Corr.	Off	Threshold	4.00
Prescan Normalize	Off	Paradigm size	20
Raw filter	On	Meas[1]	Baseline
Elliptical filter	Off	Meas[2]	Baseline
Hamming	Off	Meas[3]	Baseline
	OII	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline

Series

Meas[7]

Meas[8]

Baseline

Baseline

Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20] Motion correction Spatial filter	Baseline Baseline Active Off 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 2560 3 1.00 63 On
ı	Namp On	OII

\\USER\Feinberglab\Test\0520AB\ep2d_M2Px2_OVS_flash_iso46_tsnr

USER: ep2d_bold_OVS_flash

Voxel size: 0.5×0.5×0.5 mm Rel. SNR: 1.00

PAT: 2

TA: 1:44

17. 1.44 17.1.2	V 0 A 01 31 2 0 . 0 . 0 A 0 . 0 A 0 . 0 A 11 11 1	TOIL OTAKE 1.00 GOETE.	
D (Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A12.7 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	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P57.5 H14.0	E03	On
Orientation	Transversal	E04	On
Phase enc. dir.	A >> P	E05	On
Rotation	0.00 deg	E06	On
Phase oversampling	0.00 deg 0 %	E07	On
			_
FoV read	147 mm	E08	On
FoV phase	25.0 %	E09	On
Slice thickness	0.45 mm	E10	On
TR	4000 ms	E11	On
TE	25 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements	E01-20	E16	On
	20. 20		
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	23	Auto Coil Select	Default
Delay in TR	0 ms	Auto Coil Select	Delault
Multiple series	Off	Shim mode	Standard
•		Adjust with body coil	Off
Resolution		Confirm freq. adjustment	Off
Base resolution	320	Assume Silicone	Off
Phase resolution	100 %	? Ref. amplitude 1H	0.000 V
Phase partial Fourier	6/8		
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	18	! 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	1	
	- ··	BOLD	
_			Off
Geometry		GLM Statistics	Off
Geometry Multi-slice mode	Interleaved	Dynamic t-maps	Off
-	Interleaved Ascending		_

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 782 Hz/Px Off 1.28 ms
EPI factor RF pulse type Gradient mode RF spoiling	80 Normal Normal 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 2560 3 1.00 20 On

\\USER\Feinberglab\Test\0520AB\ep2d_M2P2f1_OVS_flash_iso75-tSnr

USER: ep2d_bold_OVS_flash

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

PAT: 2

TA: 1:44

	VOXC1 3120: 0.0X0.0X0.0 111111	1.00 GOER.	
		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		
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	5 11	Table position	Н
Auto open inline display	Off	Table position	0 mm
			Off
Start measurement without	On	Inline Composing	Oli
further preparation	0"	System	
Wait for user to start	Off	E17	On
Start measurements	single	E18	On
Routine		E19	On
		E20	On
Slice group 1	50		
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	4000 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
Averaging mode	Long term	Transversal	F >> H
Reconstruction	Magnitude	Coil Combine Mode	Sum of Squares
Measurements	23	AutoAlign	
Delay in TR	0 ms	Auto Coil Select	Default
	Off	Shim mode	Ctandard
Multiple series	Oil		Standard
Resolution		Adjust with body coil	Off
Base resolution	256	Confirm freq. adjustment	Off
Phase resolution	100 %	Assume Silicone	Off
Phase partial Fourier	6/8	? Ref. amplitude 1H	0.000 V
Interpolation	Off	Adjustment Tolerance	Auto
Interpolation		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
		! R >> L	147 mm
Reference scan mode	Separate	! A >> P	54 mm
Distortion Corr.	Off		
Prescan Normalize	Off	! F >> H	44 mm
Raw filter	On	Physio	
Elliptical filter	Off	1st Signal/Mode	None
1 · · · · · · · · · · · · · · · · · · ·	Off	1	. 10110
Hamming	OII	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	Ascending	Starting ignore meas	0
	J	Ignore after transition	0
•		0/27	-

Model transition states Temp. highpass filter Threshold Paradigm size Meas[1] Meas[2]	On On 4.00 20 Baseline 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 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 20 On

\\USER\Feinberglab\Test\0520AB\ep2d_M2Px2_OVS_flash_iso55_fmri

USER: ep2d_bold_OVS_flash

Voxel size: 0.5×0.5×0.6 mm Rel. SNR: 1.00

PAT: 2

TA: 1:44

D (*		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A33.7 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	Oll	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	E17	On
Start measurements	single		
		E18	On
Routine		E19	On
Slice group 1		E20	On
Slices	50	E01	On
Dist. factor	50 %	E02	On
Position	L1.2 P50.5 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	140 mm	E08	On
FoV phase	50.0 %	E09	On
Slice thickness	0.55 mm	E10	On
TR	4000 ms	E11	On
TE	28 ms	E12	On
Averages	1	E13	On
Concatenations	1	E14	On
Filter	None	E15	On
Coil elements		E16	
Con elements	E01-20		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		
Reconstruction	Magnitude	Coil Combine Mode	Sum of Squares
Measurements	23	AutoAlign	 D ()
Delay in TR	0 ms	Auto Coil Select	Default
Multiple series	Off	Shim mode	Standard
Multiple Selles	Oli		Off
Resolution		Adjust with body coil	
Base resolution	256	Confirm freq. adjustment	Off
Phase resolution	100 %	Assume Silicone	Off
Phase partial Fourier	6/8	? Ref. amplitude 1H	0.000 V
	Off	Adjustment Tolerance	Auto
Interpolation	OII	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
		! R >> L	147 mm
Reference scan mode	Separate	! A >> P	54 mm
Distortion Corr.	Off		
Prescan Normalize	Off	! F >> H	44 mm
Raw filter	On	Physio	
		1st Signal/Mode	None
Elliptical filter	Off Off	13t Signal/Mode	NOTIC
Hamming	Off	BOLD	
Geometry		GLM Statistics	Off
Multi-slice mode	Interleaved	Dynamic t-maps	Off
Series	Ascending	Starting ignore meas	0
	···· o	Ignore after transition	0
		1 4 10=	

Model transition states Temp. highpass filter	On On
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 850 Hz/Px Off 1.07 ms
EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Normal 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 20 On

\\USER\Feinberglab\Test\0520AB\ep2d_M2P2f1_iso75-tsnr			
TA: 1:44 PAT: 2	Voxel size: 0.8×0.8×0.8 mm	·	p2d_bold_OVS_flash
Proportion		Sat. region 1	
Properties	0"	Thickness	110 mm
Prio Recon	Off	Position	L0.0 A52.7 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	
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		
segments		Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
further preparation		1	
Wait for user to start	Off	System	
Start measurements	single	B1	On
I	5.1.9.5	B2	On
Routine		B3	On
Slice group 1		B4	On
Slices	50	B5	On
Dist. factor	50 %	B6	On
Position	L1.2 P44.0 F11.7	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Positioning mode	FIX
Phase oversampling	0 %	MSMA	S - C - T
FoV read	192 mm	Sagittal	R >> L
FoV phase	50.0 %	Coronal	A >> P
Slice thickness	0.75 mm	Transversal	F >> H
	4000 ms	Coil Combine Mode	Sum of Squares
TR		AutoAlign	
TE	27 ms	Auto Coil Select	Default
Averages	1	2:::	
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Flip angle	70 deg	Adjustment Tolerance	Auto
	Fat sat.	Adjust volume	
Fat suppr.	Fai 5ai.	! Position	L1.9 P47.3 F13.1
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements	23	! R >> L	147 mm
Delay in TR	0 ms	! A >> P	54 mm
Multiple series	Off	! F >> H	44 mm
1		I	
Resolution		Physio	
Base resolution	256	1st Signal/Mode	None
Phase resolution	100 %	BOLD	
Phase partial Fourier	6/8	GLM Statistics	Off
Interpolation	Off	Dynamic t-maps	Off
PAT mode	CDADDA		
Accel. factor PE	GRAPPA	Starting ignore meas	0
	2	Ignore after transition	0
Ref. lines PE	24	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
Distortion Corr.	Off	Threshold	4.00
Prescan Normalize	Off	Paradigm size	20
Raw filter	On	Meas[1]	Baseline
Elliptical filter	Off	Meas[2]	Baseline
•		Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series	Ascending	Meas[7]	Baseline
		Meas[8]	Baseline
	1	3/27	

Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20] Motion correction Spatial filter	Baseline Baseline Active Off Off
---	---

۲	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	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	1.00
	MB Measurements	20
	Ramp On	On

\\USER\Feinberglab\Test\0520AB\ep2d_M2Px2_iso55_tsnr

TA: 1:44 PAT: 2	Voxel size: 0.5×0.5×0.6 mm	•	ep2d_bold_OVS_flash
.		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A30.4 H0.0
Before measurement		Orientation	Coronal
After measurement	_	Sat. region 2	
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		
segments		Table position	Н
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	B1	On
Start measurements	single	B2	On
Routine		B3	On
		B4	On
Slice group 1 Slices	50	B5	On On
Dist. factor	50 %	B6	On On
Position	50 % L1.2 P54.0 F11.7	B7	On On
	Transversal		_
Orientation		B8	On
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	MSMA	S - C - T
Phase oversampling	0 %	Sagittal	R >> L
FoV read	140 mm	Coronal	A >> P
FoV phase	50.0 %	Transversal	F >> H
Slice thickness	0.55 mm	Coil Combine Mode	Sum of Squares
TR	4000 ms	AutoAlign	
TE	28 ms	Auto Coil Select	Default
Averages	1		
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Flip angle	70 deg	Adjustment Tolerance	Auto
Fat suppr.	Fat sat.	Adjust volume	
		! Position	L1.9 P47.3 F13.1
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements	23	! R >> L	147 mm
Delay in TR	0 ms	! A >> P	54 mm
Multiple series	Off	! F >> H	44 mm
Resolution		Physio	
Base resolution	256	1st Signal/Mode	None
Phase resolution	100 %	•	
Phase partial Fourier	6/8	BOLD	
Interpolation	Off	GLM Statistics	Off
		Dynamic t-maps	Off
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	24	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
Distortion Corr	O#	Threshold	4.00
Distortion Corr.	Off	Paradigm size	20
Prescan Normalize	Off	Meas[1]	Baseline
Raw filter	On Off	Meas[2]	Baseline
Elliptical filter	Off	Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series	Ascending	Meas[7]	Baseline
0000		14 [0]	D "

Meas[8]

Baseline

Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20] Motion correction Spatial filter	Baseline Baseline Active Actif Off
---	--

	Sequence	
	Introduction Asymmetric echo Bandwidth Free echo spacing Echo spacing	Off Allowed 850 Hz/Px Off 1.07 ms
	EPI factor RF pulse type Gradient mode RF spoiling	128 Normal Normal 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 2560 3 1.00 20 On
ı	ramp on	011

\\USER\Feinberglab\Test\0520AB\ep2d_M2Px2_iso46_tsnr

TA: 1:44 PAT: 2	Voxel size: 0.5×0.5×0.5 mm	•	ep2d_bold_OVS_flash
Droportion		Sat. region 1	
Properties		Thickness	110 mm
Prio Recon	Off	Position	L0.0 A5.3 H0.0
Before measurement		Orientation	Coronal
After measurement		Sat. region 2	Coronai
Load to viewer	On	Thickness	110 mm
Inline movie	Off	Position	
Auto store images	On		L0.0 P136.2 F35.7
Load to stamp segments	Off	Orientation	C > T14.7
Load images to graphic	Off	Special sat.	None
segments	.	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	Inline Composing	Off
	Oli	Initine Composing	Oli
further preparation	0"	System	
Wait for user to start	Off	B1	On
Start measurements	single	B2	On
Routine		B3	On
Slice group 1	_	B4	On
Slice group 1	50	B5	On
		_	_
Dist. factor	50 %	B6	On
Position	L1.2 P65.0 F11.7	B7	On
Orientation	Transversal	B8	On
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg		
Phase oversampling	0 %	MSMA	S-C-T
FoV read	147 mm	Sagittal	R >> L
FoV phase	25.0 %	Coronal	A >> P
Slice thickness	0.45 mm	Transversal	F >> H
TR	4000 ms	Coil Combine Mode	Sum of Squares
TE	25 ms	AutoAlign	
		Auto Coil Select	Default
Averages	1		
Concatenations	1	Shim mode	Standard
Filter	None	Adjust with body coil	Off
Coil elements	B1-8	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Flip angle	70 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L1.9 P47.3 F13.1
Averaging mode	Long term	! Orientation	Transversal
Reconstruction	Magnitude	! Rotation	0.00 deg
Measurements		! R >> L	147 mm
	23		
Delay in TR	0 ms	! A >> P	54 mm
Multiple series	Off	! F >> H	44 mm
Resolution		Physio	
Base resolution	320	1st Signal/Mode	None
Phase resolution	100 %		
Phase partial Fourier	6/8	BOLD	
Interpolation	Off	GLM Statistics	Off
	OII	Dynamic t-maps	Off
PAT mode	GRAPPA	Starting ignore meas	0
Accel. factor PE	2	Ignore after transition	0
Ref. lines PE	14	Model transition states	On
Reference scan mode	Separate	Temp. highpass filter	On
iverence scan more	Ocpaiale		_
Distortion Corr.	Off	Threshold	4.00
Prescan Normalize	Off	Paradigm size	20
Raw filter	On	Meas[1]	Baseline
Elliptical filter	Off	Meas[2]	Baseline
1		Meas[3]	Baseline
Hamming	Off	Meas[4]	Baseline
Geometry		Meas[5]	Baseline
Multi-slice mode	Interleaved	Meas[6]	Baseline
Series	Ascending	Meas[7]	Baseline
201100	,	Moas[9]	Pasalina

Meas[8]

Baseline

Sequence	
Introduction	Off
Asymmetric echo	Allowed
Bandwidth	782 Hz/Px
Free echo spacing	Off
Echo spacing	1.28 ms
EPI factor	80
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On
RF90 duration	
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	2560
Dual On(1)	3
Echo Distance	1.00
MB Measurements	20
	On
Ramp On	OII

TA: 0:43 PAT: 3 Voxel size: 1.6x1.6x1.6 mm Rel. SNR: 1.00 USER: ep2d_bold_sms_mgh_v22

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement	- ·-	Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments	5 11	M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	Positioning mode	FIX
further preparation	Oli	Positioning mode MSMA	S - C - T
Wait for user to start	Off		
Start measurements	single	Sagittal	R >> L
Start measurements	Single	Coronal	A >> P
Routine		Transversal	F >> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	81	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A16.9 H39.3	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	Off
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0.00 deg 0 %		Oπ 0.000 V
FoV read	200 mm	? Ref. amplitude 1H	
	100.0 %	Adjustment Tolerance	Auto
FoV phase		Adjust volume	107404711545
Slice thickness	1.6 mm	! Position	L0.7 A21.7 H51.5
TR	1311 ms	! Orientation	Transversal
TE	21 ms	! Rotation	0.00 deg
Averages	1	! R >> L	124 mm
Concatenations	1	! A >> P	141 mm
Filter	None	! F >> H	64 mm
Coil elements	B4;M2,3;T1	Physio	
Contrast		1st Signal/Mode	None
MTC	Off	- 1	None
Flip angle	60 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	5	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Pasalution		Paradigm size	15
Resolution	120	- Meas[1]	Baseline
Base resolution	128	Meas[2]	Baseline
Phase resolution	100 %	Meas[3]	Baseline
Phase partial Fourier	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	36	Meas[8]	Baseline
Reference scan mode	Separate	Meas[9]	Baseline
		Meas[9]	Baseline
Distortion Corr.	Off	Meas[10] Meas[11]	Active
Prescan Normalize	Off		Active
Raw filter	On	Meas[12]	
Elliptical filter	Off	Meas[13]	Active
Hamming	Off	Meas[14]	Active
1 3		Meas[15]	Active
•			, 144
Geometry		Motion correction	Off
Geometry Multi-slice mode Series	Interleaved Interleaved	Spatial filter	Off

Introduction Bandwidth Free echo spacing Echo spacing	Off 1954 Hz/Px Off 0.62 ms
EPI factor	128
RF pulse type Gradient mode	Normal Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	3
Kernel Size	5x5
Compression Factor	1.00

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- //O.O. I.V.I. EIIIOEIOIGOVI ESIVOS/OADSEO/O	1 11 11 1	2002	111(111	V// 1500	()

TA: 0:42 PAT: 3 Voxel size: 0.9x0.9x0.8 mm Rel. SNR: 1.00 USER: ep2d_bold_sms_mgh_v22

Droportion		Special sat.	None
Properties	0"		
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	_
Load to stamp segments	Off		On
Load images to graphic	Off	B4	On
segments		M3	On O"
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	Single	Transversal	F >> H
Routine		Coil Combine Mode	Sum of Squares
Slice group 1		AutoAlign	
Slices	39	Auto Coil Select	 Default
Dist. factor	200 %	Auto Coll Select	Delault
Position	L0.0 A20.3 H42.7	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	Off
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	? Ref. amplitude 1H	0.000 V
FoV read	220 mm	Adjustment Tolerance	Auto
FoV phase	81.3 %		Auto
Slice thickness	0.8 mm	Adjust volume	107 404 71154 5
		! Position	L0.7 A21.7 H51.5
TR	1000 ms	! Orientation	Transversal
TE	20 ms	! Rotation	0.00 deg
Averages	1	! R >> L	124 mm
Concatenations	1	! A >> P	141 mm
Filter	None	! F >> H	64 mm
Coil elements	B4;M2,3;T1	Physio	
Contrast		1st Signal/Mode	None
MTC	Off	 ,	110110
Flip angle	60 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	15	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
		Paradigm size	15
Resolution	050	— Meas[1]	Baseline
Base resolution	256	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	GRAPPA 3	1	Baseline Baseline
		Meas[7]	
Ref. lines PE	36 Sanarata	Meas[8]	Baseline
Reference scan mode	Separate	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
	Off	Meas[14]	Active
Hamming	OII	Meas[15]	Active
Geometry		Motion correction	Off
Multi-slice mode	Interleaved	Spatial filter	Off
Series	Interleaved	Seguence	
		Sequence	

Introduction Bandwidth Free echo spacing Echo spacing	Off 976 Hz/Px Off 1.15 ms
EPI factor	208
RF pulse type Gradient mode	Normal Fast
Gradient mode	rası
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	3
Kernel Size	5x5
Compression Factor	1.00

USER: ep2d_diff_SliceAcc_v3

Voxel size: 1.6×1.6×1.6 mm Rel. SNR: 1.00

PAT: 3

TA: 1:18

1A. 1.10 PA1. 3	Voxel Size. 1.0x1.0x1.0 mill	Rei. SINK. 1.00 USER. 6	epzu_uiii_SiiceAcc_v3
Dranartias		Table position	Н
Properties	0"	Table position	0 mm
Prio Recon Before measurement	Off	Inline Composing	Off
After measurement		System	
Load to viewer	On	T1	On
Inline movie	Off	M2	On
Auto store images	On	B4	On
Load to stamp segments	Off	M3	On
Load images to graphic	Off	V32	Off
segments			
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	MSMA	S-C-T
further preparation		Sagittal	R >> L
Wait for user to start	Off	Coronal	A >> P
Start measurements	single	Transversal	F >> H
Routine		Coil Combine Mode AutoAlign	Sum of Squares
Slice group 1		Auto Coil Select	Default
Slices	58		
Dist. factor	0 %	Shim mode	Standard
Position	R9.5 A25.1 H56.9	Adjust with body coil	Off
Orientation	Transversal	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	200 mm	Adjust volume	107404711545
FoV phase	100.0 %	! Position	L0.7 A21.7 H51.5
Slice thickness	1.6 mm	! Orientation ! Rotation	Transversal
TR	6000 ms	! Rotation	0.00 deg 124 mm
TE	76 ms	! K >> L ! A >> P	141 mm
Averages	1	!F>> H	64 mm
Concatenations	1		04 111111
Filter	None	Physio	
Coil elements	B4;M2,3;T1	1st Signal/Mode	None
Contrast		Resp. control	Off
MTC	Off	. 1	
Fat suppr.	Fat sat.	Diff	MDDW
Averaging mode	Long term	Diffusion mode Diff. weightings	MDDW
Reconstruction	Magnitude		2 0 s/mm²
Delay in TR	0 ms	b-value 1 b-value 2	2000 s/mm²
Multiple series	Off	Diff. weighted images	On
		Trace weighted images	On
Resolution	400	Average ADC maps	On
Base resolution	128	Individual ADC maps	Off
Phase resolution	100 %	FA maps	On
Phase partial Fourier	6/8 Off	Mosaic	On
Interpolation	Off	Tensor	On
PAT mode	GRAPPA	Noise level	40
Accel. factor PE	3	Diff. directions	6
Ref. lines PE	36		
Reference scan mode	Separate	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1860 Hz/Px
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off	Echo spacing	0.64 ms
Hamming	Off	EPI factor	128
-		RF pulse type	Low SAR
Geometry Multiplica made	Interlegued	Gradient mode	Fast
Multi-slice mode	Interleaved		
Series	Interleaved	Slice acc. factor	2
Special sat.	None	RF clip	0
		VERSE factor PE shift factor	2.82 2
		PE Snitt factor	2

Fat sat. flip angle 70 deg FFT factor 1.00 $\verb|\USER\Feinberg|| ab\Test\\| 0520AB\BP_grase_clean_sat$

USER: BP_grase_clean_sat

Voxel size: 0.7×0.7×1.0 mm Rel. SNR: 1.00

TA: 6.0 s

PAT: 2

Properties		Position Orientation	L0.0 P20.8 H0.0 Coronal
Prio Recon	Off	Special sat.	None
Before measurement			
After measurement		Table position	Н
Load to viewer	On	Table position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	0	
Load to stamp segments	Off	System	
Load images to graphic	Off	T1	On
segments		M2	On
Auto open inline display	Off	B4	On
Start measurement without	On	M3	On
further preparation	3.	V32	Off
Wait for user to start	Off	Positioning mode	REF
Start measurements	single	Positioning mode MSMA	S-C-T
Start measurements	Sirigie	_	
Routine		Sagittal	R >> L
Slab group 1		- Coronal	A >> P
Slabs	1	Transversal	F >> H
Dist. factor	0 %	Save uncombined	Off
Position	L0.0 P21.0 H59.0	Coil Combine Mode	Sum of Squares
Orientation	Transversal	AutoAlign	
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Chim made	Chandand
Phase oversampling	0 %	Shim mode	Standard
		Adjust with body coil	Off
Slice oversampling	25.0 %	Confirm freq. adjustment	Off
Slices per slab	16	Assume Silicone	Off
FoV read	205 mm	? Ref. amplitude 1H	0.000 V
FoV phase	17.9 %	Adjustment Tolerance	Auto
Slice thickness	1.0 mm	Adjust volume	
TR	3000 ms	Position	L0.0 P21.0 H59.0
TE	52.54 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	205 mm
Filter	None	A >> P	37 mm
Coil elements	B4;M2,3;T1	F >> H	16 mm
Contrast		Physio	
Flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1	None
Fat sat. mode	Strong	Composing	
		Sequence	
Averaging mode Reconstruction	Long term	Introduction	Off
	Magnitude	Dimension	3D
Measurements	1	Reordering	Centric
Multiple series	Off	Asymmetric echo	Off
Resolution		Contrasts	1
Base resolution	312	Bandwidth	890 Hz/Px
Phase resolution	100 %	Echo spacing	1.3 ms
Slice resolution	100 %		
Phase partial Fourier	Off	Turbo factor	10
Slice partial Fourier	Off	EPI factor	56
Interpolation	On	RF pulse type	Normal
		Gradient mode	Fast
PAT mode	mSENSE	refocussing type	sinc 2560
Accel. factor PE	2	refocussing type	sinc 2560
Ref. lines PE	24	flip angle excit	90
Reference scan mode	Separate	Crusher Momentum	70000
Raw filter	Off	Crusher Time phase encoding	2000 ON
Naw Intel	○ II	Maxwell compensation	Off
O 1			
Geometry	Interlegue	- ICE program	single
Geometry Series	Interleaved	ICE program prepscans	single 0
-			_

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TA: 9.0 s PAT: Of	•	0.8 mm Rel. SNR: 1.00 USER	:: BP_grase_clean_sat
Properties		Orientation Special sat.	Coronal None
Prio Recon	Off		
Before measurement		Table position	Н
After measurement		Table position	0 mm
Load to viewer	On O"	Inline Composing	Off
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		
further preparation	0.00	Positioning mode	FIX
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Routine		Coronal	A >> P
Slab group 1		Transversal	F >> H
Slabs	1	Save uncombined	Off
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	L0.0 P21.0 H59.0	AutoAlign	
Orientation	Transversal	Auto Coil Select	Default
Phase enc. dir.	A >> P	Chim mada	Ctandard
Rotation	0.00 deg	Shim mode	Standard Off
Phase oversampling	0.00 deg 0 %	Adjust with body coil	_
Slice oversampling	16.7 %	Confirm freq. adjustment Assume Silicone	Off Off
Slices per slab	12		
FoV read	120 mm	? Ref. amplitude 1H	0.000 V
FoV phase	31.3 %	Adjustment Tolerance	Auto
Slice thickness	0.8 mm	Adjust volume	LO O DO4 O LICO O
TR	3000 ms	! Position	L0.0 P21.0 H59.0
TE	62.32 ms	! Orientation	Transversal
Averages	1	! Rotation	0.00 deg
Concatenations	1	! R >> L ! A >> P	205 mm
Filter	None		37 mm
Coil elements	B4;M2,3;T1	! F >> H	16 mm
Con elements	D4,IVIZ,3,1 1	Physio	
Contrast		1st Signal/Mode	None
Flip angle	180 deg		
Fat suppr.	Fat sat.	Composing	
Fat sat. mode	Strong	Sequence	
Averaging made	Longtorm	Introduction	Off
Averaging mode Reconstruction	Long term	Dimension	3D
Measurements	Magnitude	Reordering	Centric
	3	Asymmetric echo	Allowed
Pause after meas. 1	0.0 s	Contrasts	1
Pause after meas. 2	0.0 s	Bandwidth	1302 Hz/Px
Multiple series	Off	Echo spacing	1 ms
Resolution			
Base resolution	160	Turbo factor	14
Phase resolution	100 %	EPI factor	50
Slice resolution	100 %	RF pulse type	Normal
Phase partial Fourier	Off	Gradient mode	Fast*
Slice partial Fourier	Off	refocussing type	sinc 2560
Interpolation	On	flip angle excit	90
		Crusher Momentum	30000
PAT mode	None	Crusher Time	950
Raw filter	Off		ON
	3 11	phase encoding	Off
Geometry		Maxwell compensation	
Series	Interleaved	ICE program	single 0
Sat region 1		prepscans	•
Sat. region 1	25 mm	Refocusing Duration	7680
Thickness	25 mm		

L0.0 P20.8 H0.0

Position

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\\USER	Feinber	glab Test		
		1631	0520AB	
				ep2d_M2Px2_OVS_flash_iso46_fmri ep2d_M2Px2_OVS_flash_iso55_fmri ep2d_M2P2f1_OVS_flash_iso75-tSnr
				ep2d_M2Px2_OVS_flash_iso46_tsnr ep2d_M2P2f1_OVS_flash_iso75-tSnr ep2d_M2Px2_OVS_flash_iso55_fmri
				ep2d_M2P2f1_iso75-tsnr ep2d_M2Px2_iso55_tsnr ep2d_M2Px2_iso46_tsnr
				ep2d_bold_sms3p3_mgh_v22-iso1_6 ep2d_bold_sms3p3_mgh_v22_iso0_8 ep2d_diff_SliceAcc2p3_v3-iso1_6
				BP_grase_clean_sat BP_grase_clean_sat_sp