\\USER\Feinberglab\Jen\M1V1 pilot- ST\GE\_p8mm\_SB1IPAT3\_pf6\_te23\_tr3500\_sat\_for\_reg TA: 1:33 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Price Recon   Position   C	Properties		Sat. region 1 Thickness	50 mm
Before measurement	Prio Recon	Off		
After measurement   Cload to viewer   On   Inline movie   On   Inline movie   On   Table position   H   Table position   H   Table position   On mm   Inline Composing   Off   Table position   H   Table position   On mm   Inline Composing   Off   Table position   On mm   Inline Composing   Off   Table position   On   Inline Composing   Off   Table position   On   Inline Composing   Off   Table position   On   Inline Composing   Off   On   On   On   On   On   On   O				
Load to Viewer   Off		_	Special sat.	
Auto store images		_		
Load to stamp segments		-		
Load images to graphic segments   System   Ti				
Segments			Inline Composing	Off
Seguinitis   Seg		Off	System	
Multi-band accel. factor   1   1   1   1   1   1   1   1   1				On
Start measurement without further preparation   Wait for user to start   Off   M3   On   On   On   On   On   On   On   O				_
Turner proparation   Wait for user to start   Start measurements   Single		On		
Variety of Light of Start   Variety of Start measurements   Variety of Starting mode   Variety of Variety of Starting mode   Variety of Variety				_
Routine   Positioning mode   FIX   MSMA   S - C - T   Silice group 1   Silice group 1   Silice group 1   Silice group 1   Silice s   So   Sagittal   R -> L   Coronal   A >> P   Transversal   F >> H   Collidation   Collidatio			_	_
Silice group 1   Silice group 1   Silice s   S	Start measurements	single		
Silce   Group				
Silces   Dist. factor   Dist. fac				
Dist. factor				
Position   C21 ATU, P19.9   Orientation   T > C29.9   Auto Allign   Auto Coil Select   Default				
Phase enc. dir.				
Prises eff.   A				
Phase oversampling   0 %   Shim mode   Standard   Phase oversampling   0 %   Shim mode   Standard   Off   FoV pread   180 mm   Adjust with body coil   Off   Off   Slice thickness   0.80 mm   Assume Silicone   Off				
FoV read				
FoV phase				Standard
Assume Silicone   Off   230,000 V   TR				Off
TR         3500 ms         ! Ref. amplitude 1H         230.000 V           TE         23.4 ms         Adjustment Tolerance         Auto           Multi-band accel. factor         1         Adjust volume         1           Filter         None         Position         L2.1 A10.0 F9.9           Coll elements         B4;M2,3;T1         Orientation         T > C29.9           Contrast         T > C29.9         Rotation         0.00 deg           MTC         Off         A > P         180 mm           Magn. preparation         None         A > P         140 mm           Filip angle         60 deg         F > H         40 mm           Fat suppr.         Fat sat.         Physio         None           Averaging mode         Long term         Still Signal/Mode         None           Reconstruction         Magnitude         BOLD         None           Measurements         20         GLM Statistics         Off           Delay in TR         0 ms         Dynamic t-maps         Off           Multiple series         Off         Starting ignore meas         0           Resolution         224         Temp. highpas filter         On           Phase resolution <td< td=""><td></td><td>7.7</td><td>Confirm freq. adjustment</td><td>On</td></td<>		7.7	Confirm freq. adjustment	On
TE Multi-band accel. factor         23.4 ms         Adjust volume         Auto           Filter Coil elements         B4;M2,3;T1         Position         L2.1 A10.0 F9.9           Contrast         Position         0.00 deg           MTC         Off         R >> L         180 mm           Mgn. preparation         None         F >> H         40 mm           Flip angle         60 deg         F >> H         40 mm           Fat suppr.         Fat sat.         Physio         None           Averaging mode Reconstruction         Long term         Magnitude         BOLD           Measurements         20         GLM Statistics         Off           Multiple series         Off         Starting ignore meas         0           Resolution         224         Model transition states         On           Phase resolution         224         Model transition states         On           Phase partial Fourier (6/8 Interpolation)         G/8         Threshold         4.00           PAT mode         GRAPPA         Meas[2]         Baseline           Accel. factor PE         3         Meas[3]         Baseline           Reference scan mode         GRE         Meas[6]         Baseline		0.80 mm	Assume Silicone	Off
Multi-band accel. factor Filter         1         Adjust volume Position Position         L2.1 A10.0 F9.9           Coll elements         B4;M2,3;T1         Orientation T > C29.9           Contrast         Rotation 0.00 deg R > L 180 mm           MTC Magn. preparation Plip angle 60 deg Fat suppr.         None Fat sat.         Physio           Averaging mode Reconstruction Magnitude Reconstruction Measurements 20 Magnitude Play in TR 0 ms Multiple series         BOLD Off Dynamic +maps Off Starting ignore meas 0 Ugnore after transition 100 Model transition states 0 None Phase partial Fourier 6/8 Phase partial Fourier 6/8 Partial Fourier 100 Model transition states 0 None Phase partial Fourier 6/8 Meas[2] Baseline Accel. factor PE 3 Meas[3] Baseline Ref. lines PE 48 Meas[4] Baseline Reference scan mode GRE Meas[6] Baseline Prescan Normalize Off Meas[7] Baseline Prescan Normalize Off Meas[7] Baseline Prescan Normalize Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Prescan Normalize Off Meas[1] Baseline Meas[1] Baseline Meas[1] Baseline Meas[1] Baseline Prescan Normalize Off Meas[1] Baseline Meas[1] Baseline Meas[1] Active Meas[1] Active Multi-slice mode Interleaved           Multi-slice mode Interleaved         Multi-slice mode Interleaved         Motion correction Off			! Ref. amplitude 1H	230.000 V
Filter Coil elements         None B4;M2,3;T1         Position Orientation         L2.1 A10.0 F9.9           Contrast         T > C29.9           MTC Magn. preparation Flip angle Fat suppr.         Off A > P 140 mm           Flip angle Fat suppr.         Fat sat.           Averaging mode Reconstruction Magnitude Measurements Delay in TR Off Multiple series         Unspecified or Magnitude Model transition Off Starting ignore meas Off Starting ignore meas Off Starting ignore meas Off Model transition Off Meas[1] Baseline Meas[2] Baseline Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[6] Baseline Meas[6] Baseline Meas[6] Baseline Meas[7] Baseline Meas[9] Baseline Meas[9] Baseline Meas[9] Baseline Meas[9] Baseline Meas[1] Active Multi-slice mode Multi-slice mode Motion correction Off           Multi-slice mode Multi-slice mode         Interleaved         Motion correction Off         Off           Multi-slice mode         Interleaved         Motion correction Off         Off           Multi-slice mode         Interleaved         Motion correction Off	_	23.4 ms	Adjustment Tolerance	Auto
Coil elements         B4;M2,3;T1         Orientation         T > C29.9           Contrast         Rotation         0.00 deg           MTC         Off         R >> L         180 mm           Magn, preparation         None         A >> P         140 mm           Filip angle         60 deg         Fs + H         40 mm           Fat suppr.         Fat Sat.         Physio           Averaging mode         Long term         Physio           Reconstruction         Magnitude         BOLD           Measurements         20         GLM Statistics         Off           Delay in TR         0 ms         Dynamic t-maps         Off           Multiple series         Off         Starting ignore meas         0           Resolution         224         Model transition         0           Phase resolution         100 %         Threshold         4.00           Phase partial Fourier         6/8         Threshold         4.00           Paradigm size         12         Meas[1]         Baseline           PAT mode         GRAPPA         Meas[2]         Baseline           Accel. factor PE         3         Meas[3]         Baseline           Reference scan mode		1	Adjust volume	
Contrast         Rotation         0.00 deg           MTC         Off         R > L         180 mm           Magn. preparation         None         F > H         40 mm           Flip angle         60 deg         F > H         40 mm           Fat suppr.         Fat sat.         Physio           Averaging mode         Long term         Physio           Resconstruction         Magnitude         BOLD           Measurements         20         GLM Statistics         Off           Delay in TR         0 ms         Dynamic t-maps         Off           Multiple series         Off         Starting ignore meas         0           Resolution         224         Model transition states         On           Phase resolution         100 %         Temp. highpass filter         On           Phase partial Fourier         6/8         Paradigm size         12           Interpolation         Off         Meas[1]         Baseline           PAT mode         GRAPPA         Meas[2]         Baseline           Accel. factor PE         3         Meas[3]         Baseline           Ref. lines PE         48         Meas[6]         Baseline           Distortion	Filter		Position	L2.1 A10.0 F9.9
MTC	Coil elements	B4;M2,3;T1	Orientation	T > C29.9
MTC         Off         A >> P         180 mm           Magn. preparation         None         F >> H         40 mm           Flip angle         60 deg         F >> H         40 mm           Fat suppr.         Fat sat.         Physio           Averaging mode         Long term         B Signal/Mode         None           Reconstruction         Magnitude         BOLD         Off           Measurements         20         GLM Statistics         Off           Delay in TR         0 ms         Dynamic t-maps         Off           Multiple series         Off         Starting ignore meas         0           Resolution         224         The shold states         On           Phase resolution         100 %         Threshold         4.00           Phase partial Fourier         6/8         Threshold         4.00           Paradigm size         12         Meas[1]         Baseline           Meacl. factor PE         3         Meas[2]         Baseline           Accel. factor PE         3         Meas[3]         Baseline           Activence         Meas[6]         Baseline           Distortion Corr.         Off         Meas[6]         Baseline      <	Contract		Rotation	0.00 deg
Magn. preparation         None         A > P         140 mm           Flip angle         60 deg         FS H         40 mm           Fat suppr.         Fat sat.         Physio           Averaging mode         Long term         Tst Signal/Mode         None           Reconstruction         Magnitude         BOLD         D           Measurements         20         GLM Statistics         Off           Delay in TR         0 ms         Oms         Oms         Oms           Multiple series         Off         Starting ignore meas         0         Oms           Resolution         100 %         Ignore after transition         0         Oms         Oms         Model transition states         On         On         Temp. highpass filter         On         Temp. highpass filter         On         Threshold         4.00         Paradigm size         12         Meas[1]         Baseline         Meas[1]         Baseline         Meas[2]         Baseline         Meas[2]         Baseline         Meas[3]         Baseline         Meas[4]         Baseline         Meas[6]         Baseline         Meas[6]         Baseline         Meas[7]         Baseline         Meas[7]         Baseline         Meas[9]         Baseline         Meas[1]		Off	—	180 mm
Flip angle 60 deg Fat suppr. Fat sat. Physio  Averaging mode Reconstruction Magnitude Resconstruction Magnitude Multiple series Off Starting ignore meas Off Starting ignor			A >> P	140 mm
Fat suppr. Fat sat. Physio  Averaging mode Reconstruction Magnitude Measurements 20 Delay in TR Orms Off Starting ignore meas 0 Ignore after transition 0 Model transition states On Temp. highpass filter On Threshold 4.00 Phase partial Fourier 6/8 Interpolation Off Meas[1] Baseline Accel. factor PE 3 Reference scan mode GRE Meas[6] Baseline Reference scan mode GRE  Distortion Corr. Off Prescan Normalize Raw filter On Elliptical filter Off Hamming Off Model transition when the process of the proces			F >> H	40 mm
Averaging mode   Long term   Reconstruction   Magnitude   Reconstruction   Magnitude   BOLD		~	Physic	
Reconstruction Magnitude Measurements 20 Delay in TR 0 ms Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition to the starting interpolation Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition states On Temp. highpass filter On Threshold 4.00 Phase partial Fourier 6/8 Interpolation Off Meas[1] Baseline Meas[1] Baseline Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[1] Baseline Meas[9] Baseline Meas[1] Baseline Meas[1] Baseline Meas[9] Baseline Meas[1] Active Meas[11] Active Meas[11] Active Meas[12] Active Multi-slice mode Interleaved	Γαι δυρρι.	Fai Sai.	•	None
Measurements 20 Delay in TR 0 ms Multiple series Off  Resolution  Base resolution 224 Phase resolution 100 % Phase partial Fourier Interpolation Off  PAT mode Accel. factor PE 3 Ref. lines PE 48 Reference scan mode GRE Distortion Corr. Off Prescan Normalize Off Raw filter On Coff Persoan Normalize Off Raw filter Off Hamming Off  GLM Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition 0 Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 12 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[11] Active Meas[12] Active Motion correction Off	Averaging mode	Long term	rst Signal/Mode	None
Delay in TR Multiple series Off  Resolution  Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Reference scan mode Reference scan mode Distortion Corr. Prescan Normalize Ref liner Prescan Normalize Raw filter Pamming Geometry Multi-slice mode  Model transition Off Starting ignore meas On Model transition states On Threshold A.00 Paradigm size 12 Meas[1] Baseline Meas[2] Meas[3] Baseline Meas[4] Meas[4] Meas[5] Baseline Meas[6] Meas[6] Meas[7] Meas[7] Meas[1] M	Reconstruction		BOLD	
Multiple series     Off       Resolution     Starting ignore meas     0       Base resolution     224       Phase resolution     100 %       Phase partial Fourier Interpolation     6/8       Interpolation     Off       PAT mode Accel. factor PE 3     3       Ref. lines PE 48     Meas[2]     Baseline       Reference scan mode     GRE     Meas[4]     Baseline       Distortion Corr. Prescan Normalize Raw filter On Elliptical filter Off Hamming     Off     Meas[7]     Baseline       Geometry     Meas[11]     Meas[11]     Baseline       Meas[12]     Active       Motion correction     Off       Multi-slice mode     Interleaved     Motion correction     Off       Model transition states On Model transition states On Temp. highpass filter On Threshold 4.00     A.00       Paradigm size 12     12       Meas[1]     Baseline       Meas[2]     Baseline       Meas[3]     Baseline       Meas[6]     Baseline       Meas[9]     Baseline       Meas[11]     Active       Motion correction     Off	Measurements	20	GLM Statistics	Off
Resolution  Base resolution 224 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off  PAT mode GRAPPA Meas[1] Baseline Accel. factor PE 3 Meas[2] Baseline Reference scan mode GRE Meas[5] Baseline Reference scan mode GRE Meas[6] Baseline Distortion Corr. Off Prescan Normalize Off Raw filter On Raw filter On Base resolution Off Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 12 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[6] Baseline Meas[6] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Motion correction Off	Delay in TR			Off
Resolution  Base resolution 224 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off Meas[1] Baseline  PAT mode GRAPPA Meas[2] Baseline  Ref. lines PE 48 Reference scan mode GRE  Distortion Corr. Prescan Normalize Off Raw filter On Elliptical filter Hamming Off  Geometry  Multi-slice mode Interleaved  Ignore after transition 0 Model transition states On Meas[1] Meas[1]  Meas[1] Meas[1	Multiple series	Off		0
Base resolution 224 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off  PAT mode GRAPPA Accel. factor PE 3 Ref. lines PE 48 Reference scan mode GRE  Distortion Corr. Prescan Normalize Raw filter Raw filter Elliptical filter Hamming Geometry  Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 12 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Motion correction Off	Resolution			0
Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off  PAT mode GRAPPA Meas[1] Baseline Accel. factor PE 3 Meas[3] Baseline Ref. lines PE 48 Meas[4] Baseline Reference scan mode GRE Meas[5] Baseline Distortion Corr. Off Meas[6] Baseline Raw filter On Meas[8] Baseline Raw filter On Meas[8] Baseline Elliptical filter Off Meas[9] Baseline Meas[1] Base		224		On
Phase partial Fourier Interpolation Off Paradigm size 12  PAT mode GRAPPA Meas[1] Baseline Accel. factor PE 3 Meas[3] Baseline Meas[4] Baseline Reference scan mode GRE Meas[5] Baseline Meas[6] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Multi-slice mode Interleaved				On
Interpolation Off Meas[1] Baseline  PAT mode GRAPPA Meas[2] Baseline  Accel. factor PE 3 Meas[3] Baseline  Ref. lines PE 48 Meas[4] Baseline  Reference scan mode GRE Meas[5] Baseline  Distortion Corr. Off Meas[6] Baseline  Prescan Normalize Off Meas[7] Baseline  Raw filter On Meas[8] Baseline  Elliptical filter Off Meas[9] Baseline  Hamming Off Meas[10] Baseline  Meas[10] Baseline  Meas[11] Active  Meas[12] Active  Motion correction Off				4.00
PAT mode GRAPPA Meas[2] Baseline Accel. factor PE 3 Meas[3] Baseline Ref. lines PE 48 Meas[4] Baseline Reference scan mode GRE Meas[5] Baseline Distortion Corr. Off Prescan Normalize Off Raw filter On Elliptical filter Off Hamming Off Geometry Meas[1] Active Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[1] Active Meas[1] Active Meas[1] Active Meas[1] Active Meas[1] Meas[1] Active	I		Paradigm size	12
Accel. factor PE         3         Meas[3]         Baseline           Ref. lines PE         48         Meas[4]         Baseline           Reference scan mode         GRE         Meas[5]         Baseline           Distortion Corr.         Off         Meas[6]         Baseline           Prescan Normalize         Off         Meas[7]         Baseline           Raw filter         On         Meas[8]         Baseline           Reas[9]         Baseline         Meas[10]         Baseline           Meas[11]         Active           Meas[12]         Active           Motion correction         Off		OII	Meas[1]	Baseline
Ref. lines PE 48 Reference scan mode GRE  Distortion Corr. Off Prescan Normalize Off Raw filter On Elliptical filter Off Hamming Off Geometry  Meas[1] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Motion correction  Motion correction  Meas[12] Off	PAT mode	GRAPPA	Meas[2]	Baseline
Ref. lines PE         48         Meas[4]         Baseline           Reference scan mode         GRE         Meas[5]         Baseline           Distortion Corr.         Off         Meas[6]         Baseline           Prescan Normalize         Off         Meas[7]         Baseline           Raw filter         On         Meas[8]         Baseline           Elliptical filter         Off         Meas[9]         Baseline           Hamming         Off         Meas[10]         Baseline           Meas[11]         Active           Meas[12]         Active           Motion correction         Off	Accel. factor PE	3	Meas[3]	Baseline
Reference scan mode  Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Off Geometry  Meas[6] Meas[6] Meas[7] Meas[7] Meas[8] Meas[8] Meas[9] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[12] Motion correction  Meas[12] Motion correction  Meas[13] Meas[14] Meas[15]  Meas[15] Meas[15] Meas[15] Meas[17] Meas[18] Meas[18] Meas[10] Meas[10] Meas[11] Meas[11] Meas[12]	Ref. lines PE	48	Meas[4]	Baseline
Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Off Geometry  Meas[7] Meas[7] Meas[8] Meas[8] Meas[9] Meas[10] Meas[10] Meas[11] Meas[11] Meas[12] Meas[12] Meas[12] Meas[12] Meas[12] Meas[12] Meas[13] Meas[14] Meas[15] Meas[17] Meas[18] Meas[10] Mea	Reference scan mode	GRE		Baseline
Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Off Geometry  Meas[7] Meas[7] Meas[8] Meas[8] Meas[9] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[12] Meas[12] Motion correction Off Meas[12] Motion correction Off	Distortion Com	O#		Baseline
Raw filter On Elliptical filter Off Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[10] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Motion correction Off			Meas[7]	Baseline
Elliptical filter Hamming Off Geometry  Meas[9] Meas[10] Meas[10] Meas[11] Meas[11] Meas[12] Motion correction Off Motion correction Meas[12] Motion correction Off				Baseline
Hamming Off Meas[10] Baseline Meas[11] Active Meas[12] Active Multi-slice mode Interleaved Motion correction Off				
Geometry  Meas[11]  Meas[12]  Motive  Motive  Motive  Motion correction  Motive  Motion correction  Off	•			Baseline
Geometry Meas[12] Active  Multi-slice mode Interleaved Motion correction Off	Hamming	Off		Active
Multi-slice mode Interleaved Motion correction Off	Geometry		1 2	Active
		Interleaved		
				_
		· -	· ·	

#### Sequence

Sequence	
Introduction	Off
Bandwidth	1174 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	174
Gradient mode	Normal
RF spoiling	Off
	2640 up
Excite pulse duration	3640 us 1
Slice multiplier Fake MB factor for SB	1
No. of interleaved TEs	<u>.</u>
	0 1
RF pulse shape EPI noise scans	0
EPI full reference scan	0
SENSE1 coil combine	Off
Log physiology to file	Off
Invert RO/PE polarity	Off
Save reduced raw data	Off
Readout slice trace	Off
Disable ramp sampling	Off
PF omits higher k-space	Off
FFT scale factor	0.10
GRE iPAT ref. FA	12.0 deg
Send B1 shim trigger	Never
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0
1	

\\USER\Feinberglab\Jen\M1V1 pilot- ST\GE\_1p4mm\_MB2IPAT3\_pf6\_tr3000\_m1v1test

TA: 5:09 PAT: 3 Voxel size: 1.4×1.4×1.4 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	1	
Inline movie	Off	System	0.5
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On Off
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
Douting	•	Transversal	F >> H
Routine		- Coil Combine Mode	Sum of Squares
Slice group 1	0.0	AutoAlign	<del></del>
Slices	80	Auto Coil Select	Default
Dist. factor	0 %		
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	On
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	220.000 V
FoV read	280 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	
Slice thickness	1.40 mm	Position	L1.4 A31.7 F4.9
TR	3000 ms	Orientation	Transversal
TE	24.0 ms	Rotation	0.00 deg
Multi-band accel. factor	2	R >> L	280 mm
Filter	None	A >> P	255 mm
Coil elements	B4;M2,3;T1	F >> H	112 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None		
Flip angle	89 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
A	Law tawa	Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	93	Model transition states	On
Delay in TR	0 ms Off	Temp. highpass filter	On 4.00
Multiple series	OII	Threshold	4.00
Resolution		Paradigm size	12
Base resolution	200	- Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	6/8	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
		Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	Segmented	Meas[9]	Baseline
Distortion Corr.	Off	Meas[10]	Baseline
Prescan Normalize	Off	Meas[11]	Active
Raw filter	On	Meas[12]	Active
		Motion correction	Off
Elliptical filter Hamming	Off Off	Spatial filter	Off
•	Oil	Sequence	
Geometry		- Introduction	Off
Multi-slice mode Series	Interleaved Interleaved	Bandwidth	1250 Hz/Px

Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	182
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 O O O O O O O O O O O O O

TA: 6:36 PAT: 3 Voxel size: 1.4x1.4x1.4 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	Custom	
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	Positioning mode	FIX
further preparation	<b>3.</b> .	MSMA	S-C-T
Wait for user to start	Off		R >> L
Start measurements	single	Sagittal Coronal	A >> P
Start measurements	Sirigie		
Routine		Transversal	F >> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	80	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	On
Rotation	0.00 deg		
Phase oversampling	0.00 deg 0 %	Assume Silicone	Off
	280 mm	! Ref. amplitude 1H	220.000 V
FoV read		Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	
Slice thickness	1.40 mm	Position	L1.4 A31.7 F4.9
TR	3000 ms	Orientation	Transversal
TE	24.0 ms	Rotation	0.00 deg
Multi-band accel. factor	2	R >> L	280 mm
Filter	None	A >> P	255 mm
Coil elements	B4;M2,3;T1	F >> H	112 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None		140110
Flip angle	89 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
· ut ouppi.		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	122	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
·		Paradigm size	12
Resolution	<u></u>	——   Meas[1]	Baseline
Base resolution	200		Baseline
Phase resolution	100 %	Meas[2]	
Phase partial Fourier	6/8	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
		Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	Segmented	Meas[9]	Baseline
Distantian O		Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Motion correction	Off
Elliptical filter	Off	Spatial filter	Off
Hamming	Off		Jii
Geometry		Sequence Introduction	Off
Multi-slice mode	Interleaved	Bandwidth	1250 Hz/Px
Series	Interleaved		
OCI163	inteneaved	Flow comp.	No

Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	182
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 O O O O O O O O O O O O O

\\USER\Feinberglab\Jen\M1V1 pilot- ST\GE_1p4mm_MB2IPAT3_pf6_tr3000_m1
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TA: 6:36 PAT: 3 Voxel size: 1.4×1.4×1.4 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		
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	011	M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	Desitioning mode	FIV
further preparation	Oli	Positioning mode	FIX
	Off	MSMA	S - C - T
Wait for user to start	_	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
Slice group 1		<ul> <li>Coil Combine Mode</li> </ul>	Sum of Squares
Slices	80	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
		Confirm freq. adjustment	On O"
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	220.000 V
FoV read	280 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	
Slice thickness	1.40 mm	Position	L1.4 A31.7 F4.9
TR	3000 ms	Orientation	Transversal
TE	24.0 ms	Rotation	0.00 deg
Multi-band accel. factor	2	R >> L	280 mm
Filter	None	A >> P	255 mm
Coil elements	B4;M2,3;T1	F >> H	112 mm
Contrast	, , ,	I	
MTC	0#	Physio	
	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	89 deg	GLM Statistics	Off
Fat suppr.	Fat sat.	Dynamic t-maps	Off
Averaging mode	Long term		0
Reconstruction	•	Starting ignore meas	
	Magnitude 122	Ignore after transition	0
Measurements		Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	12
Base resolution	200	— Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	6/8	Meas[3]	Baseline
•		Meas[4]	Baseline
Interpolation	Off	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	Segmented	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off		
Prescan Normalize	Off	Meas[11]	Active
Raw filter	On	Meas[12]	Active
Elliptical filter	Off	Motion correction	Off
Hamming	Off	Spatial filter	Off
•	-	Sequence	
Geometry	Interlegued	Introduction	Off
Multi-slice mode	Interleaved	Bandwidth	1250 Hz/Px
Series	Interleaved		

Free echo spacing Echo spacing	Off 1 ms
 SIR accel. factor EPI factor Gradient mode RF spoiling	1 182 Normal Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 On Off Off Off Off Off Off Off Off Off

\\USER\Feinberglab\Jen\M1V1	pilot- ST\GF 1p4mm	MB2IPAT3 pf6 tr3000 V1
	DIIOL OI OL IDTIIII	

TA: 5:09 PAT: 3 Voxel size: 1.4x1.4x1.4 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Properties		Special sat.	None
Prio Recon	Off	Table position	H
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	1	
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments	<b>.</b>	M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	Positioning mode	FIX
further preparation	311	MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Start measurements	Single	Transversal	F >> H
Routine		- Coil Combine Mode	
Slice group 1			Sum of Squares
Slices	80	AutoAlign	 D ( )
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	On
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	220.000 V
FoV read	280 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %	Adjust volume	Adio
Slice thickness	1.40 mm	Position	L1.4 A31.7 F4.9
TR	3000 ms	Orientation	
TE	24.0 ms		Transversal
Multi-band accel. factor	2	Rotation	0.00 deg
Filter	None	R >> L	280 mm
Coil elements		A >> P	255 mm
Con elements	B4;M2,3;T1	F >> H	112 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	89 deg	GLM Statistics	Off
Fat suppr.	Fat sat.		Off
Avoraging mode	Long torm	Dynamic t-maps	
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	93	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	12
Base resolution	200	- Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	6/8	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
	•••••	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	Segmented	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Motion correction	Off
Elliptical filter	Off	Spatial filter	Off
Hamming	Off	· ·	<b>J</b>
Geometry		Sequence	0#
		<ul> <li>Introduction</li> </ul>	Off
Multi-slice mode	Interleaved	Dondwidth	1050 H-/Dv
Multi-slice mode Series	Interleaved Interleaved	Bandwidth Flow comp.	1250 Hz/Px No

Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	182
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 O O O O O O O O O O O O O

\\USER\Feinberglab\Jen\M1V1	-: I-+ OT\OE	4 4		-to 1-20004
\\USER\EeInnerdian\ ien\ivi \	$DIIOI - > I \setminus I \rightarrow I$	1D4mm	WIBZIPALS	DID TEXUUU VI

TA: 5:09 PAT: 3 Voxel size: 1.4×1.4×1.4 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	Custom	
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	Positioning mode	FIX
further preparation	3.1	MSMA	S-C-T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Start measurements	Sirigie	Transversal	F >> H
Routine			
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	80	AutoAlign	 D ( )
Dist. factor	0 %	Auto Coil Select	Default
Position	L1.4 A31.7 F4.9	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	On
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	! Ref. amplitude 1H	220.000 V
FoV read	280 mm	Adjustment Tolerance	Auto
FoV phase	91.0 %		Auto
Slice thickness	1.40 mm	Adjust volume	14 4 404 7 54 0
TR	3000 ms	Position	L1.4 A31.7 F4.9
		Orientation	Transversal
TE	24.0 ms	Rotation	0.00 deg
Multi-band accel. factor	2 Nana	R >> L	280 mm
Filter	None	A >> P	255 mm
Coil elements	B4;M2,3;T1	F >> H	112 mm
Contrast		Physio Physio	
MTC	Off	1st Signal/Mode	None
Magn. preparation	None	BOLD	
Flip angle	89 deg		044
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long torm	Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	93	Model transition states	On
Delay in TR	0 ms	Temp. highpass filter	On
Multiple series	Off	Threshold	4.00
Resolution		Paradigm size	12
Base resolution	200	—— Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	6/8	Meas[3]	Baseline
•	Off	Meas[4]	Baseline
Interpolation	OII	Meas[5]	Baseline
PAT mode	GRAPPA	Meas[6]	Baseline
Accel. factor PE	3	Meas[7]	Baseline
Ref. lines PE	48	Meas[8]	Baseline
Reference scan mode	Segmented	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off	Meas[10]	Active
Prescan Normalize	Off	Meas[12]	Active
Raw filter	On	Motion correction	
Elliptical filter	Off		Off
Hamming	Off	Spatial filter	Off
Geometry		Sequence	
Multi-slice mode	Interleaved	Introduction	Off
171GIU 31105 HIUUG	IIIIOIIOAVEU	Bandwidth	1250 Hz/Px
Series	Interleaved	Dandwidth	No

Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	182
Gradient mode	Normal
RF spoiling	Off
Excite pulse duration Slice multiplier Multi-band PE shift zBlip scheme MB kernel size MB knockout band No. of interleaved TEs RF pulse shape EPI noise scans EPI full reference scan Single-band images MB RF phase scramble SENSE1 coil combine Log physiology to file Invert RO/PE polarity Save reduced raw data Readout slice trace Disable ramp sampling PF omits higher k-space Online multi-band recon. FFT scale factor Send B1 shim trigger Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	3640 us 1 0 1/FoV 0 0 0 0 1 0 0 O O O O O O O O O O O O O

#### \\USER\Feinberglab\Jen\M1V1 pilot- ST\GE\_1p4mm\_SB1IPAT3\_pf6\_te24\_tr3000

TA: 1:33 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: AV\_ep2d\_bold\_sd\_20140727

Dranautica		Sat. region 1	
Prio Page	0#	Thickness	50 mm
Prio Recon	Off	Position	L10.9 A51.7 F73.1
Before measurement		Orientation	T > C-33.5 > S4.0
After measurement	0.5	Special sat.	None
Load to viewer	On Off	Table position	LI
Inline movie		Table position	H 0 mm
Auto store images	On Off	Table position Inline Composing	0 mm Off
Load to stamp segments  Load images to graphic	Off	Inline Composing	Oil
segments	Oil	System	
Auto open inline display	Off	T1	On
Start measurement without	On	M2	On
further preparation	Oli	B4	On
Wait for user to start	Off	M3	On
Start measurements	single	V32	Off
I	Sirigie	Positioning mode	FIX
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	50	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	L2.1 A10.0 F9.9	Coil Combine Mode	Sum of Squares
Orientation	T > C29.9	AutoAlign	
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Auto Coli Gelect	
Phase oversampling	0 %	Shim mode	Standard
FoV read	180 mm	Adjust with body coil	Off
FoV phase	77.7 %	Confirm freq. adjustment	On
Slice thickness	0.80 mm	Assume Silicone	Off
TR	3500 ms	! Ref. amplitude 1H	230.000 V
TE	23.4 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	1	Adjust volume	
Filter	None	Position	L2.1 A10.0 F9.9
Coil elements	B4;M2,3;T1	Orientation	T > C29.9
Contrast		Rotation	0.00 deg
MTC	Off	R >> L	180 mm
	None	A >> P	140 mm
Magn. preparation	60 deg	F >> H	40 mm
Flip angle Fat suppr.	Fat sat.	Dhysis	
rai suppi.	Fai Sai.	Physio	Nege
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude	BOLD	
Measurements	20	GLM Statistics	Off
Delay in TR	0 ms	Dynamic t-maps	Off
Multiple series	Off	Starting ignore meas	0
Resolution		Ignore after transition	0
Base resolution	224	Model transition states	On
		Temp. highpass filter	On
Phase resolution	100 % 6/8	Threshold	4.00
Phase partial Fourier	6/8 Off	Paradigm size	12
Interpolation	Off	Meas[1]	Baseline
PAT mode	GRAPPA	Meas[2]	Baseline
Accel. factor PE	3	Meas[3]	Baseline
Ref. lines PE	48	Meas[4]	Baseline
Reference scan mode	GRE	Meas[5]	Baseline
		Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
Geometry		Meas[12]	Active
Multi-slice mode	Interleaved	Motion correction	Off
	IIICIICAVCU	MONON CONTOCUON	<b>∵</b>
Series	Interleaved	Spatial filter	Off

#### Sequence

Coquentos	
Introduction	Off
Bandwidth	1174 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	1 ms
SIR accel. factor	1
EPI factor	174
Gradient mode	Normal
RF spoiling	Off
	2040
Excite pulse duration	3640 us
Slice multiplier Fake MB factor for SB	1
No. of interleaved TEs	1
RF pulse shape	0 1
EPI noise scans	0
EPI full reference scan	0
SENSE1 coil combine	Off
Log physiology to file	Off
Invert RO/PE polarity	Off
Save reduced raw data	Off
Readout slice trace	Off
Disable ramp sampling	Off
PF omits higher k-space	Off
FFT scale factor	0.10
GRE iPAT ref. FA	12.0 deg
Send B1 shim trigger	Never
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0
·	

\\USER\Feinberglab\Jen\M1V1 pilot- ST\t1\_mpr\_sag\_p9mm\_iso

TA: 6:14 F	PAT: Off Voxel size: 0.9	x0.9x0.9 mm Rel. SNR: 1.00	SIEMENS: tfl
Properties		Mode	Inplane
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Single shot
After measurement		Series	Ascending
Load to viewer	On		
Inline movie	Off	Table position	Н
Auto store images	On	Table position	0 mm
Load to stamp segments	Off	Inline Composing	Off
Load images to graphic	Off	System	
segments		System 8CH	On
Auto open inline display	Off	оСП	OII
Start measurement without	On	Positioning mode	REF
further preparation	0"	MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Adaptive Combine
Dist. factor	50 %	AutoAlign	
Position	Isocenter	Auto Coil Select	Off
Orientation	Sagittal	Shim mode	Tune up
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
Slice oversampling	18.2 %	? Ref. amplitude 1H	0.000 V
Slices per slab	176	Adjustment Tolerance	Auto
FoV read	230 mm	Adjust volume	
FoV phase	87.5 %	Position	Isocenter
Slice thickness	0.90 mm	Orientation	Transversal
TR	1900 ms	Rotation	0.00 deg
TE	2.16 ms	R >> L	350 mm
Averages	1	A >> P	263 mm
Concatenations	1	F >> H	350 mm
Filter	Elliptical filter	Physio	
Coil elements	8CH	1st Signal/Mode	None
Contrast			
Magn. preparation	Non-sel. IR	Dark blood	Off
TI	900 ms	Resp. control	Off
Flip angle	9 deg		
Fat suppr.	None	Inline	~
Water suppr.	None	Subtract	Off
Averaging mode	Long term	Std-Dev-Sag	Off Off
Reconstruction	Magnitude	Std-Dev-Cor Std-Dev-Tra	Off Off
Measurements	1	Std-Dev-Tra Std-Dev-Time	Off
Multiple series	Each measurement	MIP-Sag	Off
·		MIP-Sag MIP-Cor	Off
Resolution	050	MIP-Tra	Off
Base resolution	256	MIP-Time	Off
Phase resolution	100 %	Save original images	On
Slice resolution	100 %	·····	
Phase partial Fourier Slice partial Fourier	7/8 Off	Sequence	
Interpolation	Off	Introduction	On
	<u> </u>	Dimension	3D
PAT mode	None	Elliptical scanning	Off
Image Filter	Off	Asymmetric echo	Allowed
Distortion Corr.	Off	Bandwidth	200 Hz/Px
Prescan Normalize	Off	Flow comp.	No
Normalize	Off	Echo spacing	6.3 ms
B1 filter	Off		
Raw filter	Off	RF pulse type	Normal
Raw IIILEI			
Elliptical filter	On	Gradient mode Excitation	Normal Non-sel.

RF spoiling On

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