	\\USER\Feinberglab\Ta	anja\pgrs3d\pgrs3d_ey	
TA: 2.0 s PA	T: Off Voxel size: 3.9×3.9×1.	0 mm Rel. SNR: 1.00 l	JSER: pgrs3d_ey
Properties		Table position	0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement		System	
After measurement			On
Load to viewer	On	M2	Off
Inline movie	Off	B4	Off
Auto store images	On	M3	Off
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	Positioning mode	REF
segments Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	Oli	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
Douting	S	Coil Combine Mode	Adaptive Combine
Routine Slab group 1		AutoAlign Auto Coil Select	 Default
Slabs	1	Auto Coli Select	Delauli
Dist. factor	0 %	Shim mode	Standard
Position	Isocenter	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
Slice oversampling	0.0 %	Adjust volume Position	Isocenter
Slices per slab	6	Orientation	Transversal
FoV read	500 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	500 mm
Slice thickness	1.0 mm	A >> P	500 mm
TR TE	2000 ms 102.3 ms	F >> H	6 mm
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	None		None
Coil elements	T1	BOLD	
Contrast		Sequence Introduction	Off
Flip angle	180 deg	Dimension	3D
Fat suppr.	Fat sat.	Reordering	Centric
Fat sat. mode	Strong	Contrasts	1
Averaging mode	Long term	Bandwidth	1396 Hz/Px
Reconstruction	Magnitude	Echo spacing	0.8 ms
Measurements	1	Turbo factor	5
Multiple series	Each measurement	EPI factor	128
Resolution		RF pulse type	Normal
Base resolution	128	Gradient mode	Fast
Phase resolution	100 %	Adjust flipangles	Off
Slice resolution	100 %	Crusher Momentum	10000
Slice partial Fourier	6/8	Crusher Time	550
Interpolation	Off	FLIP ANGLES[1]	180 degrees
PAT mode	None	FLIP ANGLES[2]	180 degrees
Raw filter	Off	FLIP ANGLES[3]	180 degrees
		FLIP ANGLES[4]	180 degrees
Geometry		FLIP ANGLES[5]	180 degrees
Series	Interleaved	FLIP ANGLES[6]	180 degrees
Sat. region 1		FLIP ANGLES[7]	180 degrees
Thickness	66 mm	FLIP ANGLES[8] FLIP ANGLES[9]	180 degrees 180 degrees
Position	Isocenter	FLIP ANGLES[9]	180 degrees
Orientation	Transversal	FLIP ANGLES[11]	180 degrees
Special sat.	None	FLIP ANGLES[12]	180 degrees
Table position	Н	FLIP ANGLES[13]	180 degrees
•		1/24	

180 degrees
180 degrees
On
0
1500000 us
Off

\\USER\Feinberglab\Tanja\pgrs3d\pgrs3d\_ey\_20180816

TA: 8.0 s PAT: Off	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00 USER:	pgrs3d_ey_20180816
Properties		Orientation Special sat.	Coronal None
Prio Recon	Off		·····
Before measurement		Table position	Н
After measurement		Table position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off		On On
Load images to graphic	Off	M2	On
segments		B4	On
Auto open inline display	Off	M3	On
Start measurement without	On	V32	Off
further preparation		Positioning mode	REF
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Į.	g	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Adaptive Combine
Dist. factor	0 %	AutoAlign	Adaptive Combine
Position	R20.9 P31.0 H0.0	Auto Coil Select	Default
Orientation	Transversal	Auto Coli Select	Delault
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0.00 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	0.0 %	Assume Silicone	Off
Slices per slab	10	! Ref. amplitude 1H	100.000 V
FoV read	96 mm	Adjustment Tolerance	Auto
FoV phase	25.0 %	Adjust volume	Adio
Slice thickness	0.80 mm	Position	R20.9 P31.0 H0.0
TR	2000 ms	Orientation	Transversal
TE	35.67 ms	Rotation	0.00 deg
Averages	1	Rotation R >> L	96 mm
Concatenations	1	A >> P	24 mm
Filter	None		
Coil elements		F >> H	8 mm
Con elements	B4;M2,3;T1	Physio	
Contrast		1st Signal/Mode	None
Flip angle 1	90 deg	BOLD	
Flip angle 2	180 deg		0"
Fat suppr.	Fat sat.	Motion correction	Off
Averaging mode	Long torm	Spatial filter	Off
Reconstruction	Long term Magnitude	Sequence	
Measurements	4	Introduction	Off
Pause after meas. 1	0.0 s	Dimension	3D
Pause after meas. 2	0.0 s	Reordering	Centric
Pause after meas. 3	0.0 s	Contrasts	1
	Off	Bandwidth	1158 Hz/Px
Multiple series	Oli	Echo spacing	1.01 ms
Resolution			
Base resolution	120	Slice turbo factor	6
Phase resolution	100 %	EPI factor	30
Slice resolution	100 %	RF pulse type	Normal
Slice partial Fourier	5/8	Gradient mode	Fast
Interpolation	Off	Adjust flipangles	Off
		FLIP ANGLES[1]	180 deg
PAT mode	None	FLIP ANGLES[2]	180 deg
Raw filter	Off	FLIP ANGLES[2]	•
I taw into	<b>U</b> 11		180 deg
Geometry		FLIP ANGLES[4]	180 deg
Series	Ascending	FLIP ANGLES[5]	180 deg
		FLIP ANGLES[6]	180 deg
Sat. region 1	24	Crusher Factor	1.00
Thickness	24 mm	Spoiler Factor	5.00
Position	R20.9 P31.0 H0.0	RF02 BWT Factor	1.00

RF02 time	2560 ms
RF Scaling[1]	1.00
Phase Encoding PE	On
Phase Encoding 3D	On
Measurement Number	1023
Inversion Flag	Off
FFT Scale Factor	1.00
ACROSSSEGMENTS	Off
PRIMARYMODE	On
AUTOCORR	Off
CROSSCORR	Off
FILTERED	On
FatSat FlipAngle	110 deg

\\US	SER\Feinberglab\Tanja\pgrs3d		e8mm
TA: 8.0 s PAT: Off	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00 USER	: pgrs3d_ey_20180816
Properties		Orientation	Coronal
Prio Recon	Off	Special sat.	None
Before measurement	Oli	Table position	Н
After measurement		Table position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off		Oll
Auto store images	On	System	
Load to stamp segments	Off	T1	On
Load images to graphic	Off	M2	On
segments	OII	B4	On
Auto open inline display	Off	M3	On
Start measurement without	On	V32	Off
further preparation	311	Positioning mode	REF
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
	5g.c	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Adaptive Combine
Dist. factor	0 %	AutoAlign	
Position	R20.9 P31.0 H0.0	Auto Coil Select	Default
Orientation	Transversal		
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0.00 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	0.0 %	Assume Silicone	Off
Slices per slab	10	! Ref. amplitude 1H	100.000 V
FoV read	96 mm	Adjustment Tolerance	Auto
FoV phase	25.0 %	Adjust volume	
Slice thickness	0.80 mm	Position	R20.9 P31.0 H0.0
TR	2000 ms	Orientation	Transversal
TE	35.67 ms	Rotation	0.00 deg
Averages	1	R >> L	96 mm
Concatenations	1	A >> P	24 mm
Filter	None	F >> H	8 mm
Coil elements	B4;M2,3;T1	Physio	
Contrast		1st Signal/Mode	None
Flip angle 1	90 deg	BOLD	
Flip angle 2	180 deg	Motion correction	Off
Fat suppr.	Fat sat.	Spatial filter	Off
Averaging mode	Long term	Spatial litter	Oll
Reconstruction	Magnitude	Sequence	
Measurements	4	Introduction	Off
Pause after meas. 1	0.0 s	Dimension	3D
Pause after meas, 2	0.0 s	Reordering	Centric
Pause after meas. 3	0.0 s	Contrasts	1
Multiple series	Off	Bandwidth	1158 Hz/Px
· -		Echo spacing	1.01 ms
Resolution	400	Slice turbo factor	6
Base resolution	120	EPI factor	30
Phase resolution	100 %	RF pulse type	Normal
Slice resolution	100 %	Gradient mode	Fast
Slice partial Fourier	5/8 Off		
Interpolation	Off	Adjust flipangles	Off
PAT mode	None	FLIP ANGLES[1]	180 deg
Dow filto-	O#	FLIP ANGLES[2]	180 deg
Raw filter	Off	FLIP ANGLES[3]	180 deg
Geometry		FLIP ANGLES[4]	180 deg
Series	Ascending	FLIP ANGLES[5]	180 deg
		FLIP ANGLES[6]	180 deg
Sat. region 1 Thickness	24 mm	Crusher Factor Spoiler Factor	1.00 5.00
LDICKDASS	74 MM	Shorier Eactor	2 UU

Spoiler Factor

RF02 BWT Factor

5.00

1.00

Thickness

Position

24 mm

R20.9 P31.0 H0.0

RF02	time	2560 ms
RF Sc	caling[1]	1.00
Phase	e Encoding PE	On
Phase	e Encoding 3D	On
Meas	urement Number	1023
Invers	sion Flag	Off
FFT S	Scale Factor	1.00
ACRO	DSSSEGMENTS	Off
PRIM	ARYMODE	On
AUTO	CORR	Off
CROS	SSCORR	Off
FILTE	RED	On
FatSa	nt FlipAngle	110 deg

Properties		Orientation	Coronal None
Prio Recon	Off	Special sat.	none
Before measurement		Table position	Н
After measurement		Table position	0 mm
Load to viewer	On	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		Positioning mode	REF
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	Adaptive Combine
Position	R20.9 P31.0 H0.0	AutoAlign	
Orientation	Transversal	Auto Coil Select	Default
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0.00 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	0.0 %	Assume Silicone	Off
Slices per slab	10	! Ref. amplitude 1H	100.000 V
FoV read	120 mm	Adjustment Tolerance	Auto
FoV phase	25.0 %	Adjust volume	Auto
Slice thickness	1.00 mm	Position	R20.9 P31.0 H0.0
TR	2000 ms	Orientation	Transversal
TE	35.49 ms	Rotation	0.00 deg
Averages	1	R >> L	120 mm
Concatenations	1	A >> P	30 mm
Filter	None	F >> H	10 mm
Coil elements	B4;M2,3;T1	F >> 11	10 111111
	51,1112,0,11	Physio	
Contrast		1st Signal/Mode	None
Flip angle 1	90 deg	BOLD	
Flip angle 2	180 deg	Motion correction	Off
Fat suppr.	Fat sat.	Spatial filter	Off
Averaging mode	Long term	Spatial litter	Oli
Reconstruction	Magnitude	Sequence	
Measurements	4	Introduction	Off
Pause after meas. 1	0.0 s	Dimension	3D
Pause after meas. 2	0.0 s	Reordering	Centric
Pause after meas. 3	0.0 s	Contrasts	1
Multiple series	Off	Bandwidth	1158 Hz/Px
·	<b>3</b> 11	Echo spacing	1.01 ms
Resolution		Slice turbo factor	
Base resolution	120	EPI factor	6 30
Phase resolution	100 %		
Slice resolution	100 %	RF pulse type Gradient mode	Normal Fast
Slice partial Fourier	5/8	Gradient mode	гаэ <b>.</b>
Interpolation	Off	Adjust flipangles	Off
PAT mode	None	FLÍP ANGLES[1]	180 deg
1 /11 IIIOUG		FLIP ANGLES[2]	180 deg
Raw filter	Off	FLIP ANGLES[3]	180 deg
Soomotry.		FLIP ANGLES[4]	180 deg
Series	According	—— FLIP ANGLES[5]	180 deg
Series	Ascending	FLIP ANGLES[6]	180 deg
Sat. region 1		Crusher Factor	1.00
Thickness	24 mm	Spoiler Factor	5.00
	R20.9 P31.0 H0.0	RF02 BWT Factor	1.00

RF02 time	2560 ms
RF Scaling[1]	1.00
Phase Encoding PE	On
Phase Encoding 3D	On
Measurement Number	1023
Inversion Flag	Off
FFT Scale Factor	1.00
ACROSSSEGMENTS	Off
PRIMARYMODE	On
AUTOCORR	Off
CROSSCORR	Off
FILTERED	On
FatSat FlipAngle	110 deg

\\USER\Feinberglab\Tanja\pgrs3d\localizer\_100V\_newcoil Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

SIEMENS: gre

PAT: Off

TA: 0:27

TA. 0.27 P.	AT. OII VOXEI SIZE. 1.2X1.1X	3.0 IIIII Kei. SNR. 1.00	SIEWENS. gre
		Dhasa resolution	90.9/
Properties		Phase resolution	90 % 6/8
Prio Recon	Off	<ul> <li>Phase partial Fourier</li> <li>Interpolation</li> </ul>	6/8 On
Before measurement			OII
After measurement		PAT mode	None
Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	Off	Normalize	Off
Load images to graphic	Off	B1 filter	Off
segments	0"	Raw filter	Off
Auto open inline display	Off On	Elliptical filter	Off
Start measurement without further preparation	Off	Coometry	
Wait for user to start	Off	Geometry  Multi-slice mode	Sequential
Start measurements	single	Series	Interleaved
I	Sirigio		
Routine		Saturation mode	Standard
Slice group 1	_	Special sat.	None
Slices	5		
Dist. factor	20 %	Table position	H
Position	L0.0 A8.8 F17.5	Table position	0 mm
Orientation Phase enc. dir.	Sagittal A >> P	Inline Composing	Off
Rotation	A >> P 0.00 deg	Tim CT mode	Off
Slice group 2	0.00 u <del>c</del> g	ı	•
Slices	5	System	
Dist. factor	20 %	B1	On
Position	L0.0 P68.8 H0.7	B2	On
Orientation	Coronal	B3 B4	On On
Phase enc. dir.	R >> L	B5	On
Rotation	0.00 deg	B6	On
Slice group 3	S	B7	On
Slices	5	B8	On
Dist. factor	20 %	БО	OII
Position	L0.0 P68.8 H0.7	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	280 mm	Save uncombined	On
FoV phase	100.0 %	Coil Combine Mode	Sum of Squares
Slice thickness	3.0 mm	AutoAlign Auto Coil Select	Off
TR	10.0 ms	Auto Coil Select	OII
TE	3.00 ms	Shim mode	Tune up
Averages	1 15	Adjust with body coil	Off
Concatenations Filter	None	Confirm freq. adjustment	Off
Coil elements	B1-8	Assume Silicone	Off
	D1-0	! Ref. amplitude 1H	100.000 V
Contrast		Adjustment Tolerance	Auto
TD	0 ms	Adjust volume	
MTC	Off	Position	Isocenter
Magn. preparation	None	Orientation	Transversal
Flip angle	10 deg	Rotation	0.00 deg
Fat suppr.	None	R >> L	350 mm
Water suppr.	None	A >> P F >> H	263 mm
SWI	Off	F >> Π	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Segments	1
Multiple series	Each measurement	Tagging	None
Resolution		Dark blood	Off
Base resolution	256		-
1 _300 .000.000.		Resp. control	Off

#### Inline

Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	Off
Save original images  Wash - In  Wash - Out  TTP  PEI  MIP - time  MapIt  Contrasts	On Off Off Off Off Off Off Off Off

#### Sequence

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

<b>T</b> A 4.00	\\USER\Feinberglab\Tanja		14050
TA: 1:09	Voxel size: 3.9×3.9×5.0 mm	Rel. SNR: 1.00 USER:	: b1map_658
Properties		B4	On
Prio Recon	Off	B5	On
Before measurement	011	B6	On
After measurement		B7	On
Load to viewer	On	B8	On
Inline movie	Off	Positioning mode	FIX
			S - C - T
Auto store images	On Off	MSMA	8 - C - 1 R >> L
Load to stamp segments	Off	Sagittal	R >> L A >> P
Load images to graphic	Off	Coronal	
segments	2"	Transversal	F >> H
Auto open inline display	Off	Save uncombined	Off
Start measurement without	On	Coil Combine Mode	Adaptive Combine
further preparation	2"	AutoAlign	 D ( )
Wait for user to start	Off	Auto Coil Select	Default
Start measurements	single	Shim mode	Tune up
Routine		Adjust with body coil	Off
Slice group 1		Confirm freq. adjustment	Off
Slices	12	Assume Silicone	Off
Dist. factor	100 %	! Ref. amplitude 1H	100.000 V
Position	R0.7 A12.1 F2.0		
		Adjustment Tolerance	Auto
Orientation	Transversal	Adjust volume	
Phase enc. dir.	A >> P	Position	Isocenter
Rotation	0.00 deg	Orientation	Transversal
FoV read	250 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	350 mm
Slice thickness	5 mm	A >> P	263 mm
TR	1000 ms	F >> H	350 mm
TE 1	14 ms	Composing	
TE 2	14 ms	Composing	
Averages	1	Sequence	
Filter	None	Contrasts	2
Coil elements	B1-8	Bandwidth	260.416667 Hz/Px
Contrast		T1 Compensation	Mean T1
Flip angle 1	90 deg	Mean T1	1000.0 ms
Flip angle 2	120 deg	Angles	1
Flip angle 3	60 deg	Amplitude Weighting	Linear
Flip angle 4	135 deg	Scale Bar	Enabled
Flip angle 5	45 deg	Raw Data	Disabled
Measurements	1		
Resolution			
Base resolution	64		
Phase resolution	100 %		
Raw filter	Off		
Geometry			
Series	Interleaved		
Navigator 1			
Position	R9.4 P81.6 H0.7		
Orientation	Transversal		
Rotation	0.00 deg		
Base size phase	23 mm		
Base size read	50 mm		
Thickness	50 mm		
	Н		
Table position	H 0 mm		
	H 0 mm Off		
Table position Table position	0 mm		
Table position Table position Inline Composing System B1	0 mm		
Table position Table position Inline Composing System	0 mm Off		

\\USER\Feinberglab\Tanja\pgrs3d\pgrs3d\_ey\_20180816\_p8mm

USER: pgrs3d\_ey\_20180816

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

TA: 5:09

PAT: Off

TA. 5.09 PAT. OII	VOXEL SIZE. U.OXU.OXU.O IIIIII	Rei. SNR. 1.00 USER.	pgissu_ey_20160616
Properties		Table position	Н
Prio Recon	Off	Table position	0 mm
Before measurement	Oll	Inline Composing	Off
After measurement		System	
Load to viewer	On	B1	On
Inline movie	Off	B2	On
Auto store images	On	B3	On
	Off	B4	On
Load to stamp segments Load images to graphic	Off	B5	On
segments	Oli	B6	On
	Off	B7	
Auto open inline display			On
Start measurement without	On	B8	On
further preparation	0#	Positioning mode	REF
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	Adaptive Combine
Position	R6.7 P89.1 F12.8	AutoAlign	
Orientation	Transversal	Auto Coil Select	Default
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
Slice oversampling	0.0 %	Confirm freq. adjustment	Off
Slices per slab	10	Assume Silicone	Off
FoV read	96 mm	! Ref. amplitude 1H	100.000 V
FoV phase	25.0 %	Adjustment Tolerance	Auto
Slice thickness	0.80 mm	Adjust volume	
TR	3000 ms	Position	R6.7 P89.1 F12.8
TE		Orientation	Transversal
	36.67 ms	Rotation	0.00 deg
Averages	1	R >> L	96 mm
Concatenations	1	A >> P	24 mm
Filter	None	F >> H	8 mm
Coil elements	B1-8	Dhysis	
Contrast		Physio 1st Signal/Mode	None
Flip angle 1	90 deg	rst Signal/Wode	none
Flip angle 2	180 deg	BOLD	
Fat suppr.	Fat sat.	Motion correction	Off
Averaging mode	Long torm	Spatial filter	Off
Reconstruction	Long term	0	
Measurements	Magnitude	Sequence	0"
	103	Introduction	Off
Pause after meas.	0.0 s	Dimension	3D
Multiple series	Off	Reordering	Centric
Resolution		Contrasts	1
Base resolution	120	Bandwidth	1158 Hz/Px
Phase resolution	100 %	Echo spacing	1.01 ms
Slice resolution	100 %	Slice turbo factor	6
Slice partial Fourier	5/8	EPI factor	30
Interpolation	Off	RF pulse type	Normal
		Gradient mode	Fast
PAT mode	None	·····	
Raw filter	Off	Adjust flipangles	Off
	<b></b>	FLIP ANGLES[1]	180 deg
Geometry		FLIP ANGLES[2]	180 deg
Series	Ascending	FLIP ANGLES[3]	180 deg
Sat ragion 1		FLIP ANGLES[4]	180 deg
Sat. region 1	24 mm	FLIP ANGLES[5]	180 deg
Thickness	24 mm R6.7 P89.1 F12.8	FLIP ANGLES[6]	180 deg
Desition			
Position		Crusher Factor	7.00
Position Orientation Special sat.	Coronal None	Crusher Factor Spoiler Factor RF02 BWT Factor	7.00 1.00

RF02 time	2560 ms
RF Scaling[1]	1.00
Phase Encoding PE	On
Phase Encoding 3D	On
Measurement Number	1023
Inversion Flag	Off
FFT Scale Factor	0.10
ACROSSSEGMENTS	Off
PRIMARYMODE	On
AUTOCORR	Off
CROSSCORR	Off
FILTERED	On
FatSat FlipAngle	110 deg

 $\label{lem:local_local_state} $$\USER\Feinberglab\Tanja\pgrs3d\BP\_grase\_clean\_IV\_0.8mm\_SH$$$ 

USER: BP\_grase\_clean\_IV\_SH

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

TA: 0:00

PAT: Off

1A. 0.00 PAT. OII	VOXELSIZE. U.OXU.OXU.O IIIIII	Rei. SNR. 1.00 USER. I	BP_grase_clean_rv_SH
Droportion		Orientation	Coronal
Properties	0#	Special sat.	None
Prio Recon	Off	Table position	ш
Before measurement After measurement		Table position  Table position	H 0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off	I milite Composing	Oli
Auto store images	On	System	
Load to stamp segments	Off	B1	On
Load images to graphic	Off	B2	On
segments	Oli	B3	On
Auto open inline display	Off	B4	On
Start measurement without	On	B5	On
further preparation	Oli	B6	On
Wait for user to start	Off	B7	On
Start measurements	single	B8	On
Start measurements	Single	Desitioning made	REF
Routine		Positioning mode	S-C-T
Slab group 1		MSMA	
Slabs	1	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	R6.1 P89.7 F7.4	Transversal Save uncombined	F >> H
Orientation	Transversal		Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0 deg	AutoAlign	 D ( !!
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Standard
Slices per slab	10	Adjust with body coil	Off
FoV read	96 mm	Confirm freq. adjustment	Off
FoV phase	25.0 %	Assume Silicone	Off
Slice thickness	0.8 mm	! Ref. amplitude 1H	100.000 V
TR	3000 ms	Adjustment Tolerance	Auto
TE	40.94 ms	Adjust volume	
Averages	1	Position	R6.1 P89.7 F7.4
Concatenations	1	Orientation	Transversal
Filter	None	Rotation	0.00 deg
Coil elements	B1-8	R >> L	96 mm
I		A >> P	24 mm
Contrast	N.	F >> H	8 mm
Magn. preparation	None	l Bu	
Flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Fat sat. mode	Strong	Composing	
Averaging mode	Long term		
Reconstruction	Magnitude	Sequence	
Measurements	103	Introduction	Off
Pause after meas.	0 s	Dimension	3D
Multiple series	Off	Reordering	Centric
		Contrasts	1
Resolution	100	Bandwidth	1158 Hz/Px
Base resolution	120	Turbo factor	6
Phase resolution	100 %	EPI factor	128
Slice resolution	100 %	RF pulse type	Normal
Slice partial Fourier	5/8	Gradient mode	Fast
Interpolation	Off		
PAT mode	None	refocussing type flip angle excit	sinc 2560 90
Prescan Normalize	Off	phase encoding	ON
Raw filter	Off	Maxwell compensation	Off
	<b></b>	ICE program	single
Geometry		prepscans	0
Series	Interleaved	excite duration	0
Sat. region 1		refoc duration	0
Thickness	28 mm	excite BWTP	0
Position	R6.1 P89.7 F7.4	refoc BWTP	0
I USILIUIT	NO.11 03.1 F1.4	I GIOC DAALE	U

Opposite Polarity Crusher	Off
pre-crusher	0
post-crusher1	0
post-crusher2	0
post-crusher3	0
post-crusher4	0

 $\label{lem:local_problem} $$\USER\Feinberglab\Tanja\pgrs3d\BP\_grase\_clean\_IV\_1mm\_SH\_pf6$$ 

USER: BP\_grase\_clean\_IV\_SH

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

TA: 0:00

PAT: Off

Properties		Orientation Special sat.	C > T42.6 None
Prio Recon	Off	— Special sat.	
Before measurement		Table position	Н
After measurement		Table position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off	0: 1	
Auto store images	On	System	
Load to stamp segments	Off	T1	On
Load images to graphic	Off	M2	On
segments	O.I.	B4	On
	Off	M3	On
Auto open inline display	-	V32	Off
Start measurement without	On		
further preparation	0.4	Positioning mode	FIX
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Routine		Coronal	A >> P
		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Adaptive Combine
Dist. factor	0 %	AutoAlign	Adaptive Combine
Position	L0.0 P36.4 F23.6	Auto Coil Select	Defectit
Orientation	T > C-42.6	Auto Coll Select	Default
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	0.0 %		
		Assume Silicone	Off
Slices per slab	8	! Ref. amplitude 1H	240.000 V
FoV read	128 mm	Adjustment Tolerance	Auto
FoV phase	25.0 %	Adjust volume	
Slice thickness	1 mm	Position	L0.0 P36.4 F23.6
TR	3000 ms	Orientation	T > C-42.6
TE	41.02 ms	Rotation	0.00 deg
Averages	1	R >> L	128 mm
Concatenations	1	A >> P	32 mm
Filter	None	F >> H	8 mm
Coil elements	B4;M2,3;T1	Г >> П	0 111111
Coll elements	D4,IVIZ,3,1 1	Physio	
Contrast		1st Signal/Mode	None
Magn. preparation	None	Composing	
Flip angle	180 deg	Composing	
Fat suppr.	Fat sat.	Sequence	
Fat sat. mode	Strong	Introduction	Off
Λ		Dimension	3D
Averaging mode	Long term	Reordering	Centric
Reconstruction	Magnitude	Contrasts	1
Measurements	103	Bandwidth	1148 Hz/Px
Pause after meas.	0 s	Danuwiuin	1140 П2/РХ
Multiple series	Off	Turbo factor	6
Danaludian		EPI factor	128
Resolution		RF pulse type	Normal
Base resolution	128	Gradient mode	Fast
Phase resolution	100 %	Gradient mode	rasi
Slice resolution	100 %	refocussing type	sinc 2560
Slice partial Fourier	6/8	flip angle excit	90
Interpolation	Off	phase encoding	ON
			Off
PAT mode	None	Maxwell compensation ICE program	single
Prescan Normalize	Off	prepscans	0
Raw filter	Off	excite duration	•
Naw Intel	<b>5</b> 11		0
Geometry		refoc duration	0
Series	Interleaved	excite BWTP	0
		refoc BWTP	0
		1 0 " D 1 " 0 1	0"
Sat. region 1		Opposite Polarity Crusher	Off
Sat. region 1 Thickness	32 mm	opposite Polarity Crusher pre-crusher	Oπ 0

post-crusher2	0
post-crusher3	0
post-crusher4	0

USER: pgrs3d\_ey\_20180816

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

TA: 5:09

Properties	1A. 5.09 PAT. OII	VOXELSIZE. 1.0x1.0x1.0 IIIII	Rei. SNR. 1.00 USER.	pgissu_ey_20160616
Table position			Table position	Н
Price Recon   Before measurement   After measurement   After measurement   After measurement   Control				
Before Measurement   Load to viewer   On   Ti		Off		-
Load to viewer				<b>.</b>
Inline movie				
Auto store images				
Load in stamp segments				
Load images to graphic segments   Auto Open inline display				_
Segments				
Auto open inline display   Off   Start measurement without   On   MSMA   S - C - T		Oli	V32	
Start measurement without further preparation   Walf for user to start   Start measurements   Start measurements   Off   Sagittal   R >> L   Coronal   A >> P   Transversal   F >> H   Save uncombined   Off   Coli Combine   Mdaptive Combine   Adaptive Combine		Off	Positioning mode	
further preparation				S - C - T
Wait for user to start   Start measurements   Single   Coronal   A >> F		011		
Start measurements		Off		
Routine				
Slab group 1   Slabs	I .	9		
Salas				Adaptive Combine
Dist. factor				
Position			Auto Coil Select	Default
Position			Shim mode	Standard
Phase enc. dir.			Adjust with body coil	
Rotation				Off
Phase oversampling			Assume Silicone	Off
Silice oversampling   Silice sper slab   8			! Ref. amplitude 1H	240.000 V
Slices per slab   8   FoV read   128 mm   Position   L0.0 P36.4 F23.6				Auto
FoV read				
FoV phase			Position	L0.0 P36.4 F23.6
Slice thickness   1.00 mm		_		
TR         3000 ms         R > P         32 mm           TE         38.88 ms         F > H         8 mm           Averages         1         Physio         F > H         8 mm           Concatenations         1         Physio         Ist Signal/Mode         None         None           Coil elements         B4;M2,3;T1         BOLD         Motion correction         Off         Off           Flip angle 1         90 deg         Spatial filter         Off         Off         Off           Flip angle 2         180 deg         Sequence         Sequence         Sequence         Introduction         Off           Averaging mode         Long term         Sequence         Introduction         Off         Off           Averaging mode         Long term         Reordering         Centric         Centric         Contrasts         1         1         Pause after meas.         0.0 s         Bandwidth         1148 Hz/Px         1148 Hz/Px         Echo spacing         1.02 ms         Normal         Siice turbo factor         6         EPI factor         32         RF pulse type         Normal         Fast         Siice turbo factor         6         EPI factor         32         RF pulse type         Normal         FIP ANGLES[1]<	II			
TE				_
Averages   1				
Concatenations   Filter			F >> H	8 mm
Filter		1	Physio	
Contrast	Filter	None		None
Motion correction   Off	Coil elements	B4;M2,3;T1		
Flip angle 1	Contrast			Off
Flip angle 2		90 dea		
Fat suppr.   Fat sat.   Sequence   Introduction   Off		•	Spatial litter	Oli
Introduction	· · · · · ·			
Reconstruction Magnitude Reordering Centric Measurements 103 Contrasts 1 Pause after meas. 0.0 s Bandwidth 1148 Hz/Px Multiple series Off Echo spacing 1.02 ms  Resolution Slice turbo factor 6 EPI factor 32 RF pulse type Normal Slice partial Fourier 6/8 Interpolation Off FLIP ANGLES[1] 180 deg PAT mode None FLIP ANGLES[2] 180 deg Raw filter Off FLIP ANGLES[3] 180 deg FLIP ANGLES[4] 180 deg FLIP ANGLES[4] 180 deg FLIP ANGLES[5] 180 deg FLIP ANGLES[6] 500 Spoiler Factor 7.00 Spoiler Factor 5.00 REO2 BWT Factor 5.00				
Measurements         103         Contrasts         1           Pause after meas.         0.0 s         Bandwidth         1148 Hz/Px           Multiple series         Off         Echo spacing         1.02 ms           Resolution         Slice turbo factor         6           Base resolution         100 %         FPI factor         32           Phase resolution         100 %         RF pulse type         Normal           Slice partial Fourier         6/8         Adjust flipangles         Off           Interpolation         Off         FLIP ANGLES[1]         180 deg           PAT mode         None         FLIP ANGLES[2]         180 deg           Raw filter         Off         FLIP ANGLES[3]         180 deg           Geometry         FLIP ANGLES[4]         180 deg           Series         Ascending         FLIP ANGLES[6]         180 deg           FLIP ANGLES[6]         180 deg         Crusher Factor         7.00           Spoiler Factor         5.00         Spoiler Factor         5.00		•		
Pause after meas.         0.0 s         Bandwidth         1148 Hz/Px           Multiple series         Off         Echo spacing         1.02 ms           Resolution         Slice turbo factor         6           Base resolution         128         EPI factor         32           Phase resolution         100 %         RF pulse type         Normal           Slice partial Fourier         6/8         Gradient mode         Fast           Interpolation         Off         Adjust flipangles         Off           PAT mode         None         FLIP ANGLES[1]         180 deg           Raw filter         Off         FLIP ANGLES[2]         180 deg           FLIP ANGLES[4]         180 deg         FLIP ANGLES[5]         180 deg           FLIP ANGLES[6]         180 deg         FLIP ANGLES[6]         180 deg		S .	<u> </u>	Centric
Multiple series         Off         Echo spacing         1.02 ms           Resolution         128         Slice turbo factor         6           Phase resolution         100 %         EPI factor         32           Phase resolution         100 %         RF pulse type         Normal           Slice partial Fourier         6/8         Gradient mode         Fast           Interpolation         Off         Adjust flipangles         Off           PAT mode         None         FLIP ANGLES[1]         180 deg           Raw filter         Off         FLIP ANGLES[2]         180 deg           Geometry         FLIP ANGLES[4]         180 deg           FLIP ANGLES[5]         180 deg           FLIP ANGLES[6]         180 deg           FLIP ANGLES[6]         180 deg           Crusher Factor         7.00           Spoiler Factor         5.00           RE02 BWT Factor         1.00				1
Resolution   128				
Base resolution   128		Oil	Ecno spacing	1.02 ms
Phase resolution         100 %         RF pulse type         Normal           Slice resolution         100 %         Gradient mode         Fast           Slice partial Fourier         6/8         Adjust flipangles         Off           Interpolation         Off         FLIP ANGLES[1]         180 deg           PAT mode         None         FLIP ANGLES[2]         180 deg           Raw filter         Off         FLIP ANGLES[3]         180 deg           Geometry         FLIP ANGLES[4]         180 deg           Series         Ascending         FLIP ANGLES[6]         180 deg           Crusher Factor         7.00         Spoiler Factor         5.00           Spoiler Factor         5.00         RE02 RWT Factor         1.00			Slice turbo factor	6
Slice resolution				32
Slice partial Fourier   6/8   Adjust flipangles   Off			RF pulse type	Normal
Interpolation			Gradient mode	Fast
FLIP ANGLES[1] 180 deg   FLIP ANGLES[2] 180 deg   FLIP ANGLES[2] 180 deg   FLIP ANGLES[3] 180 deg   FLIP ANGLES[3] 180 deg   FLIP ANGLES[4] 180 deg   FLIP ANGLES[4] 180 deg   FLIP ANGLES[5] 180 deg   FLIP ANGLES[5] 180 deg   FLIP ANGLES[6] 180 deg   FLIP ANGLES[6] 180 deg   Crusher Factor 7.00   Spoiler Factor 5.00   Spoiler Factor 5.00   Spoiler Factor 5.00   RE02 BWT Factor 1.00   RE			Adjust flipangles	Off
PAT mode         None         FLIP ANGLES[2]         180 deg           Raw filter         Off         FLIP ANGLES[3]         180 deg           Geometry         FLIP ANGLES[4]         180 deg           Series         Ascending         FLIP ANGLES[5]         180 deg           Sat. region 1         Crusher Factor         7.00           Spoiler Factor         5.00           RE02 BWT Factor         1.00	Interpolation	Off		
Raw filter   Off   FLIP ANGLES[3]   180 deg   FLIP ANGLES[4]   180 deg   FLIP ANGLES[5]   180 deg   FLIP ANGLES[5]   180 deg   FLIP ANGLES[5]   180 deg   FLIP ANGLES[6]   180 deg   FLIP ANGLES[6]   180 deg   Crusher Factor   7.00   Spoiler Factor   5.00   Spoiler Factor   5.00   RE02 BWT Factor   1.00   Total Residence   1.00   RE02 BWT Factor   1.00   RE02 BWT Facto	PAT mode	None		•
Faw line   Oii				
Geometry         FLIP ANGLES[5]         180 deg           Series         Ascending         FLIP ANGLES[6]         180 deg           Crusher Factor         7.00           Sat. region 1         Spoiler Factor         5.00           Thickness         32 mm         RF02 BWT Factor         1.00	Raw filter	Oπ		_
Series         Ascending         FLIP ANGLES[6]         180 deg           Sat. region 1         Crusher Factor         7.00           Spoiler Factor         5.00           RF02 BWT Factor         1.00	Geometry			
Crusher Factor   7.00		Ascending		
Sat. region 1 Thickness 32 mm Spoiler Factor 5.00 RE02 BWT Factor 1.00		······································		
I NICKNESS 32 mm RE02 BWT Factor 1 00		22 mm	Spoiler Factor	
LIOOMON LIOUPIE ALIVE C		_		1.00
Position L0.0 P36.4 F23.6 RF02 time 2560 ms				2560 ms
Orientation C > T42.6 RF Scaling[1] 1.00  Special sat. None				
Phase Encoding PE On	opecial sat.		Phase Encoding PE	On

Phase Encoding 3D	On
Measurement Number	1023
Inversion Flag	Off
FFT Scale Factor	1.00
ACROSSSEGMENTS	Off
PRIMARYMODE	On
AUTOCORR	Off
CROSSCORR	Off
FILTERED	On
FatSat FlipAngle	110 deg

\\USER\Feinberglab\Tanja\3D\_EPI\_Siemens\ep\_seg\_fid\_BWTP\_UI

Rel. SNR: 1.00

USER: ep\_seg\_fid\_BWTP\_UI

Voxel size: 4.0x3.9x5.0 mm

TA: 2.5 s

Properties		System	
Prio Recon	Off	Gystom	On
Before measurement	Oli	M2	Off
After measurement		B4	Off
Load to viewer	On	M3	Off
Inline movie	Off	V32	Off
Auto store images	On	V 32	
Load to stamp segments	Off	Positioning mode	REF
Load images to graphic	Off	MSMA	S - C - T
segments	Oli	Sagittal	R >> L
Auto open inline display	Off	Coronal	A >> P
	-	Transversal	F >> H
Start measurement without	On	Save uncombined	Off
further preparation	Off	Coil Combine Mode	Sum of Squares
Wait for user to start		AutoAlign	·
Start measurements	single	Auto Coil Select	Default
Routine			
Slice group 1		—— Shim mode	Standard
Slices	1	Adjust with body coil	Off
Dist. factor	50 %	Confirm freq. adjustment	Off
Position	Isocenter	Assume Silicone	Off
Orientation	Transversal	? Ref. amplitude 1H	0.000 V
Phase enc. dir.	A >> P	Adjustment Tolerance	Auto
Rotation	0.00 deg	Adjust volume	
	0.00 deg 0 %	Position	Isocenter
Phase oversampling		Orientation	Transversal
FoV read	500 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	500 mm
Slice thickness	5.0 mm	A >> P	500 mm
TR	192 ms	F >> H	5 mm
TE	91 ms	ļ	<b>5</b>
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	None	Poon control	Off
Coil elements	T1	Resp. control	Oli
Contrast		Composing	
MTC	Off	Sequence	
Flip angle	90 deg	Introduction	Off
Fat suppr.	Fat sat.	Dimension	2D
Averaging mode	Long term	Bandwidth	752 Hz/Px
Reconstruction	Magnitude	Free echo spacing	Off
Measurements	1	Echo spacing	1.38 ms
	!		
Multiple series	Each measurement	EPI factor	3
Resolution		RF pulse type	Normal
Base resolution	128	Gradient mode	Fast
Phase resolution	98 %	RF spoiling	On
Phase partial Fourier	Off	excite duration	5120
Interpolation	Off	excite duration excite BWTP	5120
		EXCILE DW IP	ე.∠
Distortion Corr.	Off		
Prescan Normalize	Off		
Raw filter	Off		
Elliptical filter	Off		
Hamming	Off		
Geometry			
Multi-slice mode	Interleaved		
Series	Interleaved		
Special sat.	None		
Table position	Н		
Toble position	0 mm		
Table position Inline Composing	Off		

\\USER\Feinberglab\Tanja\3D\_EPI\_Siemens\ep\_seg\_fid\_test

Voxel size: 4.0×3.9×5.0 mm Rel. SNR: 1.00

TA: 2.5 s

USER: ep\_seg\_fid\_test

perties		System	
Prio Recon	Off	T1	On
Before measurement		M2	Off
After measurement		B4	Off
Load to viewer	On	M3	Off
Inline movie	Off	V32	Off
		V 32	
Auto store images	On O"	Positioning mode	REF
Load to stamp segments	Off	MSMA	S-C-T
Load images to graphic	Off	Sagittal	R >> L
segments		Coronal	A >> P
Auto open inline display	Off	Transversal	F >> H
Start measurement without	On		
further preparation		Save uncombined	Off
Wait for user to start	Off	Coil Combine Mode	Sum of Squares
Start measurements	single	AutoAlign	
	S.i.igis	Auto Coil Select	Default
outine		—— Shim mode	Standard
Slice group 1			Off
Slices	1	Adjust with body coil	
Dist. factor	50 %	Confirm freq. adjustment	Off
Position	Isocenter	Assume Silicone	Off
Orientation	Transversal	? Ref. amplitude 1H	0.000 V
Phase enc. dir.	A >> P	Adjustment Tolerance	Auto
		Adjust volume	
Rotation	0.00 deg	Position	Isocenter
Phase oversampling	0 %	Orientation	Transversal
FoV read	500 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	500 mm
Slice thickness	5.0 mm	A >> P	500 mm
TR	189 ms		
TE	90 ms	F >> H	5 mm
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	None	1st Signal/Mode	
Coil elements	T1	Resp. control	Off
	11	Composing	
ontrast	0"		
MTC	Off	Sequence	
Flip angle	90 deg	Introduction	Off
Fat suppr.	Fat sat.	Dimension	2D
Averaging made	Long torm	Bandwidth	752 Hz/Px
Averaging mode	Long term	Free echo spacing	Off
Reconstruction	Magnitude	Echo spacing	1.38 ms
Measurements	1	Lono spacing	
Multiple series	Each measurement	EPI factor	3
solution		RF pulse type	Normal
esolution	400	Gradient mode	Fast
Base resolution	128	RF spoiling	On
Phase resolution	98 %	171 Spoining	Oil
Phase partial Fourier	Off		
Interpolation	Off		
Distantian Com	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Distortion Corr.	Off		
Prescan Normalize	Off		
Raw filter	Off		
Elliptical filter	Off		
Hamming	Off		
eometry			
Multi-slice mode	Interleaved		
Series	Interleaved		
Special sat.	None		
	Н		
Table position			
Table position Table position	0 mm		

\\USER\Feinberglab\Tanja\3D\_EPI\_Siemens\ep\_seg\_fid\_BWTP\_UI

roperties		Table position	H 0
Prio Recon	Off	Table position	0 mm Off
Before measurement		Inline Composing	Oii
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		Positioning mode	REF
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	0#	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
outine		Coil Combine Mode	Sum of Squares
Slab group 1		AutoAlign	
Slabs	1	Auto Coil Select	Default
Dist. factor	50 %	Shim mode	Standard
Position	L0.0 A30.4 H0.0	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
Slice oversampling	0.0 %	Adjust volume	Auto
Slices per slab	32	Position	L0.0 A30.4 H0.0
FoV read	180 mm	Orientation	Transversal
FoV phase	100.0 %	Rotation	0.00 deg
Slice thickness	3.00 mm	R >> L	180 mm
TR	119 ms	A >> P	180 mm
TE	18 ms	F >> H	96 mm
Averages	1	I	
Concatenations	1 Name	Physio	
Filter Coil elements	None	1st Signal/Mode	None
	B4;M2,3;T1	Resp. control	Off
Contrast	O#	Composing	
MTC Flip angle	Off 17 dog		
Fat suppr.	17 deg Fat sat.	Sequence	~"
	Fai Sai.	Introduction	Off
Averaging mode	Long term	Dimension Bondwidth	3D
Reconstruction	Magnitude	Bandwidth	1860 Hz/Px
Measurements	1	Free echo spacing	Off
Multiple series	Each measurement	Echo spacing	0.6 ms
esolution		EPI factor	65
Base resolution	64	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %	RF spoiling	On
Phase partial Fourier	7/8	excite duration	2560
Slice partial Fourier	7/8	excite duration excite BWTP	25.0
Interpolation	Off	ONORO DVVII	20.0
	Off		
Distortion Corr.	Off		
Prescan Normalize Raw filter	Off Off		
Elliptical filter	Off		
Hamming	Off		
-	Jii		
Geometry			
Multi-slice mode	Interleaved		
Series	Interleaved		
Special sat.	None		

\\U	SER\Feinberglab\Tanja\GR	ASE\BP_grase_clean_VASC	)_V04
TA: 3.0 s PAT: Off	Voxel size: 7.8×7.8×3.0 mm	Rel. SNR: 1.00 USER: BP	P_grase_clean_VASO_V04
Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement	<b>.</b>	Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		
Inline movie	Off	System	0.5
Auto store images	On	T1	On Off
Load to stamp segments	Off	M2	Off
Load images to graphic	Off	B4 M3	Off Off
segments		V32	Off
Auto open inline display	Off	V 32	
Start measurement without	On	Positioning mode	REF
further preparation		MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		— Save uncombined	Off
Slabs	1	Coil Combine Mode	Adaptive Combine
Dist. factor	0 %	AutoAlign	<b></b>
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
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	0.0 %	? Ref. amplitude 1H	0.000 V
Slices per slab	20	Adjustment Tolerance	Auto
FoV read	500 mm	Adjust volume	
FoV phase	100.0 %	Position	Isocenter
Slice thickness	3.0 mm	Orientation	Transversal
TR	3000 ms	Rotation	0.00 deg
TE	42.12 ms	R >> L	500 mm
Averages	1	A >> P	500 mm
Concatenations	1	F >> H	60 mm
Filter	None	Physio	
Coil elements	T1	1st Signal/Mode	None
Contrast		!	140110
Magn. preparation	None	- Composing	
Flip angle	180 deg	Sequence	
Fat suppr.	Fat sat.	Introduction	Off
Fat sat. mode	Strong	Dimension	3D
Averaging mode	Long term	Reordering	Centric
Reconstruction	Magnitude	Contrasts	1
Measurements	1	Bandwidth	2004 Hz/Px
Multiple series	Off	Echo spacing	0.5 ms
Resolution		Turbo factor	20
Base resolution	64	EPI factor	64
Phase resolution	100 %	RF pulse type	Normal
Slice resolution	100 %	Gradient mode	Fast
Slice partial Fourier	Off	flip angle excit	90
Interpolation	Off	phase encoding	ON
PAT mode		Maxwell compensation	Off
FAT IIIOGE	None	ICE program	Mosaic
Prescan Normalize	Off	prepscans	0
Raw filter	Off		
Geometry			
Series	Interleaved	<del></del>	
Sat. region 1	66 mm		

Thickness

Orientation

Position

66 mm

Isocenter

Transversal

#### Table of contents

#### \\USER

